



October 4, 2023

NPDES Annual MS4 Status Report Reviewer
Bureau of Clean Water
Pennsylvania Department of Environmental Protection
2 East Main Street
Norristown, PA 19401
Submitted via DEP's OnBase Electronic Forms Upload Tool

RE: West Norriton Township Annual MS4 Status Report
NPDES Permit No. PAG130006
West Norriton Township, Montgomery County
233-23-0006

Dear Reviewer,

On behalf of West Norriton Township, Cedarville Engineering Group, LLC is pleased to provide the enclosed NPDES Annual MS4 Status Report and associated documentation for the NPDES MS4 General Permit (PAG130006) covering the period from July 1, 2022 to June 30, 2023.

We believe that the report adequately documents the Township's compliance with the permit and continuing effort to go above and beyond in improving their Stormwater Management Program.

Thank you in advance for your time. Please do not hesitate to contact me at 610-705-4500 or jorr-greene@cedarvilleeng.com with any questions.

Best Regards,
Cedarville Engineering Group, LLC

A handwritten signature in black ink that reads "Jennifer Orr-Greene".

Jennifer Orr-Greene
Environmental Project Manager

cc: Jason Bobst, West Norriton Township





October 4, 2023

ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

Prepared For:

West Norriton Township
1630 W Marshall Street
Jeffersonville, PA 19403

Prepared By:



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

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*Cedarville Engineering Group, LLC (CEG) is a **Federally Certified 8(a)/EDWOSB & DBE/WBE Company** specializing in civil engineering, environmental consulting, geospatial and construction services for federal, state, municipal, private and institutional clients. The CEG team of professionals ensure successful projects from concept to planning and design, through permitting and construction, to project acceptance, operations and maintenance. We deliver value through innovation.*

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Report Components

1.0 Annual Municipal Separate Storm Sewer System (MS4) Status Report

APPENDICES

[Appendix A](#) MCM #1 – Public Education and Outreach Program (PEOP)

1. Educational Outreach Documentation

[Appendix B](#) MCM #2 – Public Involvement and Participation Program (PIPP)

1. Public Involvement Documentation

[Appendix C](#) MCM #3 – Illicit Discharge Detection and Elimination (IDDE)

1. Survey123 Outfall Inspection Form

2. Priority Outfall Screening Report

[Appendix D](#) MCM #5 – Post Construction Stormwater Management (PCSM)

1. PCSM BMP Inspection Report and Inventory

[Appendix E](#) MCM #6 – Pollution Prevention and Good Housekeeping (PPGH)

1. Employee Training Documentation

[Appendix F](#) MS4 Infrastructure Map



ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

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

GENERAL INFORMATION					
Permittee Name:	West Norriton Township	NPDES Permit No.:	PAG130006		
Mailing Address:	1630 West Marshall Street	Effective Date:	3/16/2018		
City, State, Zip:	Jeffersonville, PA 19403	Expiration Date:	3/15/2023		
MS4 Contact Person:	Jason Bobst	Renewal Due Date:	9/16/2022		
Title:	Township Manager	Municipality:	West Norriton Township		
Phone:	610-631-0450	County:	Montgomery		
Email:	jbobst@wntwp.com				
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 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 type="checkbox"/> Yes <input checked="" 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?
Schuylkill River	WWF	Yes	PCBs	Yes	No
Indian Creek	WWF	Yes	Water/Flow Variability, Siltation; Cause Unknown	No	No
UNT 1 to Stony Creek	TSF	Yes	Water/Flow Variability, Siltation; Cause Unknown	No	No
UNT 2 to Stony Creek	TSF	Yes	Water/Flow Variability, Siltation; Cause Unknown	No	No
UNT to Indian Creek	WWF	Yes	Water/Flow Variability, Siltation; Cause Unknown	No	No
UNT to Schuylkill River	WWF	Yes	Water/Flow Variability, Siltation, Cause Unknown	No	No

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

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-Continue the involvement of the Township Environmental Advisory Council.

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

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

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

1. For new permittees only, were stormwater educational and informational items produced and published in print and/or on the Internet within the first year of permit coverage?
 Yes No
2. Date of latest annual review of educational materials: March 2023 Were updates made? Yes No
3. Do you have a municipal website? Yes No (URL: <https://www.westnorritontwp.org/178/Storm-Water-Management-MS4>)

If Yes, what MS4-related material does it contain?

- Background information on Storm Water Management in West Norriton Township. See Appendix A for website snips
 - Permit Framework information.
 - West Norriton Township MS4 information.
 - Links to PADEP, EPA, MCCD, CWP, and many other entities relating to stormwater
 - Information regarding illicit discharges and how residents can report them to the Township.
 - Links to the previous four Annual MS4 Status Reports (July 1, 2016 – June 30, 2018, July 1, 2018 – June 30, 2019, July 1, 2019 – June 30, 2020, July 1, 2020 - June 30, 2021 and, July 1 2022 - June 30 2023)
 - A page containing background Information on the Township’s Pollutant Reduction Plan, a summary of the PRP, a link to the PRP, and links to two public presentations on the PRP.
 - A page containing customized interactive GIS story map entitled “Stormwater In Your Backyard” providing information on the Township’s MS4 Program.
 - A page containing information on the Alexander Drive Basin Retrofit project, one of the Township’s PRP projects.
 - A page entitled “Stormwater Education” which features a stormwater education video created by the Township in December 2020.
4. Describe any other method(s) used during the reporting period to provide information on stormwater to the public: Please refer to BMP #4 below for additional methods used. Refer to Appendix A for documentation.
5. Identify specific plans for the publication of stormwater materials for the upcoming year:
- Review the stormwater educational information on the Township website and update as necessary (BMP #2).
 - Publish at least one new stormwater educational item.
 - Publish one article relating to stormwater and one or more of the MCMs in the Township newsletter.

BMP #4: Distribute stormwater educational materials to the target audiences.

Identify the two additional methods of distributing stormwater educational materials during the previous reporting period (e.g., displays, posters, signs, pamphlets, booklets, brochures, radio, local cable TV, newspaper articles, other advertisements, bill stuffers, posters, presentations, conferences, meetings, fact sheets, giveaways, or storm drain stenciling).

- An article was published in the What's up West Norriton Spring 2023 Newslettter regarding the Single-Use plastic Bag Ban begininng April 22, 2023
- An article was published in the What's up West Norriton Fall 2022 Newsletter regarding the Leaf collection in the fall of 2022

MCM #1 Comments:

Refer to Appendix A for MCM #1 supoorting documentation.

MCM #2 – PUBLIC INVOLVEMENT/PARTICIPATION

BMP #1: Develop, implement and maintain a written Public Involvement and Participation Program (PIPP)

1. For new permittees only, was the PIPP developed and implemented within one year of permit coverage?

Yes No

2. Date of latest annual review of PIPP: March 2023

Were updates made? Yes No

BMP #2: Advertise to the public and solicit public input on ordinances, SOPs, Pollutant Reduction Plans (PRPs) (if applicable) and TMDL Plans (if applicable), including modifications thereto, prior to adoption or submission to DEP:

1. Was an MS4-related ordinance, SOP, PRP or TMDL Plan developed during the reporting period? Yes No
2. If Yes, describe how you advertised the draft document(s) and how you provided opportunities for public review, input and feedback:
3. If an ordinance, SOP or plan was developed or amended during the reporting period, provide the following information:

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

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: 9/6/2022 - Board of Commissioners presentation by CEG. The Presentation reviewed the MS4 permit requirements and accomplishments of the Township.
- Refer to Appendix B for supporting documentation.
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 EAC discussed the Riparian Buffer Initiative as a part of their agenda during the June 7, 2023 meeting.
 - The Township EAC discussed plastic bag ban support as a part of their agenda during the May 3, 2023 meeting.
 - The Township EAC discussed stream cleanup for Earth Day and plastic ban support as a part of their agenda during the April 12, 2023 meeting.
 - The Township EAC discussed stream cleanup for Earth Day, plastic ban support, and PFAS contamination as a part of their agenda during the March 1, 2023 meeting.
 - The Township EAC discussed plastic bag ban support, Stormwater priorities for 2023 as a part of their agenda during the February 8, 2023 meeting.
 - The Township EAC discussed the update on single use plastic bag ban as a part of their agenda during their November 2, 2022 meeting.
 - The Township EAC discussed the update on single use plastic bag ban as a part of their agenda during their October 5, 2022 meeting.
 - The Township EAC discussed the update on single use plastic bag ban as a part of their agenda during their September 14, 2022 meeting.
 - The Township EAC discussed the update on single use plastic bag ban as a part of their agenda during their August 3, 2022 meeting.
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.
- CEG staffed a stormwater booth at West Norriton's Fall Festival on 10/15/2022.

MCM #2 Comments:

The Township Stormwater Management Ordinance is complete and was signed into ordinance November 9, 2022.

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: April 2023 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): August 2023

3. Total No. of Outfalls in MS4: 90 Total No. of Outfalls Mapped: 90

4. Total No. of Observation Points: 15 Total No. of Observation Points Mapped: 15

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): August 2023

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? 14

2. Indicate the percentage of all outfalls screened in the past five years. 100%

3. Indicate the percent of outfalls screened during the reporting period that revealed dry weather flows: 36%

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: 7/13/2004

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

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? IDD&E goals were outlined in the stormwater booth hosted by CEG at West Norriton Day which was advertised to the entire community. An enviroscape was utilized to demonstrate how pollutants are collected and transported by stormwater runoff. See APPENDIX B for documentation.

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:

The Township conducted dry weather field screening of all 14 of the outfalls that drain priority areas during the reporting period. Five (5) outfalls had dry weather flow, but all were determined to have flow due to naturally occurring sources.

The Township utilizes a Dry Weather Outfall Field Screening form though Survey123 (hosted by ArcGIS Online) developed based on the Outfall Reconnaissance Inventory/Sample Collection Field Sheet (Center for Watershed Protection, 2004) and the MS4 Outfall Field Screening Report (PA DEP, 2015), and is readily available on Survey123 hosted by ArcGIS Online.

The results of the outfall field screening are documented in the attached Priority Area Outfall Determination Report dated April 2023. Outfalls that drain priority areas are proposed to be screened on an annual basis until the outfall has not shown any indication of potential illicit discharges/connections during routine screening for three (3) consecutive years.

During the reporting period, there were no recorded illicit discharges. There is a reporting button on the Township's website for residents to easily notify and log a concern.

<https://www.westnorritontwp.org/178/Storm-Water-Management-MS4>

The Township maintains a map with all stormwater infrastructure, outfalls, and BMPs by hosting a live ArcGIS Online web map app, in addition to the pdf map attached to this report in Appendix F. No mapping updates were performed during this reporting period. The web map app is publicly accessible via the Township website through the GIS Hub here: <https://wntwp.maps.arcgis.com/apps/webappviewer/index.html?id=5376211f39fd482fd9abe3caf2813c1>
The Township has a password-protected version of this web map app available to Township staff that includes more detailed information.

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: 7/13/2004

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:

The Township does rely on PA's statewide program for stormwater associated with construction activities to satisfy this MCM. However, West Norriton Township completes regular construction inspections of all active construction sites. E&S is a component of these inspections.

Number of Inspections Performed Throughout the Reporting Period:

Ten (10) E&S control-specific inspections were performed at The Reserve at Stoney Creek during the reporting period. In addition, the Township performed routine construction inspections at other active construction sites which include monitoring E&S controls. The inspection reports are available upon request.

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: 7/13/2004
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: 7/13/2004
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.

During this reporting period, thirty-one (31) PCSM BMPs were inspected on June 6, June 21, and July 5. Of these BMPs, one (1) privately owned BMP was noted to have items that need to be addressed. A notice of violation will be sent to the privately-owned BMP property owners so they can address the corrective measures necessary for operation and maintenance. Coordination is ongoing. Also, one (1) BMP was not accessible and a notice of non-compliance will be sent to the property owner.

Two (2) Pollutant Reduction Plan (PRP) BMPs were also inspected to observe that status of the projects and whether proper O&M is occurring if applicable. Only one (1) PRP BMP is undergoing maintenance required by the PADEP.

Refer to Appendix D for supporting documentation.

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	Refer to Appendix D.			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:

Refer to Appendix C for the Township's PCSM BMP Inventory and PCSM BMP Inspection Report.

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? March 2023
3. When was it last updated? March 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: Reviewed March 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: Reviewed March 2023 Date of latest training: 10/05/2021

3. Training topics covered:

An in-person field training was held for the Township's 2022 MS4 Training covering the following topics:
 - Stormwater basics, maintenance, and regulation
 NPDES MS4 program overview (i.e., background and minimum control measures)
 Detailed information regarding MCM 3 (IDD&E) and MCM 6 (Pollution Prevention and Good Housekeeping)
 Group mock inspection

4. Name(s) of training presenter(s):

Amanda Reitbauer, CEG Project Manager

5. Names of training attendees:

John Bergstrasser, Public Works
 Keith Burton, Public Works
 Kenny Knauer, Public Works
 Mike Valyo, Public Works
 Ryan O'Donnell, Public Works
 Johnathan Kennedy, Public Works
 Domenico Varone, Public Works
 John Bergstrasser, Public Works

MCM #6 Comments:

The Township has readily available forms for storm sewer O&M, hazardous spill clean-up, and municipal facilities inspections located on their ArcGIS online account accessible through Survey123 for field use. See Appendix E for supporting documentation.

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)	6/10/2019	<input type="checkbox"/>	
Source Inventory	8/14/2020	<input type="checkbox"/>	
Investigation of Suspected Sources	n/a	<input type="checkbox"/>	n/a
Ordinance/SOP for Controlling Animal Wastes	n/a	<input type="checkbox"/>	n/a

PCM Comments:

The Township is required to implement Pollutant Control Measures for Priority Organic Compounds (Appendix C) for discharges to the Schuylkill River which is impaired by polychlorinated biphenyls (PCBs). Each task has been completed by the completion date above. Because no suspected sources of PCBs were identified in the Source Inventory, an investigation of suspected sources is not applicable.

In addition, the Ordinance/SOP for Controlling Animal Wastes is only applicable for Appendix B. West Norriton does not have this requirement.

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 checked="" type="checkbox"/> Impaired Waters PRP (Appendix E)	May 24, 2019	October 7, 2019	Unnamed tributaries (UNTs) to Schuylkill River, Indian Creek and UNTs, UNTs to Stony Creek
<input type="checkbox"/> TMDL Plan (Appendix F)			
<input type="checkbox"/> Combined Chesapeake Bay / Impaired Waters PRP			Chesapeake Bay,
<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 checked="" type="checkbox"/> Impaired Waters PRP (Appendix E)	144,574.14	189.68	1,594.20
<input type="checkbox"/> TMDL Plan (Appendix F)			
<input type="checkbox"/> Combined Chesapeake Bay / Impaired Waters PRP			
<input type="checkbox"/> Combined PRP / TMDL Plan			

3. Date Final Report Demonstrating Achievement of Pollutant Load Reductions Due: March 15, 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.

DEP approved the Township's Pollutant Reduction Plan (PRP) on October 7, 2019. Status updates for each proposed BMP are provided below:

- Jeffersonville Golf Club Stream Restoration Phase I: Completed in October 2020. Long-term O&M is ongoing. An O&M inspection was completed June 2022. Maintenance activities are to be addressed in the upcoming reporting period. After the PA DEP MS4 inspection on April 10, 2023, maintenance items were discussed and are planned to be addressed within the next reporting period.
- Jeffersonville Golf Club Stream Restoration Phase II: A feasibility study was completed in May 2019. Sources of funding are being explored.
- Centennial Park Stream Restoration: This project is not listed in the Township's PRP, however, it is being explored as an alternative option to achieve the required reduction. A PA Department of Community and

Economic Development (PA DCED) Watershed Restoration and Protection Program (WRPP) grant application was submitted for design, permitting, and construction in May 2022. The grant application award has been reviewed. The project is currently in the design phase.

- Blue Dove Basin Retrofit: The inflow pipe on the south side the basin has been reconstructed. The permanent outlet structure has been replaced. The remaining items of the basin to be retrofitted are pending.
- Burnside Village Basin Retrofit: This project was completed in September 2017. An O&M inspection was completed June 2022. Maintenance activities are to be addressed in the upcoming reporting period.
- Alexander Drive Basin Retrofit: This project was completed in August 2020. An O&M inspection was completed June 2022. Maintenance activities are to be addressed in the upcoming reporting period.

The Township developed a Esri Story Map to highlight the progress of the Township's PRP implementation: (<https://wntwp.maps.arcgis.com/apps/Cascade/index.html?appid=3e903f84934a4c5c9551795cffc4b303&folderid=8cde11b5fbb247b4a95156b0fab9322b>).

6. Anticipated activities for next reporting period.

The status of the BMPs for the next reporting period are as follows:

- Jeffersonville Golf Club Stream Restoration Phase I: Ongoing O&M activities.
- Jeffersonville Golf Club Stream Restoration Phase II: Funding sources are being pursued.
- Centennial Park Stream Restoration: The project will be in the construction phase and completed by the end of the next reporting period.
- Blue Dove Basin Retrofit: Progress is anticipated on the construction of the remaining basin improvements.
- Burnside Village Basin Retrofit: Ongoing O&M activities.
- Alexander Drive Basin Retrofit: Ongoing O&M activities.

PRP/TMDL Plan Comments:

The PRP BMPs were noted to have maintenance issues during the 2023 inspections. The Township will work towards addressing the maintenance items during the next reporting period.

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)
						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"/>	
						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?
24	Burnside Village Detention Basin	87.56	32	0.65	Acres	40°8'29"	75°22'44"	September 2017	34,289.67	June 2022	<input type="checkbox"/>
25	Jeffersonville Golf Club Stream Restoration Phase I	N/A	NA	944	Linear Feet	40°8'11"	75°23'01"	October 2020	42,366.72	June 2022	<input type="checkbox"/>
26	Alexander Drive Basin Retrofit	37.81	35	0.48	Acres	40°8'48"	75°22'6"	August 2020	15,263.94	June 2022	<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>

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

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

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).

Jason Bobst

Name of Responsible Official

610-631-0450

Telephone No.



Signature

October 10, 2023

Date



Annual MS4 Status Report

APPENDIX A

MCM #1 Public Education and Outreach

1. Educational Outreach Documentation



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

P: 610-705-4500 E: info@CedarvilleEng.com

CedarvilleEng.com

STORM WATER MANAGEMENT AND MS4

Storm Water Management in West Norriton

The Clean Water Act is the federal legislation that governs storm water management. Storm water point discharges to waters of the U.S. are regulated using National Pollutant Discharge Elimination System (NPDES) permits.

In 1999, federal regulations extended coverage of the NPDES program to local separate storm sewer systems (MS4s) serving populations less than 100,000. West Norriton Township is required to comply with the NPDES program as a MS4. Under the NPDES storm water program, permittees must develop a storm water management plan that provides the details of how the community (West Norriton Township) will comply with the requirements of the permit.



Permit Framework

Permits are based on a framework of six minimum control measures:

- Construction site runoff control
- Illicit discharge detection and elimination
- Pollution prevention and good housekeeping for municipal operations and maintenance
- Post-construction storm water management in new development and redevelopment
- Public education and outreach
- Public participation and involvement

More information on this program is available from the [Pennsylvania DEP website](#).

West Norriton Township Municipal Separate Storm Sewer Systems

The goals of all municipal separate storm sewer systems (MS4s) programs and West Norriton Township are to:

- Reduce the discharge of pollutants from the township
- Protect water quality
- Satisfy requirements of the Clean Water Act

West Norriton Township would like you to remember that the water and any items that go into a storm sewer go directly into streams. This water is not cleaned in any way and does not go to the waste water treatment plant. West Norriton Township needs all of its residents to assist us in keeping our storm water and storm water sewer system clean by doing the following:

- Clean up after your pets
- Dispose of water properly
- Store materials that could pollute storm water indoors
- Use fertilizers properly efficiently to prevent excess runoff

Also, please monitor storm water inlets near your property. No one should dump anything into the storm sewer system. If you see someone dumping, please call the township at 610-631-0450.

Annual Municipal Separate Storm Sewer System (MS4) Status Reports

- [July 1, 2016 to June 30, 2018 \(PDF\)](#)
- [July 1, 2018 to June 30, 2019 \(PDF\)](#)
- [July 1, 2019 to June 30, 2020 \(PDF\)](#)
- [July 1, 2020 to June 30, 2021 \(PDF\)](#)
- [July 1, 2021 to June 30, 2022 \(PDF\)](#)

WEST NORRITON TOWNSHIP

1630 W Marshall Street, Jeffersonville, PA 19403



Hours: Monday - Friday 8:30 a.m. - 4:30 p.m.
Phone: 610-631-0450 Fax: 610-630-0304

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ALEXANDER DRIVE BASIN RETROFIT

The Alexander Drive Basin was constructed in the early 1980s to provide stormwater detention for a 37.81-acre single-family residential area. Located at the southwest corner of Alexander Drive and Burnside Avenue, the detention basin currently provides peak rate stormwater runoff control for storm events. The detention basin provides for minimal treatment of stormwater runoff – providing only a 10% reduction of sediment for stormwater runoff passing through the basin.

Currently, Stony Creek is listed on the Integrated List of Waters as impaired for aquatic life due to siltation from urban runoff/storm sewers. Stony Creek is classified as a trout stocked stream in the Pennsylvania Chapter 93 water quality standards (WQS). The TSF classification requires that permitted discharges in the basin meet water quality criteria designed to allow for the maintenance of stocked trout from February 15 through July 31, and the maintenance and propagation of warm water fishes and associated flora and fauna for the remainder of the year.

The Stony Creek flows through the northern portion of West Norriton Township towards the south-southeast, where it meets and feeds into the Schuylkill River in the Borough of Norristown. In the Stony Creek Watershed, the conversion of permeable land cover to less permeable surfaces have increased the volume and frequency of runoff and led to several problems. The major conflicts include increased incidence of flooding, impaired water quality, and ecological degradation.



Project Schedule

Task	Start Date
Preliminary & Final Design	Winter 2020
Permits and Approval	Spring 2020
Construction Start	Summer 2020
Construction End	Fall 2020
Maintenance/Replanting	Fall 2020 - Fall 2021

Existing Conditions



Alexander Drive basin is roughly 26,000 square feet with a bottom elevation of 212 feet and a top elevation of 219 feet. Soil infiltration testing shows poorly drained soils due a fragipan layer in the bottom of the basin. Basin cover is mowed lawn with landscaped mature trees around the perimeter. The basin bottom is extremely eroded with deep gullies leading from the two (2) inflows to the riser structure.

Most of the basin banks are bare soil, while the basin bottom is comprised of mowed grass.

There are two (2) sources of inflow to the basin: 1- 30" RCP endwall and 1- 24" RCP endwall. The riser structures are a series of two (2) vertical CMP pipes with a 24" RCP connector pipe. The outflow from the basin consists of a 36" CMP, which connects and discharges under Burnside Avenue into Stony Creek (stormwater outfall #62). This outfall has a collection and drainage area of 38.09 acres; so, nearly the entirety of runoff discharging at this outfall passes through the Alexander Drive Basin.

Environmental Results and Scope of Work

The Alexander Drive Basin will be retrofitted as a water quality basin. The proposed project will offer significant water pollution reduction benefits to the Stony Creek watershed. The retrofit basin will improve runoff quality through settling, filtration, uptake, chemical and biological decomposition, volatilization, and adsorption and will be relatively effective at removing sediment pollution plaguing the Stony Creek. Based on modeling completed by the Township stormwater engineer, the proposed project will: reduce sediment load by 18,316.73 lbs/yr – a net increase of 15,263.94 lbs/yr more than the existing condition.

Also, although not typically considered a volume reducing BMP, the proposed new condition will achieve some reduction in the volume of runoff reaching the Stony through infiltration and evapotranspiration. It is estimated approximately 19% of the runoff entering the retrofit facility will be diverted from the municipal storm sewer system.

Proposed Condition



The proposed water-quality basin is part of the Township's Pollutant Reduction Plan strategy for reducing sediment to the Stony Creek. The new basin is expected to "green", i.e. treat, approximately 37.81 acres of tributary area, mostly constituted by residential and institutional uses. The basin will receive overland flow from the immediate surrounding area. In addition to providing water quality benefits to treated runoff, the basins will also provide stormwater volume and peak flow rate control.



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1630 W Marshall Street, Jeffersonville, PA 19403



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Phone: [610-631-0450](tel:610-631-0450) Fax: [610-630-0304](tel:610-630-0304)

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HOW THIS APPLIES

How This Applies in West Norriton Township

Historically, storm water has been piped directly from houses and roads to streams. This influx of water during and after storm events has led to erosion of stream banks and scour of stream bed bottoms, moving sediment (and any potential pollutants in the sediment) into downstream waterways and ponds. This method of storm water management has also led to a reduction in groundwater recharge while causing flooding to downstream neighbors.

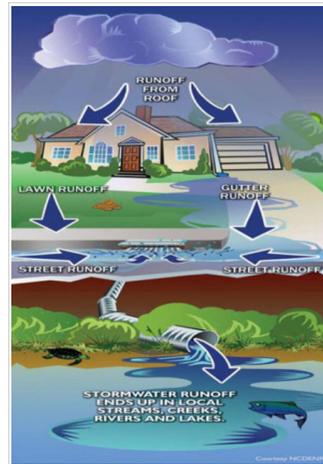


Today, regulations governing storm water management emphasize the infiltration of storm water on-site, if possible. These on-site infiltration beds contribute to groundwater recharge while minimizing downstream flood impacts. These regulations only impact new land developments, however.

How Can You Help With Storm Water Management

You can help manage storm water by volunteering:

1. Participate in a stream or creek cleanup within the township
2. Plant trees along a stream or creek
3. Stencil storm drains with warnings about dumping
4. Organize a neighborhood pollution watch



What Residents can help watch for:

- Dry weather flows from outfall pipes into streams (72 hours after a rain storm)
- Illegal dumping activity into streams or storm sewers (please call 911 first)
- Sediment leaving a construction site in storm water spills (chemicals, gas, oil)

Residents may be the first to recognize illicit discharges dumping into storm sewers or coming out of from storm sewer outfalls. If you see an illicit discharge, please report that to the township by one of the following methods:

- Call 610-631-0450
- [Email for More Information](#)

Additional Information

- [U.S. Environmental Protection Agency](#)
- [Center for Watershed Protection](#)
- [Montgomery County Conservation District](#)
- [Stormwater Discharges from MS4s](#)
- [Stormwater Public Education](#)
- [EPA's Stormwater Tool Box of Education Materials](#)
- [Stormwater Information for Homeowners](#)
- [Stormwater Menu of BMPs](#)
- [PA Department of Environmental Protection](#)
- [PA Department of Environmental Protection Bureau of Watershed Management](#)
- [PA Department of Environmental Protection Website on Storm Water Management](#)
- [PA Department of Environmental Protection Southeast Regional Office](#)
- [Stony Creek Anglers](#)
- [Schuylkill River National and State Heritage Area](#)



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POLLUTANT REDUCTION PLAN

Pollutant Reduction Plan

Stony Creek, Indian Creek and Unnamed Tributaries to Schuylkill River

Purpose and Scope

West Norriton Township is required to develop and implement a Pollutant Reduction Plan (PRP) for Municipal Separate Storm Sewer System (MS4) discharges to Stony Creek, Indian Creek, and unnamed tributaries (UNTs) to the Schuylkill River as part of the 2018 National Pollutant Discharge Elimination System (NPDES) MS4 Individual Permit application to the Pennsylvania Department of Environmental Protection (PA DEP). This plan has been prepared based on the best and most current guidance made available by PA DEP.

Permit Requirements

In order to develop a PRP, it is important to have an understanding of the Township's requirements. West Norriton Township is required by the PA DEP and Environmental Protection Agency (EPA) to reduce sediment pollution from stormwater discharges to surfaces impaired by sediment by ten (10) percent over the five (5) year permit term (March 16, 2018 to March 15, 2023) by implementing projects or Best Management Practices (BMPs).

West Norriton has MS4 discharges or "outfalls" to Stony Creek, Indian Creek, and UNTs to the Schuylkill River, which are listed by the 2014 Pennsylvania Integrated Water Quality Monitoring and Assessment Report (Integrated Report) as impaired for siltation (i.e. sediment).

To review the proposed plan and review the summary document, please visit the links below:

[MS4 Pollutant Reduction Plan Summary \(PDF\)](#)

[Pollutant Reduction Plan prepared by Cedarville Engineering \(PDF\)](#)

Public Presentations on Pollutant Reduction Plan

[July 9, 2019 Presentation by Cedarville Engineering \(PDF\)](#)

[October 5, 2020 Presentation by Cedarville Engineering \(PDF\)](#)

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Single-use plastic bag ban

On November 9, 2022, the West Norriton Township Commissioners passed an ordinance prohibiting retail establishments from providing single-use plastic bags and non-recycled paper bags to their customers beginning on April 22, 2023. Retail establishments may provide customers a recycled paper bag if the bag is provided to the customer for a charge of not less than \$0.15 per bag. These recycled bags must contain a minimum of 40% post-consumer recycled content.

The use of single-use plastic bags has numerous severe environmental impacts, including increasing greenhouse gas emissions. It is estimated that by 2030, plastic production will surpass coal for climate change impact. Plastics also contribute to litter, add to ground level ozone formation, acid deposition, and solid waste generation, as well as harm wildlife. Microplastics can enter the human body through ingestion and inhalation where they may be taken up in various organs and can affect health. The goals of the Commissioners in passing this ordinance are to conserve resources and reduce greenhouse gas emissions, reduce waste, litter, and water pollution, and to protect the public health and welfare.

Enforcement of this ordinance will not occur until 6 months after enactment, to allow establishments to prepare for this change and use up any old inventory of plastic bags.

You can do your part to help the environment by bringing your own reusable bags when you go shopping. West Norriton is also supplying reusable bags. You are invited to stop by the Township Building at 1630 W. Marshall Street.

More information: <https://www.westnorritontwp.org/471/Single-Use-Plastic-Carry-Out-Bag-Ordinan>

THE DOs AND DON'Ts OF TREE LIMB COLLECTION

As a service to the community, tree limb collection takes place the third Tuesday of each month from April through September. Branches must be placed at the curbside for pick-up by 10:00 a.m. on collection day. Only branches and limbs are allowed.



PLEASE NOTE: Tree stumps, vines, Holly bushes, weeds, grass and leaves Will NOT be taken. Tree limbs must not be in plastic bags or tied with metal wire.

Limits: Individual Branches - 6 inches in diameter and 6 feet long; total collection per household limited to two cubic yards (the equivalent of six trash cans). Improperly prepared materials will not be collected including large piles.

The Public Works department appreciates your adherence to the rules.

Why compost?

Richard Cole, Member of the Environmental Advisory Council (EAC)

Most people throw their food scraps into the trash. In fact, about 40% of food is discarded. It's assumed that food that goes into the landfill will biodegrade, which is unfortunately not the case. The process by which organic matter is broken down in landfills creates methane which is a potent greenhouse gas. As an alternative, redirecting waste from landfills will help save room in landfills and create less methane. Additionally, when you compost properly, you're helping create nutrient rich soil by capturing the nutrients from food scraps and returning them to the soil through application to the land. If you want to compost, but not for use in your garden, you can pay for a service that will regularly pick up your compostable items.

Currently, Back to Earth composting is only one such business in our area. Back to Earth provides curbside pickup twice a month for \$20 for residents. Many businesses want to be more sustainable but aren't aware of the compost service. Commercial service requires meeting with businesses to come up with a proposal. For people who do not want a regular pickup service they can bring their compostables to a drop off site for \$5 per 5 gallon bucket. Currently there is a site at Maple Acre Farm in Plymouth Meeting. Twice a month, from 9 to noon, a crew member is present. You can pick up compost for use in your garden a couple of times a year.

Note: Back to Earth is working on having a drop site at the Norristown Farm Park.

Your Tax Dollars at Work

Leaf Collection

As the air turns crisp and trees transform into shades of gold and red, our Public Works Department kicks into high gear to prepare for cleanup.

Leaf pickup may seem like simple upkeep, but there's a lot riding on it. Leaf collection prevents slippery leaves from causing accidents on roadways and keeps debris from backing up storm drains. Yard trimmings, food scraps and other organics make up about 34% of municipal waste landfilled in Pennsylvania. The percentage can vary considerably in different communities due to varying yard sizes and horticultural practices. If you can manage this material in your own yard (compared to having it collected for municipal composting) there are environmental and economic benefits by reducing the cost of collection and transportation. Additionally, the organic material can be used to enrich your lawn and gardens.

As mandated by Act 101 West Norriton Township developed a comprehensive recycling program; a major component of this program is the collection of leaves which are delivered to the leaf composting facility at the Norristown Park. The West Norriton Township Public Works Department collects on average 4,500 cubic yards of leaves from the middle of October to the second week of December each year and advertises this collection schedule on our website. Leaves must be separated from the municipal waste stream per Township Ordinance. Leaves are collected utilizing leaf vacuums. Only Township vehicles are permitted to place leaves at the composting facility.

The leaves are composted using a compost turner and the final product is screened through a rotary tumbler. Most of the final product is used on the farm fields throughout the Norristown Farm Park.

Product Pickup Location

In addition, the final mulch product is also available for pick up by the residents of West Norriton Township at the Bin located behind the Jefferson Fire Company, 85 School Lane. Each resident is responsible to load the mulch themselves.

Leaf collection dates may vary due to weather conditions.

Leaf Collection Guidelines

1. Curbside leaf piles are to be 12 inches high and 18 inches wide.
2. Do not mix limbs, brush, and other debris with leaf piles, as such items may cause damage to collection equipment and injury to township personnel.
3. Adverse weather conditions may cause delays.
4. Township employees and/or equipment are not permitted to enter private property to remove leaves.
5. Once the leaf machine has passed it will not return until items on every street in the township have been collected.
6. **If your residence is located on the corner of the street, please place the leaves to be picked up at least 25 feet from the intersection.**
7. If you live on a private street in the township, we will pick up your leaves, but they must be bagged. Since most of the private streets in the township have narrow widths, we cannot take the leaf machines down those roadways and safely turn the machine around. Once you have the leaves bagged, please call the township office at **610-631-0450** and schedule the pickup.



Annual MS4 Status Report

APPENDIX B

MCM #2 Public Involvement and Participation

1. Public Involvement Documentation



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

P: 610-705-4500 E: info@CedarvilleEng.com

CedarvilleEng.com



1



2

At a Glance
What a Glance



The Township's Program Components

Minimum Control Measures (MCMs)

1. Public Education & Outreach
2. Public Involvement & Participation
3. Illicit Discharge Detection & Elimination
4. Construction Site Stormwater Runoff Control
5. Post Construction Stormwater Management for Development & Redevelopment
6. Pollution Prevention/Good Housekeeping

Pollutant Reduction Plan (PRP)

- Proposed projects to address **sediment** reduction requirements for stream impairments.

Pollutant Control Measures (PCMs)

- Requirements to address **PCB** impairment for discharges to the Schuylkill River.

3

Public Education & Outreach (MCM #1)

2022 Highlights

- ✓ Article in *What's Up! West Norriton* about fall leaf removal
- ✓ Target material to Vehicle-related businesses

2023 Goals

- ✓ Continue Outreach
- ✓ Follow-up with vehicle-related businesses

VEHICLE OPERATIONS
 and
STORMWATER MANAGEMENT

HAVE SPILL KITS READILY AVAILABLE
Keeping absorbent material (Oil Dry, kitty litter, absorbent socks, etc.) and drip pans on hand is key to preventing accidental spills from reaching drains that will eventually discharge to our streams.

STORE HAZARDOUS MATERIALS PROPERLY
Chemicals and other hazardous materials that have the potential to spill and pollute our waterways should be stored properly. Elevate buckets, cans, and bottles off the floor, make sure they are tightly sealed, and are accurately labeled.

PERFORM REGULAR MAINTENANCE
Be sure to perform regular maintenance checks on all vehicles and equipment/machinery to prevent potential drips and spills. Oil and other car fluids contain harmful metals and chemicals that can pollute water.

DO NOT DUMP ANYTHING DOWN A DRAIN
Storm drains and other drains that lead to the storm sewer system discharge directly to our streams. Never dump materials down a drain. This is illegal.

For questions or comments contact West Norriton Township at (610) 651-0450

4

**West Norriton Township
Parks & Recreation Department's**
*Second Annual
Fall
Festival*
October 15th
12 PM - 5 PM
Centennial Park
8 Burnside Ave., Jeffersonville, PA 19403

DYNAH
PERFORMING LIVE!

FOOD TRUCKS - BEER GARDEN
PUMPKIN PATCH - HAYRIDES
SCARECROW MAKING STATION
GAMES - PONY RIDES &
MUCH MUCH MORE!

VENDORS ARE WELCOME!
CALL THE RECREATION DEPARTMENT
FOR MORE INFORMATION!
810-630-1251

2022 Highlights

- ✓ This Meeting!
- ✓ EAC Involvement
- ✓ Fall Festival 10/15/22

2023 Goals

- ✓ Public Meeting
- ✓ Continue EAC Involvement
- ✓ Educational Event

**Public Involvement and
Participation (MCM #2)**

5

Illicit Discharge Detection & Elimination (MCM #3)

Any discharge to a MS4 or surface water that is not
compose entirely of stormwater

2022 Highlights

- ✓ Screened Outfalls in Priority Areas
- ✓ Updated GIS mapping

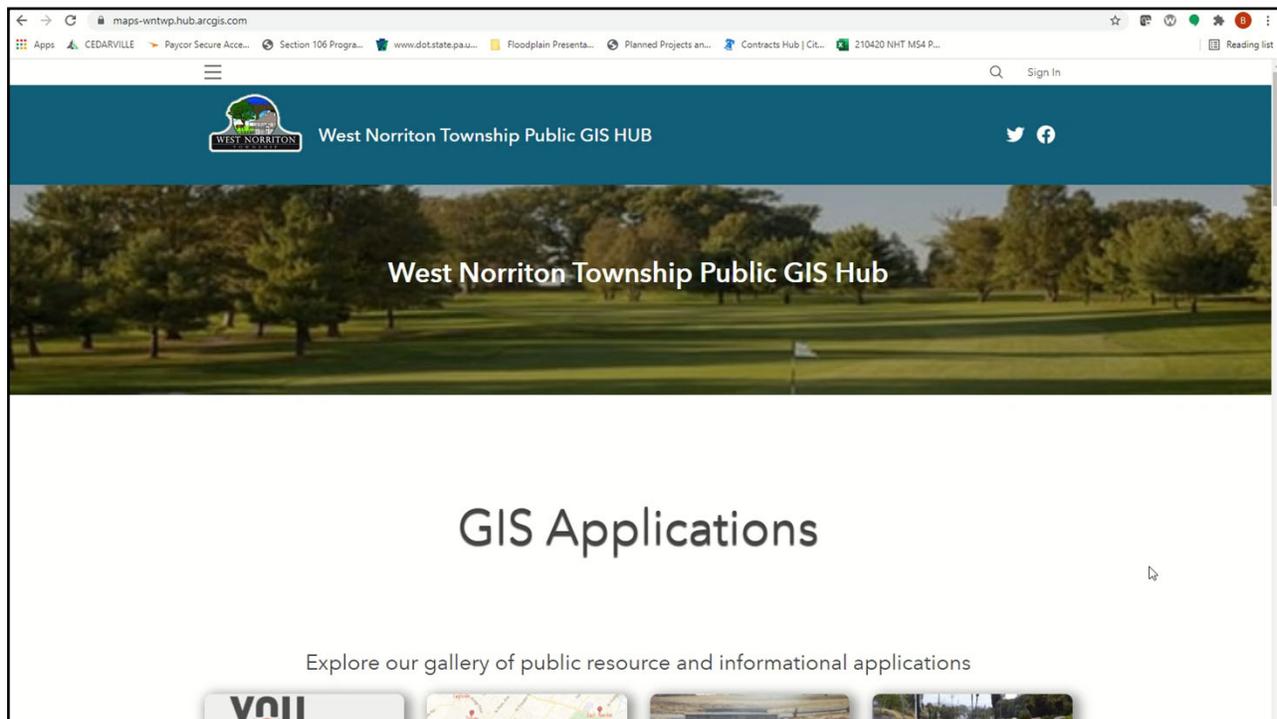
2023 Goals

- ✓ Screen Outfalls in Priority Areas
- ✓ Continue to track illicit discharges

What is a priority area?

- Prone to illicit discharges
- Historically known discharges
- High-risk activities (WWTPs, kennels, etc.)
- Older infrastructure

6



7

Statewide program for issuing **NPDES Permits for Stormwater Discharges Associated with Construction Activities** through DEP, County Conservation District, and Municipality **PARTIALLY SATISFIES** these permit requirements.

Construction Site Runoff Control (MCM #4)

Post Construction Stormwater Management in New and Re-Development (MCM #5)

8

Pollutant Reduction Plan

Required to be implemented by 10/31/2024.

Indian Creek

Stony Creek

UNTs to Schuylkill River

LOWER PROVIDENCE

UPPER MERION

BRIDGE

CEG logo

11

11

Proposed BMPs – Burnside Village Basin Retrofit

✓ Construction completed in 2017.

CEG logo

12

12

Proposed BMPs – Jeffersonville Golf Club Phase I



✓ Construction completed in 2020.



13

13

Proposed BMPs – Alexander Drive Basin Retrofit



✓ Construction completed in Fall 2020.



14

14

Proposed BMPs – Blue Dove Basin Retrofit



- ✓ **2491 General Armistead Ave**
- ✓ **Emergency repair** completed by property owner in 2018.
- ✓ **Outlet structure replaced** in 2020.
- ✓ Verizon pipe inflow **repaired** in 2021.
- ✓ **Water quality** portion of project pending.

15

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Proposed BMPs – Jeffersonville Golf Club Phase II



- ✓ **Stream Restoration**
- ✓ Downstream of the small pond
- ✓ **Feasibility Study** completed in 2019.
- ✓ Centennial Park is an alternative.



16

16





Pollutant Control Measures

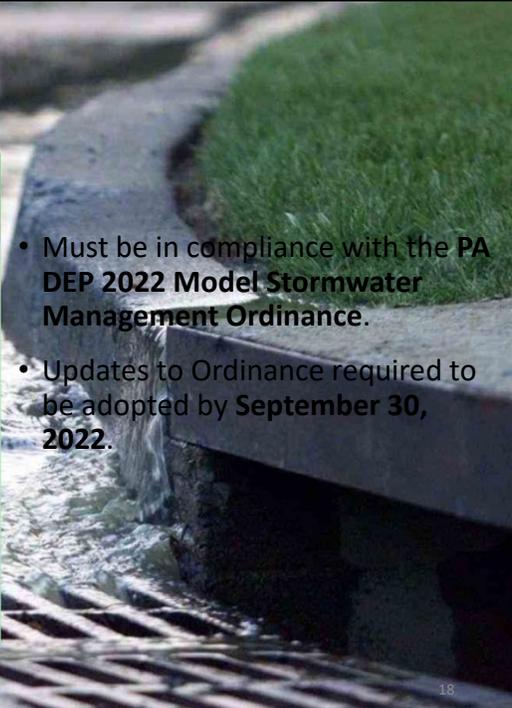
Schuylkill River
(Impaired for PCBs)

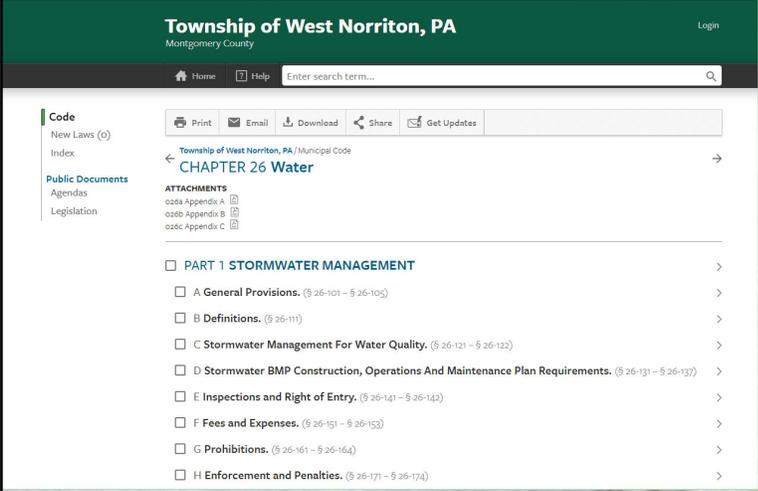
Requirement	Due Date	
Storm Sewershed Map	September 30, 2019	✓
Source Inventory	September 30, 2020	✓
Source Investigation	September 30, 2022	N/A
Document Progress in Annual Reports	Complete	

17

17

Stormwater Ordinance Updates





- Must be in compliance with the PA DEP 2022 Model Stormwater Management Ordinance.
- Updates to Ordinance required to be adopted by September 30, 2022.

18

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What's Next MUDC.2 MS4



- ❖ Adopt Updated Stormwater Ordinance
- ❖ PA DEP Inspection
- ❖ Blue Dove Basin Retrofit Project
- ❖ JGC Phase II Stream Restoration (or Centennial Park) Project
- ❖ New NPDES MS4 Permit

19



QUESTIONS?

Beth Uhler
CEDARVILLE Engineering Group, LLC
buhler@cedarvilleengineering.com
610-705-4500

20

20

Donna Suevo – Chair
Richard Cole
Sue Devenny
Shari Donath
Barb Pollarine
EAC@wntwp.com



Agenda

August 3, 2022

7:00 p.m. West Norriton Township Building

1. Approve July minutes
2. Update on single use plastic bag ban
3. Free trees (Richard)
4. Pollinator garden update and planning
5. Bird town, PA info (Shari)

Next meeting is Wednesday, September 14th at 7:00 PM

Donna Suevo – Chair
Richard Cole
Sue Devenny
Shari Donath
Barb Pollarine
EAC@wntwp.com



Agenda

September 14, 2022

7:00 p.m. West Norriton Township Building

1. Approve August minutes
2. Pollinator garden – finalize planting
3. Update on single use plastic bag ban
4. Ready for 100 – update on where we are with this initiative
5. Free Trees update
6. West Norriton Fall Festival – October 15th from noon to 5:00
7. Next meeting – Wednesday, October 5th or 12th at 7:00 PM

Donna Suevo – Chair
Richard Cole
Sue Devenny
Shari Donath
Barb Pollarine
EAC@wntwp.com



Agenda

October 5, 2022

7:00 p.m. West Norriton Township Building

1. Approve September minutes
2. Pollinator garden – update; what else needs to happen
3. Grant application for funding for another pollinator garden
4. Update on single use plastic bag ban
5. Ready for 100 – update on where we are with this initiative
6. Free Trees update
7. West Norriton Fall Festival – October 15th from noon to 5:00 at Centennial Park
 - a. Need volunteers to staff table
 - b. What to have at table
8. Next meeting – Wednesday, November 2nd at 7:00 PM

Donna Suevo – Chair

Richard Cole

Sue Devenny

Shari Donath

Barb Pollarine

EAC@wntwp.com



Agenda

November 2, 2022

7:00 p.m. West Norriton Township Building

1. Approve October minutes
2. Pollinator garden – update; what else needs to happen
3. Update on single use plastic bag ban
4. Composting
5. Free Trees update
6. West Norriton Fall Festival debrief
7. Next meeting – Wednesday, February 1st at 7:00 PM; no meetings in December and January

Donna Suevo – Chair

Richard Cole

Sue Devenny

Shari Donath

Barb Pollarine

EAC@wntwp.com



Agenda

February 8, 2023

7:00 p.m. West Norriton Township Building

1. Approve November minutes
2. Plastic bag ban support
3. Discuss priorities for 2023
 - a. Composting
 - b. Stormwater
 - c. Dog park
 - d. Joint activity with Lower Providence EAC
 - e. Joint activity with Audubon
 - f. Periodic updates (mailers) to residents for latest WN happenings
Voluntary restaurant waste reduction program
Speaker listening session on community choice aggregation
 - g. Additional ideas
4. Pollinator garden – what else needs to happen
 - a. Sign for garden
 - b. Signage for plants
5. Free Trees update
6. Next meeting – Wednesday, March 1st at 7:00 PM

Donna Suevo – Chair
Richard Cole
Sue Devenny
Shari Donath
Barb Pollarine
EAC@wntwp.com



Agenda

March 1, 2023

7:00 p.m. West Norriton Township Building

1. Approve November and February minutes
2. Plastic bag ban support
3. Stream cleanup for Earth Day – joint activity with Norristown
4. Restaurant waste reduction,
5. Composting and
6. PFAS
7. Pollinator garden
 - a. Sign for garden
 - b. Signage for plants
8. Conshohocken EAC (Green Conshy) is hosting its first annual GreenFest on Saturday April 22, 2023, 10am - 2pm at the Conshohocken Fellowship House/Community Center and Mary Wood Park. They invited WNEAC to participate in any way we see fit (info table, demonstration, environmental education project, etc.).
9. Next meeting – Wednesday, April 12th at 7:00 PM since April 5th is Passover

Donna Suevo – Chair
Richard Cole
Sue Devenny
Shari Donath
Barb Pollarine
EAC@wntwp.com



Agenda

April 12, 2023

7:00 p.m. West Norriton Township Building

1. Approve March minutes
2. Plastic bag ban support
3. Earth Day activities
 - a. Conshohocken EAC (Green Conshy) is hosting its first annual GreenFest on Saturday April 22, 2023, 10am - 2pm at the Conshohocken Fellowship House/Community Center and Mary Wood Park.
 - i. Who is going?
 - ii. What do we need for this event?
 - b. Stream cleanup for Earth Day – joint activity with Norristown
 - i. Update – is this event still happening?
 - ii. Who is going?
 - iii. What do we need to do?
4. Montgomery County Planning Commission meeting on April 17th to discuss natural resources, parks, trails, and open space for the comp plan – WNEAC participation.
5. Restaurant waste reduction
6. Pollinator garden
 - a. Sign for garden
 - b. Signage for plants
7. Next meeting – Wednesday, May 3rd at 7:00 PM

Donna Suevo – Chair

Richard Cole

Sue Devenny

Shari Donath

Barb Pollarine

EAC@wntwp.com



Agenda

June 7, 2023

7:00 p.m. West Norriton Township Building

1. Approve May minutes
2. Bird Town representative
3. Joe Webster's Riparian Buffer Initiative
4. Plastic bag ban support
5. Restaurant waste reduction
6. Pollinator garden
 - a. Signage for plants
7. Educating the public about the Inflation Reduction Act
 - a. IRA/PA Whole-home Repair Act/Solarize SE PA
8. Fall EAC conference at West Chester
9. Next meeting – Wednesday, August 2nd at 7:00 PM; no meeting on July 5th



West Norriton Township
Regular Meeting
November 9, 2022
7:00 PM

1. Call To Order And Pledge Of Allegiance

2. Presentation By Montgomery County Planning Commission - Bike Lane On Burnside Avenue

Documents:

MEMO - MCPC BIKE FRIENDLY RESURFACING PROGRAM.PDF

3. Approval Of Minutes

- October 4, 2022 - Work Session; and
- October 11, 2022 - Board of Commissioners' Meeting

4. Report Of Bills - Donna Horn

Documents:

FINANCE - OCT 2022.PDF

5. Department Reports

a. Administration & Finance - Jason Bobst

b. Public Safety - Chief Michael Kelly

Documents:

POLICE - OCT 2022.PDF

c. Public Works & Planning - Michael Valyo

Documents:

PUBLIC WORKS - OCT 2022.PDF

d. Building & Permitting - Allan Booz

Documents:

BUILDING-PLUMBING - OCT 2022.PDF

e. Parks & Recreation - Jonathan Dzedzy

Documents:

RECREATION - OCT 2022.PDF

f. Jeffersonville Golf Club - Jason Bobst

Documents:

GOLF - OCT 2022.PDF

g. Engineering

g.1. Sewer Engineer - T.J. Figaniak

Documents:

SEWER - OCT 2022.PDF

g.2. Township Engineer - Erik Garton/Ed Brown

Documents:

ENGINEER - OCT 2022.PDF

6. Commissioners Comments

7. Public Comment

- Recognize individuals that are taxpayers or residents of West Norriton Township wishing to offer comment.
 - Require the name and address of such persons wishing to comment.
 - Permit each individual at minimum one (1) opportunity to speak. The President may require an individual who has already spoken to wait until all others wishing to speak have had the opportunity before permitting an additional opportunity to speak. Once all others have had the opportunity to speak, the President shall determine whether time would allow for additional comment from the individual wishing to speak. Such a determination shall be based solely on the factor of time and shall not be based on the content or viewpoint of the particular individual(s) seeking additional opportunity to speak.
 - Provide for a three (3) minute maximum for each individual to offer public comment **specifically related to agenda items only**. There shall be no ceding or assigning of time. In no case shall a time limit of fewer than two (2) minutes be designated. It may be requested that a spokesperson from a group address the Board of Commissioners.
 - Preserve order by prohibiting disruptive conduct including, but not limited to, speaking by any person who is not, at that time, taking part in public comment.
- To submit written Public Comment to the Board, please [CLICK HERE](#)

8. Discussion Items

9. New Business

a. Motion To Adopt Ordinance No. 2022-756 Updating Stormwater Management

Documents:

ORDINANCE - STORMWATER UPDATE.PDF

b. Motion To Adopt Ordinance No. 2022-757 Regulating The Distribution And Use Of Single-Use Bags

Documents:

ORDINANCE - SINGLE USE BAG.PDF

c. Motion To Authorize Staff To Advertise Ordinance No. 2022-758 Amending DROP Eligibility

Documents:

ORDINANCE - AMENDING DROP.PDF

d. Motion To Authorize Staff To Advertise Ordinance No. 2022-759 Amending Chapter 7, Part 3 To Provide For Bi-Annual Safety Inspections

Documents:

ORDINANCE - REGISTRATION AND BIENNIAL PROPERTY INSPECTIONS.PDF

e. Motion To Authorize Staff To Advertise Ordinance No. 2022-760 Approving Addition Of Fees And Costs To Unpaid Municipal Claims For Delinquent Accounts

Documents:

ORDINANCE - APPOINTING SOLICITOR, INTEREST AND FEES TO MUNICIPAL CLAIMS FOR DELINQUENT ACCOUNTS.PDF

f. Motion To Authorize Execution Of DUI Grant Resolution

Documents:

RESOLUTION - DUI GRANT 2023.PDF

g. Motion To Authorize Staff To Advertise Proposed 2023 Budgets

10. Schedule Of Meetings

- Environmental Advisory Council (EAC) - December 7th @ 7:00 PM
- West Norriton Academy - November 16th @ 6:30 PM (Public Works)
- Recreation Committee - November 16th @ 7:00 PM
- Zoning Hearing Board - None
- Planning Commission - November 21st @ 7:00 PM
- Human Relations Commission (HRC) - December 15th @ 7:00 PM

11. Adjournment

WWW.WESTNORRITONTWP.ORG

CEG's stormwater booth at the West Norriton Fall Festival 10/15/2022



**WEST NORRITON TOWNSHIP
MONTGOMERY COUNTY, PENNSYLVANIA**

ORDINANCE NO. 2022-756

**AN ORDINANCE OF WEST NORRITON TOWNSHIP, MONTGOMERY COUNTY,
PENNSYLVANIA, AMENDING CHAPTER 26 OF THE TOWNSHIP CODE, WATER,
IN ITS ENTIRETY TO RENAME THE CHAPTER AS “STORMWATER
MANAGEMENT” AND TO ENSURE MUNICIPAL SEPARATE STORM SEWER
SYSTEM COMPLIANCE WITH THE PENNSYLVANIA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

WHEREAS, the Pennsylvania First Class Township Code authorizes the Board of Commissioners of West Norriton Township to make, amend, and adopt ordinances that are consistent with the constitution and laws of the Commonwealth when necessary for the proper management, care, and control of the Township and the maintenance of peace, good government, health and welfare of the West Norriton Township (“Township”) and its citizens;

WHEREAS, the West Norriton Township Code provides for stormwater management requirements for projects and developments in the Township to, in part, better control stormwater runoff in the Township, minimize accelerated erosion and loss of natural infiltration, and to ensure compliance with all commonwealth and federal agencies;

WHEREAS, The West Norriton Township Board of Commissioners desires to ensure that Chapter 26 complies with all revised Municipal Separate Storm Sewer System requirements from the Pennsylvania Department of Environmental Protection;

WHEREAS, at a duly advertised meeting of the Township Board of Commissioners, it has been determined that the health, safety, and welfare of the present and future citizens of the Township and the proper management, preservation, care, protection, and control of the Township are addressed by amending Chapter 26 in the manner set forth below;

- I. Code Amendment. Chapter 26, Water, of the Township Code shall be renamed “Stormwater Management” and amended in its entirety to provide as follows:**

STORMWATER MANAGEMENT

PART I – GENERAL PROVISIONS

Section 101. Short Title

This chapter shall be known as the “West Norriton Township Stormwater Management Ordinance.”

Section 102. Statement of Findings

The Governing Body of the Municipality finds that:

- A. Inadequate management of accelerated stormwater runoff resulting from land disturbance and development throughout a watershed increases flooding, flows and velocities, contributes to erosion and sedimentation, overtaxes the capacity of streams and storm sewers, greatly increases the cost of public facilities to convey and manage stormwater, undermines floodplain management and flood reduction efforts in upstream and downstream communities, reduces infiltration and groundwater recharge, increases nonpoint source pollution to waterways, and threatens public health and safety.
- B. Inadequate planning and management of stormwater runoff resulting from land disturbance and development throughout a watershed can harm surface water resources by changing the natural hydrologic patterns, accelerating stream flows (which increase scour and erosion of stream beds and stream banks, thereby elevating sedimentation), destroying aquatic habitat, and elevating aquatic pollutant concentrations and loadings such as sediments, nutrients, heavy metals, and pathogens. Groundwater resources are also impacted through loss of recharge.
- C. A comprehensive program of stormwater management, including minimization of impacts of New Development, Redevelopment, and other Earth Disturbance Activities causing accelerated runoff and erosion and loss of natural infiltration, is fundamental to the public health, safety, and general welfare of the people of the Municipality and all of the people of the Commonwealth, their resources, and the environment.
- D. Stormwater is an important water resource that provides infiltration and groundwater recharge for water supplies and baseflow of streams, which also protects and maintains surface water quality.
- E. Impacts from stormwater runoff can be minimized by reducing the volume of stormwater generated and by using project designs that maintain the natural hydrologic regime and sustain high water quality, infiltration, stream baseflow, and aquatic ecosystems. Cost-effective and environmentally sensitive stormwater management can be achieved through the use of nonstructural Site design techniques that minimize Impervious Surfaces, reduce disturbance of land and natural resources, avoid sensitive areas (i.e., riparian buffers, floodplains, steep slopes, wetlands, etc.), and consider topography and soils to maintain the natural hydrologic regime.
- F. Public education on the control of pollution from stormwater is an essential component in successfully addressing stormwater.
- G. Federal and State regulations require the Municipality to implement a program of stormwater controls. The Municipality is required to obtain a permit and comply with its provisions for stormwater discharges from its Separate Storm Sewer System under the National Pollutant Discharge Elimination System (NPDES).

- H. Non-stormwater discharges to municipal or other storm sewer systems can contribute to pollution of the Waters of the Commonwealth.
- I. The use of green infrastructure, low impact development (LID), and Conservation Design (CD) are intended to address the root cause of water quality impairment by using systems and practices which use or mimic natural processes to: 1) infiltrate and recharge, 2) evapotranspire, and/or 3) harvest and use precipitation near where it falls to earth. Green infrastructure practices, LID, and CD contribute to the restoration or maintenance of pre-development hydrology.

Section 103. Purpose

The purpose of this chapter is to protect public health, safety and general welfare, property, and water quality by implementing drainage and stormwater management practices, criteria, and provisions included herein for land development, construction, and Earth Disturbance Activities, to achieve the following throughout the Municipality:

- A. Reduce the frequency and magnitude of flooding and stormwater impacts affecting people, property, infrastructure, and public services.
- B. Sustain or improve the natural hydrologic characteristics and water quality of groundwater and surface waters.
- C. Protect natural resources, including riparian and aquatic living resources and habitats.
- D. Maintain the natural hydrologic regime of Land Development Sites and their receiving watersheds.
- E. Minimize land disturbance and protect and incorporate natural hydrologic features, drainage patterns, infiltration, and flow conditions within land development Site designs.
- F. Reduce and minimize the volume of stormwater generated and manage and release stormwater as close to the source of runoff as possible.
- G. Provide infiltration and maintain natural groundwater recharge to protect groundwater supplies and stream baseflows, prevent degradation of surface water and groundwater quality, and to otherwise protect water resources.
- H. Reduce stormwater pollutant loads to protect and improve the chemical, physical, and biological quality of ground and surface waters.
- I. Reduce scour, erosion, and sedimentation of stream channels.

- J. Reduce flooding impacts and preserve and restore the natural flood-carrying capacity of streams and their floodplains.
- K. Protect adjacent and downgradient lands from adverse impacts of direct stormwater discharges.
- L. Minimize Impervious Surfaces and connected Impervious Surfaces to promote infiltration and reduce the volume and impacts of stormwater runoff.
- M. Provide proper long-term operation and maintenance of all permanent stormwater management facilities, BMPs and Conveyances that are implemented within the Municipality.
- N. Reduce the impacts of runoff from existing developed land undergoing Redevelopment while encouraging New Development and Redevelopment in urban areas and areas designated for growth.
- O. Implement an illicit discharge detection and elimination program that addresses non-stormwater discharges.
- P. Provide stormwater management performance standards and design criteria on a watershed basis.
- Q. Provide standards to meet certain NPDES stormwater permit requirements.
- R. Meet legal water quality requirements under State law, including regulations at 25 PA Code Chapter 93, to protect, maintain, reclaim, and restore the existing and designated uses of the Waters of the Commonwealth.
- S. Implement the requirements of Total Maximum Daily Load (TMDLs) where applicable to waters within or impacted by the Municipality.

Provide review procedures and performance standards for stormwater planning and management.

- T. Fulfill the purpose and requirements of PA Act 167 (PA Act 167, Section 3):

“(1) Encourage planning and management of storm water runoff in each watershed which is consistent with sound water and land use practices.

(2) Authorize a comprehensive program of stormwater management designated to preserve and restore the flood carrying capacity of Commonwealth streams; to preserve to the maximum extent practicable natural storm water runoff regimes and natural course, current and cross-section of water of the Commonwealth; and to protect and conserve ground waters and ground-water recharge areas.

(3) Encourage local administration and management of storm water consistent with the Commonwealth's duty as trustee of natural resources and the people's constitutional right to the preservation of natural, economic, scenic, aesthetic, recreational and historic values of the environment."

Section 104. Statutory Authority

The Municipality is empowered or required to regulate land use activities that affect runoff and surface and groundwater quality and quantity by the authority of:

- A. Act of October 4, 1978, P.L. 864 (Act 167) 32 P.S., Section 680.1 et seq., as amended, the "Storm Water Management Act" (hereinafter referred to as "the Act");
- B. First Class Township Code, 53 P.S. Section 55101, et seq.;
- C. Act of July 31, 1968, P.L. 805, No. 247, 53 P.S. Section 10101, et seq., as amended, the Pennsylvania Municipalities Planning Code, Act 247 hereinafter referred to as the "MPC").

Section 105. Applicability

- A. The following activities are regulated by this chapter:
 - 1. All Regulated Activities as defined in this chapter including, but not limited to, New Development, Redevelopment, and Earth Disturbance Activities that are located within the Municipality shall be subject to regulation by this chapter.
 - 2. Specific provisions from the Stony Creek/Saw Mill Run Act 167 Stormwater Management Plan dated June 1, 1991, as referenced in Section 308.H.
 - 3. When a building and/or grading permit is required for any Regulated Activity on an existing parcel or approved lot created by a subdivision and/or improved as a land development project, issuance of the permit shall be conditioned upon adherence to the terms of this chapter.
 - 4. This chapter contains the stormwater management performance standards and design criteria that are necessary from a watershed-based perspective. The Municipality's stormwater management Conveyance and system design criteria (e.g., inlet spacing, inlet type, collection system design and details, outlet structure design, etc.) shall continue to be regulated by the applicable municipal ordinance(s) and applicable State regulations or as included in Section 311 of this chapter.
- B. Duty of Persons Engaged in a Regulated Activity

Notwithstanding any provision(s) of this chapter, including exemptions, any Landowner or any person engaged in a Regulated Activity, including but not limited to the alteration or

development of land, which may affect stormwater runoff characteristics, shall implement such measures as are reasonably necessary to prevent injury to health, safety, or other property. Such measures also shall include actions as are required to manage the rate, volume, direction, and quality of resulting stormwater runoff in a manner which otherwise adequately protects health, property, and water quality of Waters of the Commonwealth.

C. Phased and Incremental Project Requirements

1. Any Regulated Activity (including but not limited to New Development, Redevelopment, or Earth Disturbance) that is to take place incrementally or in phases, or occurs in sequential projects on the same parcel or property, shall be subject to regulation by this chapter if the Regulated Impervious Surface or Earth Disturbance exceeds the corresponding threshold for exemption (as presented in Table 106.1 "Thresholds for Regulated Activities that are Exempt from the Provisions of this chapter as Listed Below").
2. The starting point from which to consider tracts as parent tracts relative to future subdivisions, and from which Impervious Surface and Earth Disturbance computations shall be cumulatively considered from July 13, 2004.

For example:

If, after adoption of this chapter, an Applicant proposes construction of a six hundred (600) square foot garage, that project would be exempt from the requirements of this chapter as noted in Table 106.1. If, at a later date, an Applicant proposes to construct a nine hundred (900) square foot room addition on the same property, the Applicant would then be required to implement the stormwater management and plan submission requirements of this chapter for the cumulative total of one thousand five hundred (1,500) square feet of additional Impervious Surface added to the property since adoption of this chapter.

Section 106. Exemptions and Modified Requirements

A. Requirements for Exempt Activities

1. An exemption from any requirement of this chapter shall not relieve the Applicant from implementing all other applicable requirements of this chapter or from implementing such measures as are necessary to protect public health, safety, and welfare, property, and water quality.
2. An exemption shall not relieve the Applicant from complying with the requirements for State-designated special protection waters designated by PADEP as high quality (HQ) or exceptional value (EV) waters, or any other current or future State or municipal water quality protection requirements.

3. An exemption under this chapter shall not relieve the Applicant from complying with all other applicable municipal ordinances or regulations.

B. General Exemptions

Regulated Activities that: 1) Involve less than one thousand (1,000) square feet of Regulated Impervious Surfaces AND less than five thousand (5,000) square feet of Earth Disturbance; or 2) Are listed in Subsection 106.C, are exempt from those (and only those) requirements of this chapter that are included in the sections and parts listed in Table 106.1. Exemptions are for the items noted in Table 106.1 only and shall not relieve the Landowner from other applicable requirements of this Ordinance. Exemption shall not relieve the Applicant from implementing such measures as are necessary to protect health, safety, and welfare, property, and water quality.

TABLE 106.1
Thresholds for Regulated Activities that are Exempt from the Provisions of this Chapter as
Listed Below (see Notes below)

Chapter Part/Section	Activities Listed in Subsection 106.C.	< 1,000 sq. ft. of Regulated Impervious Surfaces AND < 5,000 sq. ft. of Proposed Earth Disturbance	≥ 1,000 sq. ft. of Regulated Impervious Surfaces OR ≥ 5,000 sq. ft. of Proposed Earth Disturbance
Part I, General Provisions	Not Exempt	Not Exempt	Not Exempt
Part II, Definitions	Not Exempt	Not Exempt	Not Exempt
Part III, Stormwater Management Standards, Sections 302, and 303, 311	Not Exempt	Not Exempt	Not Exempt
Part III, Stormwater Management Standards, Sections 301, 304, 305, 306, 307, 308, 309, and 310	Exempt	Exempt	Not Exempt
Part IV, Stormwater Management (SWM) Site Plan Requirements	Exempt	Exempt	Not Exempt
Part V, Performance and Inspection of Regulated Activities, and Final As-Built Plans	Exempt	Exempt	Not Exempt
Part VI, Fees and Expenses	Exempt	Exempt	Not Exempt
Part VII, Operation and Maintenance (O&M) Responsibilities and Easements	Exempt	Exempt	Not Exempt
Part VIII,	Not Exempt	Not Exempt	Not Exempt

Prohibitions			
Part IX, Enforcement and Penalties	Not Exempt	Not Exempt	Not Exempt
Other Erosion, Sediment and Pollution Control Requirements	Must comply with Title 25, Chapter 102 of the PA Code and other applicable State and municipal codes, including the Clean Streams Law.		

Table 106.1 Notes:

- **Specific activities listed in Subsection 106.C are exempt from the indicated requirements, regardless of size.**
- **A proposed Regulated Activity must be less than BOTH the Regulated Impervious Surfaces and proposed Earth Disturbance thresholds to be eligible for exemption from the requirements listed in this table.**
- **“Regulated Impervious Surface” - as defined in this chapter.**
- **“Exempt” – Regulated Activities are exempt from the requirements of listed section(s) only; all other provisions of this chapter apply. These exemptions have no bearing on other municipal regulations or ordinances.**

C. Exemptions for Specific Activities

The following specific Regulated Activities are exempt from the requirements of Sections 301, 304, 305, 306, 307, 308, 309, and 310, and Part IV, Part V, Part VI, and Part VII) of this chapter (as shown in Table 106.1), unless otherwise noted below. All other conveyance and system design standards established by the Municipality in other codes or ordinances shall be required, and all other provisions of this chapter shall apply.

1. **Emergency Exemption - Emergency maintenance work performed for the protection of public health, safety, and welfare. This exemption is limited to repair of the existing Stormwater Management Facility; upgrades, additions or other improvements are not exempt. A written description of the scope and extent of any emergency work performed shall be submitted to the Municipality within two (2) calendar days of the commencement of the activity. A detailed plan shall be submitted no later than thirty (30) days following commencement of the activity. If the Municipality finds that the work is not an emergency, then the work shall cease immediately, and the requirements of this chapter shall be addressed as applicable.**
2. **Maintenance - Any maintenance to an existing Stormwater Management Facility, BMP or Conveyance made in accordance with plans and specifications approved by the Municipal Engineer or Municipality.**
3. **Existing Landscaping - Use of land for maintenance, replacement, or enhancement of existing landscaping.**

4. Gardening - Use of land for gardening for home consumption.
5. Agricultural Related Activities –
 - a. Agricultural Activities (as defined in Part II), when performed in accordance with the requirements of 25 PA Code Chapter 102.
 - b. Conservation Practices (as defined in Part II) that do not involve construction of any new or expanded Impervious Surfaces.
 - c. High Tunnel if:
 - i. The High Tunnel or its flooring does not result in an impervious surface exceeding 25% of all structures located on the Landowner's total contiguous land area; and
 - ii. The High Tunnel meets one of the following:
 1. The High Tunnel is located at least 100 feet from any perennial stream or watercourse, public road, or neighboring property line.
 2. The High Tunnel is located at least 35 feet from any perennial stream or watercourse, public road or neighboring property line and located on land with a slope not greater than 7%.
 3. The High Tunnel is supported with a buffer or diversion system that does not directly drain into a stream or other watercourse by managing stormwater runoff in a manner consistent with the requirements of Pennsylvania Act 167.
6. Forest Management - Forest management operations, which are consistent with a sound forest management plan as filed with the Municipality and which comply with the Pennsylvania Department of Environmental Protection's management practices contained in its publication "Soil Erosion and Sedimentation Control Guidelines for Forestry" (as amended or replaced by subsequent guidance). Such operations are required to have an Erosion and Sedimentation Control Plan, which meets the requirements of 25 PA Code Chapter 102 and meets the erosion and sediment control standards of Section 303 of this chapter.
7. Maintenance of Existing Gravel and Paved Surfaces - Replacement of existing gravel and paved surfaces shall meet the erosion and sediment control requirements of 25 PA Code Chapter 102 and Section 303 of this chapter and is exempt from all other requirements of this chapter listed in Subsection 106.C above. Resurfacing of existing gravel and paved surfaces is exempt from the requirements of this chapter listed above. Paving of existing gravel surfaces is exempt from the requirements of this chapter listed above. Construction of new or additional Impervious Surfaces shall comply with all requirements of this chapter as indicated in Table 106.1.
8. Municipal Roadway Shoulder Improvements - Shoulder improvements conducted within the existing roadway cross-section of municipal owned roadways, unless an-NPDES

permit is required, in which case the proposed work must comply with all requirements of this chapter.

9. In-Place Replacement of Residential Dwelling Unit - The replacement in the exact footprint of an existing one- or two-family dwelling unit.
 10. In-Place Replacement, Repair, or Maintenance of Residential Impervious Surfaces - The replacement of existing residential patios, decks, driveways, pools, garages, and/or sidewalks that are accessory to an existing one- or two-family dwelling unit in the exact footprint of the existing Impervious Surface.
- D. Modified Requirements for Small Projects. Regulated Activities that involve 1,000 to 2,000 square feet of Regulated Impervious Surfaces and 5,000 to 10,000 square feet of propose Earth Disturbance may apply the modified requirements presented in the “Simplified Approach to Stormwater Management for Small Projects” (Simplified Approach) (Appendix A) to comply with the requirements of Sections 301, 304, 305, 306, 307, 308, 309, and 310, and Part IV, Part V, Part VI and Part VII of this chapter (as shown in Table 106.2). The Applicant shall first contact the Municipal Engineer: to confirm that the proposed project is eligible for use of the Simplified Approach and is not otherwise exempt from these chapter provisions; to determine what components of the proposed project are to be considered as Impervious Surfaces; and to determine if other known Site or local conditions exist that may preclude the use of any techniques included in the Simplified Approach. Appendix A includes instructions and procedures for preparation, submittal, review, and approval of documents required when using the Simplified Approach and shall be adhered to by the Applicant. Infiltration testing for projects using the Simplified Approach is recommended but is not required by this chapter. All other provisions of this chapter shall apply.

TABLE 106.2
Thresholds for Regulated Activities that are Eligible for “Modified” Requirements for the Provisions of this Ordinance that are Listed Below

Chapter Part/Section	Activities Listed in Subsection 106.D
Part I, General Provisions	All Provisions Apply
Part II, Definitions	All Provisions Apply
Part III, Stormwater Management Standards, Sections 302, and 303, 311	All Provisions Apply
Part III, Stormwater Management Standards, Sections 301, 304, 305, 306, 307, 308, 309, and 310	Exempt if Modified Requirements of Subsection 106.D is Applied
Part IV, Stormwater Management (SWM) Site Plan Requirements	Exempt if Modified Requirements of Subsection 106.D is Applied
Part V, Performance and Inspection of Regulated Activities, and Final As-Built Plans	Exempt if Modified Requirements of Subsection 106.D is Applied
Part VI, Fees and Expenses	Exempt if Modified Requirements of Subsection 106.D is Applied
Part VII, Operation and Maintenance (O&M) Responsibilities and Easements	Exempt if Modified Requirements of Subsection 106.D is Applied
Part VIII, Prohibitions	All Provisions Apply
Part IX, Enforcement and Penalties	All Provisions Apply
Other Erosion, Sediment and Pollution Control Requirements	Must comply with Title 25, Chapter 102 of the PA Code and other applicable State and municipal codes, including the Clean Streams Law.

Table 106.2 Notes:

- “Modified Requirements” – Regulated Activities listed within the Subsections of this chapter noted in Table 106.2 are eligible for exemption only from the indicated sections and subsections of this chapter and only if the modified requirements of Subsection 106.D are met to the satisfaction of the Municipality; all other provisions of this chapter apply.

Section 107. Repealer

Any ordinance or ordinance provision of the Municipality inconsistent with any of the provisions of this chapter are hereby repealed to the extent of the inconsistency only.

Section 108. Severability

If any sentence, clause, section, or part of this chapter is for any reason found to be unconstitutional, illegal, or invalid, such unconstitutionality, illegality or invalidity shall not affect or impair any of the remaining provisions, sentences, clauses, sections, or parts of this chapter. It is hereby declared the intent of the Governing Body of the Municipality that this chapter would have been adopted had such unconstitutional, illegal, or invalid provision, sentence, clause, section, or part thereof not been included herein.

Section 109. Compatibility with Other Ordinances or Legal Requirements

- A. Approvals issued and actions taken pursuant to this chapter do not relieve the Applicant of the responsibility to secure and comply with other required permits or approvals for activities regulated by any other applicable code, rule, act, law, regulation, or ordinance.
- B. To the extent that this chapter imposes more rigorous or stringent requirements for stormwater management than any other code, rule, act, law, regulation or ordinance, the specific requirements contained in this chapter shall take precedence.
- C. Nothing in this chapter shall be construed to affect any of the Municipality's requirements regarding stormwater matters that do not conflict with the provisions of this chapter, such as local stormwater management design criteria (e.g., inlet spacing, inlet type, collection system design and details, outlet structure design, etc.). The requirements of this chapter shall supersede any conflicting requirements in other municipal ordinances or regulations.

Section 110. Financial Security

For all activities requiring submittal of a Stormwater Management (SWM) Site Plan that involve subdivision or land development, the Applicant shall post financial security to the Municipality for the timely installation and proper construction of all stormwater management facilities as required by the approved SWM Site Plan and this chapter, and such financial security shall:

- A. Be equal to or greater than the full construction cost of the required facilities except to the extent that financial security for the cost of any of such improvements is required to be and is posted with the Pennsylvania Department of Transportation in connection with a highway occupancy permit application; and

- B. Be determined, collected, applied, and enforced in accordance with Sections 509-511 of the MPC and the provisions of the Municipality's Subdivision and Land Development Ordinance (SALDO), Chapter 22 of the Municipal Code.

Section 111. Waivers

A. General

The requirements of this chapter are essential and shall be strictly adhered to. For any Regulated Activity where, after a close evaluation of alternative Site designs, it proves to be impracticable to meet any one or more of the mandatory minimum standards of this chapter on the Site, the Municipality may approve measures other than those in this chapter, subject to Subsections 111.B and 111.C.

- B. The Governing Body shall have the authority to waive or modify the requirements of one or more provisions of this chapter if the literal enforcement will exact undue hardship because of peculiar conditions pertaining to the land in question, provided that such modification will not be contrary to the public interest and that the purpose and intent of the chapter is observed. Cost or financial burden shall not be considered a hardship. Modification may also be considered if an alternative standard or approach can be demonstrated to provide equal or better achievement of the results intended by the chapter. A request for modification shall be in writing and accompany the SWM Site Plan submission. The request shall state in full the grounds and facts on which the request is based, the provision or provisions of the chapter involved and the minimum modification necessary.

C. PADEP Approval Required

No waiver or modification of any regulated stormwater activity involving Earth Disturbance greater than or equal to one (1) acre may be granted by the Municipality unless that action is approved in advance by PADEP or the Montgomery County Conservation District.

Section 112. Erroneous Permit

Any permit or authorization issued or approved based on false, misleading, or erroneous information provided by an Applicant is void without the necessity of any proceedings for revocation. Any work undertaken or use established pursuant to such permit or other authorization is unlawful. No action may be taken by a board, agency, or employee of the Municipality purporting to validate such a violation.

PART II – DEFINITIONS

Section 201. Interpretation

For the purposes of this chapter, certain terms and words used herein shall be interpreted as follows:

- A. Words used in the present tense include the future tense; the singular number includes the plural, and the plural number includes the singular; words of masculine gender include feminine or nonbinary gender; and words of feminine gender include masculine or nonbinary gender.
- B. The word “includes” or “including” shall not limit the term to the specific example but is intended to extend its meaning to all other instances of like kind and character.
- C. The word “person” includes an individual, partnership, public or private association or corporation, firm, trust, estate, municipality, governmental unit, public utility, or any other legal entity whatsoever which is recognized by law as the subject of rights and duties. Whenever used in any section prescribing or imposing a penalty, the term “person” shall include the members of a partnership, the officers, members, servants and agents of an association, officers, agents and servants of a corporation, and the officers of a municipality.
- D. The words “shall” and “must” are mandatory; the words “may” and “should” are permissive.
- E. The words “used” or “occupied” include the words “intended, designed, maintained, or arranged to be used, occupied, or maintained.”
- F. The definitions in this chapter are for the purposes of enforcing the provisions of this chapter and have no bearing on other municipal regulations or ordinances.

Section 202. Definitions

Agricultural Activity – Activities associated with agriculture such as agricultural cultivation, agricultural operation, and animal heavy use areas. This includes the work of producing crops including tillage, plowing, disking, harrowing, planting, or harvesting crops; or pasturing and raising of livestock; and installation of conservation measures. Construction of new buildings or impervious area is not considered an Agricultural Activity.

Applicant – A Landowner, developer, or other person who has filed an application to the Municipality for approval to engage in any Regulated Activity as defined in this chapter.

As-Built Plans (Drawings) – Engineering or Site plans or drawings that document the actual locations, dimensions, and elevations of the improvements, and building components, and changes made to the original design plans. The final version of these documents, or a copy of same, are signed and sealed by a qualified Licensed Professional and submitted to the Municipality at the completion of the project, as per the requirements of Section 502 of this chapter as “final As-Built Plans”.

Bankfull – The channel at the top-of-bank or point from where water begins to overflow onto a floodplain.

Baseflow – Portion of stream discharge derived from groundwater; the sustained discharge that does not result from direct runoff or from water diversions, reservoir releases, piped discharges, or other human activities.

BMP (Best Management Practice) – Activities, facilities, designs, measures, or procedures used to manage stormwater impacts from Regulated Activities, to provide water quality treatment, infiltration, volume reduction, and/or peak rate control, to promote groundwater recharge, and to otherwise meet the purposes of this chapter. Stormwater BMPs are commonly grouped into one (1) of two (2) broad categories or measures: “structural” or “nonstructural.” In this chapter, nonstructural BMPs or measures include certain low impact development and conservation design practices used to minimize the contact of pollutants with stormwater runoff. These practices aim to limit the total volume of stormwater runoff and manage stormwater at its source by techniques such as protecting natural systems and incorporating existing landscape features. Nonstructural BMPs include, but are not limited to, the protection of sensitive and special value features such as wetlands and riparian areas, the preservation of open space while clustering and concentrating development, the reduction of impervious cover, and the disconnection of rooftops from storm sewers. Structural BMPs are those that consist of a physical system that is designed and engineered to capture and treat stormwater runoff. Structural BMPs include, but are not limited to, a wide variety of practices and devices from large-scale retention ponds and constructed wetlands to small-scale underground treatment systems, infiltration facilities, filter strips, bioretention, wet ponds, permeable paving, grassed swales, riparian buffer, sand filters, detention basins, and manufactured devices. Structural and nonstructural stormwater BMPs are permanent appurtenances to the Site. [See also Stormwater Management Facility and Stormwater Control Measure (SCM)].

Buffer – See Riparian Buffer.

Carbonate Geology (or carbonate rock formations) – See Karst.

CFS – Cubic Feet per Second.

Channel – A natural or artificial open drainage feature that conveys, continuously or periodically, flowing water and through which stormwater flows. Channels include, but shall not be limited to, natural and man-made drainageways, swales, streams, ditches, canals, and pipes flowing partly full.

CN – Curve number.

Commonwealth – Commonwealth of Pennsylvania.

Conservation District – The Montgomery County Conservation District.

Conservation Design - A series of holistic land development design goals that maximize protection of key land and environmental resources, preserve significant concentrations of open space and greenways, evaluate, and maintain site hydrology, and ensure flexibility in development design to meet community needs for complimentary and aesthetically pleasing development. Conservation design encompasses the following objectives:

conservation/enhancement of natural resources, wildlife habitat, biodiversity corridors, and greenways (interconnected open space); minimization of environmental impact resulting from a change in land use (minimum disturbance, minimum maintenance); maintenance of a balanced water budget by making use of site characteristics and infiltration; incorporation of unique natural, scenic and historic site features into the configuration of the development; preservation of the integral characteristics of the site as viewed from adjoining roads; and reduction in maintenance required for stormwater management practices. Such objectives can be met on a site through an integrated development process that respects natural site conditions and attempts, to the maximum extent possible, to replicate or improve the natural hydrology of a site.

Conservation Plan – A plan written by a planner certified by NRCS that identifies Conservation Practices and includes site specific BMPs for agricultural plowing or tilling activities and animal heavy use areas.

Conservation Practices – Practices installed on agricultural lands to improve farmland, soil and/or water quality which have been identified in a current Conservation Plan.

Conveyance – A natural or manmade, existing, or proposed Stormwater Management Facility, feature or channel used for the transportation or transmission of stormwater from one place to another. For the purposes of this chapter, Conveyance shall include pipes, drainage ditches, channels, and swales (vegetated and other), gutters, stream channels, and like facilities or features.

Design Storm – The magnitude and temporal distribution of precipitation from a storm event measured in probability of occurrence (e.g., a five (5)-year storm) and duration (e.g., twenty-four (24) hours), used in the design and evaluation of stormwater management systems. Also see Return Period.

Detention (or To Detain) – Capture and temporary storage of runoff in a Stormwater Management Facility for release at a controlled rate.

Detention Basin – An impoundment designed to collect and retard stormwater runoff by temporarily storing the runoff and releasing it at a predetermined rate. Detention basins are designed to drain completely shortly after any given rainfall event.

Detention Volume - The volume of runoff that is captured and released into the Waters of the Commonwealth at a controlled rate.

Developer – A person, company, or organization who seeks to undertake any Regulated Activities at a Site in the Municipality.

Diameter at Breast Height (DBH) – The outside bark diameter of a tree at breast height which is defined as four and one half (4.5) feet (one and thirty-seven one-hundredths of a meter (1.37 m)) above the forest floor on the uphill side of the tree.

Disturbed Area – Land area disturbed by or where an Earth Disturbance Activity is occurring or has occurred.

Drainage Area - That land area contributing runoff to a single point (including but not limited to the point/line of interest used for hydrologic and hydraulic calculations) and that is enclosed by a natural or man-made ridge line.

Earth Disturbance (or Earth Disturbance Activity) – A construction or other human activity which disturbs the surface of the land, including, but not limited to, clearing and grubbing; grading; excavations; embankments; road maintenance; land development; building construction; and the moving, depositing, stockpiling, or storing of soil, rock, or earth materials.

Easement – A right of use granted by a Landowner to allow a grantee the use of the designated portion of land for a specified purpose, such as for stormwater management or other drainage purposes.

Erosion – The process by which the surface of the land, including water/stream channels, is worn away by water, wind, or chemical action.

Erosion and Sediment (E&S) Control Plan – A plan required by the Conservation District or the Municipality to minimize accelerated erosion and sedimentation, and that must be prepared and approved per the applicable requirements.

Evapotranspiration (ET) – The combined processes of evaporation from the water or soil surface and transpiration of water by plants.

FEMA – Federal Emergency Management Agency.

Flood – A temporary condition of partial or complete inundation of land areas from the overflow of streams, rivers, and other waters of this Commonwealth.

Floodplain - Any land area susceptible to inundation by water from any natural source or delineated by applicable FEMA maps and studies as being a Special Flood Hazard Area.

Floodway - The channel of the watercourse and those portions of the adjoining floodplains that are reasonably required to carry and discharge the one hundred (100)-year flood (also called the base flood or one percent (1%) annual chance flood). Unless otherwise specified, the boundary of the floodway is as indicated on maps and flood insurance studies provided by FEMA. In an area where no FEMA maps or studies have defined the boundary of the floodway, it is assumed, absent evidence to the contrary, that the floodway extends from the centerline of the stream and to fifty (50) feet beyond the top of the bank of the stream on both sides.

Forest Management/Timber Operations – Planning and activities necessary for the management of forest lands. These include timber inventory, preparation of forest management plans, silvicultural treatment, cutting budgets, logging road design and construction, timber harvesting, Site preparation, and reforestation.

Freeboard – A vertical distance between the design high-water elevation and the elevation of the top of a dam, levee, tank, basin, swale, or diversion berm. The space is required as a safety margin in a pond or basin.

Geotextile – A fabric manufactured from synthetic fiber that is used to achieve specific objectives, including infiltration, separation between different types of media (i.e., between soil and stone), or filtration.

Governing Body - the Board of Commissioners of West Norriton Township.

Grade/Grading – 1. (noun) A slope, usually of a road, channel, or natural ground, specified in percent and shown on plans as specified herein. 2. (verb) To finish the surface of a roadbed, the top of an embankment, or the bottom of an excavation.

Green Infrastructure – Systems and practices that use or mimic natural processes to infiltrate, evapotranspire, or reuse stormwater on the site where it is generated.

Groundwater – Water that occurs in the subsurface and fills or saturates the porous openings, fractures and fissures of under-ground soils and rock units.

Groundwater Recharge – The replenishment of existing natural groundwater supplies from infiltration of rain or overland flow.

HEC-1 – The U.S. Army Corps of Engineers, Hydrologic Engineering Center (HEC) hydrologic runoff model.

HEC-HMS – The U.S. Army Corps of Engineers, Hydrologic Engineering Center (HEC) - Hydrologic Modeling System (HMS).

High Tunnel - A structure which meets the following:

1. is used for the production, processing, keeping, storing, sale or shelter of an agricultural commodity as defined in section 2 of the Act of December 19, 1974 (P.L. 973, No. 319), known as the “Pennsylvania Farmland and Forest Land Assessment Act of 1974,” or for the storage of agricultural equipment or supplies; and
2. is constructed with all the following:
 - a. has a metal, wood, or plastic frame;
 - b. when covered, has a plastic, woven textile, or other flexible covering; and
 - c. has a floor made of soil, crushed stone, matting, pavers, or a floating concrete slab.

Hotspots – Areas where prior or existing land use or activities can potentially generate highly contaminated runoff with concentrations of pollutants in excess of those typically found in stormwater.

Hydrologic Regime – The hydrologic system, cycle or balance that sustains the quality and quantity of stormwater, stream baseflow, storage, and groundwater supplies under natural conditions.

Hydrologic Soil Group (HSG) – A classification of soils by the Natural Resources Conservation Service (NRCS), into four (4) runoff potential groups. The groups range from A soils, which are very permeable and produce little runoff, to D soils, which are not very permeable and produce much more runoff.

Impervious Surface - A surface that has been compacted or covered with a layer of material so that it prevents or is resistant to infiltration of water, including but not limited to: structures such as roofs, buildings, storage sheds; other solid, paved, or concrete areas such as streets, driveways, sidewalks, parking lots, patios, swimming pools (not including the pool water surface area), tennis or other paved courts; or athletic playfields comprised of synthetic turf materials. For the purposes of determining compliance with this chapter, compacted soils or stone surfaces used for vehicle parking and movement shall be considered impervious. Uncompacted gravel areas with no vehicular traffic, such as gardens, walkways, or patios areas, shall be considered pervious per review by the Municipal Engineer. Surfaces that were designed to allow infiltration (i.e., pavers and areas of porous pavement) are not to be considered impervious surface if designed to function as a BMP per review by the Municipal Engineer. Additionally, for the purposes of determining compliance with this chapter, the total horizontal projection area of all ground-mounted and free-standing solar collectors, including solar photovoltaic cells, panels, and arrays, shall be considered pervious so long as the designs note that natural vegetative cover will be preserved and/or restored underneath the solar photovoltaic cells, panels, and arrays, and the area disturbed is planned as a vegetated pervious surface.

Infiltration – Movement of surface water into the soil, where it is absorbed by plant roots, evaporated into the atmosphere, or percolated downward to recharge groundwater.

Infiltration Facility – A stormwater BMP designed to collect and discharge runoff into the subsurface in a manner that allows infiltration into underlying soils and groundwater (e.g., French drains, seepage pits, or seepage trenches, etc.).

Intermittent Stream – A defined channel in which surface water is absent during a portion of the year, in response to seasonal variations in precipitation or groundwater discharge.

Invert – The lowest surface, the floor or bottom of a culvert, pipe, drain, sewer, channel, basin, BMP, or orifice.

Karst – A type of topography that is formed over limestone or other carbonate rock formations by dissolving or solution of the rock by water, and that is characterized by closed depressions, sinkholes, caves, a subsurface network of solution conduits and fissures through which groundwater moves, and no perennial surface drainage features.

Land Development – Any of the following activities:

- A. The improvement of one (1) lot or two (2) or more contiguous lots, tracts, or parcels of land for any purpose involving:

1. A group of two (2) or more residential or nonresidential buildings, whether proposed initially or cumulatively, or a single nonresidential building on a lot or lots regardless of the number of occupants or tenure, or
 2. The division or allocation of land or space, whether initially or cumulatively, between or among two (2) or more existing or prospective occupants by means of, or for the purpose of, streets, common areas, leaseholds, condominiums, building groups, or other features;
- B. A subdivision of land;
- C. Development in accordance with Section 503(1.1) of the Pennsylvania Municipalities Planning Code (as amended).

Landowner – The legal or beneficial owner or owners of land including the holder of an option or contract to purchase (whether or not such option or contract is subject to any condition), a lessee if they are authorized under the lease to exercise the rights of the Landowner, or other person having a proprietary interest in the land.

Licensed Professional – A Pennsylvania Registered Professional Engineer, Registered Landscape Architect, Registered Professional Land Surveyor, or Registered Professional Geologist, or any person licensed by the Pennsylvania Department of State or qualified by law to perform the work required by the chapter within the Commonwealth of Pennsylvania.

Limiting Zone – A soil horizon or condition in the soil profile or underlying strata that includes one of the following:

- A. A seasonal high-water table, whether perched or regional, determined by direct observation of the water table or indicated by other subsurface or soil conditions.
- B. A rock with open joints, fracture or solution channels, or masses of loose rock fragments, including gravel, with insufficient fine soil to fill the voids between the fragments.
- C. A rock formation, other stratum, or soil condition that is so slowly permeable that it effectively limits downward passage of water.

Low Impact Development (LID) - Site design approaches and small-scale stormwater management practices that promote the use of natural systems for infiltration, evapotranspiration, and reuse of rainwater. LID can be applied to new development, urban retrofits, and revitalization projects. LID utilizes design techniques that infiltrate, filter, provide evapotranspiration and store runoff close to its source. Rather than rely on costly large-scale conveyance and treatment systems, LID addresses stormwater through a variety of small, cost-effective landscape features located on-site.

MPC - Act of July 31, 1968, P.L. 805, No. 247, 53 P.S. Section 10101, et seq., as amended, the Pennsylvania Municipalities Planning Code, Act 247.

MFEMP – Mushroom Farm Environmental Management Plan.

MS4 - Municipal Separate Storm Sewer System.

Maintenance - The action taken to restore or preserve the as-built functional design of any Stormwater Management Facility or system.

Managed Release Concept (MRC) - A post-construction stormwater management (PCSM) strategy that comprises the collection, management, and filtration of captured runoff from the contributing drainage area through a best management practice (BMP) that is preferably vegetated and includes release of a portion of the captured runoff through an underdrain within the BMP. If the MRC BMP is not vegetated, then pretreatment is required to meet water quality requirements. MRC is intended to be used for project areas or subareas where infiltration is considered infeasible to meet regulatory requirements. Refer to the “Managed Release Concept” Version 1.2 (August 25, 2020) guidance document or latest guidance from PA DEP.

Municipal Engineer – A professional engineer licensed as such in the Commonwealth of Pennsylvania, duly appointed as the engineer for a Municipality, planning agency, or joint planning commission.

Municipality – West Norriton Township, Montgomery County, Pennsylvania.

New Development – Any Regulated Activity involving placement or construction of new Impervious Surface or grading over existing pervious land areas not classified as Redevelopment as defined in this chapter.

NOAA - National Oceanic and Atmospheric Administration.

Nonpoint Source Pollution – Pollution that enters a water body from diffuse origins in the watershed and does not result from discernible, confined, or discrete Conveyances.

Nonstormwater Discharges – **Water** flowing in stormwater collection facilities, such as pipes or swales, which is not the result of a rainfall event or snowmelt.

Nonstructural Best Management Practice (BMPs) – See Best Management Practice (BMP).

NPDES – National Pollutant Discharge Elimination System, the Federal government’s system for issuance of permits under the Clean Water Act, which is delegated to PADEP in Pennsylvania.

NRCS – Natural Resource Conservation Service (previously Soil Conservation Service, SCS), an agency of the U.S. Department of Agriculture.

PADEP – Pennsylvania Department of Environmental Protection.

Parent Tract – The parcel of land from which a land development or subdivision originates, determined from the July 13, 2004.

Peak Discharge – The maximum rate of stormwater runoff from a specific storm event.

PennDOT – Pennsylvania Department of Transportation.

Pennsylvania Stormwater Best Management Practices Manual (PA BMP Manual) - Document Number 363-0300-002 (December 2006, and as subsequently amended).

Pervious Surface (or Pervious Area) – Any area not defined as Impervious Surface.

Planning Commission – The Planning Commission of West Norriton Township.

Point Source – Any discernible, confined, and discrete Conveyance including, but not limited to, any pipe, ditch, channel, tunnel, or conduit from which stormwater is or may be discharged, as defined in State regulations at 25 Pennsylvania Code § 92.1.

Post-construction – Period after construction during which Disturbed Areas are stabilized, stormwater controls are in place and functioning, and all proposed improvements approved by the Municipality are completed.

Predevelopment —Ground cover conditions assumed to exist within the proposed Disturbed Area prior to commencement of the Regulated Activity for the purpose of calculating the Predevelopment water quality volume, infiltration volume, and peak flow rates as required in this chapter.

Pretreatment – Techniques employed in stormwater BMPs to provide storage or filtering, or other methods to trap or remove coarse materials and other pollutants before they enter the stormwater system but may not necessarily be designed to meet the entire water quality volume requirements of this chapter.

Proposed Impervious Surface - All new, additional and replacement Impervious Surfaces.

Rainfall Intensity - The depth of accumulated rainfall per unit of time.

Recharge – The replenishment of groundwater through the infiltration of rainfall, other surface waters, or land application of water or treated wastewater.

Redevelopment - Any Regulated Activity that involves demolition, removal, reconstruction, or replacement of existing Impervious Surface(s).

Regulated Activity - Any Earth Disturbance Activity(ies) or any activity that involves the alteration or development of land in a manner that may affect stormwater runoff.

Regulated Earth Disturbance Activity – Any activity involving Earth Disturbance subject to regulation under 25 Pennsylvania Code Chapter 92.a, Chapter 102, or the Clean Streams Law.

Regulated Impervious Surface - Proposed impervious surface as part of a current proposed activity and all existing impervious surfaces installed after July 13, 2004 as part of previous activity.

Retention or To Retain – The prevention of direct discharge of stormwater runoff into surface waters or water bodies during or after a storm event by permanent containment in a pond or depression; examples include systems which discharge by percolation to groundwater, exfiltration, and/or evaporation processes and which generally have residence times of less than three (3) days.

Retention Basin – An impoundment that is designed to temporarily detain a certain amount of stormwater from a catchment area and which may be designed to permanently retain stormwater runoff from the catchment area; retention basins always contain water.

Retention Volume/Removed Runoff – The volume of runoff that is captured and not released directly into the surface Waters of the Commonwealth during or after a storm event.

Return Period - The average interval, in years, within which a storm event of a given magnitude can be expected to occur one (1) time. For example, the twenty-five (25)-year return period rainfall would be expected to occur on average once every twenty-five (25) years; or stated in another way, the probability of a twenty-five (25)-year storm occurring in any one (1) year is four-one hundredths (0.04) (i.e., a four (4)% chance).

Riparian – Pertaining to anything connected with or immediately adjacent to the banks of a stream or other body of water.

Riparian Buffer – An area of land adjacent to a body of water and managed to maintain vegetation to protect the integrity of stream channels and shorelines, to reduce the impact of upland sources of pollution by trapping, filtering, and converting sediments, nutrients, and other chemicals, and to supply food, cover, and thermal protection to fish and other aquatic species and wildlife.

Runoff – Any part of precipitation that flows over the land surface.

SALDO – See Subdivision and Land Development Ordinance.

SCS – Soil Conservation Service, now known as the Natural Resources Conservation Service.

Sediment – Soil or other materials transported by, suspended in, or deposited by surface water as a product of erosion.

Separate Storm Sewer System – A Conveyance or system of Conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) primarily used for collecting and conveying stormwater runoff.

Sheet Flow – A flow process associated with broad, shallow water movement on sloping ground surfaces that is not channelized or concentrated.

Site – Total area of land in the Municipality where any proposed Regulated Activity, as defined in this chapter, is planned, conducted, or maintained or that is otherwise impacted by the Regulated Activity.

Soil Cover Complex Method – A method of runoff computation developed by NRCS that is based on relating soil type and land use/cover to a runoff parameter called curve number (CN).

State Water Quality Requirements – The regulatory requirements to protect, maintain, reclaim, and restore water quality under Pennsylvania Code Title 25 and the Clean Streams Law.

Storm Frequency – (see Return Period).

Stormwater – Drainage runoff from the surface of the land resulting from precipitation or snow or ice melt.

Stormwater Control Measure - Physical features used to effectively control, minimize, and treat stormwater runoff. [See Best Management Practice (BMP)].

Stormwater Management Facility – Any feature, natural or man-made, that, due to its condition, design, or construction, conveys, stores, or otherwise affects stormwater runoff quality, rate, or quantity, including Best Management Practices and Stormwater Control Measures. Typical stormwater management facilities include, but are not limited to, detention and retention basins, open channels, storm sewers, pipes, and Infiltration Facilities.

Stormwater Management (SWM) Site Plan – The plan prepared by the Applicant or its representative, in accordance with the requirements of Part IV of this chapter, indicating how stormwater runoff will be managed at a particular Site in accordance with this chapter, and including all necessary design drawings, calculations, supporting text, and documentation to demonstrate that chapter requirements have been met, herein referred to as “SWM Site Plan.” All references in this chapter to “final” or “approved” SWM Site Plans shall incorporate the approved SWM Site Plan and all subsequent approved revisions thereto.

Stream – A natural watercourse.

Structural Best Management Practices - See BMP (Best Management Practices).

Subdivision - The division or re-division of a lot, tract, or parcel of land as defined in The Pennsylvania Municipalities Planning Code, Act of July 31, 1968, P.L. 805, No. 247 (as amended).

Subdivision and Land Development Ordinance – Subdivision and Land Development ordinance of West Norriton Township, Montgomery County, PA, as amended.

Swale – An artificial or natural waterway or low-lying stretch of land that gathers and conveys stormwater or runoff, and is generally vegetated for soil stabilization, stormwater pollutant removal, and infiltration.

SWM Site Plan – See Stormwater Management Site Plan.

Timber Operations – See Forest Management.

Top-of-bank – Highest point of elevation of the bank of a stream or channel cross-section at which a rising water level just begins to flow out of the channel and into the floodplain.

USDA – United States Department of Agriculture.

Watercourse – A channel or Conveyance of surface water having a defined bed and banks, whether natural or artificial, with perennial or intermittent flow.

Water Table – The upper most level of saturation of pore space or fractures by groundwater. Seasonal high-water table refers to a water table that rises and falls with the seasons due either to natural or man-made causes.

Waters of the Commonwealth – Any and all rivers, streams, creeks, rivulets, impoundments, ditches, watercourses, storm sewers, lakes, dammed water, wetlands, ponds, springs, and all other bodies or channels of Conveyance of surface and underground water, or parts thereof, whether natural or artificial, within or on the boundaries of the Commonwealth.

Watershed – Region or area drained by a river, watercourse, or other body of water, whether natural or artificial.

Wetland – Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, fens, and similar areas.

Woods - Any land area of at least one-quarter (0.25) acre with a natural or naturalized ground cover (excluding manicured turf grass) and that has an average density of two (2) or more viable trees per one thousand five hundred (1,500) square feet with a DBH of six (6) inches or greater and where such trees existed at any time within three (3) years of the time of land development application submission of the proposed project. The land area to be considered Woods shall be measured from the outer drip lines of the outer trees.

PART III – STORMWATER MANAGEMENT STANDARDS

Section 301. General Requirements

- A. Applicants proposing Regulated Activities in the Municipality which are not exempt under Section 106 shall submit a Stormwater Management Site Plan (SWM Site Plan) to the Municipality for review and approval in accordance with Parts III and IV. SWM Site Plans approved by the Municipality shall be on Site throughout the duration of the Regulated Activity.
- B. The stormwater management and runoff control criteria and standards in this chapter shall apply to the total proposed Regulated Activity, even if it is to take place in stages. The

measurement of Impervious Surfaces shall include all of the Impervious Surfaces in the total proposed Regulated Activity even if the development is to take place in stages.

- C. No Regulated Activity within the Municipality shall commence until:
 - 1. The Municipality issues approval of a SWM Site Plan, which demonstrates compliance with the requirements of this chapter; and
 - 2. The Applicant has received a letter of adequacy or approval for the Erosion and Sediment Control Plan review by the Municipality and the Conservation District (if required), and has received all other local, State and Federal permit approvals required for the project involving the Regulated Activity.
- D. Neither submission of a SWM Site Plan under the provisions herein nor compliance with the provisions of this chapter shall relieve any person from responsibility for damage to any person or property otherwise imposed by law.
- E. The Applicant shall design the Site to minimize disturbances to land, Site hydrology, and natural resources, and to maintain the natural hydrologic regime, drainage patterns and flow conditions. The Applicant shall apply the procedures set forth in Section 304 for the overall Site design and for selection, location, and design of features and BMPs to be used to comply with the requirements of this chapter.
- F. To the maximum extent practicable, Post-construction stormwater shall be discharged within the drainage area of the same stream or water body receiving the runoff prior to construction of the proposed Regulated Activity.
- G. Alteration of existing drainage discharge onto adjacent property shall only be proposed in accordance with PADEP guidance document “Chapter 102 Off-Site Discharges of Stormwater to Non-Surface Waters – Frequently Asked Questions (FAQ)” dated January 2, 2019, or latest guidance document from PADEP. Such discharge shall be subject to any applicable discharge criteria specified in this chapter and still must meet the requirements set forth in Section 308.H for the Stony Creek/Saw Mill Run watershed as applicable.
- H. Areas of existing diffused drainage discharge, whether proposed to be concentrated or maintained as diffused drainage areas, shall be subject to any applicable discharge criteria in the general direction of existing discharge, except as otherwise provided by this chapter. If diffused drainage discharge is proposed to be concentrated and discharged onto adjacent property, the Applicant must document that adequate downstream conveyance facilities exist to safely transport the concentrated discharge or otherwise prove that no erosion, sedimentation, flooding, or other impacts will result from the concentrated discharge.
- I. Areas located outside of the Site (i.e., areas outside of the Regulated Activity) that drain through a proposed Site are not subject to water quality and volume control, infiltration, stream channel protection, or peak flow rate control requirements (as presented in Sections

305, 306, 307, and 308). Drainage facilities located on the Site shall be designed to safely convey flows from outside of the Site through the Site.

- J. If Site conditions preclude capture of runoff from limited portions of the Disturbed Area for achieving water quality volume control standards, stream channel protection standards, and the 2-year, event peak runoff rate reduction standards for New Development required by this chapter, the Applicant shall propose alternate methods to mitigate the bypass of the BMPs, subject to the approval of the Municipal Engineer. In no case shall resulting peak rate be greater than the Pre-development peak rate for the equivalent design storm.
- K. For all Regulated Activities, erosion, and sediment control BMPs shall be designed, implemented, operated, and maintained during the Regulated Activities (i.e., during construction) as required to meet the purposes and requirements of this Ordinance, to meet the erosion and sediment control requirements of the Municipality, if applicable, and to meet all requirements under Title 25 of the PA Code and the Clean Streams Law.
- L. For all Regulated Activities, permanent BMPs and Conveyances shall be designed, implemented, operated, and maintained to meet the purposes and requirements of this chapter and to meet all requirements under Title 25 of the Pennsylvania Code, the Clean Streams Law, and the Storm Water Management Act.
- M. The design of all BMPs and Conveyances shall incorporate sound engineering principles and practices in a manner that does not aggravate existing stormwater problems as identified by the Municipality. The Municipality reserves the right to disapprove any design that would result in construction in an area affected by existing stormwater problem(s) or continuation of an existing stormwater problem(s).
- N. Existing wetlands, either on the Site or on an adjacent property, shall not be used to meet the minimum design requirements for stormwater management or stormwater runoff quality treatment. Stormwater discharges to existing wetlands shall not degrade the quality or hydrologic integrity of the wetland.
- O. Hotspots Runoff Controls –

Specific structural or pollution prevention practices may be required, as determined to be necessary by the Municipal Engineer, to pretreat runoff from Hotspots prior to infiltration. Following is a list of examples of Hotspots:

1. Vehicle salvage yards and recycling facilities;
2. Vehicle fueling stations;
3. Vehicle service and maintenance facilities;
4. Vehicle and equipment cleaning facilities;

5. Fleet storage areas (bus, truck, etc.);
6. Industrial sites based on Standard Industrial Classification Codes;
7. Marinas (service and maintenance areas);
8. Outdoor liquid container storage;
9. Outdoor loading/unloading facilities;
10. Public works storage areas;
11. Facilities that generate or store hazardous materials;
12. Commercial container nursery;
13. Contaminated sites/brownfields;
14. Other land uses and activities as designated by the Municipality.

P. Contaminated and Brownfield Sites -

Where BMPs may contribute to the migration of contaminants in groundwater, the water quality and runoff volume, stream channel protection, and peak rate control standards shall be met; however, at the Municipal Engineer's discretion, the minimum infiltration requirement may be reduced or eliminated commensurate with the contaminated area and the required water quality and runoff control measures may be increased to mitigate the reduced infiltration requirement for the contaminated area.

Q. Additional Water Quality Requirements -

The Municipality may require additional stormwater control measures for stormwater discharges to special management areas including, but not limited to: Water bodies listed as "impaired" by PADEP.

1. Any water body or watershed with an approved Total Maximum Daily Load (TMDL).
2. Areas of known existing flooding problems.
3. Critical areas with sensitive resources (e.g., State designated special protection waters, cold water fisheries, carbonate geology or other groundwater recharge areas that may be highly vulnerable to contamination, drainage areas to water supply reservoirs, etc.).

R. Applicants shall utilize the *Pennsylvania Stormwater Best Management Practices Manual* (PA BMP Manual), as amended, or other sources acceptable to the Municipal Engineer, for

testing and design standards for BMPs, and where there is a conflict with the provisions of this chapter, the most restrictive applies.

- S. All Regulated Activities located within a Special Flood Hazard Area designated by the Federal Emergency Management Agency (FEMA) shall comply with the West Norriton Township Zoning Ordinance §27-22 and shall be designed to maintain the flood carrying capacity of the floodway such that the base flood elevations are not increased, either upstream or downstream. The natural conveyance characteristics of the Site and the receiving floodplain shall be incorporated into the stormwater management practices proposed for the Site.
- T. Disturbance of existing ground cover during construction of the proposed Regulated Activity is prohibited within fifty (50) feet of top-of-bank of all perennial and intermittent waterways, water bodies (lakes, ponds, etc.) and wetlands, except for activities otherwise approved by State or local agencies (e.g., stream restoration projects, road crossings, subsurface utility projects, etc.). At the Municipal Engineer's discretion, and with Conservation District and PADEP approval where necessary, the non-disturbance buffer may be reduced because of setback or other Site constraints, but never be less than ten (10) feet.

Section 302. Permit Requirements by Other Governmental Entities

The following permit or other regulatory requirements may apply to certain Regulated Activities and shall be met prior to (or as a condition of) final approval by the Municipality of the SWM Site Plan and prior to commencement of any Regulated Activities, as applicable:

- A. All Regulated Activities subject to permit or regulatory requirements by PADEP under regulations at Title 25 Pennsylvania Code Chapter 102, or erosion and sediment control requirements of the Municipality.
- B. Work within natural drainage ways subject to permit by PADEP under Title 25 Pennsylvania Code Chapter 105.
- C. Any BMP or Conveyance that would be located in or adjacent to surface Waters of the Commonwealth, including wetlands, subject to permit by PADEP under Title 25 Pennsylvania Code Chapter 105.
- D. Any BMP or Conveyance that would be located on or discharge to a State highway right-of-way or require access to or from a State highway and be subject to approval by PennDOT.
- E. Culverts, bridges, storm sewers, or any other facilities which must pass or convey flows from the tributary area and any facility which may constitute a dam subject to permit by PADEP under Title 25 Pennsylvania Code Chapter 105.

Section 303. Erosion and Sediment Control

- A. No Regulated Activity within the Municipality shall commence until:

1. The Municipality receives documentation that the Applicant has received:
 - a. A “letter of adequacy” from the Conservation District or other approval from PADEP in compliance with Title 25 Chapter 102 of the Pennsylvania Code of an Erosion and Sediment Control Plan for construction activities for projects where the area of disturbance exceeds one (1) acre, where pond dredging is involved, or when the disturbance is associated with activities described under Title 25 Chapter 105 of the Pennsylvania Code permits;
 - b. A PADEP NPDES Permit for Stormwater Discharges Associated with Construction Activities as required under Title 25 Pennsylvania Code Chapter 92.a, if applicable;
 - c. Evidence of any other permit(s) or approvals required for the Regulated Activities; and
 2. An Erosion and Sediment Control Plan has been approved by the Municipality, if required.
- B. A copy of the Erosion and Sediment Control Plan and any required permit(s), as required by PADEP regulations, shall be available on the Site at all times.
- C. Additional erosion and sediment control measures shall be applied where infiltration BMPs are proposed, at a minimum including those required in Subsection 306.L.

Section 304. Site Design Process

The Applicant shall design the Site to minimize the disturbances to land, Site hydrology, and natural resources, and to maintain the natural hydrologic regime, drainage patterns and flow conditions. For Regulated Activities with ten thousand (10,000) or more square feet of proposed Earth Disturbance OR two thousand (2,000) or more square feet of Regulated Impervious Surfaces, the Applicant shall demonstrate in its SWM Site Plan (as required in Subsection 402.D) that the design sequence, objectives, and techniques described below were applied to the maximum extent practicable in the Site design of the Regulated Activity while complying with all other requirements of this chapter. The Site design shall:

- A. First, identify and delineate all existing natural resources and natural and man-made hydrologic features listed in Subsection 402.C.8 that are located within the Site, or receive discharge from, or may be impacted by the proposed Regulated Activity.
- B. Second, provide a prioritized listing of these resources and features to identify:
 1. Those to be incorporated into the Site design in a manner that provides protection from any disturbance or impact from the proposed Regulated Activity;

2. Those to be protected from further disturbance or impact but for which the proposed Regulated Activity will provide improvement to existing conditions;
 3. Those that can be incorporated into and utilized as components of the overall Site design in a manner that protects or improves their existing conditions while utilizing their hydrologic function within the limits of their available capacity (e.g., for infiltration, evapotranspiration, or reducing pollutant loads, runoff volume or peak discharge rates, etc.) to reduce the need for or size of constructed BMPs; and
 4. Those that may be considered for alteration, disturbance, or removal.
- C. Third, develop the Site design to achieve the following:
1. Recognize and incorporate the priorities identified in Subsection 304.B as the basis for the proposed Site layout, grading, construction, and permanent ground cover design;
 2. Minimize Earth Disturbance (both surface and subsurface);
 3. Maximize protection of or improvement to natural resources and special management areas;
 4. Minimize the disturbance of natural Site hydrology, in particular natural drainage features and patterns, discharge points and flow characteristics, natural infiltration patterns and characteristics, and natural channel and floodplain conveyance capacity;
 5. Incorporate natural hydrologic features and functions identified in Subsection 304.B into the Site design to protect and utilize those features and their hydrologic functions to reduce the need for or size of constructed BMPs;
 6. Maximize infiltration and the use of natural Site infiltration features, patterns and conditions, and evapotranspiration features;
 7. Apply selective grading design methods to provide final grading patterns or preserve existing topography in order to evenly distribute runoff and minimize concentrated flows;
 8. Minimize the cumulative area to be covered by Impervious Surfaces and:
 - a. Minimize the size of individual Impervious Surfaces,
 - b. Separate large Impervious Surfaces into smaller components,
 - c. Disconnect runoff from one Impervious Surface to another, and
 - d. Utilize porous materials in place of impervious wherever practicable;
 9. Minimize the volume and peak discharge rates of stormwater generated;

10. Avoid or minimize stormwater runoff pollutant loads and receiving stream channel erosion;
 11. Locate infiltration and other BMPs:
 - a. At or as near to the source of generation as possible, and
 - b. At depths that are as shallow as possible;
 12. Prioritize the selection and design of BMPs as follows:
 - a. Nonstructural and vegetation BMPs, then
 - b. Structural (surface and subsurface) BMPs;
 13. For flow volumes requiring conveyance from the source of generation to a BMP for management, give preference to open channel conveyance techniques that provide infiltration and water quality benefits, and landscaped-based management in common open space areas, where practicable; and
 14. Consider additional guidance for incorporating natural hydrology into the Site and BMP designs, methods and techniques that support the objectives of Subsections 304.B and 304.C. Appendix B presents additional discussion of “Conservation Design” and “Low Impact Development.”
- D. The procedures set forth above shall be utilized to the maximum extent practicable for the overall Site design and selection, location, and design of features and BMPs to be used to comply with the requirements of Sections 305, 306, 307 and 308.

Section 305. Water Quality and Runoff Volume Requirements

To control Post-construction stormwater impacts from Regulated Activities and meet State water quality requirements, BMPs shall be provided in the Site design that replicate Predevelopment stormwater infiltration and runoff conditions, such that Post-construction stormwater discharges do not degrade the physical, chemical, or biological characteristics of the receiving waters. The green infrastructure and Low Impact Development (LID) practices provided in the PA BMP Manual, as well as the guidance on green infrastructure, LID and Conservation Design (CD) provided in Appendix B, shall be utilized for all regulated activities wherever possible. The Applicant shall comply with the following water quality and runoff volume requirements for all Regulated Activities, including all New Development and Redevelopment activities:

- A. The Post-construction total runoff volume shall not exceed the Predevelopment total runoff volume for all storms equal to or less than the two (2)-year, twenty-four (24)-hour duration precipitation (design storm). The water quality and runoff volume to be managed shall consist of any runoff volume generated by the proposed Regulated Activity over and above

the Predevelopment total runoff volume and shall be captured and permanently retained or infiltrated on the Site. Permanent retention options may include, but are not limited to, reuse, evaporation, transpiration, and infiltration.

- B. For modeling purposes, the Predevelopment ground cover conditions shall be determined using the corresponding ground cover assumptions presented in Subsection 309.D of this chapter.
- C. The design of the Stormwater Management Facility outlet shall provide for protection from clogging and unwanted sedimentation.
- D. BMPs that moderate the temperature of stormwater shall be used to protect the temperature of receiving waters.
- E. Water quality improvement shall be achieved in conjunction with achieving the infiltration requirements of Section 306. The infiltration volume required under Section 306 may be included as a component of the water quality volume. If the calculated water quality and runoff volume is greater than the volume infiltrated, then the difference between the two (2) volumes shall be managed for water quality and runoff volume control through other techniques or practices but shall not be discharged from the Site.
- F. Runoff from the Disturbed Area shall be treated for water quality prior to entering existing waterways or water bodies. If a stormwater management practice does not provide water quality treatment, then water quality BMPs shall be utilized to provide pre-treatment prior to the runoff entering the stormwater management practice.
- G. The Municipality may require additional water quality and runoff control measures for stormwater discharging to special management areas such as those listed in Subsection 301.R.
- H. When the Regulated Activity contains or is divided by multiple drainage areas, the water quality and runoff volume shall be separately addressed for each drainage area.
- I. Weighted averaging of runoff coefficients shall not be used for manual computations or input data for water quality and runoff volume calculations.
- J. Areas located outside of the Site (i.e., areas outside of the Regulated Activity) may be excluded from the calculation of the water quality and runoff volume requirements.
- K. Water quality and volume control practices shall be selected and designed to meet the criteria of Subsection 304.C that apply to water quality and volume control.
- L. Evapotranspiration may be quantified and credited towards meeting volume requirements according to the PADEP Post Construction Stormwater Management (PCSM) Spreadsheet and Instructions (December 2020) or the most recent guidance from PADEP.

Section 306. Infiltration Requirements

Providing for infiltration consistent with the natural hydrologic regime is required to compensate for the reduction in the recharge that occurs when the ground surface is disturbed, or Impervious Surface is created or expanded. The Applicant shall achieve the following infiltration requirements:

- A. For Regulated Activities involving both New Development and Redevelopment, infiltration should be designed to accommodate the entire water quality and runoff volume required in Section 305. Infiltration BMPs should be consistent with the design and infiltration period guidelines included in the PA BMP Manual or other PA DEP design guidance. If the runoff volume required by Section 305 cannot be infiltrated, then alternative methods consistent with the PA BMP Manual (as amended) or other PA DEP guidance, such as the Managed Release Concept, may be used to manage this volume with approval from the Municipal Engineer.
- B. For Regulated Activities involving both New Development and Redevelopment, the volume of a minimum of one (1)-inch of runoff from all Regulated Impervious Surfaces shall be infiltrated.
- C. If the requirements of Subsection 306.A or 306-B cannot be physically accomplished, then the Applicant shall be responsible for demonstrating with data or calculations to the satisfaction of the Municipal Engineer why this infiltration volume cannot be physically accomplished on the Site (e.g., shallow depth to bedrock or limiting zone, open voids, steep slopes, etc.) and what alternative volume can be infiltrated.
- D. Only if a minimum infiltration of the first one-half (0.5) inch of runoff volume cannot be physically accomplished on the Site, shall a waiver from Section 306 be considered by the Municipality, in accordance with Section 111.
- E. If Site conditions preclude capture of runoff from portions of the Impervious Surfaces, the infiltration volume for the remaining area shall be increased an equivalent amount to offset the loss.
- F. When a project contains or is divided by multiple watersheds, the infiltration volume shall be separately addressed for each watershed.
- G. Existing Impervious Surfaces located in areas outside of the Site (i.e., outside of the Regulated Activity) may be excluded from the calculation of the required infiltration volume.
- H. A detailed soils evaluation of the Site shall be conducted by a qualified professional and at a minimum shall address soil permeability, depth to bedrock, and subgrade stability. The general process for designing the infiltration BMP shall be conducted by a qualified Licensed Professional and shall be consistent with the PA BMP Manual (as amended) (or other guidance acceptable to the Municipal Engineer) and in general shall:

1. Analyze hydrologic soil groups as well as natural and man-made features within the Site to determine general areas of suitability for infiltration practices. In areas where development on fill material is under consideration, conduct geotechnical investigations of sub-grade stability; infiltration may not be ruled out without conducting these tests.
 2. Provide field tests such as double ring infiltrometer or other hydraulic conductivity tests (at the elevation of the proposed infiltration surface) to determine the appropriate hydraulic conductivity rate. Standard septic/sewage percolation tests are not acceptable for design purposes.
 3. Design the Infiltration Facility for the required retention (infiltration) volume based on field-determined infiltration capacity (and apply safety factor as per applicable design guidelines) at the elevation of the proposed infiltration surface.
 4. On-lot infiltration features are encouraged; however, it shall be demonstrated to the Municipal Engineer that the soils are conducive to infiltration on the identified lots.
- I. Infiltration BMPs shall be selected based on suitability of soils and Site conditions and shall be constructed on soils that have the following characteristics:
1. A minimum depth of twenty-four (24) inches between the bottom of the BMP and the top of the Limiting Zone.
 2. An infiltration rate sufficient to accept the additional stormwater volume and drain completely as determined by field tests conducted by the Applicant.
 3. The Infiltration Facility shall completely drain the retention (infiltration) volume within three (3) days (seventy-two (72) hours) from the end of the design storm.
- J. All infiltration practices shall:
1. Be selected and designed to meet the criteria of Subsection 304.C that are applicable to infiltration;
 2. Be set back at least 25 feet from all buildings and features with sub-grade elements (e.g., basements, foundation walls, etc.) and 10 feet from property lines, unless otherwise approved by the Municipal Engineer;
 3. For any infiltration practice that collects runoff from shared or multiple features and that is located within 25 feet of a building or feature with sub-grade elements (e.g., basements, foundation walls, etc.), the bottom elevation shall be set below the elevation of the sub-grade element.
- K. Infiltration Facilities shall, to the maximum extent practicable, be located to avoid introducing contaminants to groundwater:

1. When a Hotspot is located in the area draining to a proposed Infiltration Facility, an evaluation of the potential of groundwater contamination from the proposed Infiltration Facility shall be performed, including a hydrogeologic investigation (if necessary) by a qualified Licensed Professional to determine what, if any, pre-treatment, or additional design considerations are needed to protect groundwater quality.
 2. When located within a “well head protection area” of a public water supply well, infiltration practices shall be in conformance with the applicable approved source water protection assessment or source water protection plan.
 3. The Applicant shall provide appropriate safeguards against groundwater contamination for land uses that may cause groundwater contamination should there be a mishap or spill.
- L. During Site construction, all infiltration practice components shall be protected from compaction due to heavy equipment operation or storage of fill or construction material. Infiltration areas shall also be protected from sedimentation. Areas that are accidentally compacted or graded shall be remediated to restore soil composition and porosity. Adequate documentation to this effect shall be submitted to the Municipal Engineer for review. All areas designated for infiltration shall not receive runoff until the contributory drainage area has achieved final stabilization.
- M. Where sediment transport in the stormwater runoff is anticipated to reach the infiltration system, appropriate permanent measures to prevent or collect sediment shall be installed prior to discharge to the infiltration system.
- N. Where roof drains are designed to discharge to infiltration practices, they shall have appropriate measures to prevent clogging by unwanted debris (for example, silt, leaves and vegetation). Such measures shall include but are not limited to leaf traps, gutter guards, and cleanouts.
- O. All infiltration practices shall have appropriate positive overflow controls.
- P. No sand, salt or other particulate matter may be applied to a porous surface material for winter ice conditions.
- Q. The following procedures and materials shall be required during the construction of all subsurface facilities:
1. Excavation for the Infiltration Facility shall be performed with equipment that will not compact the bottom of the seepage bed/trench or like facility.
 2. The bottom of the bed and/or trench shall be scarified prior to the placement of aggregate.
 3. Only clean aggregate with documented porosity, free of fines, shall be allowed.

4. The tops, bottoms and sides of all seepage beds, trenches, or like facilities shall be covered with drainage fabric. Fabric shall be non-woven fabric acceptable to the Municipal Engineer.
5. Stormwater shall be distributed throughout the entire seepage bed/trench or like facility and provisions for the collection of debris shall be provided in all facilities.

Section 307. Stream Channel Protection Requirements

For Regulated Activities involving New Development with one (1) or more acres of Earth Disturbance, the Applicant shall comply with the following stream channel protection requirements to minimize stream channel erosion and associated water quality impacts to the receiving waters:

- A. The peak flow rate of the Post-construction two (2)-year, twenty-four (24)-hour design storm shall be reduced to the Predevelopment peak flow rate of the one (1)-year, twenty-four (24)-hour duration precipitation, using the SCS Type II distribution.
- B. To the maximum extent practicable, and unless otherwise approved by the Municipal Engineer, the Post-construction one (1)-year, twenty-four (24)-hour storm flow shall be detained for a minimum of twenty-four (24) hours and a maximum not to exceed seventy-two (72) hours from a point in time when the maximum volume of water from the one (1)-year, twenty-four (24)-hour storm is stored in a proposed BMP (i.e., when the maximum water surface elevation is achieved in the facility). Release of water can begin at the start of the storm (i.e., the invert of the orifice is at the invert of the proposed BMP).
- C. For modeling purposes, the Predevelopment ground cover conditions shall be determined using the corresponding ground cover assumptions presented in Subsection 309.D of this chapter.
- D. The minimum orifice size in the outlet structure to the BMP shall be three (3) inches in diameter unless otherwise approved by the Municipal Engineer, and a trash rack shall be installed to prevent clogging. For Sites with small drainage areas contributing to the BMP that do not provide enough runoff volume to allow a twenty-four (24) hour attenuation with the three (3)-inch orifice, the calculations shall be submitted showing this condition.
- E. When the calculated orifice size is below three (3) inches, gravel filters (or other methods) are recommended to discharge low-flow rates subject to the Municipal Engineer's satisfaction. When filters are utilized, maintenance provisions shall be provided to ensure filters meet the design function.
- F. All proposed Stormwater Management Facilities shall make use of measures to extend the flow path and increase the travel time of flows in the facility.
- G. When a Regulated Activity contains or is divided by multiple drainage areas, the peak flow rate control shall be separately addressed for each drainage area.

Section 308. Stormwater Peak Rate Control Requirements

The Applicant shall comply with the following peak flow rate control requirements for all Regulated Activities including those that involve New Development and Redevelopment that are not located in the Stony Creek/Saw Mill Run watershed.

- A. Post-construction peak flow rates from any Regulated Activity shall not exceed the Predevelopment peak flow rates as shown for each of the design storms specified in Table 308.1.

**TABLE 308.1
Peak Rate Control Standards**

(Peak Flow Rate of the Post-construction Design Storm Shall be Reduced to the Peak Flow Rate of the Corresponding Predevelopment Design Storm Shown in the Table)

POST-CONSTRUCTION DESIGN STORM FREQUENCY (24-Hour Duration)	PREDEVELOPMENT DESIGN STORM	
	New Development Regulated Activities	Redevelopment Regulated Activities
2-Year	1-Year	2-Year
5-Year	5-Year	5-Year
10-Year	10-Year	10-Year
25-Year	25-Year	25-Year
50-Year	50-Year	50-Year
100-Year	100-Year	100-Year

- B. For modeling purposes, the Predevelopment ground cover conditions shall be determined using the corresponding ground cover assumptions presented in Subsection 309.D of this chapter.
- C. For Regulated Activities involving only Redevelopment, no peak flow rate controls are required when and **only if** the total Regulated Impervious Surface area is at least twenty percent (20%) less than the total existing Impervious Surface area to be disturbed by the Regulated Activity. In all cases where this requirement is not met, the Redevelopment Regulated Activity shall achieve the peak flow rate controls presented in Table 308.1, using the Redevelopment Ground Cover Assumptions presented in Subsection 309.D. This design criterion for Redevelopment is only permitted with approval of Municipal Engineer. It shall result in no impact on downstream properties.
- D. Only the area of the proposed Regulated Activity shall be subject to the peak flow rate control standards of this chapter. Undisturbed areas for which the discharge point has not changed are not subject to the peak flow rate control standards.

- E. Areas located outside of the Site (i.e., areas outside of the Regulated Activity) that drain through a proposed Site are not subject to peak flow rate control requirements. Drainage facilities located on the Site shall be designed to safely convey flows from outside of the Site through the Site.
- F. When a Regulated Activity contains or is divided by multiple drainage areas, the peak flow rate controls shall be separately addressed for each drainage area.
- G. The effect of structural and non-structural stormwater management practices implemented as part of the overall Site design may be taken into consideration when calculating total storage volume and peak flow rates.
- H. Regulated Activities located within the Stony Creek/Saw Mill Run watershed shall achieve the applicable peak flow release rate control requirements as referenced below.
 - a. The criteria for peak runoff control shall be designed to reduce the post-development peak flow to 50% of the pre-development peak flow, for the two-year, five-year, ten-year, twenty five-year, fifty-year, and one-hundred-year storm events.
 - b. Off-site areas that drain through a development site are not subject to the 50% reduction as referenced in this Ordinance section; and shall be subject to the release rate criteria set forth in Table 308.1, above.

Section 309. Calculation Methodology

- A. Stormwater runoff from all Regulated Activity Sites with a drainage area of greater than five (5) acres shall be calculated using a generally accepted calculation technique(s) that is based on the NRCS Soil Cover Complex Method. Table 309.1 summarizes acceptable computation methods. The method selected for use shall be based on the individual limitations and suitability of each method for a particular Site. The use of the Rational Method to estimate peak discharges for drainage areas greater than two (2) acres shall be permitted only upon approval by the Municipal Engineer. The Dekalb Rational Method may be used upon approval by the Municipal Engineer.

**TABLE 309.1
ACCEPTABLE COMPUTATION METHODOLOGIES FOR SWM SITE PLAN**

METHOD	DEVELOPED BY	APPLICABILITY
TR-20 (or commercial computer package based on TR-20)	USDA NRCS	Applicable where use of full hydrology computer model is desirable or necessary.
TR-55 (or commercial computer package based on TR-55)	USDA NRCS	Applicable for land development plans where limitations described in

		TR-55 are met.
HEC-1/ HEC-HMS	US Army Corps of Engineers	Applicable where use of a full hydrologic computer model is desirable or necessary.
Rational Method (or Dekalb Rational Method or commercial computer package based on Rational Method upon approval by the Municipal Engineer)	Emil Kuichling (1889)	For Sites up to two (2) acres, or as approved by the Municipality.
Other Methods	Varies	Other computation methodologies approved by the Municipality.

- B. All calculations using the Soil Cover Complex Method shall use the appropriate design rainfall depths for the various return period storms consistent with this chapter. Rainfall depths used shall be obtained from the latest version of the Precipitation-Frequency Atlas of the United States, National Oceanic and Atmospheric Administration (NOAA), National Weather Service, Hydrometeorological Design Studies Center, Silver Spring, Maryland (NOAA Atlas 14) values consistent with a partial duration series. When stormwater calculations are performed for routing procedures or infiltration, water quality and runoff volume functions, the duration of rainfall shall be twenty-four (24) hours.
- C. All calculations using the Rational Method shall use rainfall intensities consistent with appropriate times-of-concentration (duration) and storm events with rainfall intensities obtained from NOAA Atlas 14 partial duration series estimates, or the latest version of the PennDOT Drainage Manual (PDM Publication 584). Times-of-concentration shall be calculated based on the methodology recommended in the respective model used. Times of concentration for channel and pipe flow shall be computed using Manning’s equation.
- D. The Applicant shall utilize the following ground cover assumptions for all Predevelopment water quality and runoff volume, infiltration volume and peak flow rate calculations:
1. For Regulated Activities involving New Development, the following ground cover assumptions shall be used:
 - a. For areas that are Woods (as defined in Part II of this chapter), Predevelopment calculations shall assume ground cover of “Woods in good condition”.
 - b. For all other areas (including all Impervious Surfaces), Predevelopment calculations shall assume ground cover of “meadow”.
 2. For Regulated Activities involving Redevelopment, the following ground cover assumptions shall be used:

- a. For areas that are Woods (as defined in Part II of this chapter), Predevelopment calculations shall assume ground cover of “Woods in good condition”.
 - b. For areas that are not Woods or not Impervious Surfaces, Predevelopment calculations shall assume ground cover of “meadow”.
 - c. For areas that are Impervious Surfaces, Predevelopment calculations shall assume at least twenty percent (20%) of the existing Impervious Surface area to be disturbed as “meadow” ground cover.
3. The Applicant shall determine which stormwater standards apply to the proposed Regulated Activity as follows:
- a. Stormwater standards for New Development shall apply to all proposed Regulated Activities that involve only New Development activities as defined in this chapter.
 - b. Stormwater standards for Redevelopment shall apply to all proposed Regulated Activities that involve only Redevelopment activities as defined in this chapter.
 - c. At the discretion of the Municipal Engineer, Regulated Activities that involve a combination of both New Development and Redevelopment activities, as defined in this chapter, may either:
 - i. Apply the stormwater standards (Redevelopment or New Development) that are associated with the activity that involves the greatest amount of land area; or
 - ii. Apply the Redevelopment and New Development stormwater standards to the corresponding Redevelopment and New Development portions of the proposed Regulated Activity.
- E. Runoff curve numbers (CN) for both Predevelopment and proposed (Post-construction) conditions to be used in the Soil Cover Complex Method shall be obtained from Table C-1 in Appendix C of this chapter.
- F. Runoff coefficients (C) for both Predevelopment and proposed (Post-construction) conditions for use in the Rational Method shall be obtained from Table C-2 in Appendix C of this chapter.
- G. Weighted averaging of runoff coefficients shall not be used for manual computations or input data for water quality and runoff volume calculations.
- H. Hydraulic computations to determine the capacity of pipes, culverts, and storm sewers shall be consistent with methods and computations contained in the Federal Highway Administration Hydraulic Design Series Number 5 (Publication No. FHWA-NHI-01-020 HDS No. 5, as amended). Hydraulic computations to determine the capacity of open channels shall be consistent with methods and computations contained in the Federal Highway

Administration Hydraulic Engineering Circular Number 15 (Publication No. FHWA-NHI-05-114 HEC 15, as amended). Values for Manning's roughness coefficient (n) shall be consistent with Table C-3 in Appendix C of the chapter.

- I. Runoff calculations shall include the following assumptions:
 1. Average antecedent moisture conditions (for the Soil Cover Complex Method only for example, TR-55, TR-20).
 2. A type II distribution storm (for the Soil Cover Complex Method only for example, TR-55, TR-20).

Section 310. Other Requirements

- A. Any BMP intended to hold standing water for four (4) days or longer shall be designed to incorporate biologic controls consistent with the West Nile Guidance found in Appendix D, PADEP document 363-0300-001 "Design Criteria – Wetlands Replacement/Monitoring" (as amended), (or contact the Pennsylvania State Cooperative Wetland Center or the Penn State Cooperative Extension Office for design information.)
- B. Any stormwater basin required or regulated by this chapter designed to store runoff and requiring a berm or earthen embankment shall be designed to provide an emergency spillway to safely convey flow up to and including the one hundred (100)-year proposed conditions. The height of embankment shall provide a minimum one (1.0) foot of Freeboard above the maximum pool elevation computed when the facility functions for the one hundred (100)-year proposed conditions inflow. Should any BMP require a dam safety permit under PA Chapter 105 regulations, the facility shall be designed in accordance with and meet the regulations of PA Chapter 105 concerning dam safety. PA Chapter 105 may require the safe conveyance of storms larger than one hundred (100)-year event.
- C. Any drainage Conveyance facility and/or channel not governed by PA Chapter 105 regulations shall be designed to convey, without damage to the drainage facility or roadway, runoff from the twenty-five (25)-year storm event. Larger storm events (fifty (50)-year and one hundred (100)-year storms) shall also be safely conveyed in the direction of natural flow without creating additional damage to any drainage facilities, nearby structures, or roadways.
- D. Conveyance facilities to or exiting from stormwater management facilities (i.e., detention basins) shall be designed to convey the design flow to or from the facility.
- E. Roadway crossings or structures located within designated floodplain areas shall be able to convey runoff from a 100-year design storm consistent with Federal Emergency Management Agency National Flood Insurance Program – Floodplain Management Requirements.

- F. Any Stormwater Management Facility located within a PennDOT right-of-way shall comply with PennDOT minimum design standards and permit submission and approval requirements.
- G. Adequate erosion protection and energy dissipation shall be provided along all open channels and at all points of discharge. Design methods shall be consistent with the Federal Highway Administration Hydraulic Engineering Circular Number 11 (Publication No. FHWA-IP-89-016, as amended) and the PADEP Erosion and Sediment Pollution Control Program Manual (Publication No. 363-2134-008, as amended), or other design guidance acceptable to the Municipal Engineer.

Section 311. Other Conveyance and System Design Standards

- A. All proposed storm sewer pipes, culverts and bridges (excluding stormwater management facility outlet pipes) and swales shall be designed for a storm of one-hundred (100) year frequency, in accordance with the methods as outlined in this chapter. Easement shall be provided, at a minimum width of twenty (20) feet, encompassing the referenced facilities, in areas located outside of public right-of-way or open space areas owned and maintained by the Township or a Homeowners Association.
- B. Storm sewer pipes, excluding roof drains, perforated underdrains, and pipes utilized for conveyance on single, residential properties, shall be a minimum diameter of 15 inches and shall be constructed of reinforced concrete pipe (RCP) or high-density polyethylene pipe (HDPE) in accordance with the applicable specifications set forth in PennDOT Publication 408 Standards and Specifications, latest edition.
- C. Storm water conveyance pipe and culverts shall be designed to maintain a minimum velocity of 3 feet per second at full flow. The minimum slope of stormwater conveyance pipe shall be 0.5%.
- D. Storm sewer and culverts constructed within paved areas shall be constructed with a minimum one foot of cover, measured from the top of subgrade to the top of pipe. Storm sewer constructed within non-paved areas shall be constructed with a minimum one foot of cover, measured from the finished grade elevation to the top of pipe.
- E. Storm sewer and stormwater conveyance pipe shall be constructed in straight alignments. Curves in pipes shall not be permitted.
- F. Stormwater conveyance structures included but not limited to inlets, manholes, headwalls and endwalls, shall comply with PennDOT Publication 408 Standards and Specifications, latest edition.

G. Stormwater conveyance structures included but not limited to inlets, manholes, headwalls and endwalls, shall comply with PennDOT Publication 408 Standards and Specifications, latest edition.

H. Conveyance swales shall comply with the following criteria:

- a. Swales shall be designed in accordance with the applicable criteria set forth in this Chapter. In addition, the following parameter shall be used for design:
 - i. Conveyance swale utilizing a vegetative cover shall consider for design:
 1. Swale stability based upon a low degree of retardance ($n=0.03$)
 2. Swale capacity based upon a high degree of retardance ($n=0.05$)
 - ii. Conveyance swales shall have a minimum slope of 1%.
 - iii. Manning's "n" coefficients for swales constructed with non-vegetative stabilization shall be subject to the approval of the Municipal Engineer.

PART IV – STORMWATER MANAGEMENT (SWM) SITE PLAN REQUIREMENTS

Section 401. General Requirements

For any Regulated Activity, unless exempt per the provisions of Section 106:

- A. Preparation and implementation of an approved SWM Site Plan is required.
- B. No Regulated Activity shall commence until the Municipality issues written approval of a SWM Site Plan, which demonstrates compliance with the requirements of this chapter and, if required, a letter of adequacy has been issued by the Conservation District for an Erosion and Sediment Control Plan.
- C. The preliminary or final approval of subdivision and/or land development plans, and the issuance of any building or occupancy permit shall not proceed until the Applicant has received written approval of a SWM Site Plan from the Municipality.
- D. The SWM Site Plan approved by the Municipality shall be on Site throughout the duration of the Regulated Activity.

Section 402. SWM Site Plan Contents

The SWM Site Plan shall consist of a general description of the project including items described in Section 304, calculations, maps, and plans. A note on the maps shall refer to the associated computations and Erosion and Sediment Control Plan by title and date. The cover sheet of the computations and Erosion and Sediment Control Plan shall refer to the associated maps by title and date. All SWM Site Plan materials shall be submitted to the Municipality in a format that is clear, concise, legible, neat, and well organized; otherwise, the SWM Site Plan shall not be accepted for review and shall be returned to the Applicant.

The following items shall be included in the SWM Site Plan:

A. For regulated activities with less than 2,000 square feet of proposed impervious surfaces and less than 10,000 square feet of proposed earth disturbance, the required contents of the SWM site plan are reduced. At a minimum, the SWM site plan for these regulated activities shall include all items required by all applicable requirements of the Simplified Approach to Stormwater Management for Small Projects. All other regulated activities shall comply with the requirements of this section.

B. General

1. A general description of the proposed project;
2. A listing of all regulatory approvals required for the proposed project and the status of the review and approval process for each. Final approval or adequacy letters must be submitted to the Municipality prior to (or as a condition of) the Municipality's issuing final approval of the SWM Site Plan. Proof of application or documentation of required permit(s) or approvals for the programs listed below shall be part of the SWM Site Plan, if applicable:
 - a. NPDES Permit for Stormwater Discharges Associated with Construction Activities;
 - b. PADEP permits as needed:
 - i. PADEP Joint Permit Application,
 - ii. Chapter 105 (Dam Safety and Waterway Management),
 - iii. Chapter 106 (Floodplain Management);
 - c. PennDOT Highway Occupancy Permit;
 - d. Erosion and Sediment Control Plan letter of adequacy; and
 - e. Any other permit under applicable State or Federal regulations.
3. A statement, signed by the Applicant, acknowledging that any revision to the approved SWM Site Plan shall be submitted to and approved by the Municipality, and that a revised Erosion and Sediment Control Plan shall be submitted to, and approved by, the Conservation District or Municipality (as applicable) for a determination of adequacy prior to construction of the revised features.
4. The following signature block signed and sealed by the qualified Licensed Professional responsible for the preparation of the SWM Site Plan:

“I (name), on this date (date of signature), hereby certify to the best of my knowledge that the SWM Site Plan meets all design standards and criteria of the

West Norriton Township Code, Chapter 26 , Stormwater Management.” [Note: include signature, name, discipline of professional license, and license stamp or seal here]

5. The following signature block for the Municipality:

“On behalf of West Norriton Township, (Municipal official or designee), on this date [Signature date], has reviewed and hereby certifies to the best of my knowledge that the SWM Site Plan meets all design standards and criteria of the West Norriton Township Code, Chapter 26 , Stormwater Management.”

C. Maps or Plan Sheets

Map(s) or plan sheets of the Site shall be submitted on minimum twenty-four (24)-inch by thirty-six (36)-inch sheets and shall be prepared in a form that meets the requirements for recording at the Montgomery County Office of the Recorder of Deeds and the requirements of the Operation and Maintenance (O&M) Plan and O&M Agreement (Part VII). If the SALDO has additional or more stringent criteria than this chapter, then the SALDO criteria shall also apply. Unless otherwise approved by the Municipal Engineer, the contents of the maps or plan sheets shall include, but not be limited to:

1. A location map, with a scale of one (1) inch equals two thousand (2,000) feet or greater, showing the Site location relative to highways, municipal boundaries, or other identifiable landmarks.
2. The name of the project, tax parcel number(s), and the names, addresses and phone numbers of the owner of the property, the Applicant, and firm preparing the plan.
3. Signature and seal of the qualified Licensed Professional(s) responsible for preparation of the maps and plan sheets.
4. The date of SWM Site Plan submission and revision dates, as applicable.
5. A graphic and written scale of one (1) inch equals no more than fifty (50) feet.
6. A north arrow.
7. Legal property boundaries, including:
 - a. The total project property boundary and size with distances marked to the nearest foot and bearings to the nearest degree.
 - b. Boundaries, size, and description of purpose of all existing easements and deed-restricted areas of the project property, with distances marked to the nearest foot and bearings to the nearest degree.

8. Existing natural resources and natural or man-made hydrologic features that are located within the Site or receiving discharge from, or that may otherwise be impacted by, the proposed Regulated Activity, including but not limited to:
 - a. All existing natural resources, hydrologic features and drainage patterns including natural waterways, water bodies, wetlands, streams (intermittent and perennial), ponds, lakes, vernal pools, etc., natural infiltration areas and patterns, areas of significant natural evapotranspiration, and other water features and aquatic resources.
 - b. Any existing man-made drainage features, BMPs, Conveyances, facilities, open channels, swales, drainage patterns, or other flood, stormwater, or drainage control features.
 - c. For the Site, discharge points and locations of concentrated flows and their drainage areas.
 - d. For named waters, show names and their watershed boundaries within the Site.
 - e. Special management areas (as per Subsection 301.R).
 - f. For the water bodies, streams and wetlands identified in Subsection 402.C.8.a, label or otherwise show the following attributes, if applicable:
 - i. The Designated Use as determined by PADEP (25 PA Code Chapter 93);
 - ii. Impairments listed on the PADEP "Integrated List" (as updated) and the listed source and cause of impairment;
 - iii. Name, date, and target pollutant(s) for any approved Total Maximum Daily Load (TMDL); and
 - iv. Drainages to water supply reservoirs.
 - g. Areas that are part of the Pennsylvania Natural Diversity Inventory (PNDI) and a list of potential impacts and clearances received (for Regulated Activities involving one (1) acre or more proposed Earth Disturbance).
 - h. Woods, vegetated riparian buffers and other areas of natural vegetation.
 - i. Topography using contours (with elevations based on established benchmarks) at intervals of two (2) feet. In areas of slopes greater than fifteen (15) percent five (5)-foot contour intervals may be used. The datum used and the location, elevation and datum of any benchmarks used shall be shown.
 - j. Areas classified by the Municipality as steep slopes.

- k. Soil names and boundaries, general type of soils with Hydrologic Soil Group noted, and in particular note areas most conducive to infiltration BMPs, such as groups A and B, etc., estimated permeabilities in inches per hour, and location and other results of all soil tests and borings.
 - l. If present, areas with underlying carbonate geologic units, existing sinkholes, subsidence or other karst features, and any associated groundwater recharge areas with increased vulnerability to contamination.
 - m. Any contaminated surface or subsurface areas of the Site.
 - n. Water supply wells –
 - i. Location of existing well(s) on the project property and delineation of the(ir) recharge area(s) (if known), or a fifty (50) foot diameter assumed recharge area;
 - ii. Location of existing well(s) within fifty (50) feet beyond the boundary of the project property boundary (if public water supply is proposed for the Regulated Activity); and
 - o. Current FEMA one hundred (100)-year floodplain boundaries, elevations, and Floodway boundaries for any Special Flood Hazard Areas on or within one hundred (100) feet of the property.
 - p. Boundaries of riparian buffer(s) as required by §27-2292.
 - q. Boundaries of a fifty (50) foot construction non-disturbance buffer to protect streams (intermittent and perennial), wetlands and other water bodies during construction of the proposed Regulated Activity.
9. Location of the proposed Regulated Activity, limits of Earth Disturbance (Disturbed Area), and BMPs and Conveyances relative to the location of existing natural resources and hydrologic features and special management areas resulting from the Site design process of Section 304.
10. Description of existing and proposed ground cover and land use including the type and total area.
11. Existing and proposed man-made features including roads, paved areas, buildings, and other Impervious and Pervious Surfaces on the project property (or an appropriate portion of the property as determined in consultation with the Municipal Engineer) and within the proposed Disturbed Area, and including the type and total area of the following:
- a. Existing Impervious Surfaces [must differentiate Existing Impervious Surfaces installed after July 13, 2004];

- b. Existing Impervious Surfaces proposed to be replaced;
 - c. Existing Impervious Surfaces to be permanently removed and replaced with pervious ground cover;
 - d. New or additional Impervious Surfaces; and
 - e. Percent of the Site covered by Impervious Surfaces for both the existing and proposed Post-construction conditions.
12. The total extent of the upstream area draining through the Site.
13. All BMPs, Conveyances and other stormwater management facilities shall be located on the plan sheets, including design drawings, profile drawings, construction details, materials to be used, description of function, etc.
14. Complete delineation of the flow paths used for calculating the time of concentration for the Predevelopment and Post-construction conditions shall be included.
15. The locations of all existing and proposed utilities, sanitary sewers, on-lot wastewater facilities (including subsurface tanks and leach fields), and water supply lines within the Site and within fifty (50) feet beyond the proposed limits of Earth Disturbance.
16. A grading plan, including all areas of proposed Earth Disturbance and the proposed Regulated Activity and delineating the boundary or limits of Earth Disturbance of the Site. The total Disturbed Area of the Site shall be noted in square feet and acres.
17. Proposed final grade elevations and contours at intervals of two (2) feet. In areas of slopes greater than fifteen (15) percent), five (5)-foot contour intervals may be used.
18. For each proposed BMP and Conveyance included in the SWM Site Plan (including any to be located on any property other than the property being developed by the Applicant), the following shall be included on the SWM Site Plan map or plan sheets:
- a. Identification of the person responsible for ongoing inspections, operation, repair, and maintenance of the BMP or Conveyance after completion of construction.
 - b. Delineation of the land area, structures, Impervious Surfaces, and Conveyances draining to and from the BMP or Conveyance.
 - c. Easements, as per the requirements of Part VII, that shall include:
 - i. Boundaries labeled with distances shown in feet and bearings to the nearest degree;

- ii. Notes or other documentation, as needed, to grant the Municipality the right of access to all BMPs and Conveyances for the purposes of inspection and enforcement of the requirements of this chapter, and any applicable O&M Plans and O&M Agreements;
 - iii. Notes or other documentation, as needed, to grant the Municipality the right of access to all roadways necessary to access all BMPs and Conveyances, where roadways are not to be dedicated to the Municipality;
 - iv. Notes or other documentation as needed to grant the owner of any BMP or Conveyance the right of access for the purpose of inspection, operation, maintenance, and repair of the BMP or Conveyance that is to be owned, operated, and maintained by a person other than the Municipality, and other than the owner of the property on which the BMP or Conveyance is located;
 - v. A minimum 20-foot wide perimeter (or other width as determined in consultation with the Municipal Engineer) around and containing all BMPs and Conveyances;
 - vi. Sufficient vehicular ingress to and egress from a public right-of-way or roadway, as determined in consultation with the Municipal Engineer; and
 - vii. Accompanying notes or other documentation as needed, and in accordance with Part VII describing the type, purpose, and total area of easements, who the easement is granted to, and the rights, duties, and obligations of the parties with respect to every BMP or Conveyance.
- d. Boundaries of land areas (if any) for which deed restrictions are required for the purpose of protecting and prohibiting disturbance to a BMP or Conveyance, indicating the area to which the restriction applies with distances shown in feet and bearings to the nearest degree, and a written description of the type, purpose, and nature of the restriction.
 - e. Other items that may be needed to comply with all other requirements of Part VII.
- D. A written description of the following information shall be included in the SWM Site Plan:
- 1. Existing features, conditions, natural resources, hydrologic features, and special management areas (as listed in Subsection 402.C.8);
 - 2. How the Site design achieves the requirements of Section 304, and if applicable, where they could not be achieved and why;
 - 3. The overall stormwater management design concept for the project and how the Site design achieves the requirements of Sections 301 through 311 of Part III;

4. Proposed features and conditions, proposed erosion, and sediment control features, proposed BMPs, Conveyances, and any other stormwater facilities;
 5. A description of the effect of the project (in terms of flow alteration and runoff volumes, water quality and peak flows, etc.) on existing natural resources, hydrologic features and special management areas, adjacent and downgradient properties, and any existing municipal or other stormwater Conveyance system(s), that may be affected by or receive runoff from the Regulated Activity (whether located within or outside of the area of the Regulated Activity), and specifics of how erosion, water quality and flow impacts will be avoided or otherwise mitigated;
 6. Proposed nonpoint source pollution controls and justification and confirmation that the proposed project will not result in any increased pollutant loadings to any existing stream or stream impairment identified by PADEP, or to any receiving water body;
 7. Expected project time schedule; and
 8. Description of construction stages or project phases, if so proposed.
- E. A detailed Site evaluation conducted by a qualified Licensed Professional for projects proposed in areas of carbonate geology or karst topography, and other environmentally sensitive areas, such as contaminated sites and brownfields, as described in Subsections 301.P and 301.Q of this chapter.
- F. Stormwater runoff design computations and documentation, such as hydrologic, hydraulic, and structural computations, assumptions, BMP loading ratios, etc., consistent with the guidelines and criteria presented in the PA BMP Manual (as amended) or other guidance acceptable to the Municipal Engineer, and used in the design of the BMPs, Conveyances and other features proposed to be utilized for stormwater management, or as otherwise necessary to demonstrate that the requirements of this chapter have been met, specifically including the requirements in Sections 301 and 304 through 309.
- G. Inspections, Operation and Maintenance Requirements

The following documents shall be prepared and submitted to the Municipality for review and approval as part of the SWM Site Plan, in accordance with the requirements of Part VII, for each BMP and Conveyance included in the SWM Site Plan (including any to be located on any property other than the property being developed by the Applicant):

1. An O&M Plan;
2. An O&M Agreement;
3. Any easement agreements that are needed to ensure access, inspection, maintenance, operation, repair and permanent protection of any permanent BMP(s) and Conveyances associated with the Regulated Activity;

4. Any written deed, deed amendment or equivalent document (if needed) to be recorded against a subject property, as shown on the SWM Site Plan maps or plan sheets, or recorded plan sheets for the purpose of protecting and prohibiting disturbance to a BMP or Conveyance; and
 5. Written approval, easement agreements, or other documentation for discharges to adjacent or downgradient properties when required to comply with Subsection 301.G and Part VII of this chapter.
- H. An Erosion and Sediment Control Plan, where applicable, as prepared for and submitted to the Conservation District and/or Municipality. A letter of adequacy from the Conservation District, if applicable, must be submitted to the Municipality prior to (or as a condition of) the Municipality's final approval of the SWM Site Plan.
 - I. A Highway Occupancy Permit from the Pennsylvania Department of Transportation (PennDOT) District Office must be submitted to the Municipality prior to (or as a condition of) the Municipality's final approval of the SWM Site Plan when utilization of a PennDOT storm drainage system is proposed.

Section 403. SWM Site Plan Submission

A complete SWM Site Plan that complies with all applicable provisions of Section 402 shall be submitted to the Municipality for review and approval, as follows:

- A. The SWM Site Plan shall be coordinated with the applicable State and Federal permit process and the Municipal SALDO review process. All permit approvals or letters of adequacy not yet received by the Applicant at the time of submittal of the SWM Site Plan to the Municipality must be submitted to the Municipality prior to (or as a condition of) the Municipality's final approval of the SWM Site Plan.
- B. For projects that require SALDO approval, the SWM Site Plan shall be submitted by the Applicant as part of the preliminary plan submission where applicable for the Regulated Activity.
- C. For Regulated Activities that do not require SALDO approval, the SWM Site Plan shall be submitted by the Applicant for review in accordance with instructions from the Municipality.
- D. The number of copies of the SWM Site Plan to be submitted by the Applicant for review shall be in accordance with instructions from the Municipality.
- E. The corresponding review fee shall be submitted to the Municipality simultaneously with the SWM Site Plan, per the Municipality's fee schedule.
- F. Any submissions to the Municipality that are found to be incomplete shall not be accepted for review and shall be returned to the Applicant within 30 days with a notification in writing of the specific manner in which the submission is incomplete.

- G. Financial security, per the requirements of Section 110, shall be submitted to the Municipality prior to approval of the SWM Site Plan.

Section 404. SWM Site Plan Review

- A. The SWM Site Plan shall be submitted to the Municipality for review by the Municipal Engineer for consistency with this chapter and the respective PA Act 167 Stormwater Management Plan. The Municipal Engineer will review the SWM Site Plan for any subdivision or land development for compliance with this chapter and the Municipal SALDO provisions not otherwise superseded by this chapter.
- B. If applicable, the Applicant shall have received a “letter of adequacy” from the Conservation District or other PADEP approval for the proposed Regulated Activity prior to (or as a condition of) final approval by the Municipality.
- C. The Municipal Engineer will notify the Applicant and the Municipality in writing, within 30 days calendar days, whether the SWM Site Plan is consistent with the requirements of this chapter. If the SWM Site Plan involves a subdivision and land development Plan, the notification shall occur within the time period allowed by the MPC (as amended). If a longer notification period is provided by other statute, regulation, or ordinance, the Applicant will be so notified by the Municipality.
 - 1. If the Municipal Engineer determines that the SWM Site Plan is consistent with this chapter, the Municipal Engineer shall forward a letter of consistency to the Municipality, who shall then forward a copy to the Applicant.
 - 2. The Municipality may approve the SWM Site Plan with conditions reasonably defined to make the SWM Site Plan compliant with the terms of this chapter, and, if so, shall provide the conditions for approval in writing.
 - 3. If the Municipal Engineer determines that the SWM Site Plan is inconsistent or noncompliant with this chapter, the Municipal Engineer will forward a letter to the Municipality, with a copy to the Applicant citing the reason(s) and specific chapter sections for the inconsistency or noncompliance. Inconsistency or noncompliance may be due to inadequate information to make a reasonable judgment as to compliance with this chapter. Any SWM Site Plans that are inconsistent or noncompliant may be revised by the Applicant and resubmitted in accordance with Section 406 when consistent with this chapter. Resubmission will commence a new municipal review and notification time period.
- D. The Municipality will not grant final approval to any proposed subdivision, land development, or Regulated Activity specified in this chapter if the SWM Site Plan has been found to be inconsistent with this chapter.

- E. All required permits from PADEP shall be obtained and submitted to the Municipality prior to (or as a condition of) final approval of any proposed subdivision, land development, or other Regulated Activity by the Municipality.
- F. No building permits for any Regulated Activity will be approved by the Municipality if the SWM Site Plan has been found to be inconsistent with this chapter, as determined by the Municipal Engineer. All required permits from PADEP shall be obtained prior to issuance of a building permit.
- G. The Municipality's approval of a SWM Site Plan shall be valid for a period not to exceed 5 years commencing on the date that the Municipality approved the SWM Site Plan. If stormwater management facilities included in the approved SWM Site Plan have not been constructed, or if constructed, As-Built Plans of these facilities have not been approved within this 5 year time period, then the Applicant may seek reinstatement of approval of the expired SWM Site Plan. If the Municipality determines that the expired SWM Site Plan is consistent and compliant with current regulations and requirements, then the expired SWM Site Plan will be reinstated; otherwise, it will be rejected. The Applicant will be prohibited from conducting any Regulated Activity until a reinstated or newly approved SWM Site Plan is obtained in accordance with Section 406 of this chapter.
- H. All or portions of the final approved SWM Site Plan shall be recorded (as "recorded plans") per the instructions of the Municipality.
- I. Upon completion of construction, the Applicant shall be responsible for completing final As-Built Plans of all BMPs, Conveyances, or other stormwater management facilities included in the approved SWM Site Plan as per the requirements of Section 502 of this chapter.

Section 405. Revision of SWM Site Plans

- A. A submitted SWM Site Plan under review by the Municipality shall be revised and resubmitted for any of the following reasons:
 - 1. A change in stormwater management BMPs, Conveyances, facilities, or techniques;
 - 2. Relocation or redesign of stormwater management BMPs, Conveyances, or facilities; or
 - 3. Soil or other Site conditions are not as stated on the SWM Site Plan as determined by the Municipal Engineer, and the new conditions necessitate design changes.

The revised SWM Site Plan shall be resubmitted in accordance with Section 403 and subject to review as specified in Section 404 of this chapter.

- B. A revision to an approved SWM Site Plan shall be submitted to the Municipality, accompanied by the applicable municipal review fee.

Section 406. Resubmission of Inconsistent or Noncompliant SWM Site Plans

Any SWM Site Plan deemed inconsistent or noncompliant may be revised and resubmitted with the revisions addressing the Municipal Engineer's concerns documented in writing. The submission shall be addressed to the Municipality in accordance with Section 403 of this chapter, distributed accordingly, and be subject to review as specified in Section 404 of this chapter. The applicable municipal review fee shall accompany a resubmission of a SWM Site Plan previously determined to be inconsistent or noncompliant.

PART V – PERFORMANCE AND INSPECTION OF REGULATED ACTIVITIES, AND FINAL AS-BUILT PLANS

Section 501. Performance and Inspection of Regulated Activities

- A. All Regulated Activities shall be conducted, operated, and maintained in accordance with the requirements set forth in Parts III, VII, and VIII of this chapter. When a SWM Site Plan is required by this chapter, all Regulated Activities shall be performed in accordance with the requirements of the final approved SWM Site Plan.
- B. The Municipal Engineer or other municipal designee shall be provided access to the Site to inspect all phases of the erosion and sediment control measures and installation of the permanent BMPs and Conveyances at such times as deemed appropriate by the Municipal Engineer or other municipal designee.
- C. Periodic inspections may be made by the Municipal Engineer or other designee during construction. A set of design plans approved by the Municipality shall be on file and available for viewing at the Site throughout the duration of the construction activity.
- D. Inspections, including but not limited to a final inspection, of all constructed BMPs, Conveyances, or other stormwater facilities, and related improvements may be conducted by the Municipal Engineer or other designee to confirm compliance with this chapter and with the final approved SWM Site Plan prior to the issuance of any occupancy permit, use permit, or other form of final approval of the project by the Municipality.
- E. If an NPDES Permit for Stormwater Discharges Associated with Construction Activities was required for the Regulated Activity, a Notice of Termination (NOT) approval must be obtained upon completion of construction prior to final approval of the project by the Municipality.
- F. Upon completion of construction, every permanent stormwater BMP, Conveyance, or other Stormwater Management Facility constructed or used as part of the Regulated Activity shall be operated, maintained, and inspected by the Landowner, or other designated person, in accordance with the O&M Plan and O&M Agreement approved by the Municipality.

- G. The Municipality or its designee may periodically inspect any permanent stormwater BMP, Conveyance or Stormwater Management Facility for compliance with this chapter, an approved O&M Plan, or an approved O&M Agreement, per the provisions of Part IX. The Municipality may inspect at any time it has reason to believe a violation exists. The Municipality may pursue enforcement for violations consistent with the provisions of Part IX.

Section 502. Final As-Built Plans

- A. For Regulated Activities involving one (1) acre or more of Earth Disturbance, the Applicant shall provide to the Municipality final As-Built Plans (signed and sealed by a qualified Licensed Professional) of all BMPs, Conveyances, other stormwater facilities, and related improvements shown in the final approved SWM Site Plan.
- B. The final As-Built Plans shall include the following for all BMPs, Conveyances, other stormwater facilities and related improvements:
1. The location, elevations, dimensions, and as-built conditions of all BMPs, Conveyances, other stormwater facilities, and related improvements including topographic contours and all typical details for storm drainage and conveyance systems, stormwater management facilities and Impervious Surfaces (existing, proposed, or constructed) included in the approved SWM Site Plan. The latitude and longitude coordinates for all permanent SWM BMPs must also be submitted at the central location of the BMPs; and
 2. Explanation of any discrepancies or variations from the final approved SWM Site Plan, other related approved construction plans, calculations, and specifications (and approved revisions thereto).
- C. The final As-Built Plans shall include a certification of completion signed and sealed by a qualified Licensed Professional verifying that all permanent BMPs and Conveyances have been constructed according to the final approved SWM Site Plan and related approved construction plans, calculations, and specifications.
- D. All areas of the Regulated Activity draining to BMPs must be stabilized prior to submittal of the As-Built Plans.
- E. After receipt of the As-Built Plans by the Municipality, the Municipality or its designee may review the As-Built Plans for consistency with this chapter, the final approved SWM Site Plan, other related approved construction plans, and subsequent approved revisions thereto, as well as actual conditions at the Site, and the Municipality may conduct a final inspection, as per Subsection 501.D.
- F. The As-Built Plans must be received, reviewed, and determined to be acceptable by the Municipality prior to:
1. Close out of the drainage permit or other close out of the project by the Municipality;

2. Release of the financial security or other performance guarantee; and
 3. Dedication of the stormwater facilities to the Municipality, or conveyance to a homeowners association, or other person responsible for operation, maintenance, and repair.
- G. Final occupancy permit(s) or Use Permit or other final approval to use or operate the constructed improvement may not be issued by the Municipality until the final As-Built Plans have been accepted.
- H. Upon final acceptance of the final As-Built Plans by the Municipality, the Applicant shall review and, if required by the Municipality, revise and re-record the O&M Plan and the O&M Agreement to reflect the final as-built conditions and information for each permanent BMP or Conveyance, in accordance with the requirements of Part VII.
- I. All or portions of the final As-Built Plans shall be recorded if required by the Municipality.

PART VI – FEES AND EXPENSES

Section 601. Municipality SWM Site Plan Review and Inspection Fees

- A. The Board of Commissioners, by resolution, shall establish a review and inspection fee schedule based on the size of the regulated activity and based on the municipality's costs for reviewing SWM site plans, O&M plans and agreements and as-built plans, and conducting inspections pursuant to § 26-501. The municipality shall periodically update the review and inspection fee schedule to ensure that review costs are adequately reimbursed. The applicant shall be responsible for reimbursing the Township for all of the Township's costs incurred in reviewing the application and accompanying plans and documents, including the Township Engineer and Solicitor fees. The cost of inspections will be billed to the applicant as inspections are completed at a rate as set forth from time to time by resolution of the Board of Commissioners.
- B. All fees listed in § 26-602A shall be paid by the applicant at the time of SWM site plan submission.

Section 602. Expenses Covered by Fees

- A. The fees required of the Applicant by this chapter shall at a minimum cover:
1. Administrative costs;

2. The review of the SWM Site Plan by the Municipality, the Municipal Engineer and other municipal consultants;
 3. Coordination and meetings with the Applicant;
 4. The inspection of erosion and sediment control measures, BMPs, Conveyances and other related improvements during construction;
 5. Review of project communications, reports, and additional supporting information;
 6. Other Site inspections;
 7. The final inspection upon completion of the BMPs, Conveyances, and other stormwater management facilities and related improvements presented in the SWM Site Plan; and
 8. Review of final As-Built Plan submission and revised calculations, and inspections as needed.
- B. The Applicant shall also reimburse all expenses incurred by the Municipality for any additional work or municipal consultant fees required to enforce any permit provisions regulated by this chapter, correct violations, and ensure proper completion of remedial actions.

PART VII – OPERATION AND MAINTENANCE (O&M) RESPONSIBILITIES AND EASEMENTS

Section 701. General Requirements for Protection, Operation and Maintenance of Stormwater BMPs and Conveyances

The following shall apply to all Regulated Activities in accordance with the requirements of the subsequent sections of this Part VII.

- A. Continuing operations and maintenance responsibilities of all permanent BMPs, Conveyances, or other stormwater management facilities shall be reviewed and approved by the Municipality along with the SWM Site Plan. The Municipality may require an offer of a dedication of such facilities as part of the requirements for approval of the SWM Site Plan. Such a requirement is not an indication that the Municipality will accept the facilities. The Municipality reserves the right to accept or reject the operations and maintenance responsibility for any portion of or all of the BMPs, Conveyances or other stormwater controls and facilities.
- B. An Operation and Maintenance (O&M) Plan shall be submitted to the Municipality for review and approval for all existing and proposed permanent BMPs and man-made Conveyances or other stormwater facilities identified in the

SWM Site Plan. Multiple BMPs or Conveyances may be addressed by a combined O&M Plan where all such facilities are similar in O&M requirements and ownership.

- C. The O&M Plan(s) and O&M Agreement(s) shall name the person identified in the SWM Site Plan who shall be the owner of and be responsible for ongoing inspections, operation, repair, and maintenance of each BMP or Conveyance following completion of construction.
- D. For any BMP or man-made Conveyance (including any to be located on any property other than the property being developed by the Applicant) to be owned by a person other than the Municipality:
1. An O&M Agreement shall be submitted to the Municipality for review and approval; and
 2. The O&M Plan shall be attached to, incorporated within, and recorded as a public record along with a fully executed O&M Agreement, all of which shall be recorded as a restrictive covenant that runs with the land and shall be binding upon the Landowner and any heirs, administrators, successors in interest or assigns of the Landowner.
- E. The following shall be provided for all BMPs and Conveyances (including any to be located on any property other than the property being developed by the Applicant) by an O&M or other agreement or by otherwise establishing covenants, easements, deed restrictions, or by dedication to the Municipality:
1. Permanent protection of the BMP or Conveyance from disturbance or alteration;
 2. Right of entry and access for the Municipality for inspection and enforcement of this chapter (including Subsection 903.G) and any applicable O&M Plan or O&M Agreement; and
 3. Right of entry and access for the person owning the BMP or Conveyance and responsible for fulfilling the O&M requirements when that person is not the Municipality and is different from the owner of the property on which the BMP or Conveyance is located (such as may be applicable for Subsection 301.G of this chapter).
- F. All O&M and other agreements, covenants, easements, and deed restrictions shall:
1. Be submitted to the Municipality for review and approval;
 2. Be recorded as a public record, upon approval, against each parcel(s) which is part of the SWM Site Plan or otherwise contains any BMP

or Conveyance comprising part of the Regulated Activity which is the subject of an O&M Agreement; and

3. Run with the land and be binding upon the Landowner, its heirs, administrators, successors in interest, and assigns.
- G. The materials, documents and content required by this Part VII may be prepared in conjunction with and incorporated with similar materials, documents and content required for other permit or approval applications, such as those required by PADEP for the Post Construction Stormwater Management Plan.

Section 702. Operation and Maintenance Plans

The following items shall be included in the O&M Plan, unless otherwise approved by the Municipal Engineer:

- A. A plan sheet(s) or map(s) showing each BMP and man-made Conveyance and which shall include, but not be limited to:
1. Property(ies) identification (owner name and address; and property address and/or lot and/or tax parcel number, etc.), property boundaries and tax parcel number of the land parcel on which the BMP or Conveyance is located.
 2. Name, address, phone number, date prepared, signature and seal of the Licensed Professional responsible for preparation of the plan sheet or map.
 3. Clear identification of the location, dimensions, and function of each BMP or Conveyance covered by the O&M Plan.
 4. The location of each BMP and Conveyance relative to roadways, property boundaries, or other identifiable landmarks and existing natural drainage features such as streams, lakes, ponds, or other bodies of water within the immediate vicinity of, or receiving discharge from, the BMP or Conveyance.
 5. Delineation of the land area, structures, Impervious Surfaces and Conveyances draining to and from the BMP.
 6. Representative elevations and/or topographic contours at intervals of two (2) feet, or other as acceptable to the Municipal Engineer.
 7. Other features including FEMA floodplain and floodway boundaries, sinkholes, etc. located within the immediate proximity of each BMP and Conveyance.
 8. Locations of areas of vegetation to be managed or preserved that function as a BMP or Conveyance.

9. The locations of all surface and subsurface utilities, on-lot wastewater facilities, sanitary sewers, and water lines within twenty (20) feet of each BMP or Conveyance.
10. The following as it pertains to any easements, covenants and deed restrictions established for each applicable BMP or Conveyance:
 - a. Boundaries delineated with bearings and distances shown that encompass the BMP or Conveyance and that includes a 20-foot perimeter area surrounding these features and sufficient vehicular ingress to and egress from a public right-of-way and roadway;
 - b. Labels specifying the type and purpose of the easement, covenant, or deed restriction and who it benefits; and
 - c. Labels with reference to any corresponding easement agreement, covenant, deed restriction or other document to be recorded.
11. The plan sheet or map shall be prepared at sufficient scale for municipal review, and ultimately for the use by the person responsible for operation and maintenance, and shall also be prepared at a legible scale that meets the requirements for recordation along with (and as an attachment to) the O&M Agreement and O&M Plan at the Montgomery County Office of the Recorder of Deeds.

B. The following information shall be included in the O&M Plan and written in a manner consistent with the knowledge and understanding of the person who will be responsible for the maintenance activities:

1. The name and address of the following:
 - a. Property(ies) on which each BMP or Conveyance is located;
 - b. Owner of the property;
 - c. Owner of each stormwater BMP or Conveyance who is responsible for implementation of the O&M Plan;
 - d. Person responsible for maintaining adequate liability insurance and payment of taxes; and
 - e. Person preparing the O&M Plan.
2. A description of each BMP and Conveyance and how the BMPs and Conveyances are intended to function.
3. A description of actions necessary to operate, inspect, and maintain each BMP or Conveyance, including but not limited to:

- a. Lawn care, vegetation maintenance, landscaping, and planting;
 - b. Clean out of accumulated debris and sediment (including from grates, trash racks, inlets, etc.); and
 - c. Other anticipated periodic maintenance and repair.
4. The following statement shall be included:

“The Landowner acknowledges that, per the provisions of the Municipality’s Stormwater Management Ordinance, it is unlawful to modify, remove, fill, landscape, alter or impair the effectiveness of, or place any structure, other vegetation, yard waste, brush cuttings, or other waste or debris into any permanent stormwater management BMP or Conveyance described in this O&M Plan or to allow the BMP or Conveyance to exist in a condition which does not conform to this O&M Plan, without written approval from the Municipality.”

- 5. Inspection and maintenance schedules.
 - 6. Explanation of the purpose and limitations of any easements, covenants, or deed restrictions associated with any BMP or Conveyance that are to be recorded against the property.
- C. A statement that no BMP or man-made Conveyance may be used by the owner or others for any purpose other than its intended stormwater control function, or, if approved by the Municipal Engineer, a statement of specific allowable uses of the BMP (i.e., recreational benefits that maybe associated with certain BMPs owned by a homeowners association, or allowable uses by an individual residential Landowner).
- D. A statement that establishes a reasonable time frame for remedy of deficiencies found by the owner during their inspections.
- E. Language needed to fulfill the requirements of Subsections 705.B, 705.C, and 705.D of this chapter.

Section 703. Operation and Maintenance Agreements

- A. An O&M Agreement shall be required for any BMP or man-made Conveyance to be owned by a person other than the Municipality, and the Agreement shall:
 - 1. Be between the owner of the BMP or Conveyance and the Municipality, shall be approved by the Township Solicitor and based upon the form, with details subject to change upon Township Solicitor review, within Appendix E;

2. Incorporate the approved O&M Plan(s) for all BMPs or Conveyances to be covered by the O&M Agreement;
 3. Set forth the rights, duties, and obligations of the owner of the BMP or Conveyance and the Municipality, and be consistent with the approved O&M Plan(s);
 4. Be recorded as a deed restriction or restrictive covenant that runs with the land and shall be binding upon the Landowner, its heirs, administrators, successors in interest, and assigns;
 5. Be submitted to the Municipality for review prior to approval of the SWM Site Plan;
 6. Upon approval by the Municipality, be signed by the designated owner of the BMP or Conveyance and submitted for signature by the Municipality; and
 7. When fully executed, be recorded by the Landowner at the Montgomery County Office of the Recorder of Deeds following municipal approval of the O&M Plan and prior to the start of construction.
- B. Other items or conditions may be required by the Municipality to be included in the O&M Agreement where determined necessary by the Municipality to guarantee the satisfactory operation and maintenance of all permanent BMPs and Conveyances.
- C. After approval of the final As-Built Plans per the requirements of Part V, the Applicant shall review and, if necessary and if required by the Municipality, revise and re-record the O&M Plan and O&M Agreement to reflect the final as-built conditions of each BMP and Conveyance if different from the information included in the original recorded documents.

Section 704. Easements and Deed Restrictions

- A. Easements shall be established in connection with any Regulated Activity for all permanent BMPs and Conveyances that will not be dedicated to or otherwise owned by the Municipality, (including any to be located on any property other than the property being developed by the Applicant), and shall:
1. Include all land area occupied by each BMP or Conveyance;
 2. Include a 20-foot wide perimeter (or other width as determined in consultation with the Municipal Engineer) surrounding the feature(s);

3. Provide sufficient vehicular ingress and egress from a public right-of-way and roadway;
 4. Permanently protect every BMP and Conveyance from disturbance or alteration where not otherwise protected by a recorded O&M Agreement, covenant, deed restriction or other means;
 5. Grant the Municipality the right, but not the duty, to access every BMP and Conveyance from a public right-of-way or public roadway to conduct periodic inspections and to undertake other actions that may be necessary to enforce the requirements of this chapter, or of any applicable O&M Plan or O&M Agreement; where roadways will not be dedicated to the Municipality, the Municipality shall be granted access to the private roadways as necessary to access every BMP and Conveyance;
 6. Grant the owner of each BMP and Conveyance the right to access, inspect, operate, maintain, and repair the BMP or Conveyance when the feature is to be owned, operated, and maintained by a person other than the Municipality and other than the owner of the parcel on which it is located;
 7. Be shown, with bearings and distances noted, on the SWM Site Plan map/plan sheets, O&M Plan map/plan sheets, final As-Built Plans, and be signed and sealed by a qualified Licensed Professional;
 8. Include language legally sufficient to ensure that the easement shall run with the land and bind the Landowner granting the easement, its heirs, administrators, successors in interest and assigns, into perpetuity; and
 9. Be recorded at the Montgomery County Office of the Recorder of Deeds following municipal approval and prior to the start of construction.
- B. For any BMP or Conveyance to be owned by a person other than the Municipality or the Landowner owning the parcel upon which a BMP or Conveyance is located, an easement agreement shall be prepared and executed between the Landowner and the owner of the BMP or Conveyance which shall:
1. Describe the ownership interests of all parties to the easement agreement, including the ownership of the BMP or Conveyance;
 2. Include a written legal (metes and bounds) description of the easement area, with reference to a recorded plan sheet showing the legal boundaries of the easement area (or an accompanying plan sheet/map), signed, and sealed by a qualified Licensed Professional;
 3. Grant an easement from the Landowner to the owner of each BMP and Conveyance, establishing the right and obligation to occupy, access, inspect, operate, maintain, and repair the BMP or Conveyance;

4. Include a description of the purpose of the easement and the responsibilities of the parties involved;
5. Incorporate by reference or be recorded with, the corresponding O&M Plan and O&M Agreement;
6. Restrict the Landowner's use of the easement area of the parcel on which the BMP or Conveyance is located, consistent with the rights granted to the owner of the BMP or Conveyance;
7. Be submitted to the Municipality for review and approval prior to approval of the SWM Site Plan;
8. Upon approval by the Municipality, be signed by the owner of the BMP(s) or Conveyance(s) and the Landowner and submitted for signature by the Municipality;
9. Include language legally sufficient to ensure that the easement will run with the land affected by the easement and that the easement agreement is binding upon the parties to the easement agreement, their heirs, administrators, successors in interest and assigns, into perpetuity;
10. Contain additional provisions or information as required by the Municipality; and
11. When fully executed, be recorded by the Landowner at the Montgomery County Office of the Recorder of Deeds against all parcels affected by the terms of the easement agreement, within 30 days of the Municipality's approval of the corresponding O&M Plan.

C. For any BMP or Conveyance which is designed to receive runoff from another parcel or parcels and which is owned by the Landowner of the parcel upon which the BMP or Conveyance is located, in addition to any easement or easement agreement required pursuant to Subsection 704 A. or B., an easement agreement shall be prepared and executed between the Landowner of the parcel or parcels draining to the BMP or Conveyance and the owner of the BMP or Conveyance. This easement agreement shall:

1. Describe the ownership interests of all parties to the easement agreement, including the ownership of all affected parcels and of the BMP or Conveyance;
2. Provide for the grant of a drainage easement from the owner of the BMP or Conveyance to the Landowner of the parcel(s) draining to the BMP, which shall extend from the shared parcel boundary(ies) to the receiving BMP and shall include the connecting flow path(s) or Conveyance;

3. Include a written legal (metes and bounds) description of the easement area, with reference to a recorded plan sheet showing the legal boundaries of the easement area (or an accompanying plan sheet/map), signed, and sealed by a Licensed Professional.
4. Incorporate by reference or be recorded with the corresponding O&M Plan and O&M Agreement;
5. State that the purpose of the easement agreement is to ensure the continuous right of the discharging parcel to discharge onto the parcel containing the BMP and into the BMP or Conveyance;
6. Restrict the BMP or Conveyance owner's use of the easement area of the parcel upon which the BMP or Conveyance is located, consistent with the purpose of the easement granted;
7. Establish the duty and responsibility of the Landowner of the parcel or parcels draining to the BMP or Conveyance to maintain the existing drainages on the discharging parcel or parcels as designed and constructed to discharge to the receiving BMP;
8. Include language legally sufficient to ensure that the easement will run with the land and will bind all parties to the easement agreement, their heirs, administrators, successors in interest and assigns, into perpetuity;
9. Be submitted to the Municipality for review and approval prior to approval of the SWM Site Plan;
10. Contain all additional provisions or information as the Municipality may require upon review; and
11. Be executed by the parties to the easement agreement and recorded at the Montgomery County Recorder of Deeds Office against the draining parcel(s) and the parcel upon which the BMP or Conveyance is located within 30 days of the Municipality's approval of the corresponding O&M Plan.

D. For any area(s) shown on the SWM Site Plan maps/plan sheets or As-Built Plan sheets as requiring, or area(s) that is otherwise determined to require, deed restriction(s) for the purpose of protecting and prohibiting disturbance to a BMP or Conveyance, such deed restrictions will be incorporated into a written deed, restrictive covenant, or equivalent document. The deed or other document shall:

1. Include a clear and understandable description of the purpose, terms and conditions of the restricted use;
2. Include the written legal description (metes and bounds description) of the area to which the restrictions apply that is consistent with the boundary shown on the O&M plan sheets and SWM Site Plan maps/plan sheets;

3. Make reference to any corresponding O&M Plan(s) and O&M Agreement(s);
4. Include language legally sufficient to ensure that the terms of the restriction run with the land and shall be binding upon the Landowner, its heirs, administrators, successors in interest, and assigns;
5. Be submitted to the Municipality for review and approval prior to approval of the SWM Site Plan;
6. Upon approval by the Municipality, be signed by the Landowner and owner of the BMP or Conveyance and submitted to the Municipality; and
7. Be fully executed and recorded at the Montgomery County Office of the Recorder of Deeds within 30 days of the Municipality's approval of the O&M Plan.

Section 705. Other Post-construction Responsibilities

- A. The provisions of Section 804 of this chapter shall apply to any permanent BMP or Conveyance that is constructed as part of an approved SWM Site Plan or covered by an approved O&M Plan.
- B. The person responsible for the operation and maintenance of a BMP or Conveyance shall make records of the installation and of all maintenance and repairs, and shall retain the records for at least 10 years. These records shall be submitted to the Municipality.
- C. Upon final inspection, the Municipality shall inform the person responsible for the operation and maintenance whether the submission of periodic (annual or other frequency) inspection and maintenance reports will be required.
- D. The owner of each BMP and Conveyance shall keep on file with the Municipality the name, address, and telephone number of the person responsible for maintenance activities and implementation of the O&M Plan. In the event of a change, new information shall be submitted by the BMP or Conveyance owner to the Municipality within 15 working days of the change.

Section 706. Municipal Stormwater Control and BMP Operation and Maintenance Fund and Inspection and BMP Operations and Maintenance Requirements

- A. The municipality shall inspect SWM BMPs, facilities and/or structures installed under this chapter according to the following frequencies, at a minimum, to ensure the BMPs, facilities and /or structures continue to function as intended. Persons installing stormwater controls or BMPs shall be required to pay a specified amount to the Municipal Stormwater Control and BMP Operation and Maintenance Fund to help cover the costs of periodic inspections and

maintenance expenses. This is to be paid in a manner specified by the Municipality. The amount of the deposit shall be determined as follows:

1. If the BMP or Conveyance is to be privately owned and maintained, the deposit shall cover the cost of periodic inspections performed by the Municipality, as estimated by the Municipal Engineer, for a period of 25 years, at the following minimum frequencies:
 - 1) Annually for the first 5 years.
 - 2) Once every 3 years thereafter.
 - 3) During or immediately after the cessation of a 25-year or greater storm, as determined by the Municipal Engineer.
 - 4) The Municipal Engineer may request that the landowners or landowner's designee submit an inspection report after the cessation of a 10-year or greater storm event if there is reason to believe that a BMP has sustained damage that impacts its ability to function as designed and if the BMP's failure would result in damage to downgradient properties.
 2. If the BMP or Conveyance is to be owned and maintained by the Municipality, the deposit shall cover the estimated costs for maintenance and inspections for 25 years. The Municipality will establish the estimated costs utilizing information submitted by the Applicant. Inspections shall be conducted at the minimum frequencies listed in above referenced section.
 3. The above referenced inspections shall be conducted during or immediately following precipitation events or in dry weather conditions if the BMP design parameters include dewatering within a specified period of time. A written inspection report shall be created to document each inspection. The inspection report shall contain the date and time of the inspection, the individual(s) who completed the inspection, the location of the BMP, Stormwater Management Facility or structure inspected, observations on performance, and recommendations for improving performance, if applicable.
 4. The amount of the deposit to the fund shall be converted to present worth of the annual series values. The Municipality shall determine the present worth equivalents, which shall be subject to the approval of the Governing Body.
- B. If a BMP or Conveyance is proposed that also serves as a recreational facility (e.g., ball field or lake), the Municipality may reduce or waive the amount of the maintenance fund deposit based upon the value of the land for public recreational purpose.
- C. If at some future time, a BMP or Conveyance (whether publicly or privately owned) is eliminated due to the installation of storm sewers or other storage facility, the unused portion of the maintenance fund deposit will be applied to the cost of abandoning or demolishing the facility and connecting to the storm sewer system or other facility. Any amount of the deposit remaining after the costs of abandonment or demolition will be used for inspection, maintenance, and operation of the receiving stormwater management system.

- D. If a BMP or Conveyance is accepted by the Municipality for dedication, the Municipality may require persons installing the BMP or Conveyance to pay a specified amount to the Municipal Stormwater Control and BMP Operation and Maintenance Fund to help cover the costs of operations and maintenance activities. The amount may be determined as follows:
1. The amount shall cover the estimated costs for operations and maintenance for 25 years, as determined by the Municipality, and
 2. The amount shall then be converted to present worth of the annual series values.
- E. The Municipality may require Applicants to pay a fee to the Municipal Stormwater Control and BMP Operation and Maintenance Fund to cover:
1. Inspections
 2. Long-term maintenance of BMP(s) or Conveyance(s), and
 3. Stormwater-related problems which may arise from the land development and Earth Disturbance.

PART VIII – PROHIBITIONS

Section 801. Prohibited Discharges

- A. Any drain or Conveyance, whether on the surface or subsurface, that allows any non-stormwater discharge including sewage, process wastewater, and wash water to enter the Municipality's separate storm sewer system, Riparian Buffers, wetlands, or other Waters of the Commonwealth is prohibited.
- B. No person shall allow, or cause to allow, discharges into the Municipality's separate storm sewer system or the Waters of the Commonwealth that are not composed entirely of stormwater, except:
1. As provided in Subsection 801.C below; and
 2. Discharges allowed under a State or Federal permit.
- C. The following discharges are authorized unless they are determined by the Municipality to be significant contributors to pollution to the Municipality's separate storm sewer system or to the Waters of the Commonwealth:
1. Discharges from fire fighting activities;
 2. Potable water sources including water line and fire hydrant flushings, if such discharges do not contain detectable concentrations of Total Residual Chlorine (TRC);

3. Non-contaminated irrigation drainage water;
4. Non-contaminated HVAC condensation and water from geothermal systems;
5. Springs;
6. Water from crawl space pumps;
7. Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spill material has been removed) and where detergents are not used;
8. Diverted stream flows;
9. Flows from riparian habitats and wetlands;
10. Uncontaminated water from foundations or from footing drains;
11. Lawn watering;
12. Uncontaminated groundwater;
13. Residential (i.e., not commercial) vehicle wash water where cleaning agents are not utilized;
14. Routine external building washdown (which does not use detergents or other compounds); and
15. Non-contaminated hydrostatic test water discharges, if such discharges do not contain detectable concentrations of TRC.

D. In the event that the Municipality determines that any of the discharges identified in Section 801.C significantly contribute pollutants to the Municipality's separate storm sewer system or to the Waters of the Commonwealth, or is notified of such significant contribution of pollution by PADEP, the Municipality will notify the responsible person to cease the discharge.

E. Upon notice provided by the Municipality under Section 801.D, the discharger shall, within a reasonable time period, as determined by the Municipality consistent with the degree of pollution caused by the discharge, cease the discharge.

F. Nothing in this section shall affect a discharger's responsibilities under State law.

Section 802. Prohibited Connections

The following connections are prohibited, except as provided in Section 801.C above:

- A. Any drain or Conveyance, whether on the surface or subsurface, that allows any non-stormwater discharge, including sewage, process wastewater, and wash water to enter a separate storm sewer system, and any connections to the separate storm sewer system from indoor drains and sinks. Any drain or Conveyance that delivers non-stormwater discharges directly into wetlands, Riparian Buffers, or other Waters of the Commonwealth is prohibited.
- B. Any drain or Conveyance connected from a commercial or industrial land use to a separate storm sewer system, which has not been documented in plans, maps, or equivalent records and approved by the Municipality.

Section 803. Roof Drains and Sump Pumps

- A. Roof drains and sump pump discharges shall not be connected to sanitary sewers.
- B. Roof drain, sump pump, foundation, and footing drain discharges:
 - 1. To the maximum extent practicable, shall discharge to infiltration or vegetative BMPs, or to vegetated or other areas with adequate capacity;
 - 2. May be connected to streets, storm sewers, or roadside ditches only if determined necessary or acceptable by the Municipal Engineer; and
 - 3. Shall be considered in stormwater management calculations to demonstrate that Conveyance and receiving facilities have adequate capacity.

Section 804. Alteration of BMPs

- A. No person shall modify, remove, fill, landscape, alter, or impair the effectiveness of any stormwater BMPs, Conveyances, Stormwater Management Facilities, areas or structures unless the activity is part of an approved maintenance program, without the written approval of the Municipality.
- B. No person shall place any structure, fill, landscaping, additional vegetation, yard waste, brush cuttings, or other waste or debris into a BMP or Conveyance, or within a stormwater easement, that would limit or alter the functioning of the stormwater BMP or Conveyance, without the written approval of the Municipality.

PART IX – ENFORCEMENT AND PENALTIES

Section 901. Public Nuisance

- A. Any Regulated Activity conducted in the violation of any provision of this chapter is hereby deemed a public nuisance.
- B. Each day that a violation continues shall constitute a separate violation.
- C. A separate violation will be found to exist for each section of this chapter found to have been violated.
- D. To the extent that the Municipality does not enforce any provision of this chapter, such action or inaction shall not constitute a waiver by the Municipality of its rights of future enforcement hereunder.

Section 902. Right of Entry

- A. Upon presentation of proper credentials, duly authorized officers or agents of the Municipality may enter at reasonable times upon any property within the Municipality to inspect the implementation, condition, or operation and maintenance of all erosion and sediment controls and permanent stormwater BMPs, Conveyances, or other Stormwater Management Facilities both during and after completion of a Regulated Activity, or for compliance with any requirement of this chapter.
- B. Persons working on behalf of the Municipality shall have the right to temporarily locate on or in any BMP, Conveyance, or other Stormwater Management Facility in the Municipality such devices as are necessary to conduct monitoring and/or sampling of the discharges from such BMP or Conveyance, or other stormwater facilities.
- C. Failure of the Landowner or representative to grant access to the Municipality within 24 hours of notification, verbal or written, is a violation of this chapter.

Section 903. Enforcement

- A. The Municipal Engineer or other designee is hereby authorized and directed to enforce all the provisions of this chapter. The Municipal Governing Body may delegate enforcement duties, including the initial determination of chapter violation and service of notice, if notice is given, to such other officers or agents as the Municipality shall deem qualified for that purpose.
- B. It shall be the responsibility of the Landowner of the real property on which any Regulated Activity is proposed to occur, is occurring, or has occurred to comply with the applicable terms and conditions of this chapter.
- C. All municipal inspections for compliance with the approved SWM Site Plan shall be the responsibility of the Municipality or its designee.
- D. During any stage of the work of any Regulated Activity, if the Municipal Engineer or other designee determines that the erosion and sediment control measures,

permanent BMPs, Conveyances or other stormwater facilities are not being installed or maintained in accordance with the approved SWM Site Plan, the Municipality may suspend or revoke any existing permits or other approvals until the deficiencies are corrected or until a revised SWM Site Plan is submitted and approved, if and as determined to be necessary by the Municipal Engineer or other designee.

E. In the event that the Municipal Engineer or other designee finds that a person has violated a provision of this chapter, or fails to conform to the requirements of any permit or approval issued by the Municipality, or any O&M Plan or O&M Agreement approved by the Municipality, the Municipality may order compliance by written notice of the violation to the Landowner.

F. Such notice may, without limitation, require the following remedies:

1. Performance of monitoring, analyses, and reporting;
2. Elimination of prohibited connections or discharges;
3. Cessation of any violating discharges, practices, or operations;
4. Abatement or remediation of stormwater pollution or contamination hazards and the restoration of any affected property;
5. Payment of a fine to cover administrative and remediation costs and/or forfeiture of financial security;
6. Implementation of stormwater controls, BMPs, and Conveyances; and
7. Operation, maintenance or repair of BMPs, Conveyances or other stormwater facilities.

G. Such notice shall set forth the nature of the violation(s), citing the specific sections of this chapter which have not been met, and establish a time limit for commencement of correction and completion of correction of the violations(s). The notice shall provide for a right of the Landowner's appeal to the Municipal Governing Body in accordance with Section 906 of this chapter. Said notice shall further advise that, if applicable, should the violator fail to take the required action within the established deadline, possible sanctions, clearly described, may be imposed, or the work may be done by the Municipality or designee, and the expense thereof shall be charged to the violator.

H. Failure to comply within the time specified in such notice shall also subject such person to the penalty provisions of this chapter. All such penalties shall be deemed cumulative and shall not prevent the Municipality from pursuing any and all other remedies available in law or equity.

Section 904. Suspension and Revocation of Permits and Approvals

- A. Any building, land development, or other permit or approval issued by the Municipality may be suspended or revoked by the Municipality for:
1. Noncompliance with or failure to implement any provision of the permit or approved SWM Site Plan or O&M Agreement;
 2. A violation of any provision of this chapter or any other law or regulation applicable to the Regulated Activity;
 3. The creation of any condition or the commission of any act during the Regulated Activity that constitutes or creates a hazard or nuisance, or endangers the life, health, safety, or property of others; or
 4. Failure to correct a violation within the allowed time period allowed per notice given by the Municipality.
- B. Prior to revocation or suspension of a permit, unless there is immediate danger or threat of such danger to life, public health or property, at the request of the Applicant, the Municipality's Governing Body shall schedule a hearing on the violation and proposed revocation or suspension, pursuant to public notice. The expense of a hearing shall be the Applicant's responsibility.
- C. A suspended permit or approval may be reinstated by the Municipality when:
1. The Municipal Engineer or other designee has inspected and approved the corrections to the BMPs, Conveyances or other Stormwater Management Facilities, or the elimination of the hazard or nuisance; and
 2. The Municipality is satisfied that the violation has been corrected.
- D. A permit or approval that has been revoked by the Municipality cannot be reinstated. The Applicant may apply for a new permit or approval in accordance with this chapter.

Section 905. Penalties

- A. Any person violating or permitting the violation of the provisions of this chapter shall be subject to a fine of not more than \$1,000 for each violation, recoverable with costs. The establishment of a violation for purposes of setting fines or penalties for such violation shall be in accordance with a citation to a magisterial district judge with jurisdiction and venue over the location of the violation and such an action will be subject to the procedures provided for the enforcement of summary offenses under the Pennsylvania Rules of Criminal Procedure. A separate offense shall arise for each day or portion thereof a violation is found to exist and may be determined for each section of this chapter which is found to have been violated.

- B. In addition, the Municipality may, through its solicitor, institute injunctive, mandamus, or any other appropriate action or proceeding at law or in equity for the enforcement of this chapter. Any court of competent jurisdiction shall have the right to issue restraining orders, temporary or permanent injunctions, mandamus, or other legal or equitable forms of remedy or relief. Such relief may include costs, fees, and charges, including the Municipality's attorney's fees (charged at the hourly rate approved by the Governing Body of the Municipality) and costs, as may be permitted by law.
- C. Notwithstanding any other provision of this chapter, the Municipality shall have the right at any or all times deemed necessary by the Municipal Engineer or designee to enter upon any property within the Municipality to inspect and, upon determination of a violation of this chapter, to correct the violation, with all expenses associated with correcting the violation to be charged to the property owner responsible for the violation.

Section 906. Appeals

- A. Any person aggrieved by any action of the Municipal Engineer or other designee relative to the provisions of this chapter may appeal to the Municipality's Governing Body within thirty (30) days of that action.
- B. Any person aggrieved by any decision of the Municipality's Governing Body relative to the provisions of this chapter may appeal to the County Court of Common Pleas in the County where the activity has taken place within thirty (30) days of the Municipality's decision.

SECTION II. Severability.

The terms, conditions and provisions of this Ordinance are hereby declared to be severable, and, should any portion, part or provision of this Ordinance be found by a court of competent jurisdiction to be invalid, unenforceable or unconstitutional, the West Norriton Township Board of Commissioners hereby declares its intent that the Ordinance shall have been enacted without regard to the invalid, unenforceable, or unconstitutional portion, part or provision of this Ordinance.

SECTION III. Repealer.

Any and all other Ordinances or parts of Ordinances in conflict with the terms, conditions and provisions of this Ordinance are hereby repealed to the extent of such irreconcilable conflict.

SECTION IV. Effective Date.

This Ordinance shall become effective upon its legal enactment date based upon the enactment date below.

SECTION V. Failure to Enforce Not a Waiver.

The failure of West Norriton Township to enforce any provision of this Ordinance shall not constitute a waiver by West Norriton Township of its rights to future enforcement hereunder.

ORDAINED AND ENACTED by the Board of Commissioners of West Norriton Township, Montgomery County, Pennsylvania, this 9th day of November, 2022.

ATTEST:

**WEST NORRITON TOWNSHIP
BOARD OF COMMISSIONERS**

By: _____



Jason Bobst, Township Secretary

By: _____



Peter Smock, President

APPENDICES

- Appendix A. Simplified Approach to Stormwater Management for Small Projects
 - A.1. Applicability, Submittal and Approval Requirements
 - A.2. “Simplified Approach to Stormwater Management for Small Projects – Handbook”
- Appendix B. Conservation Design and Low Impact Development Site Design Process
- Appendix C. Runoff Coefficients and Curve Numbers
- Appendix D. West Nile Virus Design Guidance
- Appendix E. “Stormwater Best Management Practices and Conveyances Operation and Maintenance Agreement” - Sample Agreement



Annual MS4 Status Report

APPENDIX C

MCM #3 Illicit Discharge Detection and Elimination

1. Priority Outfall Screening Report



Cedarville Engineering Group, LLC

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DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID:

Date:	Time:
Number:	Outfall/Observation Point:
Lat/Long:	Inspector(s):
Subwatershed:	Contributing Drainage Area Land Use:
Date of Previous Precipitation:	Amount of Previous Precipitation:
Responsible Official Name:	Signature:

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed				In water:
				With sediment:
Open				
In-stream?				
Flow present?				
Flow description (if present):				



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Quantitative Characterization
(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature			° Fahrenheit	Thermometer
pH			PH Units	Test strip/Probe
Ammonia			Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? No

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:



April 27, 2023

Stormwater Management Program

PRIORITY AREA DRY WEATHER OUTFALL SCREENING



Prepared For:

West Norriton Township

Montgomery County, Pennsylvania
1630 W. Marshall Street
Jeffersonville, PA 19403

Prepared By:



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

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*Cedarville Engineering Group, LLC (CEG) is a **Federally Certified 8(a)/EDWOSB & DBE/WBE Company** specializing in civil engineering, environmental consulting, geospatial and construction services for federal, state, municipal, private and institutional clients. The CEG team of professionals ensure successful projects from concept to planning and design, through permitting and construction, to project acceptance, operations and maintenance. We deliver value through innovation.*

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4.0	CONCLUSION	3

Appendices

- Appendix A Priority Outfall Field Screening Summary
- Appendix B Priority Outfall Field Screening Reports



1.0 Introduction

On behalf of West Norriton Township, Cedarville Engineering Group, LLC (CEG) performed dry weather field screenings of outfalls that receive drainage from priority areas. The Township's Illicit Discharge Detection and Elimination Program (IDD&E, reviewed April 2023, revised April 2020) identifies priority areas and associated outfalls, and describes the annual screening methodology as outlined below. Screening procedures specific to priority areas are required by MCM #3, BMP #4 of West Norriton Township's National Pollution Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) General Permit PAG130006.

West Norriton Township has fourteen (14) outfalls that receive drainage from priority areas within their regulated MS4; a complete list can be found in **Table 1** and **Appendix A**.

2.0 Methodology

Priority area outfall screenings are required to be performed annually as described in the Township's IDD&E Program (Section 4.1) for routine *Dry Weather Outfall Field Screening & Testing* and per the NPDES MS4 Permit requirements.

2.1 Procedures

Priority area outfalls must be evaluated a minimum of 48 hours after the last precipitation event to ensure any flows observed are not stormwater-related (i.e. dry weather flow). The presence of flow in an outfall or inlet during dry weather suggests a potential illicit discharge. If screenings reveal dry weather flow, then discharge from the outfall and surrounding area are inspected visually for color, odor, turbidity, sheen, floating or submerged solids, and adverse effects on plants or animals in proximity to the outfall. Physical information can help identify the contaminant(s) present and/or the likely source of the discharge (i.e., sanitary, industrial, construction, etc.).

If dry weather flow contains potential, suspect, or obvious illicit discharge, then field and/or laboratory testing is required, and samples will be collected to determine if flow is illicit. Testing parameters include, but are not limited to pH, conductivity, E. Coli bacteria, fecal coliform bacteria, metals, suspended solids, dissolved solids, oils, ammonia, surfactants, chlorine, and fluoride.

Proper quality assurance and quality control procedures are followed when collecting, transporting, and analyzing water samples. Testing is not required for outfalls with dry weather flow where an illicit discharge is determined unlikely, and adequate written documentation is required to justify that flow is not illicit. Testing is also not required for outfalls that do not exhibit dry weather flow.

Observations of each outfall are recorded during the inspection and regardless of the presence of dry weather flow. All outfall inspection information is recorded digitally using an ArcGIS Online Survey123 Form, which was developed from the Outfall Reconnaissance Inventory/Sample Collection Field Sheet and provided by the US Environmental Protection Agency. Results of the

outfall field screenings, water testing, and any actions taken to remove or correct illicit discharges will be summarized in the Annual MS4 Status Report as required by the NPDES Permit.

2.2 Frequency

The primary difference between routine and priority outfall field screenings is frequency. Priority area outfalls are inspected **annually**, while all other outfalls are only required to be screened once per the five (5) year permit term.

3.0 Priority Area Outfall Screening Results

Priority area outfall field screenings were conducted on February 27 and March 10, 2023. Dry weather flow was present in five (5) of the fourteen (14) outfalls evaluated and no physical indicators of potential illicit discharges were observed. In all cases, illicit discharges were determined to be unlikely and the dry weather flows observed appear to originate from naturally occurring sources such as pond discharges, perennial or intermittent streams, spring seeps, and/or other groundwater sources. Per the instructions of the Outfall Reconnaissance Inventory/Sample Collection Field Sheet and the Township IDD&E Program, sampling and laboratory testing is not required for dry weather flows that are unlikely to contain illicit discharges.

Outfall #83 is a concrete structure located off Riverview Boulevard and adjacent to the Schuylkill River in the southwest corner of West Norriton Township. Outfall #83 was not located during either of the two (2) site visits. In 2022, Outfall #83 was reported as being greater than 75% full of sediment, and then in 2023 the concrete end wall associated with the outfall was no longer visible. Based on previous inspection reports, Outfall #83 is assumed to be buried by sediment.

Outfall field screening results are summarized in **Table 1** below and in **Appendix A**. Details of each priority area outfall inspection, including photo documentation and observations of structural condition are reported in **Appendix B**.

Table 1: Priority Outfall Field Screening Results

Priority Outfall #	Pipe Type	Pipe Diameter (in)	Shape	Outfall/ Observation Point Condition	Sub watershed	2022 Dry Weather Flow Present	Illicit Discharge Determination
18	RCP	48	Circular	Good	Mingo Creek-Schuylkill River	No Flow	Unlikely
22	RCP	36	Circular	Good	Stony Creek	Flow (due to natural sources)	Unlikely
28	RCP	24	Circular	Good	Mingo Creek-Schuylkill River	No Flow	Unlikely
44	Open Concrete	N/A	Swale	Good	Mingo Creek-Schuylkill River	No Flow	Unlikely
50	RCP	36	Circular	Good	Mingo Creek-Schuylkill River	Flow (due to natural sources)	Unlikely
54	HDPE	48	Circular	Good	Mingo Creek-Schuylkill River	No Flow	Unlikely
57	HDPE	30	Circular	Good	Mingo Creek-Schuylkill River	No Flow	Unlikely
58	RCP	24	Circular	Good	Stony Creek	Flow (due to natural sources)	Unlikely
59	RCP	24	Circular	Good	Stony Creek	No Flow	Unlikely
68	Steel	36	Circular	Good	Mingo Creek-Schuylkill River	No Flow	Unlikely
74	CMP	24	Circular	Good	Mingo Creek-Schuylkill River	Flow (due to natural sources)	Unlikely
82	RCP	48	Circular	Good	Mingo Creek-Schuylkill River	Flow (due to natural sources)	Unlikely
83	RCP	24	Circular	Unknown	Mingo Creek-Schuylkill River	No Flow	Unlikely
84	RCP	24	Circular	Good	Mingo Creek-Schuylkill River	No Flow	Unlikely

4.0 Conclusion

Fourteen (14) priority area outfalls were screened across West Norriton Township as required by MCM #3 of the NPDES MS4 Permit. Dry weather flows were present in five (5) of the outfalls, and illicit discharges were determined to be unlikely since physical indicators were not observed. It is recommended that Outfall #83 be located and excavated to restore proper functionality.

The priority area outfalls should continue to be monitored and screened annually, and the list updated accordingly. In coordination with the Township, it was determined that there are no added concerns that would justify including additional priority area outfalls to the list as of the date of this report.



APPENDIX A

Priority Outfall Field Screening Summary



ceg

Cedarville Engineering Group, LLC

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2023 PRIORITY OUTFALL FIELD SCREENING SUMMARY

WEST NORRITON TOWNSHIP

Outfall ID	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Subwatershed:	Notes
18	Outfall	RCP	Circular	48	No	Unlikely	Good	Mingo Creek-Schuylkill River	The overall outfall characterization was unlikely for an illicit discharge.
22	Outfall	RCP	Circular	36	Yes	Unlikely	Good	Stony Creek	Flow likely from groundwater sources. Energy disappators are in need of repair.
28	Oufall	RCP	Circular	24	No	Unlikely	Good	Mingo Creek-Schuylkill River	Overland flow to the inlet is the outfall.
44	Outfall	Open Concrete	Trapezoid	24	No	Unlikely	Good	Mingo Creek-Schuylkill River	Open drainage overland flow outfall. Vine vegetation should be pulled away from the drainage cut.
50	Outfall	RCP	Circular	36	Yes	Unlikely	Good	Mingo Creek-Schuylkill River	Very slow trickle creating a small puddle in the pool of the swale.
54	Outfall	HDPE	Circular	48	No	Unlikely	Good	Mingo Creek-Schuylkill River	New outfall structure associated with an updated basin design.
57	Outfall	HDPE	Circular	30	No	Unlikely	Good	Mingo Creek-Schuylkill River	Apron appears to hinder flow during rain events.
58	Observation Point	RCP	Circular	24	Yes	Unlikely	Good	Stony Creek	The outfall is in stream and the inlet leading from the outfall has standing water from the stream. No illicit discharge entering the closest structure to the outfall.
59	Observation Point	RCP	Circular	24	No	Unlikely	Good	Stony Creek	The outfall is in stream and the inlet leading from the outfall has standing water from the stream. No illicit discharge entering the closest structure to the outfall.
68	Outfall	Steel	Circular	36	No	Unlikely	Good	Mingo Creek-Schuylkill River	Soil was wet but no flow detected.
74	Observation Point	CMP	Circular	24	Yes	Unlikely	Good	Mingo Creek-Schuylkill River	Open drainage overland flow outfall into stormdrain.
82	Outfall	RCP	Circular	48	Yes	Unlikely	Good	Mingo Creek-Schuylkill River	Flow likely due to natural sources.
83	Outfall	RCP	Circular	24	No	Unlikely	Unknown	Mingo Creek-Schuylkill River	Outfall not located. Most likely buried in sediment.
84	Outfall	RCP	Circular	24	No	Unlikely	Good	Mingo Creek-Schuylkill River	The overall outfall characterization was unlikely for an illicit discharge.



APPENDIX B

Priority Outfall Field Screening Reports



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DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 14:36
Number: 18	Outfall/Observation Point: Outfall
Lat/Long: -75.38650475201274, 40.13109202772768	Inspector(s): Jack Shuey
Subwatershed: Mingo Creek-Schuylkill River	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 02/17/2023	Amount of Previous Precipitation: 0.3in
Responsible Official Name: Jack Shuey	Signature:

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	RCP	Circular, Single	48	In water: No
				With sediment: No
Open				
In-stream? Yes				
Flow present? No				
Flow description (if present):				



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Quantitative Characterization
(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature			° Fahrenheit	Thermometer
pH			PH Units	Test strip/Probe
Ammonia			Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? No

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

Photo No. 1	Dry Weather Outfall Field Screening	02/27/2023
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Photo No. 2	Dry Weather Outfall Field Screening	02/27/2023
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Photo No. 3

Dry Weather Outfall Field Screening

02/27/2023





DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 15:47
Number: 22	Outfall/Observation Point: Outfall
Lat/Long: -75.36333373598819, 40.14334945077429	Inspector(s): Jack Shuey
Subwatershed: Stony Creek	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 02/17/2023	Amount of Previous Precipitation: 0.3in
Responsible Official Name: Jack Shuey	Signature:

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	RCP	Circular, Single	36	In water: No
				With sediment: No
Open				
In-stream? Yes				
Flow present? Yes				
Flow description (if present): Trickle				



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Quantitative Characterization

(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume	100ml	Liter	Bottle
	Time to fill	18	Seconds	Stopwatch
Flow #2	Flow depth	0.1	Inches	Tape measure
	Flow width	5"	Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature		49	° Fahrenheit	Thermometer
pH		6.5	PH Units	Test strip/Probe
Ammonia		0	Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? **No**

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? **No**

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge:

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

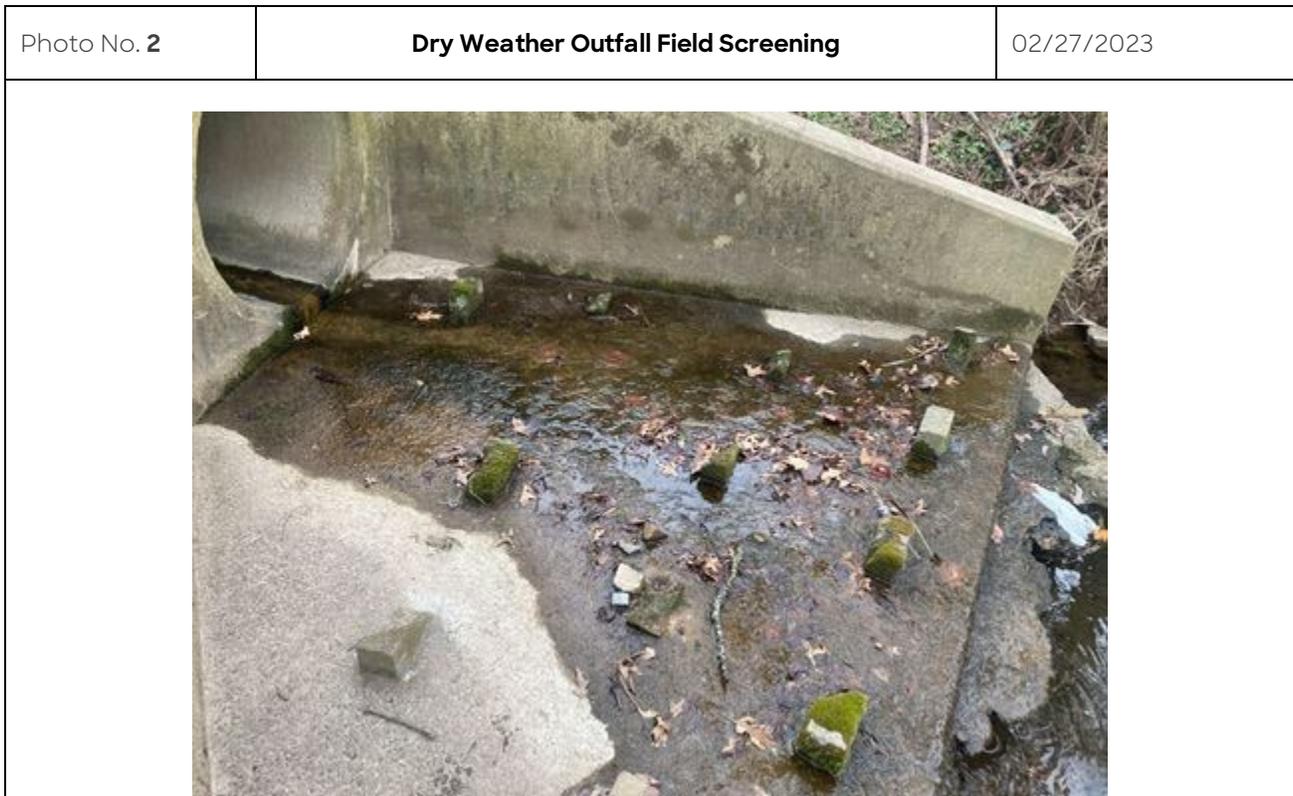


Photo No. 3

Dry Weather Outfall Field Screening

02/27/2023





DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 16:17
Number: 28	Outfall/Observation Point: Observation Point
Lat/Long: -75.36657026420232, 40.12444184897435	Inspector(s): Jack Shuey
Subwatershed: Mingo Creek – Schuylkill River	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 02/17/2023	Amount of Previous Precipitation: 0.3in
Responsible Official Name: Jack Shuey	Signature:

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	RCP	Circular, Single	50	In water: No
				With sediment: No
Open				
In-stream? No				
Flow present? No				
Flow description (if present):				



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Quantitative Characterization

(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature			° Fahrenheit	Thermometer
pH			PH Units	Test strip/Probe
Ammonia			Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? **No**

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge:

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes: Outfall is considered to be storm grate surface.
There is a piped stream beneath the road (See Photo No. 3).



Photo No. 3

Dry Weather Outfall Field Screening

02/27/2023





DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 14:44
Number: 44	Outfall/Observation Point: Outfall
Lat/Long: -75.38456557553425, 40.133189746551466	Inspector(s): Jack Shuey
Subwatershed: Mingo Creek- Schuylkill River	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 02/17/2023	Amount of Previous Precipitation: 0.3in
Responsible Official Name: Jack Shuey	Signature:

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed				In water: No
				With sediment: Fully
Open	Concrete	Trapezoid	24	
In-stream? No				
Flow present? No				
Flow description (if present):				



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Quantitative Characterization

(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature			° Fahrenheit	Thermometer
pH			PH Units	Test strip/Probe
Ammonia			Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? **No**

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Severely overgrown

Notes:

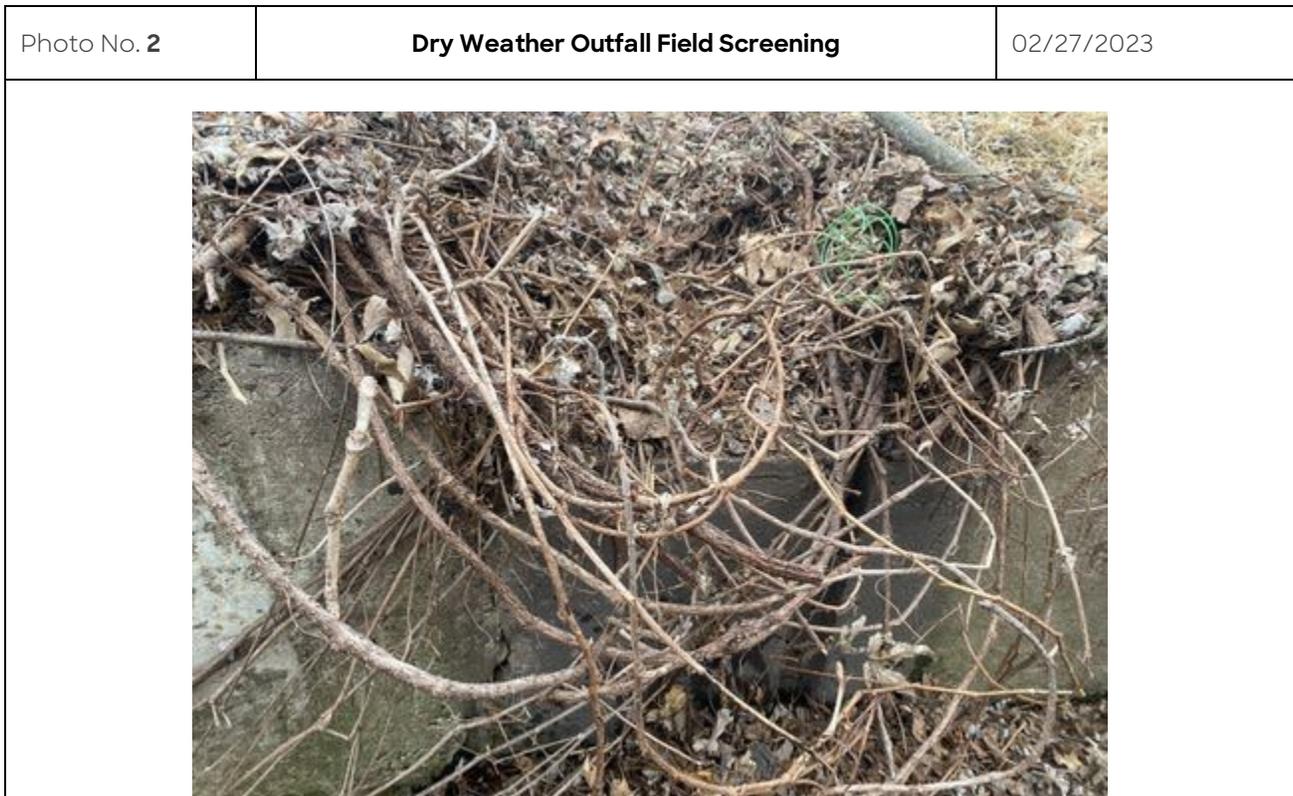


Photo No. 3

Dry Weather Outfall Field Screening

02/27/2023





DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 16:38
Number: 50	Outfall/Observation Point: Outfall
Lat/Long: -75.3808632802641, 40.12203628214234	Inspector(s): Jack Shuey
Subwatershed: Mingo Creek - Schuylkill River	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 02/17/2023	Amount of Previous Precipitation: 0.3in
Responsible Official Name: Jack Shuey	Signature: 

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	RCP	Circular, Single	36"	In water: No
				With sediment: No
Open				
In-stream? Yes				
Flow present? Yes				
Flow description (if present): Trickle				



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Quantitative Characterization

(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume	.1	Liter	Bottle
	Time to fill	12	Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature		50	° Fahrenheit	Thermometer
pH		6.5	PH Units	Test strip/Probe
Ammonia		0	Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? **No**

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? **No**

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

Photo No. 1	Dry Weather Outfall Field Screening	02/27/2023
		

Photo No. 2	Dry Weather Outfall Field Screening	02/27/2023
		

Photo No. 3

Dry Weather Outfall Field Screening

02/27/2023





DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 03/10/2023	Time: 12:35
Number: 54	Outfall/Observation Point: Outfall
Lat/Long: -75.39422765308309, 40.12160240730556	Inspector(s): Jack Shuey
Subwatershed: Mingo Creek – Schuylkill River	Contributing Drainage Area Land Use: Industrial
Date of Previous Precipitation: 03/04/2023	Amount of Previous Precipitation: 0.7in
Responsible Official Name: Jack Shuey	Signature: 

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	HDPE	Circular, Single	48	In water: No
				With sediment: No
Open				
In-stream? No				
Flow present? No				
Flow description (if present):				



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Quantitative Characterization

(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature			° Fahrenheit	Thermometer
pH			PH Units	Test strip/Probe
Ammonia			Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? **No**

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:



Photo No. 3

Dry Weather Outfall Field Screening

03/10/2023





DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 16:06
Number: 57	Outfall/Observation Point: Outfall
Lat/Long: -75.38341960760896, 40.13699420945299	Inspector(s): Jack Shuey
Subwatershed: Mingo Creek – Schuylkill River	Contributing Drainage Area Land Use: Commercial
Date of Previous Precipitation: 02/17/2023	Amount of Previous Precipitation: 0.3in
Responsible Official Name: Jack Shuey	Signature: 

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	HDPE	Circular, Single	30	In water: No
				With sediment: No
Open				
In-stream? No				
Flow present? No				
Flow description (if present):				



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Quantitative Characterization

(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature			° Fahrenheit	Thermometer
pH			PH Units	Test strip/Probe
Ammonia			Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? **No**

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:



Photo No. 3

Dry Weather Outfall Field Screening

02/27/2023





DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 15:10
Number: 58	Outfall/Observation Point: Outfall
Lat/Long: -75.37403901229943, 40.14448494118978	Inspector(s): Jack Shuey
Subwatershed: Stony Creek	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 02/17/2023	Amount of Previous Precipitation: 0.3in
Responsible Official Name: Jack Shuey	Signature:

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	RCP	Circular, Single	24	In water: No
				With sediment: Partially
Open				
In-stream? No				
Flow present? Yes				
Flow description (if present): Trickle				



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Quantitative Characterization

(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume	100ml	Liter	Bottle
	Time to fill	26	Seconds	Stopwatch
Flow #2	Flow depth	.1	Inches	Tape measure
	Flow width	8"	Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature		49	° Fahrenheit	Thermometer
pH		6.5	PH Units	Test strip/Probe
Ammonia		0	Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? **No**

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? **Yes**

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains	Yes	Oil like sheen	Natural sheen from stagnant wetland conditions.
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Grass in outfall pipe.

Notes: Mild sheen staining on outfall structure which is commonly associated with microbe activity in stagnant pooling such as wetlands.

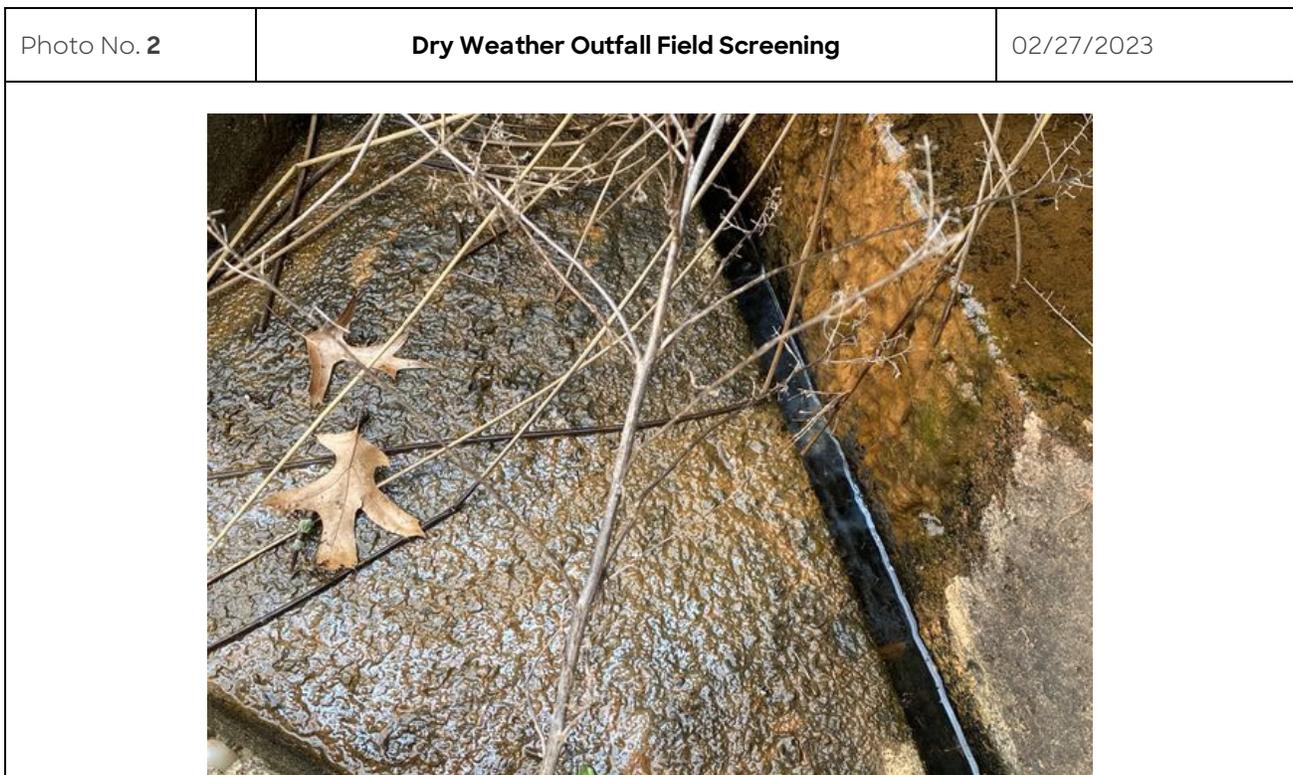


Photo No. 3

Dry Weather Outfall Field Screening

02/27/2023





DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 15:20
Number: 59	Outfall/Observation Point: Outfall
Lat/Long: -75.37376785032104, 40.14446676828519	Inspector(s): Jack Shuey
Subwatershed: Stony Creek	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 02/17/2023	Amount of Previous Precipitation: 0.3in
Responsible Official Name: Jack Shuey	Signature: <i>John Shuey</i>

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	RCP	Circular, Single	24"	In water: Yes
				With sediment: No
Open				
In-stream? Yes				
Flow present? No				
Flow description (if present):				



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Quantitative Characterization

(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature			° Fahrenheit	Thermometer
pH			PH Units	Test strip/Probe
Ammonia			Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? **No**

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes: Outfall is pipe under the bridge. No visible flow is seen in the stream pool around the pipe.

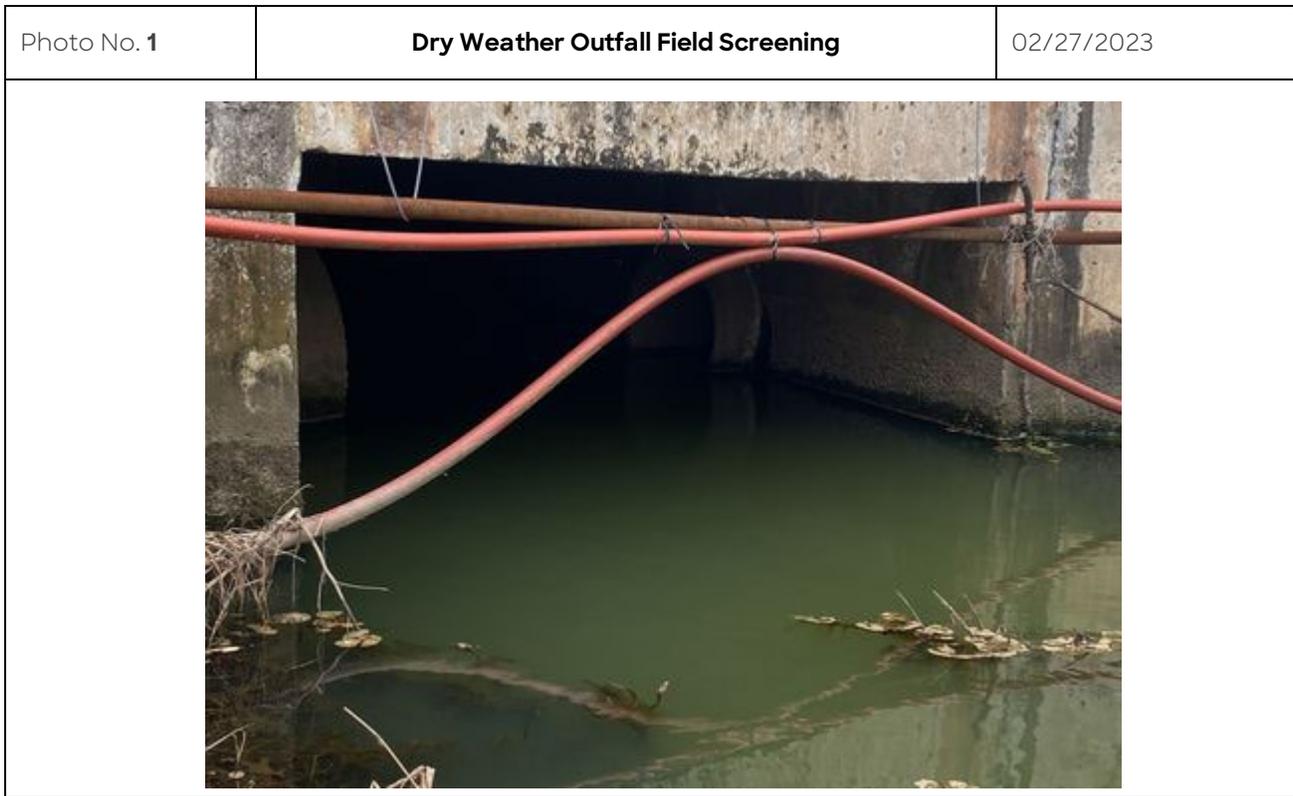


Photo No. 3	Dry Weather Outfall Field Screening	02/27/2023
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Photo No. 4	Dry Weather Outfall Field Screening	02/27/2023
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DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 14:52
Number: 68	Outfall/Observation Point: Outfall
Lat/Long: -75.38060582887425, 40.13422692888233	Inspector(s): Jack Shuey
Subwatershed: Mingo Creek – Schuylkill River	Contributing Drainage Area Land Use: Commercial
Date of Previous Precipitation: 02/07/2023	Amount of Previous Precipitation: 0.3in
Responsible Official Name: Jack Shuey	Signature: 

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	Steel	Circular, Single	36	In water: No
				With sediment: Partially
Open				
In-stream? No				
Flow present? No				
Flow description (if present):				



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Quantitative Characterization

(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature			° Fahrenheit	Thermometer
pH			PH Units	Test strip/Probe
Ammonia			Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? **No**

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:



Photo No. 3

Dry Weather Outfall Field Screening

02/27/2023





DRY WEATHER OUTFALL FIELD SCREENING

Westtown Township | NPDES ID: PAG130006

Date: 03/30/2023	Time: 16:01
Number: 74	Outfall/Observation Point: Outfall
Lat/Long: -75.39276230431116, 40.12676989239222	Inspector(s): Jack Shuey
Subwatershed: Mingo Creek-Schuylkill River	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 03/07/2023	Amount of Previous Precipitation: 0.7"
Responsible Official Name: Jack Shuey	Signature: 

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	CMP	Circular	24	In water: No
				With sediment: No
Open				
In-stream? No				
Flow present? No				
Flow description (if present):				



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Quantitative Characterization

(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature			° Fahrenheit	Thermometer
pH			PH Units	Test strip/Probe
Ammonia			Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? **No**

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes: The storm drain is considered the outfall which enters Indian Creek in the box culvert beneath the road.

Photo No. 1	Dry Weather Outfall Field Screening	03/30/2023
		

Photo No. 2	Dry Weather Outfall Field Screening	03/30/2023
		



DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 14:06
Number: 82	Outfall/Observation Point: Outfall
Lat/Long: -75.41677053763996, 40.10878048465314	Inspector(s): Jack Shuey
Subwatershed: Mingo Creek - Schuylkill River	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 02/07/2023	Amount of Previous Precipitation: 0.3in
Responsible Official Name: Jack Shuey	Signature: 

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	RCP	Circular, Single	48	In water: No
				With sediment: No
In-stream? No				
Flow present? Yes				
Flow description (if present): Trickle				



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Quantitative Characterization

(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume	100ml	Liter	Bottle
	Time to fill	8.59	Seconds	Stopwatch
Flow #2	Flow depth	.1	Inches	Tape measure
	Flow width	5"	Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature		50	° Fahrenheit	Thermometer
pH		6	PH Units	Test strip/Probe
Ammonia		0	Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow? No

Indicator	Present?	Description	Relative Severity
Odor	No		
Color	No	Clear	
Turbidity	No		
Floatables	No		

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? No

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

Photo No. 1	Dry Weather Outfall Field Screening	02/27/2023
		

Photo No. 2	Dry Weather Outfall Field Screening	02/27/2023
		

Photo No. 3

Dry Weather Outfall Field Screening

02/27/2023





DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 13:58
Number: 83	Outfall/Observation Point: Outfall
Lat/Long: -75.41223770122014, 40.11055953119713	Inspector(s): Jack Shuey
Subwatershed: Mingo Creek - Schuylkill River	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 02/07/2023	Amount of Previous Precipitation: 0.3 in
Responsible Official Name: Jack Shuey	Signature: <i>John Shuey</i>

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	RCP	Circular, Single	24	In water: No
				With sediment: Fully
Open				
In-stream? No				
Flow present? No				
Flow description (if present):				



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Quantitative Characterization
(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature			° Fahrenheit	Thermometer
pH			PH Units	Test strip/Probe
Ammonia			Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? No

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

Outfall 83 was not located during two different site visits conducted in 2023. This outfall is a concrete structure that discharges into the Schuylkill River. The 2022 inspection report indicates the outfall was greater than 3/4 full of sediment, and in 2023 the concrete structure was not visible. It is very likely the outfall is now completely buried by sediment. It is recommended the outfall be excavated to restore functionality.

The photo below shows the condition of the outfall during the 2022 inspection. Photo No. 1 from 2023 shows the bridge culvert structure located in close proximity to the marked location of Outfall 83.



2022 Inspection Report: Outfall 83

Photo No. 1

Dry Weather Outfall Field Screening

02/27/2023





DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 13:58
Number: 83	Outfall/Observation Point: Outfall
Lat/Long: -75.41223770122014, 40.11055953119713	Inspector(s): Jack Shuey
Subwatershed: Mingo Creek - Schuylkill River	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 02/07/2023	Amount of Previous Precipitation: 0.3 in
Responsible Official Name: Jack Shuey	Signature: <i>John Shuey</i>

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	RCP	Circular, Single	24	In water: No
				With sediment: Fully
Open				
In-stream? No				
Flow present? No				
Flow description (if present):				



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Quantitative Characterization

(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature			° Fahrenheit	Thermometer
pH			PH Units	Test strip/Probe
Ammonia			Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? **No**

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

Outfall 83 could not be located during two different site visits conducted in 2023. This outfall is a concrete structure that discharges into Schuylkill River. The 2022 inspection report indicates the outfall was greater than ¾ full of sediment, and in 2023 the concrete structure associated with the outfall was not visible. It is very likely the outfall is now completely buried by sediment. It is recommended the outfall be excavated to restore functionality.

The photos below show the condition of the outfall during the 2022 inspection.

Photo No. 1	Dry Weather Outfall Field Screening	2/24/2022
		

Photo No. 2	Dry Weather Outfall Field Screening	2/24/2022
		

Location of Outfall #83 on GIS Map



V



DRY WEATHER OUTFALL FIELD SCREENING

West Norriton Township | NPDES ID: PAG130006

Date: 02/27/2023	Time: 13:46
Number: 84	Outfall/Observation Point: Outfall
Lat/Long: -75.40733504585842, 40.11259184900877	Inspector(s): Jack Shuey
Subwatershed: Mingo Creek - Schuylkill River	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 02/07/2023	Amount of Previous Precipitation: 0.3in
Responsible Official Name: Jack Shuey	Signature: <i>John Shuey</i>

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed	RCP	Circular, Single	24	In water: No
				With sediment: No
Open				
In-stream? No				
Flow present? No				
Flow description (if present):				



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Quantitative Characterization
(Field Data for Flowing Outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	Stopwatch
Flow #2	Flow depth		Inches	Tape measure
	Flow width		Feet, Inches	Tape measure
	Measured length		Feet, Inches	Tape measure
	Time of travel		Seconds	Stopwatch
Temperature			° Fahrenheit	Thermometer
pH			PH Units	Test strip/Probe
Ammonia			Milligram per Liter	Test strip

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? No

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Unlikely

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	No
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:



Photo No. 3

Dry Weather Outfall Field Screening

02/27/2023





Annual MS4 Status Report

APPENDIX D

MCM #5 Post Construction Stormwater Management

1. PCSM BMP Inspection Report and Inventory



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West Norriton Township
2023 PCSM BMP Inventory

8/13/2023

BMP #	BMP Type	BMP Address	Site Name	Responsible Entity	Date of Last Inspection	2022 Compliance Status
1	Underground Detention Facility	2112 W. Main St	West Norriton Self Storage	Public Storage, Inc.	06/21/23	In-compliance
2*	Detention Basin	Wagon Wheel Rd	Oakland Farms	West Norriton Township	06/06/23	In-compliance
3A	Detention Basin	2530 Stinson Ln	Church of Jesus Christ of Latter-Day Saint	Church of Jesus Christ of Latter-Day Saints	06/06/23	In-compliance
3B	Snout	2530 Stinson Ln	Church of Jesus Christ of Latter-Day Saint	Church of Jesus Christ of Latter-Day Saints	06/06/23	In-compliance
4A1	Rain Garden	1911 W. Marshall St	Jubilee Presbyterian Church	Jubilee Presbyterian Church	06/06/23	In-compliance
4A2	Rain Garden	1911 W. Marshall St	Jubilee Presbyterian Church	Jubilee Presbyterian Church	06/06/23	In-compliance
4A3	Rain Garden	1911 W. Marshall St	Jubilee Presbyterian Church	Jubilee Presbyterian Church	06/06/23	In-compliance
4B1	Infiltration Trench	1911 W. Marshall St	Jubilee Presbyterian Church	Jubilee Presbyterian Church	06/06/23	In-compliance
4B2	Infiltration Trench	1911 W. Marshall St	Jubilee Presbyterian Church	Jubilee Presbyterian Church	06/06/23	In-compliance
4C	Porous Paving	2530 Stinson Ln	Jubilee Presbyterian Church	Jubilee Presbyterian Church	06/06/23	In-compliance
6	Detention Basin	101 Fairway Ln	Fairways at Green Meadows	Fairways Residential LP	06/06/23	In-compliance
7	Detention Basin	2 Liberty Av	Mobile Lifts Inc.	Liberty 2 LLC	07/05/23	In-compliance
8	Underground Basin	431 Burnside Av	Mikelen, LLC	Roderick Williams	06/06/23	In-compliance
9	Detention Basin	48 S. Trooper Rd	Yocum Roofing	Frank Yocum	06/06/23	In-compliance
10	Detention Basin	1525 W. Marshall St	Marshall Street Elementary School	West Norriton School Authority	07/05/23	In-compliance
11A	Detention Basin	900 S. Trooper Rd	St. Sophia's Church	St Sophia Greek Orthodox Church	06/06/23	In-compliance
11B1	Bioretention Area	900 S. Trooper Rd	St. Sophia's Church	St Sophia Greek Orthodox Church	06/06/23	In-compliance
11B2	Bioretention Area	900 S. Trooper Rd	St. Sophia's Church	St Sophia Greek Orthodox Church	06/06/23	In-compliance
13	Infiltration Trench	2575 Industry Ln	Transply Inc.	Ray Gross	7/5/2023	In-compliance
14	Detention Basin	2544 W. Main St	Wawa	Wawa Inc.	6/6/2023	Not in-compliance
15	Seepage Bed	519 Port Indian Rd	Durante Property	George Chad Springer	7/5/2023	In-compliance
16	Underground Stone Infiltration Pit	139 Clemens Cir	Chestnut Woods- Lot 1	Jaylene Penrod	7/5/2023	Not accessible
17	Underground Stone Infiltration Pit	137 Clemens Cir	Chestnut Woods- Lot 2	Joseph Logue	6/6/2023	In-compliance
18	Underground Stone Infiltration Pit	135 Clemens Cir	Chestnut Woods- Lot 3	Mary Howard	6/6/2023	In-compliance
19	Seepage Bed	455 Burnside Av	455 Burnside Avenue	John and Karen Couchara	6/6/2023	In-compliance
21	Detention Basin	Sterigere St	State Police Dispatch Center	Commonwealth of Pennsylvania	6/6/2023	In-compliance
22	Seepage Bed	51 S. Montgomery Ave	Cook Subdivision	Matthew and Eileen Cook	7/5/2023	In-compliance
23A	Underground Detention Facility	416 & 432 Egypt Road	Valley Forge Marketplace	Delval Properties Associates	6/6/2023	In-compliance
23B	Seepage Bed	416 & 432 Egypt Road	Valley Forge Marketplace	Delval Properties Associates	6/6/2023	In-compliance
25**	Stream Restorations	2400 W Main Street	Jeffersonville Golf Club Holes 2, 15, 17/18	West Norriton Township	n/a	Maintenance in process
26**	Dry Extended Detention Basin	Alexander Dr & Burnside Blvd	Alexander Drive Basin Retrofit	West Norriton Township	6/6/2023	In-compliance
27**	Detention Basin	2421 Boulevard of the Generals	Blue Dove Basin Retrofit	West Norriton Township	7/5/2023	In-compliance

For Operation & Maintenance requirements, refer to the PA Stormwater BMP Manual.

*Not a PCSM BMP (pre-2003) - inspected to ensure proper O&M of the Township-owned BMPs

**PRP BMP - inspected to ensure proper O&M of the Township's BMPs



August 14, 2023

Post Construction Stormwater (PCSM) Best Management Practice (BMP) Inspection Summary Report



Prepared For:

West Norriton Township

1630 W. Marshall St.
Jeffersonville, PA 19403
Montgomery County, Pennsylvania

Prepared By:



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

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Cedarville Engineering Group, LLC (CEG) is a **Federally Certified 8(a)/EDWOSB & DBE/WBE Company** specializing in civil engineering, environmental consulting, geospatial and construction services for federal, state, municipal, private and institutional clients. The CEG team of professionals ensure successful projects from concept to planning and design, through permitting and construction, to project acceptance, operations and maintenance. We deliver value through innovation.

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PROJECT OVERVIEW

1.	INTRODUCTION	1
2.	TOWNSHIP INSPECTION PROTOCOL	1
3.	INSPECTION PROCESS	1
4.	INSPECTION SUMMARY and RECOMMENDATIONS	2

APPENDICES

- Appendix A: PCSM BMP Inventory
- Appendix B: PCSM BMP Location Map
- Appendix C: Inspection Reports



1. INTRODUCTION

On behalf of West Norriton Township, Cedarville Engineering Group, LLC (CEG) completed routine inspections of Post Construction Stormwater (PCSM) Best Management Practices (BMPs) for the 2023 MS4 permit term.

West Norriton Township has developed and implemented a PCSM BMP Inspection Program as part of their Stormwater Management Plan. The inspection program is designed to comply with the Township’s National Pollution Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) General Permit (No. PAG130006, Exp. 3/2025) issued by the Pennsylvania Department of Environmental Protection (DEP). More specifically, it will meet the measurable goals and criteria outlined in Minimum Control Measure (MCM) No. 5 Post-Construction Stormwater Management (PCSM) in New and Re-Development Activities, Best Management Practice (BMP) #3 of the NPDES MS4 permit.

Under the NPDES MS4 permit, the Township is responsible to “ensure adequate operation and maintenance of all PCSM 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.”

2. TOWNSHIP INSPECTION PROTOCOL

PCSM BMP inspections follow the protocol outlined in the most recent *Post Construction Stormwater BMP Inspection Program*, which was updated in March 2020. The Township established an inspection frequency goal of a minimum of one (1) time per year for each BMP. Inspections are conducted more than 72 hours after the previous rain event in order to determine whether facilities are dewatering and/or infiltrating properly.

3. INSPECTION PROCESS

An inspector visits the site, completes the PCSM BMP Inspection Form, and takes photographs. The inspector will also record any visual observations of the BMP surface, including its features and condition. The approved design and/or as-built plans are referenced during the inspection to ensure that BMPs are functioning as designed. An inspector will look for inconsistencies in the approved plan, accelerated erosion, excess sediment and/or debris accumulation, structural integrity, and unstable areas. Any deficiencies are noted, and appropriate corrective actions recommended.

4. INSPECTION SUMMARY and RECOMMENDATIONS

West Norriton Township’s inventory currently consists of thirty-one (31) PCSM BMPs that are located on both private and Township-owned land. Inspections were performed on June 6, June 21, and July 5, 2023, per the approved PCSM Plans, manufacturer specifications, and Pennsylvania Stormwater BMP Manual considerations. Inspections also included two (2) BMPs implemented as part of the Township’s Pollutant Reduction Plan (PRP).

Inspections revealed one (1) violation and one (1) BMP that was not accessible on private property (see **Table 1**). A Notice of Violation letter should be sent to the responsible party to encourage remediation of BMP #14. A letter of non-compliance should be issued to the property owner of BMP #16, requesting access for future inspection.

Table 1. PCSM BMPs Requiring Action

BMP ID	BMP Type	BMP Name	BMP Address	O&M Responsible Party	Inspection Results	Recommended Action
14	PCSM	Detention Basin	2544 W. Main St	Wawa Inc.	<ul style="list-style-type: none"> Vegetation within the basin is unmanaged, blocking inlet and outlet structures. 	<ul style="list-style-type: none"> Issue letter of Violation, requesting to clear unmanaged vegetation from basin.
16	PCSM	Under-ground Infiltration Pit	139 Clemens Cir	Jaylene Penrod	<ul style="list-style-type: none"> BMP was not accessible during any of the three inspection days. 	<ul style="list-style-type: none"> Issue letter of Non-Compliance requesting access to the BMP for inspection.

The only PRP BMPs that currently require maintenance by PA DEP are the stream restorations at Jeffersonville Golf Club (holes #2, 15, 17/18). CEG is currently coordinating with West Norriton Township and Octoraro Nursery to restore the stream buffer plantings scheduled for October 2023.

All other PCSM BMPs are found to be in compliance and no further action is required. The complete BMP Inventory and location map are included in **Appendix A** and **Appendix B**, respectively. Individual BMP Inspection reports are available in **Appendix C**.



APPENDIX A

PCSM BMP Inventory



Cedarville Engineering Group, LLC

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West Norriton Township
2023 PCSM BMP Inventory

8/13/2023

BMP #	BMP Type	BMP Address	Site Name	Responsible Entity	Date of Last Inspection	2022 Compliance Status
1	Underground Detention Facility	2112 W. Main St	West Norriton Self Storage	Public Storage, Inc.	06/21/23	In-compliance
2*	Detention Basin	Wagon Wheel Rd	Oakland Farms	West Norriton Township	06/06/23	In-compliance
3A	Detention Basin	2530 Stinson Ln	Church of Jesus Christ of Latter-Day Saint	Church of Jesus Christ of Latter-Day Saints	06/06/23	In-compliance
3B	Snout	2530 Stinson Ln	Church of Jesus Christ of Latter-Day Saint	Church of Jesus Christ of Latter-Day Saints	06/06/23	In-compliance
4A1	Rain Garden	1911 W. Marshall St	Jubilee Presbyterian Church	Jubilee Presbyterian Church	06/06/23	In-compliance
4A2	Rain Garden	1911 W. Marshall St	Jubilee Presbyterian Church	Jubilee Presbyterian Church	06/06/23	In-compliance
4A3	Rain Garden	1911 W. Marshall St	Jubilee Presbyterian Church	Jubilee Presbyterian Church	06/06/23	In-compliance
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4B2	Infiltration Trench	1911 W. Marshall St	Jubilee Presbyterian Church	Jubilee Presbyterian Church	06/06/23	In-compliance
4C	Porous Paving	2530 Stinson Ln	Jubilee Presbyterian Church	Jubilee Presbyterian Church	06/06/23	In-compliance
6	Detention Basin	101 Fairway Ln	Fairways at Green Meadows	Fairways Residential LP	06/06/23	In-compliance
7	Detention Basin	2 Liberty Av	Mobile Lifts Inc.	Liberty 2 LLC	07/05/23	In-compliance
8	Underground Basin	431 Burnside Av	Mikelen, LLC	Roderick Williams	06/06/23	In-compliance
9	Detention Basin	48 S. Trooper Rd	Yocum Roofing	Frank Yocum	06/06/23	In-compliance
10	Detention Basin	1525 W. Marshall St	Marshall Street Elementary School	West Norriton School Authority	07/05/23	In-compliance
11A	Detention Basin	900 S. Trooper Rd	St. Sophia's Church	St Sophia Greek Orthodox Church	06/06/23	In-compliance
11B1	Bioretention Area	900 S. Trooper Rd	St. Sophia's Church	St Sophia Greek Orthodox Church	06/06/23	In-compliance
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For Operation & Maintenance requirements, refer to the PA Stormwater BMP Manual.

*Not a PCSM BMP (pre-2003) - inspected to ensure proper O&M of the Township-owned BMPs

**PRP BMP - inspected to ensure proper O&M of the Township's BMPs



APPENDIX B

PCSM BMP Location Map



Cedarville Engineering Group, LLC

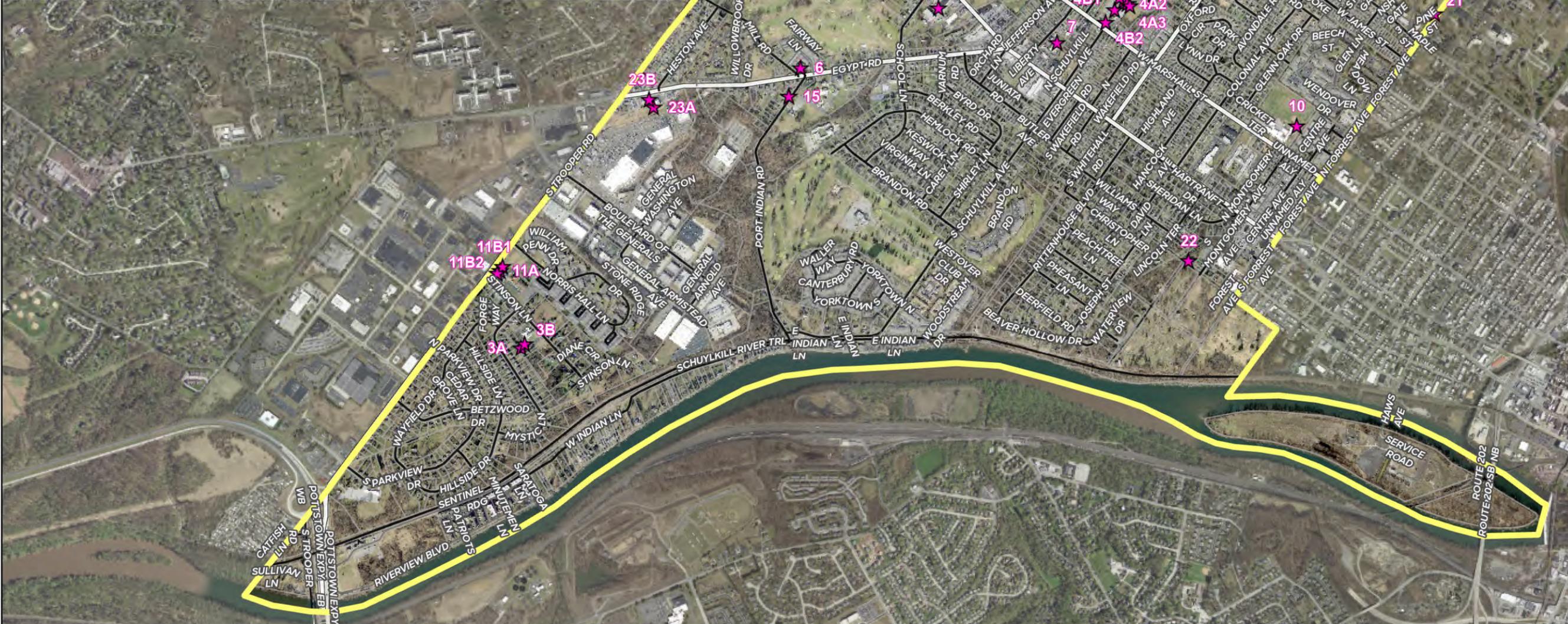
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BMP #	BMP Type	BMP Address	Site Name	Responsible Entity	Date of Last Inspection	2022 Compliance Status
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 **PRP BMP - inspected to ensure proper O&M of the Township's BMPs



DISCLAIMER:
 This product is for informational purposes and may not have been prepared for, or be suitable for, legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information. Infrastructure ownership information is displayed for general planning purposes. It may not be accurate and is not legal or definitive.

WEST NORRITON TOWNSHIP

POST CONSTRUCTION STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES

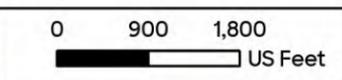
MONTGOMERY COUNTY, PENNSYLVANIA

DATE: 8/14/2023

DRAWN BY: WH

Legend

- ★ PCSM BMPs
- ▭ Parcels
- ▭ Township Boundary
- Township Road
- State Road
- Private Road





APPENDIX C

Inspection Reports



Cedarville Engineering Group, LLC

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**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	1	Site Name:	X
BMP Type:	Underground Detention Facility	Temperature:	75, Cloudy
		Weather:	
NPDES Permit #:		Date:	06/21/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Public Storage, Inc.	Responsible Party Address:	PO Box 25025, Glendale, CA 91221-5025
Responsible Party(s):	X	BMP Address:	900 S. Trooper Rd, Norristown, PA 19403

Inspector:	J Shuey	Inspector Signature:	
-------------------	---------	-----------------------------	--

Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 1		BMP Type: Underground Detention Facility	BMP Address: 900 S. Trooper Rd, Norristown, PA 19403
Photo No. 1	Date: 06/21/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/21/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 1		BMP Type: Underground Detention Facility	BMP Address: 900 S. Trooper Rd, Norristown, PA 19403
Photo No. 3	Date: 06/21/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/21/2023		
Description			
Observation inlet clear of water and debris.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	2	Site Name:	X
BMP Type:	Detention basin	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	West Norriton Township	Responsible Party Address:	
Responsible Party(s):	X	BMP Address:	129 Wagon Wheel Rd, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP #: 2		BMP Type: Detention basin	BMP Address: 129 Wagon Wheel Rd, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
View of inlet to the basin.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overview of the inflow apron.			
Violation Type (if applicable):			

BMP #: 2		BMP Type: Detention basin	BMP Address: 129 Wagon Wheel Rd, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
Inflow to the basin.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
Overview of the basin.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	3A	Site Name:	X
BMP Type:	Detention Basin	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Church of Jesus Christ of Latter-Day Saints	Responsible Party Address:	2500 Stinson Ln, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	2500 Stinson Ln, Norristown, PA 19403

Inspector:	S.Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection	Photo No. _____ Comments: _____					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No. _____	Comments: _____					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection. It should be noted that there was a cinder block in front of the orifice of the riser.

Refer to the following pages for photographs and violation descriptions.

BMP #: 3A		BMP Type: Detention Basin	BMP Address: 2500 Stinson Ln, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 3A		BMP Type: Detention Basin	BMP Address: 2500 Stinson Ln, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the swale leading to the BMP.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
View of the riser structure.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	3B	Site Name:	X
BMP Type:	Snout	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Church of Jesus Christ of Latter-Day Saints	Responsible Party Address:	2500 Stinson Ln, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	2500 Stinson Ln, Norristown, PA 19403

Inspector:	S.Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection	Photo No. Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP #: 3B		BMP Type: Snout	BMP Address: 2500 Stinson Ln, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
View of the inlet.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
View of snout.			
Violation Type (if applicable):			

BMP #: 3B		BMP Type: Snout	BMP Address: 2500 Stinson Ln, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	4A1	Site Name:	X
BMP Type:	Rain Garden	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Jubilee Presbyterian Church	Responsible Party Address:	1911 W. Marshall St, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	1911 W. Marshall St, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection	Photo No. _____ Comments: _____					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No. _____	Comments: _____					



BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning as per design at time of inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 4A1		BMP Type: Rain Garden	BMP Address: 1911 W. Marshall St, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Contributing drainage area.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overview of BMP.			
Violation Type (if applicable):			

BMP #: 4A1		BMP Type: Rain Garden	BMP Address: 1911 W. Marshall St, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
Overview of BMP.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
Overview of BMP.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	4A2	Site Name:	X
BMP Type:	Rain Garden	Temperature:	73, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Jubilee Presbyterian Church	Responsible Party Address:	1911 W. Marshall St, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	1911 W. Marshall St, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection	Photo No. _____ Comments: _____					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No. _____	Comments: _____					



BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 4A2		BMP Type: Rain Garden	BMP Address: 1911 W. Marshall St, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
View of outlet riser.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of BMP.			
Violation Type (if applicable):			

BMP #: 4A2		BMP Type: Rain Garden	BMP Address: 1911 W. Marshall St, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
Overall view of BMP.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	4A3	Site Name:	X
BMP Type:	Rain Garden	Temperature:	73, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Jubilee Presbyterian Church	Responsible Party Address:	1911 W. Marshall St, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	1911 W. Marshall St, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection	Photo No. _____ Comments: _____					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No. _____	Comments: _____					



BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 4A3		BMP Type: Rain Garden	BMP Address: 1911 W. Marshall St, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 4A3		BMP Type: Rain Garden	BMP Address: 1911 W. Marshall St, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
View of contributing drainage area.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	4B1	Site Name:	X
BMP Type:	Infiltration Trench	Temperature:	70, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Jubilee Presbyterian Church	Responsible Party Address:	1911 W. Marshall St, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	1911 W. Marshall St, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection	Photo No. _____ Comments: _____					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No. _____	Comments: _____					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 4B1		BMP Type: Infiltration Trench	BMP Address: 1911 W. Marshall St, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
View BMP inlet.			
Violation Type (if applicable):			

BMP #: 4B1		BMP Type: Infiltration Trench	BMP Address: 1911 W. Marshall St, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
View of contributing drainage area.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	4B2	Site Name:	X
BMP Type:	Infiltration Trench	Temperature:	70, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Jubilee Presbyterian Church	Responsible Party Address:	1911 W. Marshall St, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	1911 W. Marshall St, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection	Photo No. _____ Comments: _____					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No. _____	Comments: _____					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP #: 4B2		BMP Type: Infiltration Trench	BMP Address: 1911 W. Marshall St, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 4B2		BMP Type: Infiltration Trench	BMP Address: 1911 W. Marshall St, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
View of the inlet from the infiltration trench.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	4C	Site Name:	X
BMP Type:	Porous Paving	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Jubilee Presbyterian Church	Responsible Party Address:	1911 W. Marshall St, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	1911 W. Marshall St, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection	Photo No. _____ Comments: _____					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No. _____	Comments: _____					



BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 4C		BMP Type: Porous Paving	BMP Address: 1911 W. Marshall St, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 4C		BMP Type: Porous Paving	BMP Address: 1911 W. Marshall St, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023		
Description			
Overall view of the BMP.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	6	Site Name:	X
BMP Type:	Detention Basin	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Fairways Residential LP	Responsible Party Address:	1030 W. Germantown Pike, PO Box 287, Fairview Village, PA 19409
Responsible Party(s):	X	BMP Address:	2000 Mill Rd, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 6		BMP Type: Detention Basin	BMP Address: 2000 Mill Rd, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 6		BMP Type: Detention Basin	BMP Address: 2000 Mill Rd, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of inlet.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
View of inlet.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	7	Site Name:	X
BMP Type:	Detention Basin	Temperature:	90, Sunny
		Weather:	
NPDES Permit #:		Date:	07/05/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Jean Holt	Responsible Party Address:	15402 Shannondell Dr, Audubon, PA 19403
Responsible Party(s):	X	BMP Address:	

Inspector:	Matt Soffera	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 7		BMP Type: Detention Basin	BMP Address:
Photo No. 1	Date: 07/05/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 07/05/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 7		BMP Type: Detention Basin	BMP Address:
Photo No. 3	Date: 07/05/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 07/05/2023	Date:	
Description			
View of the connected downspouts to the system.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	8	Site Name:	X
BMP Type:	Underground Basin	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Roderick Williams	Responsible Party Address:	2171 Alexander Dr, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	2171 Alexander Dr, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 8		BMP Type: Underground Basin	BMP Address: 2171 Alexander Dr, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Inside the observation inlet.			
Violation Type (if applicable):			

BMP #: 8		BMP Type: Underground Basin	BMP Address: 2171 Alexander Dr, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the location of the underground BMP.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
View inside the second observation inlet on the far side of the property.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	9	Site Name:	X
BMP Type:	Detention Basin	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Frank Yocum	Responsible Party Address:	48 S. Trooper Rd, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	48 S. Trooper Rd, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 9		BMP Type: Detention Basin	BMP Address: 48 S. Trooper Rd, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overview of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Connected downspouts.			
Violation Type (if applicable):			

BMP #: 9		BMP Type: Detention Basin	BMP Address: 48 S. Trooper Rd, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of outlet riser.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
Inflow to the basin.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	10	Site Name:	X
BMP Type:	Detention Basin	Temperature:	90, Sunny
		Weather:	
NPDES Permit #:		Date:	07/05/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	West Norriton School Authority	Responsible Party Address:	401 N. Whitehall Rd, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	401 N. Whitehall Rd, Norristown, PA 19403

Inspector:	Matt Soffera	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 10		BMP Type: Detention Basin	BMP Address: 401 N. Whitehall Rd, Norristown, PA 19403
Photo No. 1	Date: 07/05/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 07/05/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 10		BMP Type: Detention Basin	BMP Address: 401 N. Whitehall Rd, Norristown, PA 19403
Photo No. 3	Date: 07/05/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 07/05/2023	Date:	
Description			
View of the structure leading to the BMP.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	11A	Site Name:	X
BMP Type:	Detention Basin	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	St Sophia Greek Orthodox Church	Responsible Party Address:	900 S. Trooper Rd, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	900 S. Trooper Rd, Norristown, PA 19403

Inspector:	S.Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection	Photo No. _____ Comments: _____					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No. _____	Comments: _____					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 11A		BMP Type: Detention Basin	BMP Address: 900 S. Trooper Rd, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 11A		BMP Type: Detention Basin	BMP Address: 900 S. Trooper Rd, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
View of the riser.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	11B1	Site Name:	X
BMP Type:	Bioretention Area	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	St Sophia Greek Orthodox Church	Responsible Party Address:	900 S. Trooper Rd, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	900 S. Trooper Rd, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection	Photo No. _____ Comments: _____					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No. _____	Comments: _____					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 11B1		BMP Type: Bioretention Area	BMP Address: 900 S. Trooper Rd, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 11B1		BMP Type: Bioretention Area	BMP Address: 900 S. Trooper Rd, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
View of the structure leading to the BMP.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	11B2	Site Name:	X
BMP Type:	Bioretention Area	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	St Sophia Greek Orthodox Church	Responsible Party Address:	900 S. Trooper Rd, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	900 S. Trooper Rd, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection	Photo No. _____ Comments: _____					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No. _____	Comments: _____					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						

BMP #: 11B2		BMP Type: Bioretention Area	BMP Address: 900 S. Trooper Rd, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 11B2		BMP Type: Bioretention Area	BMP Address: 900 S. Trooper Rd, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
Overview of Bioretention area.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	13	Site Name:	X
BMP Type:	Infiltration Trench	Temperature:	90, Sunny
		Weather:	
NPDES Permit #:		Date:	07/05/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Ray Gross	Responsible Party Address:	PO Box 7727, York, PA 17404
Responsible Party(s):	X	BMP Address:	139 Clemens Cir, Jeffersonville, PA 19403

Inspector:	Matt Soffera	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 13		BMP Type: Infiltration Trench	BMP Address: 139 Clemens Cir, Jeffersonville, PA 19403
Photo No. 1	Date: 07/05/2023	Date:	
Description			
Overview of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 07/05/2023	Date:	
Description			
Contributing drainage area.			
Violation Type (if applicable):			

BMP #: 13		BMP Type: Infiltration Trench	BMP Address: 139 Clemens Cir, Jeffersonville, PA 19403
Photo No. 3	Date: 07/05/2023	Date:	
Description			
View of the cleanout. Running water appears to be coming from ground water source.			
Violation Type (if applicable):			
Photo No. 4	Date: 07/05/2023	Date:	
Description			
View of inlet			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	14	Site Name:	X
BMP Type:	Detention Basin	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Wawa Inc.	Responsible Party Address:	260 W. Baltimore Pike, Wawa, PA 19063
Responsible Party(s):	X	BMP Address:	2544 W Main St, Norristown, PA, 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input checked="" type="checkbox"/> Other: Vegetation needs to be cleared from inflows			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input checked="" type="checkbox"/> Other: Vegetation needs to be cleared from in front of outlet	
<input type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection. Inflows are blocked with vegetation.

Refer to the following pages for photographs and violation descriptions.

BMP #: 14		BMP Type: Detention Basin	BMP Address: 2544 W Main St, Norristown, PA, 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overview of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
View of the inflow to the basin.			
Violation Type (if applicable):			

BMP #: 14		BMP Type: Detention Basin	BMP Address: 2544 W Main St, Norristown, PA, 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the info to the basin.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
Overview of the basin.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	15	Site Name:	X
BMP Type:	Seepage bed	Temperature:	90, Sunny
		Weather:	
NPDES Permit #:		Date:	07/05/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	George Chad Springer	Responsible Party Address:	519 Port Indian Rd, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	519 Port Indian Rd, Norristown, PA 19403

Inspector:	Matt Soffera	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks: View from monitoring well. BMP appears to be in compliance

Refer to the following pages for photographs and violation descriptions.

BMP #: 15		BMP Type: Seepage bed	BMP Address: 519 Port Indian Rd, Norristown, PA 19403
Photo No. 1	Date: 07/05/2023	Date:	
Description			
View of the downspout connection			
Violation Type (if applicable):			
Photo No. 2	Date: 07/05/2023	Date:	
Description			
Connected downspout			
Violation Type (if applicable):			

BMP #: 15		BMP Type: Seepage bed	BMP Address: 519 Port Indian Rd, Norristown, PA 19403
Photo No. 3	Date: 07/05/2023	Date:	
Description			
Connected downspout			
Violation Type (if applicable):			
Photo No. 4	Date: 07/05/2023	Date:	
Description			
View of the first monitoring well			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	16	Site Name:	X
BMP Type:	Underground Stone Infiltration Pit	Temperature:	90, Sunny
		Weather:	
NPDES Permit #:		Date:	07/05/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Jaylene Penrod	Responsible Party Address:	139 Clemens Cir, Jeffersonville, PA 19403
Responsible Party(s):	X	BMP Address:	139 Clemens Cir, Jeffersonville, PA 19403

Inspector:	Matt Soffera	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input checked="" type="checkbox"/> Other: Inaccessible		
<input type="checkbox"/> No violations present at the time of inspection	Photo No. _____ Comments: _____					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input checked="" type="checkbox"/> Other: Inaccessible			
Photo No. _____	Comments: _____					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input type="checkbox"/> No violations present at the time of inspection	<input checked="" type="checkbox"/> Other: Inaccessible					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input checked="" type="checkbox"/> Other: Inaccessible		
<input type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input checked="" type="checkbox"/> Other: Inaccessible	
<input type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input checked="" type="checkbox"/> Other: Inaccessible	
<input type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input checked="" type="checkbox"/> Other: Inaccessible	
<input type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input checked="" type="checkbox"/> Other: Inaccessible				
<input type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input checked="" type="checkbox"/> Other: Inaccessible				
<input type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	17	Site Name:	X
BMP Type:	Underground Stone Infiltration Pit	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Joseph Logue	Responsible Party Address:	137 Clemens Cir, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	137 Clemens Cir, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 17		BMP Type: Underground Stone Infiltration Pit	BMP Address: 137 Clemens Cir, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Connected downspout.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overview of BMP.			
Violation Type (if applicable):			

BMP #: 17		BMP Type: Underground Stone Infiltration Pit	BMP Address: 137 Clemens Cir, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the cleanout.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	18	Site Name:	X
BMP Type:	Underground Stone Infiltration Pit	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Mary Howard	Responsible Party Address:	135 Clemens Cir, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	135 Clemens Cir, Norristown, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 18		BMP Type: Underground Stone Infiltration Pit	BMP Address: 135 Clemens Cir, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overview of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Connected downspouts.			
Violation Type (if applicable):			

BMP #: 18		BMP Type: Underground Stone Infiltration Pit	BMP Address: 135 Clemens Cir, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the cleanout.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	19	Site Name:	X
BMP Type:	Seepage Bed	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Couchara John and Karen	Responsible Party Address:	3225 Eisenhower Dr, East Norriton, PA 19403
Responsible Party(s):	X	BMP Address:	2171 Alexander Dr, Eagleville, PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 19		BMP Type: Seepage Bed	BMP Address: 2171 Alexander Dr, Eagleview, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 19		BMP Type: Seepage Bed	BMP Address: 2171 Alexander Dr, Eagleville, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	21	Site Name:	X
BMP Type:	Detention Basin	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Commonwealth of Pennsylvania	Responsible Party Address:	1001 Sterigere St, Norristown PA 19403
Responsible Party(s):	X	BMP Address:	1001 Sterigere St, Norristown PA 19403

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection	Photo No. Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 21		BMP Type: Detention Basin	BMP Address: 1001 Sterigere St, Norristown PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 21		BMP Type: Detention Basin	BMP Address: 1001 Sterigere St, Norristown PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the overflow structure.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
View of the rock overflow structure.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	22	Site Name:	X
BMP Type:	Seepage Bed	Temperature:	90, Sunny
		Weather:	
NPDES Permit #:		Date:	07/05/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Cook Matthew and Eileen	Responsible Party Address:	51 S. Montgomery Ave, Norristown, PA 19403
Responsible Party(s):	X	BMP Address:	51 S. Montgomery Ave, Norristown, PA 19403

Inspector:	Matt Soffera	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP #: 22		BMP Type: Seepage Bed	BMP Address: 51 S. Montgomery Ave, Norristown, PA 19403
Photo No. 1	Date: 07/05/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 07/05/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 22		BMP Type: Seepage Bed	BMP Address: 51 S. Montgomery Ave, Norristown, PA 19403
Photo No. 3	Date: 07/05/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 07/05/2023	Date:	
Description			
View of the observation inlet.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	23A	Site Name:	X
BMP Type:	Underground Detention Facility	Temperature:	75, Cloudy
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Delval Properties Associates	Responsible Party Address:	910 E Germantown Pike, Plymouth Meeting, PA 19462
Responsible Party(s):	X	BMP Address:	432 Egypt Rd, Norristown, PA 19403

Inspector:	S.Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

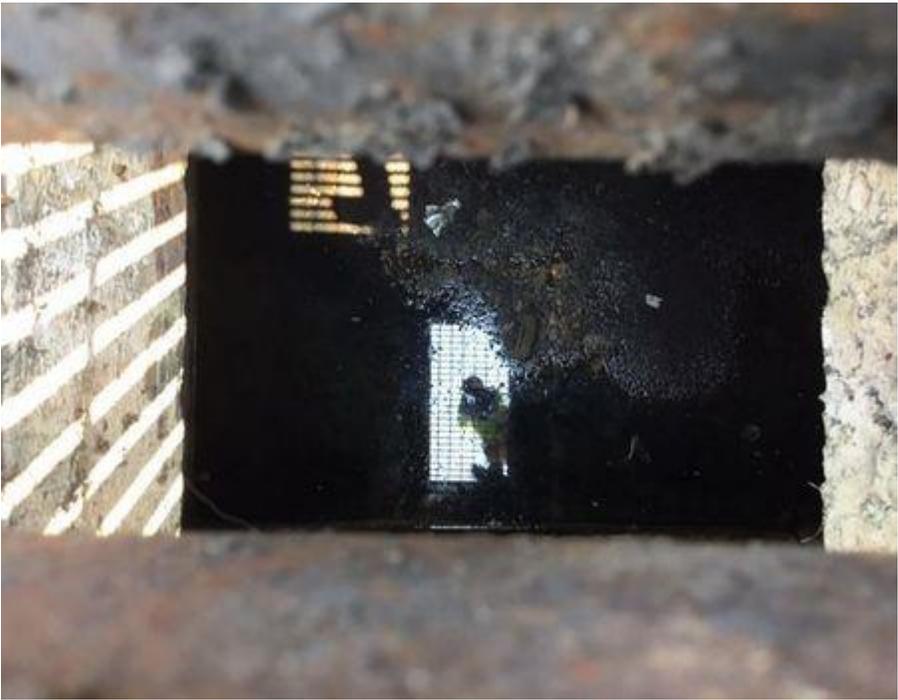
Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 23A		BMP Type: Underground Detention Facility	BMP Address: 432 Egypt Rd, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: 23A		BMP Type: Underground Detention Facility	BMP Address: 432 Egypt Rd, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
View inside bmp.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	23B	Site Name:	X
BMP Type:	Seepage Bed	Temperature:	70, Cloudy
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Delval Properties Associates	Responsible Party Address:	910 E Germantown Pike, Plymouth Meeting, PA 19462
Responsible Party(s):	X	BMP Address:	432 Egypt Rd, Norristown, PA 19403

Inspector:	S.Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks:

BMP appears to be functioning per design at the time of the inspection.

Refer to the following pages for photographs and violation descriptions.

BMP #: 23B		BMP Type: Seepage Bed	BMP Address: 432 Egypt Rd, Norristown, PA 19403
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023		
Description			
Inlet observation view of the BMP.			
Violation Type (if applicable):			

BMP #: 23B		BMP Type: Seepage Bed	BMP Address: 432 Egypt Rd, Norristown, PA 19403
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the contributing drainage area.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
View of the structure leading to the BMP.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	26	Site Name:	X
BMP Type:	Detention Basin	Temperature:	75, Sunny
		Weather:	
NPDES Permit #:		Date:	06/06/2023
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	West Norriton Township	Responsible Party Address:	1630 W Marshall St.
Responsible Party(s):	X	BMP Address:	Alexander Dr. & Burnside Blvd

Inspector:	S. Wachsmuth	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment <input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input type="checkbox"/> Other:						
Photo No.	Comments:					
Outlet <input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
Photo No.	Comments: Accumulation of algae blocking riser inlet					
Overflows or Emergency Spillways <input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
Photo No.	Comments:					
Bio-Filter Media <input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
Photo No.	Comments:					
Stone Bed/Underdrain <input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
Photo No.	Comments:					
Vegetation <input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
Photo No.	Comments:					
Insects & Rodents <input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
Photo No.	Comments:					
Spill Prevention <input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
Photo No.	Comments:					

BMP Component	Violations Observed			
Access				
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> BMP not accessible or blocked	<input type="checkbox"/> Other:		
Photo No.	Comments:			
Overall	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of oil/chemical presence	<input type="checkbox"/> Other
Photo No.	Comments:			

Is the BMP in Compliance? Yes No

Notable Correspondence and Recent Actions:

Remarks: BMP appears to function as designed

Refer to the following pages for photographs and violation descriptions.

BMP #: X		BMP Type: Detention Basin	BMP Address: Alexander Dr. & Burnside Blvd
Photo No. 1	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			
Photo No. 2	Date: 06/06/2023	Date:	
Description			
Overall view of the BMP.			
Violation Type (if applicable):			

BMP #: X		BMP Type: Detention Basin	BMP Address: Alexander Dr. & Burnside Blvd
Photo No. 3	Date: 06/06/2023	Date:	
Description			
View of the micro pools.			
Violation Type (if applicable):			
Photo No. 4	Date: 06/06/2023	Date:	
Description			
View of the inflow to the basin.			
Violation Type (if applicable):			



**WEST NORRITON TOWNSHIP
POST CONSTRUCTION STORMWATER MANAGEMENT INSPECTION REPORT**

BMP #:	27	Site Name:	X
BMP Type:	Basin	Temperature:	90, Sunny
		Weather:	
NPDES Permit #:		Date:	07/05/2023
Year Constructed:	Retrofitting in progress	Rainfall within 72 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PCSM BMP Plan Reference:	X	Structural/Non-Structural:	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):	Benchmark Site Development	Responsible Party Address:	2421 Boulevard of the Generals
Responsible Party(s):	X	BMP Address:	2421 Boulevard of the Generals

Inspector:	Matt Soffera	Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



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BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input checked="" type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input checked="" type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					

BMP #: X		BMP Type: Basin	BMP Address: 2421 Boulevard of the Generals
Photo No. 1	Date: 07/05/2023	Date:	
Description			
Overall view of the basin.			
Violation Type (if applicable):			
Photo No. 2	Date: 07/05/2023	Date:	
Description			
View facing the inflow swale to the basin.			
Violation Type (if applicable):			

BMP #: X		BMP Type: Basin	BMP Address: 2421 Boulevard of the Generals
Photo No. 3	Date: 07/05/2023	Date:	
Description			
View of the riser.			
Violation Type (if applicable):			
Photo No. 4	Date: 07/05/2023	Date:	
Description			
View inside the riser structure.			
Violation Type (if applicable):			



Annual MS4 Status Report

APPENDIX E

MCM #6 Pollution Prevention/Good Housekeeping

1. Employee Training Documentation



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NPDES MS4 Program Overview, Outfall Field Screening, and Pollution Prevention & Good Housekeeping



Employee Training

Amanda Reitbauer, CEG
Project Manager

August 30, 2022
West Norriton Township Building

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Why is the Township's Stormwater Management Program important?

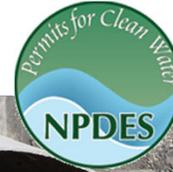


- Reduce pollutants into municipal storm sewer systems and streams.
- Protect water quality.
- It is a state and federal requirement.



2

Background



What is the NPDES MS4 Program?

- National Pollutant Discharge Elimination System
- Municipal Separate Storm Sewer System
- EPA-mandated (NPDES)
- DEP administers in Pennsylvania
- Ultimate goals for the MS4 program
 - Recognize and increase awareness of stormwater as a point-source pollutant
 - Manage stormwater as any other point-source pollutant (i.e. wastewater, industrial, etc.)



6

3

Minimum Control Measures



1. Public Education & Outreach
2. Public Involvement & Participation
- ★ 3. Illicit Discharge Detection & Elimination
4. Construction Site Stormwater Runoff Control
5. Post Construction Stormwater Management for Development & Redevelopment
- ★ 6. Pollution Prevention/Good Housekeeping



Annual Status Report

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MCM #3 Illicit Discharge Detection & Elimination!



MS4 Permit Requirements for Discharge Detection and Elimination



6 Best Management Practices (BMPs)

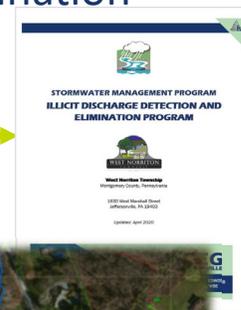
BMP #1: Written IDD&E Program

BMPs #2 and #3: Mapping

BMP #4: Dry Weather Outfall Field Screening

BMP #5: Ordinance Prohibiting
Non-Stormwater Discharges into the MS4

BMP #6: Educational outreach specific to IDD&E



MCM #3 - IDD&E

What is an Illicit Discharge?



- Any discharge (or seepage) to a MS4 that is not composed entirely of stormwater.
 - Does not refer to discharges authorized under a NPDES permit.



Pet waste



Leaking dumpsters



Grass clippings



Sediment runoff from construction sites



Parking lot trash



Leaf litter

7

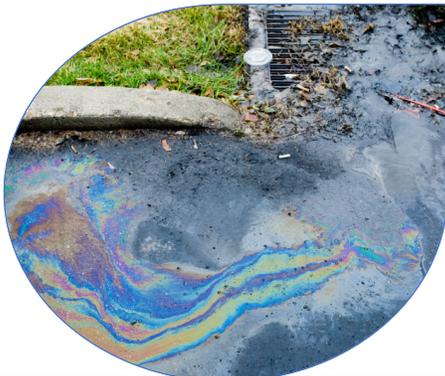
How do you detect an Illicit Discharge?



Motor vehicle fluids (oil, etc.)

Color: Rainbow sheen

Odor: Petroleum or gasoline smell



Soaps, detergents

Color: White, grey, cloudy

Odor: Laundry detergent, soaps, or none at all



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Sediment	Restaurant Grease	Sewage
<p>Color: Brown, orange/yellow, "chocolate milk"</p> <p>Odor: None</p>	<p>Color: Yellow, golden, brown</p> <p>Odor: Cooking grease, petroleum</p>	<p>Color: Grey</p> <p>Odor: Sulfur, fecal matter</p>
		

9



What do you do when you see an Illicit Discharge?

- **Resident:** Call Township
- **Public Works:** Report to MS4 point person

DOCUMENT!!!





10



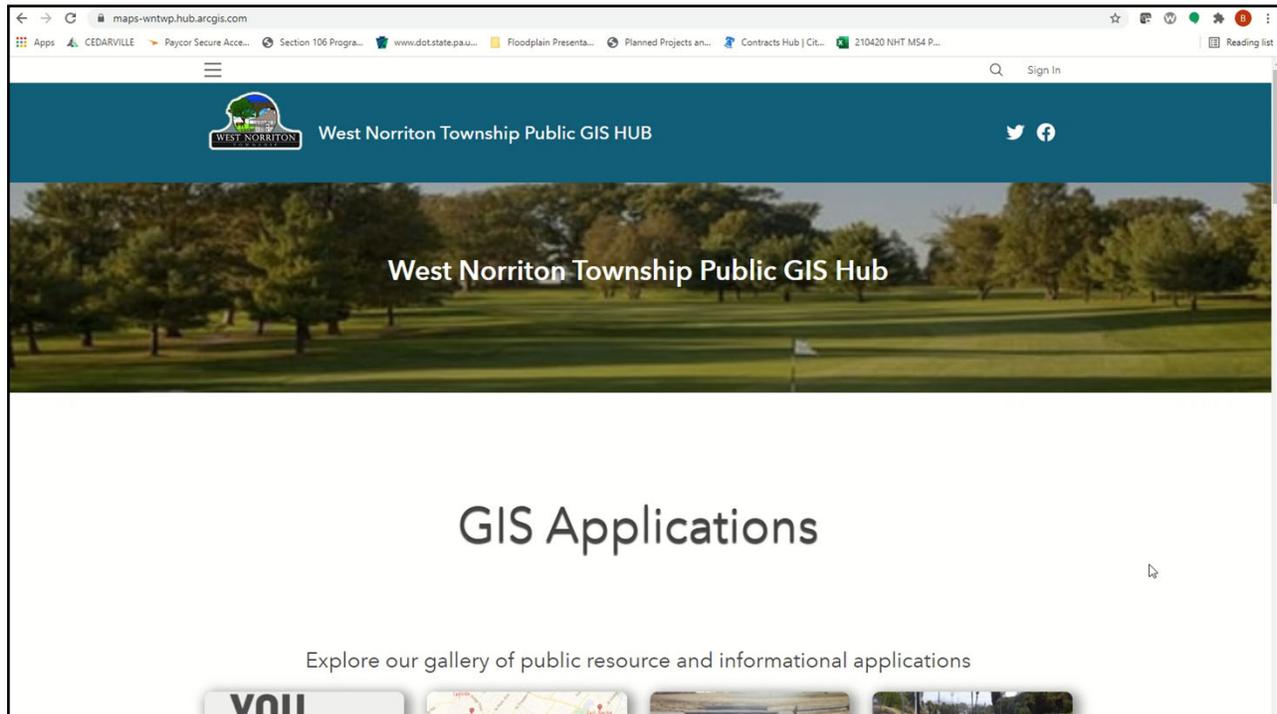
IDD&E Outfall Field Screening

- **What is an Outfall?**
 - A point source where an MS4 discharges stormwater to surface waters...
- **How often?**
 - Once per permit term
 - Priority Areas and known Continual Dry Weather Flows: Annually
- **When?**
 - “Dry weather” is anytime following the initial 48 hours after a stormwater producing event.
- **What?**
 - Dry weather flows
 - Color, Turbidity, Sheen, Floating or submerged solids, Odor
- **Sampling**
- **Compliance & Enforcement per IDD&E Program**
- **Documentation, documentation, documentation.**



CEG satisfies this requirement!

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maps-writwp.hub.arcgis.com

West Norriton Township Public GIS HUB

West Norriton Township Public GIS Hub

GIS Applications

Explore our gallery of public resource and informational applications

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Eliminating an Illicit Discharge

- Voluntary Compliance
- Enforcement
 - Enforcement Notice
 - Notice of Violation
 - Citation
 - Cease & Desist Order
 - Penalties and fines

Program Documentation



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MCM #3 - IDD&E Stormwater Management Ordinance

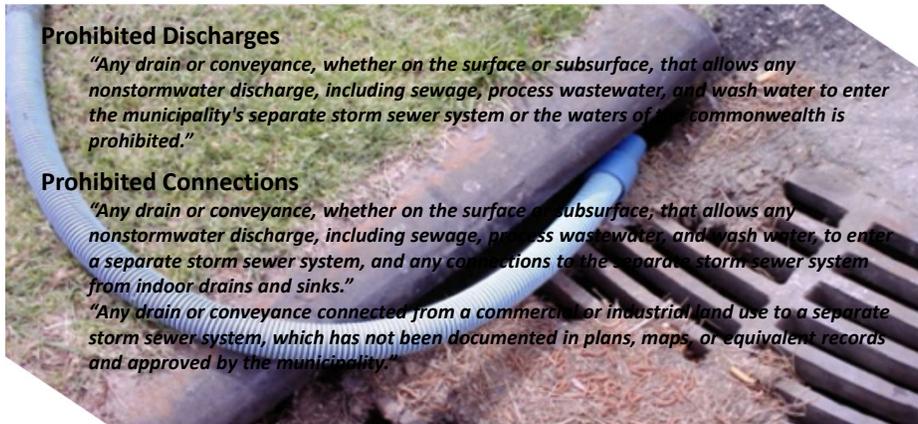
Prohibited Discharges

"Any drain or conveyance, whether on the surface or subsurface, that allows any nonstormwater discharge, including sewage, process wastewater, and wash water to enter the municipality's separate storm sewer system or the waters of the commonwealth is prohibited."

Prohibited Connections

"Any drain or conveyance, whether on the surface or subsurface, that allows any nonstormwater discharge, including sewage, process wastewater, and wash water, to enter a separate storm sewer system, and any connections to the separate storm sewer system from indoor drains and sinks."

"Any drain or conveyance connected from a commercial or industrial land use to a separate storm sewer system, which has not been documented in plans, maps, or equivalent records and approved by the municipality."



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MCM #3 - IDD&E Stormwater Management Ordinance

Authorized Discharges*

- Discharges from firefighting activities.
- Potable water sources including dechlorinated water line and fire hydrant flushings.
- Irrigation drainage.
- Routine external building washdown (which does not use detergents or other compounds).
- Air conditioning condensate.
- Water from individual residential car washing.
- Spring water from crawl space pumps.
- Uncontaminated water from foundation or from footing drains.
- Flows from riparian habitats and wetlands.
- Lawn watering.
- Pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spill material has been removed) and where detergents are not used.
- **Dechlorinated swimming pool discharges.**
- Uncontaminated groundwater.



**To be updated for consistency with 2018 NPDES MS4 Permit and 2022 DEP Model Stormwater Management Ordinance by September 30, 2022.*

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Now, let's learn more about MCM #6 Pollution Prevention & Good Housekeeping!



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MCM #6 Pollution Prevention and Good Housekeeping

- Goal of the Operation & Maintenance (O&M) Program is:
 - to prevent/reduce pollutants from municipal operations to the maximum extent practical



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Good Housekeeping

- Maintain a clean and orderly work environment.
- Prevent pollutant discharges into floor drains.
- Regularly inspect and maintain equipment.
- Proper chemical storage.
- Have spill clean-up materials present and accessible.



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Hazardous Spill Clean-up Sheet

Inventory Sheet No.: _____ Date of Spill: _____
 Storage Facility Name & Address: _____
 Preparer Name(s): _____ Time of Spill: _____

What was spilled and how much?
Approximately ½ gallon of oil.

How long after the spill occurred did clean-up operations commence?
Within 5 minutes.

How was the spill cleaned up and how was the material disposed of?
Oil dry powder was applied to the spill and given time to absorb. The powder was swept up and disposed of in a sealed bag.

Are there any other actions that need to be undertaken regarding this spill?
No.

Contractor/Public Works Personal Contact Information
 Employer:
 Name:
 Phone Number:
 Address:

Additional Comments

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Materials Storage & Handling



- Containers, drums, and bags stored away.
- All chemicals stored in a designated cabinet.
- Chemical, fluids and supplies kept indoors.
- If outside, containers to be covered and placed on platforms.
- Contain spill with dike, berm, or absorbent materials and dispose of properly after use.

Material	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT
Salt (amount used)										
Yard Waste (amount collected)										
Street Sweeping (amount collected)										
Other:										
Other:										



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Inspection- Township-Owned Stormwater BMPs



- Inspect after severe weather to ensure proper functioning.
- All inspections, results, and recommendations are to be documented.



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Inspection- Storm Drain Inlets



- Inspect to determine trash/sediment load and overall condition of the structure.
- Check for evidence of illegal dumping or illicit discharges.
- **Document!!!**



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Inspection- Storm Sewer Piping, Drainage Channels, and Outfalls



- Inspect for:
 - Trash, debris, sediment build-up, obstructions, and water quality
- Document!!!



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Storm Sewer System O&M Form



Date of Inspection:		Facility Name:				
Inspector:		Facility Location:				
Components/Items to Check	Problems Observed	Maintenance/Repairs Necessary			Comments	Location (House #, distance from intersection)
		Yes	No	N/A		
Catch Basin/Drop Inlet	<input type="checkbox"/> Deterioration of Structure					
	<input type="checkbox"/> Clogged Inlets During or After Storm Event					
	<input type="checkbox"/> Deposits in Structure					
Storm Manhole	<input type="checkbox"/> Deterioration of Structure					
	<input type="checkbox"/> Deposits in Structure					
Storm Sewer Piping	<input type="checkbox"/> Clogged Pipe					
	<input type="checkbox"/> Deteriorated Pipe					
Ditches/Swales	<input type="checkbox"/> Excessive Vegetation					
	<input type="checkbox"/> Debris (branches, litter, garbage, etc.)					
	<input type="checkbox"/> Excessive Siltation					
Roadside/Cross Culverts	<input type="checkbox"/> Clogged Pipe					
	<input type="checkbox"/> Deteriorated Pipe					

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Municipal Facility O&M Form



Date of Inspection:		Facility Name:				
Inspector:		Facility Location:				
Category	Components/Items to Check	Problems Observed	Maintenance/Repairs Necessary			Comments / Actions Taken
			Yes	No	N/A	
Hazardous Spill Response and Prevention	Products/waste storage areas	<input type="checkbox"/> Uncovered/deteriorating containers <input type="checkbox"/> Materials spilled, leaks				
	Equipment storage areas	<input type="checkbox"/> Fluid Leaks				
	Secondary containment systems	<input type="checkbox"/> Structural deterioration <input type="checkbox"/> Leakage of fluids				
	Oil/water separators	<input type="checkbox"/> Excessive amounts of contaminants				
Hazardous and Waste Materials Management	Floor drains, storm receiver inlets and outlets	<input type="checkbox"/> Accumulation of contaminants				
	Outside storage areas	<input type="checkbox"/> Weathering				
	Salt piles	<input type="checkbox"/> Salt staining <input type="checkbox"/> Salt runoff				
	Soil staging areas	<input type="checkbox"/> Deterioration				
Vehicle and Equipment Maintenance	Aboveground storage tanks	<input type="checkbox"/> Potential for discharges				
	Inside storage areas	<input type="checkbox"/> Deterioration <input type="checkbox"/> Uncovered				
Vehicle and Equipment Maintenance	Trucks/equipment	<input type="checkbox"/> Leaks/spills				
	Salt/sand spreader	<input type="checkbox"/> Improper amounts of product applied				
Vehicle and Equipment Maintenance	Lawn care equipment	<input type="checkbox"/> Improper operation				
	Designated "wash only" area	<input type="checkbox"/> No impermeable pad with wastewater collection system <input type="checkbox"/> Does not flow to either a holding tank or to sanitary streets				
Vehicle and Equipment Washing Area	Wastewater discharge location	<input type="checkbox"/> Solvent based				
	Washing/degreasing compounds	<input type="checkbox"/> Nonexistent				
	Floor drain sump	<input type="checkbox"/> Excessive oils/sludges				
	Oil/water separator	<input type="checkbox"/> Nonexistent, accumulation of contaminants				
Road Salt Storage and Application	Catch basin	<input type="checkbox"/> Salt outside of shed				
	Storage shed	<input type="checkbox"/> Salt on ground				
Road Salt Storage and Application	Truck loading area	<input type="checkbox"/> Excessive salt on ground				
	Roads - (sites of application)	<input type="checkbox"/> Excessive salt on ground				
Roadway and Bridge Maintenance	Salt spreader	<input type="checkbox"/> Debris on seat or top of pier				
	Bridge Deck (top side)	<input type="checkbox"/> Debris - Salt on superstructure				
Roadway and Bridge Maintenance	Bridge Seats at Abutment, or Top of Piers	<input type="checkbox"/> Debris - Salt on superstructure				
	Washing of superstructure					

Category	Components/Items to Check	Problems Observed	Maintenance/Repairs Necessary			Comments / Actions Taken
			Yes	No	N/A	
Chlorinated Water	Pools	<input type="checkbox"/> Need to empty unit and replace water (not into storm sewer)				
	Pesticide storage area	<input type="checkbox"/> Excessive amounts of pesticides <input type="checkbox"/> Spilled pesticides <input type="checkbox"/> Empty containers <input type="checkbox"/> No security or access				
Pest Control	Application equipment	<input type="checkbox"/> Improper amounts of pesticides applied				
	Floor	<input type="checkbox"/> Drain system <input type="checkbox"/> Not curbed around perimeter				
Landscaping/Lawn Care	Grass/plant condition	<input type="checkbox"/> Wilted/brown leaves				
	General area	<input type="checkbox"/> Bare soil/erosion				
Street Cleaning and Maintenance	Roads (curb line)	<input type="checkbox"/> Debris, grit, snow				
	Milling	<input type="checkbox"/> Broken pavement (exposed material)				
	Paving	<input type="checkbox"/> Tack coat overspray				
	Storm drain inlets	<input type="checkbox"/> Broken brick, block, mortar				
Roadside vegetation		<input type="checkbox"/> Too High <input type="checkbox"/> None observed				

Tips

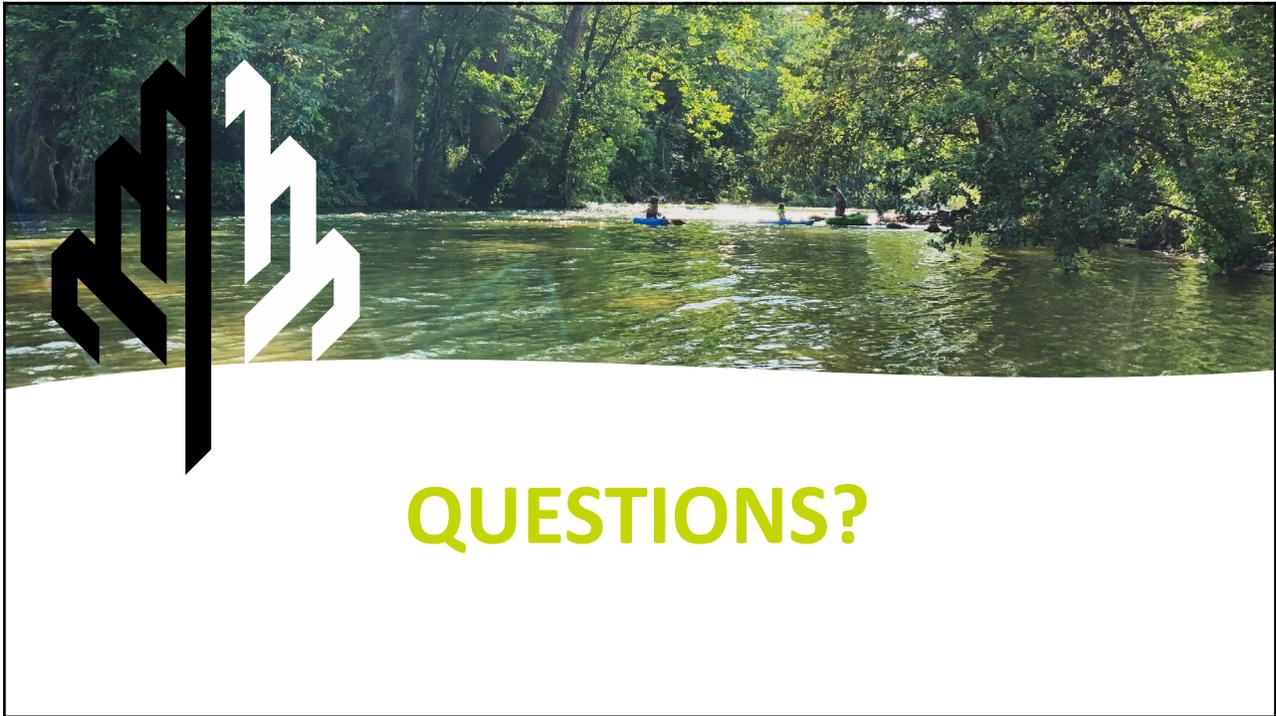


Designate a Public Works staff member to conduct more frequent routine inspections.

Always DOCUMENT inspections, screenings and O&M activities.

Don't just write it down. Take PHOTOS.

Notify Supervisor/Manager immediately if there appears to be an illicit discharge and/or safety concern.



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Field Trip...

BMP Inspection and Discussion



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August
~~October~~ 30, 2022

West Norriton Township
MS4 Training Sign-In Sheet

Name/Department	Date	Signature
Kenneth Krauer / Public Works	8/30/22	Kenneth Krauer
Ryan O'Donnell / Public Works	8/30/22	Ryan O'Donnell
Johnathan Kennedy	8/30/22	John Kennedy
Domenico A. Varone	8/30/22	Domenico A. Varone
JOHN BERGSTRASSE PUBLIWORKS	8/30/22	John Bergstrasse
Keith Burton Recreation	8/30/22	Keith Burton
Kenn Michener / Public Works	8/30/22	Kenn Michener
Mike Valyo / Public Works	8/30/22	Mike Valyo

The above-referenced attendees attended an in-person Township-specific MS4 training provided by CEDARVILLE Engineering Group, LLC (CEG) covering the following content:

- NPDES MS4 Program Overview
- Illicit Discharge Detection and Elimination (MCM #3)
- Pollution Prevention and Good Housekeeping (MCM #6)

~Course Instructor- Amanda Reitbauer, CEG





Annual MS4 Status Report

APPENDIX F

MS4 Infrastructure Map



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

P: 610-705-4500 E: info@CedarvilleEng.com

CedarvilleEng.com



NOTES:
 1. Parcels layer provided by the County (2023).
 2. The entire Township is covered by the 2010 Urbanized Area.

DISCLAIMER:
 This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information. Infrastructure ownership information is displayed for general planning purposes. It may not be accurate and is not legal or definitive.

DRAWN BY: WH
 DATE: 8/24/23
 1 INCH = 550 FEET
 0 275 550 1,100 US Feet



WEST NORRITON TOWNSHIP
MS4 INFRASTRUCTURE MAP
 MONTGOMERY COUNTY, PA

Legend

▲ OUTFALLS	STATE STRUCTURES
○ OBSERVATION POINTS	INLET
★ PCSH/BMPS	MANHOLE
	OUTFLOW
	CULVERT
	RISE
TOWNSHIP STRUCTURES	STATE CONVEYANCES
INLET	PIPE
MANHOLE	SWALE
INFLOW	CULVERT
OUTFLOW	INFILTRATION TRENCH
CULVERT	
RISE	
	X UNKNOW/STORMWATER STRUCTURES
TOWNSHIP CONVEYANCES	HUC 12 WATERSHEDS
PIPE	FEMA STREAMS
SWALE	LOCATED TRIBUTARIES
CULVERT	
INFILTRATION TRENCH	
	PARCELS
PRIVATE STRUCTURES	OWNER
INLET	TOWNSHIP
MANHOLE	STATE
INFLOW	PRIVATE
OUTFLOW	
CULVERT	TOWNSHIP BOUNDARY
RISE	MUNICIPALITIES
PRIVATE CONVEYANCES	
PIPE	
SWALE	
CULVERT	
INFILTRATION TRENCH	