



# **ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT**

**September 2018**

**PREPARED FOR:**

West Norriton Township  
Montgomery County, PA  
1630 W. Marshall Street  
Jeffersonville, PA 19403

**PREPARED BY:**

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State Certified DBE/WBE**



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## ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

FOR THE PERIOD July 1, 2016 TO JUNE 30, 2018

GENERAL INFORMATION					
Permittee Name:	West Norriton Township	NPDES Permit No.:	PAG-13-0006		
Mailing Address:	1630 West Marshall Street	Effective Date:	7/1/2013		
City, State, Zip:	Jeffersonville, PA 19403	Expiration Date:	6/30/2018		
MS4 Contact Person:	Jason Bobst	Renewal Due Date:	9/16/2017		
Title:	Township Manager	Municipality:	West Norriton Township		
Phone:	610-631-0450	County:	Montgomery		
Email:	jbobst@wntwp.com				
Co-Permittees (if applicable): n/a					
Appendix(ces) that permittee is subject to (select all that apply):					
<input type="checkbox"/> Appendix A <input type="checkbox"/> Appendix B <input checked="" 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	YES
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

**GENERAL MINIMUM CONTROL MEASURE (MCM) INFORMATION**

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

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

MCM	Entity Responsible	Contact Name	Phone
#1 Public Education and Outreach on Storm Water Impacts	West Norriton Township	Jason Bobst	610-631-0450
#2 Public Involvement/Participation	West Norriton Township	Jason Bobst	610-631-0450
#3 Illicit Discharge Detection and Elimination (IDD&E)	West Norriton Township	Jason Bobst	610-631-0450
#4 Construction Site Storm Water Runoff Control	West Norriton Township	Jason Bobst	610-631-0450
#5 Post-Construction Storm Water Management in New Development and Redevelopment	West Norriton Township	Jason Bobst	610-631-0450
#6 Pollution Prevention / Good Housekeeping	West Norriton Township	Jason Bobst	610-631-0450

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

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

1. For new permittees only, has the written PEOP been developed and implemented within the first year of permit coverage?  
 Yes  No
2. Date of latest annual review of PEOP: November 2017                      Were updates made?  Yes  No
3. What were the plans and goals for public education and outreach for the reporting period?
  - Review the PEOP and update as necessary.
  - Review the target audience list and update as necessary.
  - Review the information and links on the Stormwater page of the Township website and update as necessary.
  - Display stormwater educational information at the Township Building.
  - Publish at least one (1) stormwater article in the Township newsletter.
  - Publish an interactive mapping application called a GIS story map on ArcGIS Online. The Township will be able to provide a link to the GIS story map on the Township website.
  - Develop a youth educational event focused on stormwater pollution prevention for children in the community.
  - Continue the involvement of the Township Environmental Advisory Council.
4. Did the MS4 achieve its goal(s) for the PEOP during the reporting period?  Yes  No
5. Identify specific plans and goals for public education and outreach for the upcoming year:
  - Review the PEOP and update as necessary.
  - Review the target audience list and update as necessary.
  - Review the information and links on the Stormwater page of the Township website and update as necessary.
  - Display stormwater educational information at the Township Building.
  - Publish at least one (1) stormwater article in the Township newsletter.
  - Implement the youth educational event focused on stormwater pollution prevention.
  - 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: **January 2017**      Were updates made?  Yes  No  
**Refer to Appendix A**

**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: **February 2018**      Were updates made?  Yes  No
3. Do you have a municipal website?  Yes  No (URL:  
**<https://www.westnorritontwp.org/178/Storm-Water>** )

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

- **Storm Water Management in West Norriton background information**
- **Permit Framework information**
- **PRP Information and links to the Township's proposed plan**
- **Information on how residence can help and inform the Township of any illicit discharges**
- **A customized interactive GIS story map providing information on the Townships MS4.**
- **Links to PADEP, EPA, MCCD, CWP, and many other entities relating to stormwater**

4. Describe any other method(s) used during the reporting period to provide information on stormwater to the public:
- **The Township utilizes their facebook page to distribute educational information. For example, the Township shared the Township's "Story Map" for stormwater infrastructure created by utilizing GIS. The story map provides information on the Township's Stormwater Program.**
  - **The Township has a stormwater display at their municipal building providing information on Stormwater.**
  - **NPDES MS4 – Stormwater Management Program Presentation – The purpose of this presentation was to provide the Township with information on the Township's MS4 and the proposed plans for meeting MS4 regulations. The presentation was conducted by CEDARVILLE Engineering Group and took place on February 13, 2018 at the regular monthly meeting of the Board of Commissioners of West Norriton Township.**
  - **Stormwater management Program Presentation – The purpose of this presentation was to provide information on the NPDES MS4 permit requirements to the Township's Environmental Advisory Committee and what to expect from the new 2018 MS4 permit. The presentation was conducted by CEDARVILLE Engineering Group and took place on June 6, 2018 at the Township's Environmental Advisory Committee meeting.**
  - **The Township advertised the Montgomery county A-Z Recycling Guide on their website as a quick and easy resource to find out how to recycle, compost or reuse just about anything. This guide helps to find where and how to recycle over 200 items in Montgomery County.**

**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.**
  - **Place an advertisement with stormwater educational information content in the newspaper.**
  - **Publish a minimum of one article relating to stormwater and one or more of the MCMs in the Township newsletter.**
  - **Publish at least one new stormwater educational item.**

**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).

- **The Township utilizes social media to distribute educational information. For example, the Township shared the Township's "Story Map" for stormwater infrastructure created by utilizing GIS. The story map provides information on the Township's Stormwater Program.**
- **The Township has a Stormwater Display at their municipal building providing information on Stormwater.**
- **The Township utilizes their website to distribute stormwater related educational material and advertise for events.**

**Refer to Appendix A for Documentation**

**MCM #1 Comments:**

**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: **November 2017**

Were updates made?  Yes  No

**Refer to Appendix B**

**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:

- **The public notice for the West Norriton Township PRP Public Review was advertised in *The Times Herald* on June 6, 2017 and on the Township's website on June 9, 2017. The public notice indicated that the plan is available for public review on the Township website at <http://www.westnorritontwp.org/> and by request at the Township Building at 1630 W. Marshall St., Jeffersonville, PA 19403. Written comments from the public will be accepted for a period of 30 days from the date of this public notice. Verbal and written comments will also be accepted during the Board of Commissioners meeting scheduled for June 13, 2017 at 7:00pm at the Township Building.**

**Refer to Appendix B for documentation.**

3. If an ordinance, SOP or plan was developed or amended during the reporting period, provide the following information:

<b>Ordinance / SOP / Plan Name</b>	<b>Date of Public Notice</b>	<b>Date of Public Hearing</b>	<b>Date Enacted or Submitted to DEP</b>
PRP	June 6, 2017	June 13, 2017	August 29, 2017

**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:

**6.13.17 – CEDARVILLE Engineering provided a presentation on the proposed Township PRP plan at the Board of Commissioners meeting.**

**2.13.18 – CEDARVILLE Engineering provided a presentation on the Township's current MS4 permit status at the Board of Commissioners meeting.**

**6.6.18 – CEDARVILLE Engineering provided a presentation on the Township's Stormwater management Program, including information on the new 2018 NPDES MS4 permit requirements. The meeting took place at the Environmental Advisory Committee meeting.**

**Refer to Appendix B for 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.

- **West Norriton Township advertised the Montgomery County Recycling Event Schedules for 2018 on the Township website on February 7, 2018. More specifically, the Township advertised an online sale of compost bins and rain barrels organized by Montco PA Recycles. The Township posted the event flyer on the Township website in an effort to encourage residents to purchase discounted backyard compost bins and rain barrels.**

**Refer to Appendix B for documentation.**

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.

- **West Norriton's Summer Camp in collaboration with CEDARVILLE Engineering Group LLC worked on organizing a stormwater educational event for children ages 5-12. The event will take place in July 2018 (next reporting period) and will educate the children on stormwater pollution and MS4s.**
- **The Township encouraged residents to participate in a Tire Collection Event hosted by Montco PA Recycles and took place on June 9 and June 16. The purpose of the vent was to prevent tires from being improperly disposed of and to reduce breeding grounds for disease carrying mosquitoes. The Township advertised the event on the Township's website.**
- **The Township encouraged residents to participate in a Household Hazardous Waste Collection Event that was held at Norristown Area High School on Saturday, June 30th. This event was hosted and run by Montgomery County. The Township advertised the event on their Facebook page and on the Township's website.**

**Refer to Appendix B for documentation.**

**MCM #2 Comments:**

**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: **November 2017** Were updates made?  Yes  No

**Refer to Appendix C**

**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): **June 2018**

3. Total No. of Outfalls in MS4: **81** Total No. of Outfalls Mapped: **81**

4. Total No. of Observation Points: **3** Total No. of Observation Points Mapped: **3**

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): **April 2017**

**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? **0**

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

3. Indicate the percent of outfalls screened during the reporting period that revealed dry weather flows: **0%**

4. Did any dry weather flows reveal color, turbidity, sheen, odor, floating or submerged solids?  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: **7/13/2014**

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? **Illicit discharge detection and elimination information is provided on the Township's website, presented in the interactive Story Map (also available on the Township's website) and displayed in the Townships municipal building.**

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:**

**BMP #4: All known outfalls were screened for dry weather illicit discharges prior to June 2018. In response to DEP's Technical Deficiencies – Pollutant Reduction Plan letter (dated February 1, 2018) the Township's MS4 map is currently under review and will include additional outfalls. These outfalls will be screened for dry weather illicit discharges during the next reporting period.**

**BMP #5: The Township's Stormwater Management Ordinance is consistent with an Act 167 Plan approved by DEP as required by the 2018 NOI (3800-PM-BCW0100b). The ordinance will be reviewed and updated as necessary in the following year to ensure consistency with the DEP's 2022 Model Stormwater Management Ordinance with respect to authorized non-stormwater discharges.**

**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:**

**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.

**Thirty-two (32) PCSM BMPs were inspected on April 12 and 13, 2018. Of these BMPs, eighteen (18) BMPs were noted to have items that need to be addressed. Letters were sent to BMP owners addressing the corrective measures necessary for proper operation and maintenance of the BMP located on their property.**

**Refer to Appendix D for 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:**

### **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? **October 2017**
3. When was it last updated? **October 2017**

**Refer to Appendix E for documentation.**

**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: **November 2017**

**Refer to Appendix E for documentation**

**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: **March 2017** Date of latest training: **3.2.2017**

3. Training topics covered:

- **General MS4 Information**
- **Goals of the O&M program**
- **Good housekeeping methods**
- **Inspection procedures for BMP's, storm drain inlets, storm sewer piping, drainage channels and outfalls.**
- **Overview of: Hazardous Spill Clean-up Sheet, Materials Inventory Log, Storm Sewer System O&M Form, Municipal Facility O&M Form**

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

**Steven Dadio and Amanda Reitbauer from CEDARVILLE Engineering Group, LLC**

5. Names of training attendees:

**John Manderack  
Americo Varone  
Johnathan Kennedy  
Keith Burton  
John Bergstrasser  
Mark Pinchok  
Gordon McMeekin  
Michael Valyo  
Jason Bobst**

**MCM #6 Comments:**

**POLLUTANT CONTROL MEASURES (PCMs)**

*Indicate the status of implementing PCMs in Appendices A, B and/or C by completing the table below. Skip this section if PCMs are not applicable.*

<b>Task</b>	<b>Date Completed</b>	<b>Attached</b>	<b>Anticipated Completion Date</b>
Storm Sewershed Map(s)		<input type="checkbox"/>	<b>September 30, 2019</b>
Source Inventory		<input type="checkbox"/>	<b>September 30, 2020</b>
Investigation of Suspected Sources		<input type="checkbox"/>	<b>September 30, 2022</b>
Ordinance/SOP for Controlling Animal Wastes		<input type="checkbox"/>	<b>September 30, 2022</b>

**PCM Comments:**

**The Township is required to implement Pollutant Control Measures for Schuylkill River which is Impaired by priority organic compounds. Each task will be completed by the anticipated completion date indicated in the table above per the 2018 NPDES MS4 permit (3800-PM-BCW0100d)**

**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).

<b>Type of Plan</b>	<b>Submission Date</b>	<b>DEP Approval Date</b>	<b>Surface Waters Addressed by Plan</b>
<input type="checkbox"/> Chesapeake Bay PRP (Appendix D)			Chesapeake Bay

<input checked="" type="checkbox"/> Impaired Waters PRP (Appendix E)	<b>May 23, 2017</b>	<b>PRP currently under revision</b>	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)			
<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: **5 years following DEP's Approval**

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.

**The Township submitted their 2018 NPDES MS4 Individual Permit Application to DEP for review on May 23, 2017. On February 1, 2018 the Township received a Technical Deficiencies letter from DEP regarding their PRP plan. The Township is currently addressing DEP's comments and revising the plan. Therefore, load reductions were not indicated in the table above.**

6. Anticipated activities for next reporting period.

**The Township anticipates receiving DEP approval for their proposed PRP plan. Once approved, the Township will begin implementing the plan.**

**PRP/TMDL Plan Comments:**

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

**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).

\_\_\_\_\_  
Name of Responsible Official

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Telephone No.

\_\_\_\_\_  
Date

# **APPENDIX A**

## **MCM #1**

### **Public Education and Outreach**



# **STORMWATER MANAGEMENT PROGRAM**

## **PUBLIC EDUCATION & OUTREACH**



**West Norriton Township**  
Montgomery County, Pennsylvania

1630 W. Marshall St.  
Jeffersonville, PA 19403

*Updated: November 2017*



# **CEDARVILLE**

## **Engineering Group, LLC**

**Sustaining Communities by Design**

1033 S. Hanover Street, Suite 300  
Pottstown, PA 19465

152 E. High Street, Suite 410  
Pottstown, PA 19464

P. 610-705-4500 | F. 610-705-4900  
[www.cedarvilleeng.com](http://www.cedarvilleeng.com)

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### APPENDIX A - TARGET AUDIENCE LIST



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## 1. INTRODUCTION

West Norriton Township has developed a Public Education and Outreach Program (PEOP) as part of the Township's Stormwater Management Program.

The PEOP provides a guide for distributing educational materials to the community and conducting outreach activities about the impacts of stormwater discharges on water quality and the steps the public can take to reduce pollutants in stormwater runoff. The PEOP will be reviewed annually and updated as necessary.

The PEOP is also designed to comply with the West Norriton Township's National Pollution Discharge Elimination System – Municipal Separate Storm Sewer System (NPDES-MS4) General Permit No. PAG130006 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. 1 – Public Education and Outreach on Stormwater Impacts – Best Management Practice (BMP) #1 of the NPDES-MS4 permit.

The goal of the PEOP is to achieve measurable improvements in the target audience's understanding of the causes and impacts of stormwater pollution and the steps they can take to prevent it.

## 2. TARGET AUDIENCE

The target audience for the PEOP includes:

- Township officials & staff (including Administration, Public Works, Police, Fire, etc.)
- Residents
- Commercial properties
- Industrial properties
- Agricultural properties
- Vacant properties
- Institutional properties
- Government-owned properties
- Schools
- Places of Worship
- Utility companies
- Railroad companies
- Developers and builders

The target audience lists are included in Appendix A. The lists should be reviewed and updated annually.

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### **3. METHODS OF REACHING TARGET AUDIENCE**

The Township has provided stormwater educational information on the Township website at <http://www.westnorritontwp.org/index.aspx?nid=178>. The content and links provided on the website will be reviewed and updated annually.

As an alternative to maintaining the website, a minimum of one of the following should be published and reviewed annually (and updated as necessary). The publications should contain general stormwater educational information, a general description of the Township's Stormwater Management Program, and/or information about ongoing stormwater management activities. The publications should address one or more of the six MCMs:

- Newsletter
- Pamphlet
- Flyer

In addition to the above requirements, the Township will distribute stormwater educational materials and/or information to target audiences utilizing a minimum of two of the following distribution methods per year:

- Displays, posters, or signs
- Pamphlets, booklets, fact sheets, or brochures
- Radio, local cable television, or newspaper advertisements
- Newspaper articles
- Bill stuffers
- Presentations, conferences, or meetings
- Giveaways
- Storm drain stenciling, stream clean-up, or another educational event

### **4. SURVEY (OPTIONAL)**

To measure the success of the PEOP and evaluate the overall effectiveness of the public education and outreach efforts, a survey should be circulated. The survey may be distributed by mail, be available on the website, or be completed in person at a Township event or meeting. Questions may be in multiple choice format and can include, but are not limited to the following:

- What is stormwater?
  - What are potential causes of stormwater pollution?
  - What is an illicit discharge?
  - How did you learn about stormwater?
  - What type of stormwater-related information would you be interested in learning more about?
-



- What type of workshop or event related to stormwater management, pollution prevention, or water quality would you be interested in attending?

Once the survey results are obtained, they should be assessed to determine what areas of the program need improvement and what areas have been successful. The results should be used to focus future education efforts in areas where improvement is needed and provide guidance on what distribution methods are most successful. A survey is not required by the permit and will be considered above and beyond activity if the Township has the resources to complete it in a given permit reporting period.

## **5. EDUCATIONAL MATERIAL SOURCES**

Educational materials will be developed or obtained that will increase the public's knowledge of stormwater issues and the practices that can be applied. Educational material should address one or more of the 6 MCMs.

Sources to be considered include, but are not limited to:

- Montgomery County Conservation District (MCCD)
- Pennsylvania Department of Environmental Protection (PADEP)
- Environmental Protection Agency (EPA)
- Water Resources Education Network (WREN)
- Pennsylvania Environmental Council (PEC)

Each of these organizations has stormwater educational information available for download on their websites. The Township will source materials from these websites or publish custom educational items.

## **6. ANNUAL GOALS**

The specific goals for the PEOP to be completed annually include:

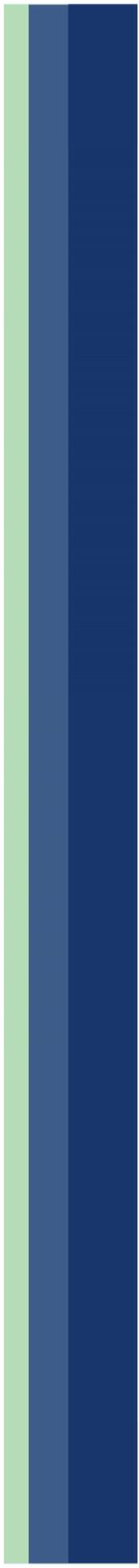
- Review the PEOP and update as necessary.
- Review the target audience list and update as necessary.
- Review and update the stormwater educational information on the Township website.
- Place an advertisement with stormwater educational information content in the newspaper annually.
- Display stormwater educational information at the municipal building.



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## **7. ANNUAL ACCOMPLISHMENTS**

The Township is required to submit annual reports on the Stormwater Management Program to DEP in timeframes set forth in the NPDES MS4 permit. The annual reports are available to the public by request at the municipal offices. PEOP accomplishments will be reported each year in the Annual MS4 Status Reports.



## **APPENDIX A**

### **Target Audience List** **(Available upon request)**

## STORM WATER

### 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.

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WEST NORRITON TOWNSHIP  
1630 W Marshall Street, Jeffersonville, PA 19403



**Hours:** Monday - Friday 8 a.m. - 4:30 p.m.

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

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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\\_\(PDF\)](#)

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

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## WEST NORRITON TOWNSHIP

1630 W Marshall Street, Jeffersonville, PA 19403



**Hours:** Monday - Friday 8 a.m. - 4:30 p.m.

**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.



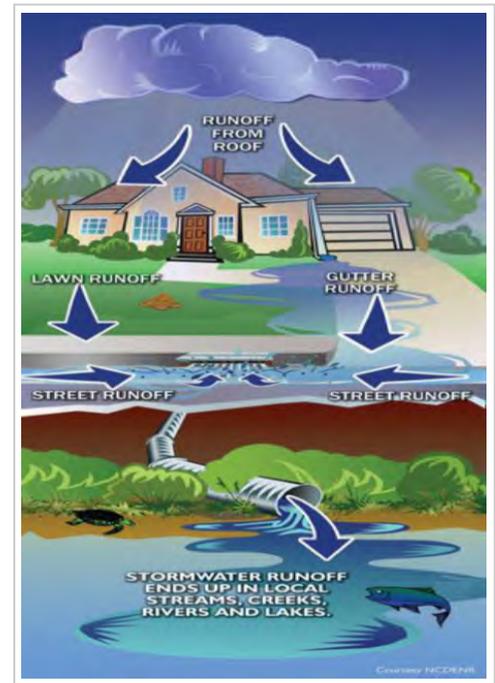
Today, regulations governing storm water management emphasize the infiltration of storm water on-site, if possible. These on-site infiltration beds contribute to groundwater recharge while minimizing downstream flood impacts. These regulations only impact new land developments, however.

### 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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**NPDES MS4**  
**Stormwater Management Program**  
WEST NORRITON  
PENNSYLVANIA



**Beth Uhler**  
MS4 Program Manager

## 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.)



## Background

- **Permit Round 1 – 2003 - 2013**
  - Implement Best Management Practices (BMPs) under Six (6) Minimum Control Measures (MCMs)
- **Permit Round 2 – 2013 - 2018**
  - Continuation of MCMs
  - Added Total Maximum Daily Load (TMDL) Requirements
    - Wissahickon Creek, Neshaminy Creek, Skippack Creek, Christina River Basin

**NO TMDL REQUIREMENTS FOR WEST NORRITON**



## Minimum Control Measures

- EAC 1. Public Education & Outreach
- EAC 2. Public Involvement & Participation
- EAC 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 Report\***



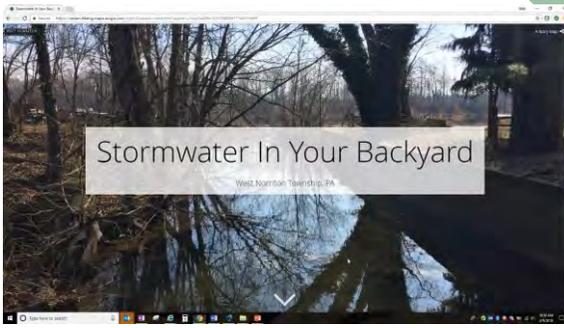
## Public Education & Outreach (MCM #1)



**Permit Requires:**

- **Written PEOP Program**
  - Review annually and update as needed.
  - Plans and goals.
- **Target Audience Lists**
  - Review annually and update as needed.
- **Publish at least one (1) education item per year**
  - Website
  - Newsletter
- **Distribute stormwater educational materials to target audiences using at least two (2) distribution methods per year**
  - Displays, posters, signs
  - Pamphlets, booklets, brochures, mailings, fact sheets
  - Radio, local TV, newspaper articles, other advertisements
  - Presentations, conferences, meetings
  - Workshops, giveaways, storm drain stenciling

**DOCUMENT, DOCUMENT, DOCUMENT!**

**Stormwater In Your Backyard**  
West Norriton Township, PA



### Public Involvement & Participation (MCM #2)

**Permit Requirements:**

- **Written PIPP Program**
  - Review annually and update as needed
  - Identifies plans and goals
    - Opportunities for the public to participate in decision-making processes
    - Routine communication with watershed associations and other environmental organizations
  - Make Progress Reports available to the public
    - Website
    - Township Building
    - By Mail, etc.
- **Public Input on Stormwater-Related Ordinances**
- **At least one (1) Public Meeting**
- **Stream clean-ups, volunteer plantings, community events, etc.**

**DOCUMENT, DOCUMENT, DOCUMENT!**



**Valley Forge Watershed Association**



### Illicit Discharge Detection & Elimination (MCM #3)



**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 an NPDES permit.



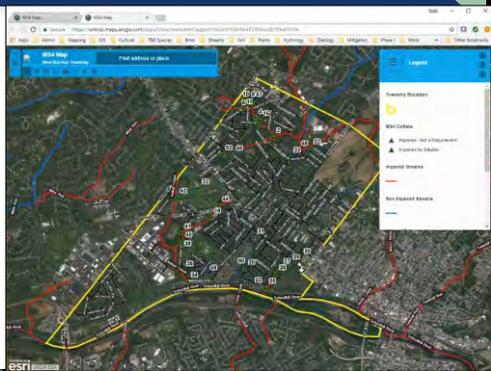
- EXAMPLES:**
- Motor vehicle fluids
  - Household hazardous wastes
  - Grass clippings
  - Leaf litter
  - Animal wastes
  - Unauthorized sewage discharges, industrial waste, or restaurant waste



### Illicit Discharge Detection & Elimination (MCM #3)

**Permit requires:**

- Written IDD&E Program
- Mapping
- Outfall Field Screening
- Ordinance Prohibiting Non-Stormwater Discharges into the MS4
- Educational outreach specific to IDD&E



### Construction Site Runoff Control (MCM #4)

**Erosion and Sediment Control**



Statewide program for issuing **NPDES Permits for Stormwater Discharges Associated with Construction Activities** through DEP, Montgomery County Conservation District, and West Norriton Township **SATSIFIES** this permit requirement.



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

**Permit requires:**

- Statewide Program for issuing **NPDES Permits for Stormwater Discharges Associated with Construction Activities** through DEP & Montgomery County Conservation District **SATISFIES A PORTION** of this permit requirement.
- Ordinance
- Low Impact Development (LID)
- PCSM BMP Inventory
- Written PCSM BMP Inspection Program **for BMPs approved after 2003** (Operations & Maintenance)




13

### BMP Inspections



Photo 1



14

### Pollution Prevention/Good Housekeeping (MCM #6)

**Permit Requires:**

- Written Operations & Maintenance Program**
  - Review annually and update as needed
  - Township-owned facilities and activities
- Written Employee Training Program**
  - Review annually and update as needed
  - Hold **one (1)** Employee Training per year




15

### Permit Round 3

- Effective in March 2018 (due September 2017)
- Continuation of MCMs

★NEW:

**Pollutant Reduction Plans (PRPs)**  
Discharges to Waters Impaired by Nutrients and/or Sediment

- »Stony Creek (Sediment)
- »Indian Creek (Sediment)
- »Unnamed tributaries to Schuylkill River (Sediment)



16

### West Norriton Township Impaired Streams



Non-Attaining Streams (2015)  
Attaining Streams



17

### Pollutant Reduction Plan (PRP)

- 2017-2018 – Planning**
  - Projects to **reduce the sediment load** to **Stony Creek, Indian Creek, and UNT to Schuylkill River by 10% over 5-year period**
- 2018-2023 – Design & Construction**
  - Have shown that 2015 GROWING GREENER GRANT PROJECTS MEET OBLIGATIONS** (pending approval)




18

**Proposed BMPs- Burnside Village Basin Retrofit**



**Proposed BMPs- Jeffersonville Golf Club Stream Restoration**



**Proposed BMPs- Blue Dove Basin Retrofit**



**What to Expect in 2018...**

**Submitted MS4 permit application and Pollutant Reduction Plans (PRPs) in September 2017 ---**  
*What is the status of DEP's review?*

- Received review letter from DEP February 1, 2018.
- New permit became effective March 16, 2018.
- 5-year Implementation Period will not begin until PRP is approved.

**What to Expect in Future Permit Cycles?**

**How will the Township pay for these projects in the future?**

- Grants?
- Low-Interest Loans?
- General Fund?
- Public-Private Partnerships?
- Stormwater Fee/Authority?



**What can the EAC do?**

- Review and Update Public Education and Outreach and Public Involvement and Participation Programs
- Identify effective methods of communication with residents and/or property owners
- Organize stream cleanups
- Volunteer riparian buffer planting
- Host educational workshops
- IDEAS???



Beth Uhler  
MS4 Program Manager



**NPDES MS4**  
**Stormwater Management Program**  
**WEST NORRITON**  
**PENNSYLVANIA**



**Beth Uhler**  
**MS4 Program Manager**

## Background

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- Ultimate goals for the MS4 program
  - Recognize and increase awareness of stormwater as a point-source pollutant
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## Background

- **Permit Round 1 – 2003 - 2013**
  - Implement Best Management Practices (BMPs) under Six (6) Minimum Control Measures (MCMs)
- **Permit Round 2 – 2013 - 2018**
  - Continuation of MCMs
  - Added Total Maximum Daily Load (TMDL) Requirements
    - Wissahickon Creek, Neshaminy Creek, Skippack Creek, Christina River Basin

**NO TMDL REQUIREMENTS FOR WEST NORRITON**



## Minimum Control Measures

- EAC** 1. Public Education & Outreach
- EAC** 2. Public Involvement & Participation
- EAC** 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 Report\***



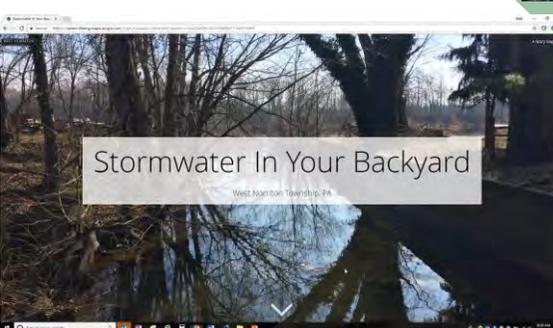
## Public Education & Outreach (MCM #1)



**Permit Requires:**

- **Written PEOP Program**
  - Review annually and update as needed.
  - Plans and goals.
- **Target Audience Lists**
  - Review annually and update as needed.
- **Publish at least one (1) education item per year**
  - Website
  - Newsletter
- **Distribute stormwater educational materials to target audiences using at least two (2) distribution methods per year**
  - Displays, posters, signs
  - Pamphlets, booklets, brochures, mailings, fact sheets
  - Radio, local TV, newspaper articles, other advertisements
  - Presentations, conferences, meetings
  - Workshops, giveaways, storm drain stenciling

**DOCUMENT, DOCUMENT, DOCUMENT!**

**Stormwater In Your Backyard**  
West Norriton Township, PA



### Public Involvement & Participation (MCM #2)

**Permit Requirements:**

- **Written PIPP Program**
  - Review annually and update as needed
  - Identifies plans and goals
    - Opportunities for the public to participate in decision-making processes
    - Routine communication with watershed associations and other environmental organizations
  - Make Progress Reports available to the public
    - Website
    - Township Building
    - By Mail, etc.
- **Public Input on Stormwater-Related Ordinances**
- **At least one (1) Public Meeting**
- **Stream clean-ups, volunteer plantings, community events, etc.**

**DOCUMENT, DOCUMENT, DOCUMENT!**



**Valley Forge Watershed Association**



### Illicit Discharge Detection & Elimination (MCM #3)



**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 an NPDES permit.



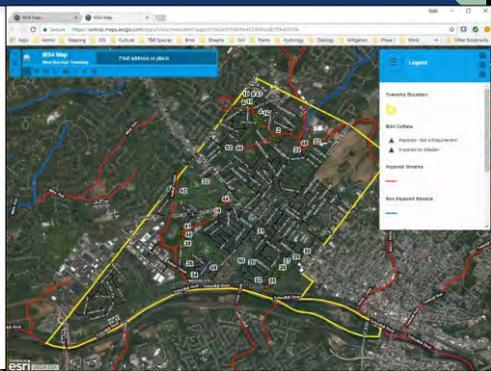
- EXAMPLES:**
- Motor vehicle fluids
  - Household hazardous wastes
  - Grass clippings
  - Leaf litter
  - Animal wastes
  - Unauthorized sewage discharges, industrial waste, or restaurant waste



### Illicit Discharge Detection & Elimination (MCM #3)

**Permit requires:**

- Written IDD&E Program
- Mapping
- Outfall Field Screening
- Ordinance Prohibiting Non-Stormwater Discharges into the MS4
- Educational outreach specific to IDD&E



### Construction Site Runoff Control (MCM #4)

**Erosion and Sediment Control**



Statewide program for issuing NPDES Permits for Stormwater Discharges Associated with Construction Activities through DEP, Montgomery County Conservation District, and West Norriton Township SATSFIES this permit requirement.



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

**Permit requires:**

- Statewide Program for issuing **NPDES Permits for Stormwater Discharges Associated with Construction Activities** through DEP & Montgomery County Conservation District **SATISFIES A PORTION** of this permit requirement.
- Ordinance
- Low Impact Development (LID)
- PCSM BMP Inventory
- Written PCSM BMP Inspection Program **for BMPs approved after 2003** (Operations & Maintenance)




13

### BMP Inspections




14

### Pollution Prevention/Good Housekeeping (MCM #6)

**Permit Requires:**

- **Written Operations & Maintenance Program**
  - Review annually and update as needed
  - Township-owned facilities and activities
- **Written Employee Training Program**
  - Review annually and update as needed
  - Hold **one (1)** Employee Training per year




15

### Permit Round 3

- Effective in March 2018 (due September 2017)
- Continuation of MCMs

★**NEW:**

**Pollutant Reduction Plans (PRPs)**  
Discharges to Waters Impaired by Nutrients and/or Sediment

- » **Stony Creek** (Sediment)
- » **Indian Creek** (Sediment)
- » **Unnamed tributaries to Schuylkill River** (Sediment)



16

### West Norriton Township Impaired Streams




17

### Pollutant Reduction Plan (PRP)

- **2017-2018 – Planning**
  - Projects to **reduce the sediment load** to **Stony Creek, Indian Creek, and UNT to Schuylkill River by 10% over 5-year period**
- **2018-2023 – Design & Construction**
  - **Have shown that 2015 GROWING GREENER GRANT PROJECTS MEET OBLIGATIONS** (pending approval)




18

**Proposed BMPs- Burnside Village Basin Retrofit**



**Proposed BMPs- Jeffersonville Golf Club Stream Restoration**



**Proposed BMPs- Blue Dove Basin Retrofit**



**What to Expect in 2018...**

**Submitted MS4 permit application and Pollutant Reduction Plans (PRPs) in September 2017 ---**  
*What is the status of DEP's review?*

- Received review letter from DEP February 1, 2018.
- New permit became effective March 16, 2018.
- 5-year Implementation Period will not begin until PRP is approved.

**What to Expect in Future Permit Cycles?**

**How will the Township pay for these projects in the future?**

- Grants?
- Low-Interest Loans?
- General Fund?
- Public-Private Partnerships?
- Stormwater Fee/Authority?



**What can the EAC do?**

- Review and Update Public Education and Outreach and Public Involvement and Participation Programs
- Identify effective methods of communication with residents and/or property owners
- Organize stream cleanups
- Volunteer riparian buffer planting
- Host educational workshops
- IDEAS???



Beth Uhler  
MS4 Program Manager

# Stormwater Display at Township Building





West Norriton Township shared a post.



July 10 at 12:30 PM · 🌐

Thank you CEDARVILLE Engineering Group, LLC for taking some time today and educating our Summer Camp kids on the importance of storm water management and the impact on the environment.



West Norriton Township Parks & Recreation



July 10 at 11:32 AM · 🌐

Thank you to Cedarville Engineering Group, LLC for their informational sessions today at our 2018 Summer Camp. We had a station for rain barrel painting, a station on water runoff and a poster contest station on decorating a storm water drain. Our campers had a great time!

Once again thank you for educating our youth on the importance of keeping our environment clean!



West Norriton Township shared a post.



March 26 · 🌐

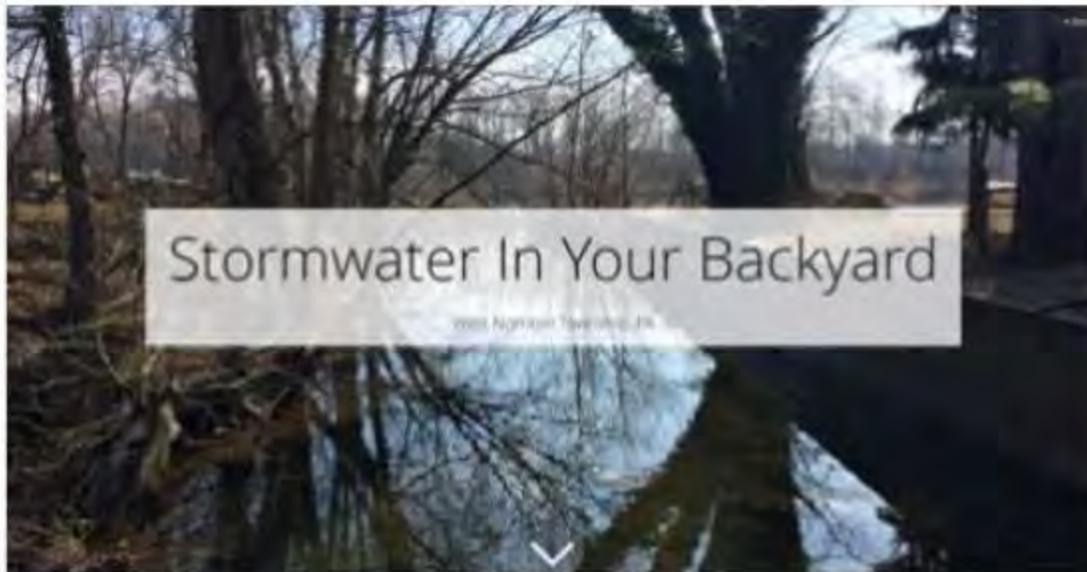
CEDARVILLE Engineering Group, LLC has done amazing work for the township related to our storm water program. Take a look at the Story Map they created for West Norriton as part of our public education plan.



CEDARVILLE Engineering Group, LLC

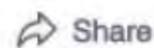
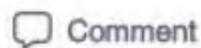
March 26 · 🌐

CEDARVILLE is committed to using technology to benefit our clients. Our GIS team created a "Story Map" for stormwater infrastructure in West Norriton Township, PA. The Story Map will be used for public education in the community. Please take a look and let us know what you think!



CEDARVILLEENG.COM

**Story Maps: Everyone Has a Story to Tell - CEDARVILLE Engineering Group, LLC – Sustaining Communities by Design**



Posted on: May 21, 2018

## **Recycling Guide: Recycling Items From A - Z**

The A-Z Recycling Guide is designed as a quick and easy resource for you to find out how to recycle, compost or reuse just about anything. This guide helps to find where and how to recycle over 200 items in Montgomery County.

The listings provided are neither endorsed or recommended by Montgomery County. The information in this guide is being provided as a public service to help conserve natural resources and reduce the amount of materials from entering the waste stream. To add a listing, please contact us at 610-278-3618.

Information is being added to this site constantly, so please check back for updates. You may also visit Earth 911 for additional information on where to recycle.

[A-Z Recycling Guide](#)



# **APPENDIX B**

## **MCM #2**

### **Public Involvement and Participation**



# **STORMWATER MANAGEMENT PROGRAM PUBLIC INVOLVEMENT & PARTICIPATION**



**West Norriton Township**  
Montgomery County, Pennsylvania

1630 W. Marshall St.  
Jeffersonville, PA 19403

*Updated: November 2017*



## **CEDARVILLE** **Engineering Group, LLC**

**Sustaining Communities by Design**

1033 S. Hanover Street, Suite 300  
Pottstown, PA 19465

152 E. High Street, Suite 410  
Pottstown, PA 19464

P. 610-705-4500 | F. 610-705-4900  
[www.cedarvilleeng.com](http://www.cedarvilleeng.com)

*A Federally Certified 8(a) WOSB/DBE/WBE Company*



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## 1. INTRODUCTION

West Norriton Township has developed a Public Involvement and Participation Program (PIPP) as part of the Township's Stormwater Management Program.

The PIPP provides a vehicle for the public to participate in the Township's Stormwater Management Program. Specifically, the PIPP addresses:

- Opportunities for the public to participate in the decision-making processes associated with the development, implementation, and update of programs and activities related to the Stormwater Management Program.
- Methods of routine communication to groups such as watershed associations, environmental advisory committees, and other environmental organizations that operate with the Township.
- Making the Township's periodic reports available to the public on the website, at the Township building, or by U.S. mail upon request.

The PIPP is also designed to comply with the West Norriton Township's National Pollution Discharge Elimination System – Municipal Separate Storm Sewer System (NPDES-MS4) General Permit No. PAG130006 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. 2 – Public Involvement/Participation – Best Management Practice (BMP) #1 of the NPDES-MS4 permit.

The PIPP is designed to comply with all applicable state and local public notice requirements.

## 2. PUBLIC PARTICIPATION & INVOLVEMENT

### 2.1. West Norriton Township Stormwater Management Ordinance

The Township adopted a stormwater ordinance as part of the Township Code on July 13, 2004. The ordinance may be cited as the "West Norriton Township Stormwater Management Ordinance" and is Ordinance 04-595. The adoption of this ordinance followed the advertising requirements set forth in the Pennsylvania Township Code, Section 1601 to provide the opportunity for public review, input, and feedback. The ordinance can be found on the township's website.

### 2.2. New Ordinances

Notice of the Township's intent to adopt an ordinance will follow the advertising requirements set forth in the Pennsylvania Township Code, Section 1601 to provide the opportunity for public review, input, and feedback. A summary of the code and location where copies may be obtained or reviewed will be published in the newspaper no more than 60 days nor less than 7 days prior to ordinance passage. The public hearing in which

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the proposed ordinances will be decided upon may also be advertised on the Township website. Dates of the notification(s) and feedback from the public regarding the ordinances will be documented.

### **2.3. Public Meetings**

The Township will primarily solicit public involvement and participation from the target audience groups identified in the Public Education & Outreach Program (PEOP) by presenting information about the Stormwater Management Program at a minimum of one public meeting per year. The meeting can be MS4-specific or any other public meeting.

The public will be given reasonable notice in advance of each meeting either by posting on the Township website or an acceptable alternative means.

The presentation will provide a summary of the Stormwater Management Program's progress, activities, and accomplishments, and solicit feedback from the public. The presentation should be documented and reported to DEP in the next progress report.

The Township's environmental advisory committee was established in 2015 and will hold meetings that are open to the public. This will provide another opportunity for public participation in activities pertaining to the Township's Stormwater Management Program.

### **2.4. Other Activities**

Document and report other instances of public participation and involvement in activities during the reporting period such as:

- Cooperation and participation in stormwater-related Township activities.
- Presentations to local watershed organizations and conservation organizations.
- Education activities
- Cleanups
- Monitoring
- Storm drain stenciling

## **3. COMMUNICATION TO ENVIRONMENTAL GROUPS**

The Township maintains routine communication with its Environmental Advisory Committee, the Montgomery County Conservation District (MCCD) and DEP.



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#### **4. ANNUAL REPORTING AND ACCOMPLISHMENTS**

The Township is required to submit annual reports on the Stormwater Management Program to DEP in timeframes set forth in the NPDES MS4 permit. The progress reports are available to the public by request at the Township building. PIPP accomplishments will be reported in the Annual MS4 Status Reports.

#### **5. ANNUAL GOALS**

The specific goals for the PIPP each year include:

- Review the PIPP and update as necessary.
- Present the progress and achievements of the Stormwater Management Program at a public meeting.
- Regularly communicate with the Environmental Advisory Committee and the MCCD.
- Make Annual MS4 Status Reports available to the public.

February 13, 2018

The regular monthly meeting of the Board of Commissioners of West Norriton Township was convened at 7:00 PM on the above date by President Kennedy. Commissioners McKenzie, Eckles, Milazzo and Miller were in attendance. Also present were: Jason Bobst; John Walko, Esquire; Kathy Frederick; A. Dale Mabry; Michael Kelly; Donna Horn; Michael Valyo; Jonathan Dzedzy; TJ Figaniak; and Erik Garton. There were twenty-two (22) people in the audience.

After reciting the Pledge of Allegiance, the meeting proceeded.

**Presentation** A power point presentation of the current MS4 update was made by Beth Uhler of Cedarville Engineering. According to Ms. Uhler, the regulations of storm water run off are administered by both the DEP (Department of Environmental Protection) and the EPA (Environmental Protection Agency). Ms. Uhler described in depth the storm water system in the Township and the proposed plans for meeting MS4 regulations. Per Ms. Uhler, if the Township's plans are approved, the 5-year implementation period will be satisfied early as the Township has been proactive.

**Minutes Approval** Upon motion of Mr. Miller, seconded by Mr. McKenzie and unanimously approved were the Minutes of the Board's reorganization meeting and work session of January 2, 2018 and its regular meeting of January 9, 2018.

**Report of Bills Approval of checks** Ms. Horn read the Finance Committee Report and requested approval of: General Fund and Golf Club payroll checks in the amount of \$23,566.50; payroll vouchers in the amount of \$232,032.91; and the Payment Approval Report in the amount of \$750,308.54.

Upon motion of Mr. McKenzie, seconded by Mr. Miller and unanimously passed, the report of checks and vouchers was approved by the Board.

**Committee Reports: Administration & Finance** Mr. Bobst updated the Board about ongoing projects by noting that: the EIP report and 5 year financial plan (283 pages) has been received and will be presented by the DCED (Department of Commerce and Economic Development) at the Board's meeting on March 13<sup>th</sup>; that DCNR has reviewed and signed off on the plan for the VanLandeghem Master Site Plan and that a Resolution is needed acknowledging receipt of presentation of the plan...not approval of the plan; and that the Forrest Avenue Pump Station is our oldest pump station, dating back to the 1960's, and is the subject of the request for authorization to execute the grant application.

Thereafter, the items on the Agenda under New Business were enumerated and highlighted by Mr. Bobst.

Treasurer Horn did not present her report at the meeting; however, she has since submitted her summary which shows cash balances in the various funds as follows:

	<u>December 31<sup>st</sup></u>	<u>January 31<sup>st</sup></u>
General Fund	6,931,664.62	6,608,088.56
PLGIT 10105000	42,889.72	42,931.72
PLGIT CD	0.00	0.00
Continental CD	0.00	0.00
Golf Fund	204,113.79	211,656.65
Escrow Fund	793,352.56	790,946.00
Sinking Fund	5,877.12	5,879.62
Liquid Fuels	158,543.04	107,906.59
Capital Reserve PLGIT	145,826.12	145,826.56
Capital Reserve CD	0.00	0.00
Capital Reserve	0.00	0.00
Sewer Capital Acct	863,088.52	863,190.91
Vehicle Replacement Fund	488,435.60	509,198.53
Police Pension Citizens	99,923.86	104,493.18
Non-Uniform Pension Citizens	3,980.75	3,472.47
Grants, DUI	0.00	0.00
Grants, Misc.	114,059.83	114,108.28
Traffic Impact Fee	453,232.20	453,424.71

Upon motion of Ms. McKenzie, seconded by Ms. Milazzo and unanimously passed, the Administration & Finance reports were approved.

#### **Public Safety**

Chief Mabry highlighted his monthly report and commented that extra manpower was on duty for the Super Bowl, but that the Office of Emergency Management reimburses us for the officer which was on duty at the Super Bowl parade.

On motion of Mr. McKenzie, seconded by Mr. Miller and unanimously passed, the Public Safety Report was approved.

#### **Public Works & Planning**

The highlights of the Public Works report were presented by Mr. Valyo who noted that he had difficulty obtaining "cold patch" for pothole repair, but that he found some today from Lower Providence and it will be here tomorrow. Also, it was mentioned by Mr. Valyo that Main Street between Forrest and Trooper will be milled and paved this year via state award to Alan B. Myers, and that a 902 grant application with DEP is in the works for the purchase of a new chipper and leaf machine.

Ms. Eckles inquired about the status of the PennDOT plowing issue. Per Mr. Bobst, we are working up an agreement now to us to take over plowing on Burnside, Main, Trooper, etc. for a fee.

Also, Mr. Valyo presented the highlights of the Building and Zoning Report as prepared by Thomas Heisner, BCO.

Bd. of Commiss.

On motion of Mr. McKenzie, seconded by Mr. Miller and unanimously passed, the Public Works and Planning Reports were approved.

**Recreation**

The Recreation report was prepared and presented by Jon Dzedzy who noted that the preliminary design of the Betzwood Trail Head Project would be presented at next month's meeting of the Board.

Also, Mr. Dzedzy confirmed that the ground-breaking ceremony for the Zachary Wallace Playground at Padden Park is scheduled for March 24<sup>th</sup> at 1:00 PM

Mr. Kennedy advised the Board that Lauren Irizarry, Assistant Recreation Director, is moving up to a director's position in another municipality and that she has done a phenomenal job while with West Norriton Township.

Upon motion of Mr. Miller, seconded by Mr. McKenzie and unanimously passed, the Recreation Report was approved.

**Jeffersonville  
Golf Club**

Mr. Bobst presented the highlights of the golf report.

It was announced by Mr. Bobst that we are working with Blue Scope Construction for improvements at the Club, which should start in the spring of 2018 with construction of the maintenance facility and conclude in the fall of 2019 with the banquet facility completion. Mr. Bobst also mentioned that stream bank construction will begin in April.

It was mentioned by Mr. Kennedy that the previous Board was proactive with improvements that the Jeffersonville Golf Club and when completed, those improvements will result in the township having a course "second to none".

On motion of Mr. McKenzie, seconded by Mr. Miller and unanimously passed, the Golf Club Report was approved.

**Sanitary Sewer  
Engineer**

The highlights of the monthly Sanitary Report of Gilmore & Associates were presented by Mr. Figaniak who noted that grant work and the completion of the Chapter 94 report is underway.

Upon motion of Mr. McKenzie, seconded by Mr. Miller and unanimously passed, the Sanitary Report was approved.

**Consulting  
Engineer**

The engineer's report of Gilmore & Associates was presented by Mr. Garton who highlighted the maintenance building plans at the Golf Club.

It was also noted by Mr. Garton that the new owner of the Blue Dove Basin is a specialist in basin repair, that potential zoning issues exist and the owner is requesting a waiver of land development in order to expedite the remediation process.

Upon motion of Mr. McKenzie, seconded by Mr. Miller and unanimously passed, the Consulting Engineer's Report was approved.

**All Committee reports are on file in the Administration office of the Township Building for the public to view during normal business hours.**

**Commissioners' Comment**

Mr. McKenzie asked if there have been any recent issues at Markley Farms development. In response thereto, Mr. Garton indicated that, as a result of E & S (Erosion & Sediment) controls getting a "little loose", the developer was issued a notice to tighten the controls or receive a fine. Also, we just received notice that the 3-way stop at Harvest will become a 4-way stop.

Mr. Kennedy thanked the fire company for hosting the annual dinner and stated that it was nice to see young and old together. Also, Mr. Kennedy asked that emails sent to the Commissioners regarding questions be sent in a timelier manner so as to give the Commissioners an opportunity to research the question and provide an answer at the next meeting.

**Public Comment**

Helene Estes of Canterbury Road commented that the MS4 presentation by Beth of Cedarville was both interesting and insightful. Also, Ms. Estes inquired if the feeder streams that go into Indian Creek monitored

Kim Haymans-Geisler, 1810 Ardin Drive, questioned her email status with the Township's website as she did not receive notification of posting of the Agenda, and Ms. Haymans-Geisler requested that the placement of the BOC Agenda be moved up on the list of agendas on the website. Further, Ms. Haymans-Geisler requested that the Board vote "no" on the requested land development waiver for Blue Dove Basin. Also, among other things, the status of the gas leak, the VanLandeghem Master Site Plan, O'Neill property and the Chapter 94 report, as well as the cost of the EIP grant were all requested by Ms. Hayman's Geisler. In response thereto, Mr. Bobst advised that PECO fixed the leaking gas valve, that the EIP grant was a 50/50 matching grant and that we will receive \$30,000.00, and that the Chapter 94 report will be posted on the website when completed. Mr. McKenzie offered constructive criticism to Ms. Haymans-Geisler by requesting that she state her concerns, give the Board a chance to respond and not add her own commentary.

Mary Ellen Moran, 714 Port Indian Road, expressed her concern over the quick land development waiver for the Blue Dove Basin and the condition of the basin. According to Mr. Walko, we are obligated to protect what is not being protected and to fix what is not being fixed. Mr. Bobst added that the property went to settlement in January, but

Garton added that the basin is vastly improved from the previous owner, and that that new owner is certified in the State of Delaware to fix the basin. Mr. McKenzie stated that he applauds the movement on this issue, while Ms. Milazzo noted that there is no cutting of corner here in terms of the environment. Finally, Ms. Moran asked if waiving the land development is setting a precedent. To that, Mr. Walko replied "no, it is a case by case basis".

There being no further comments offered, upon motion of Mr. McKenzie, seconded by Mr. Miller and unanimously approved, the public comment portion of the meeting was closed.

**New Business**

Upon motion of Mr. McKenzie, seconded by Ms. Milazzo and unanimously agreed, the Board adopted Resolution No. 18-1600 Granting Waiver of Land Development Application and Approval for Valley Forge Business Center, Lot 227 (copy attached).

Upon motion of Mr. McKenzie, seconded by Ms. Eckles and agreed by a vote of 4-1 with Mr. Kennedy opposing, the Board authorized staff to issue and RFQ for legal services.

Upon motion of Mr. McKenzie, seconded by Mr. Miller and unanimously agreed, the Board authorized staff to draft an amendment to the Parking Permit Program.

Upon motion of Ms. Eckles, seconded by Mr. McKenzie and unanimously agreed, the Board authorized staff to advertise Ordinance #2018-717 Amending the DROP Ordinance for Non-Uniformed Employees

Upon motion of Ms. Milazzo, seconded by Mr. McKenzie and unanimously approved, the Board agreed to merge the Open Space Committee and the Environmental Advisory Council.

Upon motion of Mr. Miller, seconded by Mr. McKenzie and unanimously agreed, the Board accepted the resignation of Karen Delpha from the Recreation Committee effective immediately.

Upon motion of Ms. Milazzo, seconded by Mr. McKenzie and unanimously agreed, the Board appointed Anne Marie Sortino to the Vacancy Board for a 1-year term.

Upon motion of Mr. Miller, seconded by Ms. Milazzo and unanimously agreed, the Board appointed Ralph Panzullo to the Recreation Committee for a 3-year term.

Upon motion of Ms. Milazzo, seconded by Mr. Miller and unanimously agreed, the Board appointed Curt Huston to the Environmental Advisory Council for a 3-year term.

Bd. of Commiss. Upon motion of Ms. Milazzo, seconded by Mr. McKenzie and unanimously agreed, the Board appointed Marc Brier and El-Tirib McKelvy to the Environmental Advisory Council each for a 4-year term.

Upon motion of Ms. Milazzo, seconded by Mr. McKenzie and unanimously agreed, the Board appointed Robert Kline and Jean Burknowski to the Environmental Advisory Council each for a 5-year term.

Upon motion of Mr. McKenzie, seconded by Mr. Miller and unanimously agreed, the Board authorized staff to draft an Ordinance Establishing a Volunteer Service Credit Program Under Act 172 of 2016.

Upon motion of Ms. McKenzie, seconded by Mr. Miller and unanimously agreed, the Board authorized the execution of Authorized Official Resolution re: Application for PA Small Water and Sewer Program Grant in the amount of \$305,788.00 to be used for the Forrest Avenue Pump Station Project.

After review and discussion of the current Resolution for Adopting Rules of Decorum for Meeting, and upon motion of Mr. Kennedy, seconded by Mr. McKenzie and unanimously approved, the Board tabled the possible amendment thereof until its February meeting.

Mr. Bobst announced that the following meetings are scheduled this month: Planning Commission on February 20, 2018 @ 7:30 P.M. re: Main Street Corridor Study; and Zoning Hearing Board on February 21, 2018 @ 7:00 P.M. re: Application of Mobilitie, LLC for a variance from the Zoning Ordinance @ the PennDOT right-of-way near 510 S. Trooper Road.

**Adjournment**

There being no further business, at 8:19 PM, on motion of Mr. Kennedy, seconded by Mr. McKenzie and unanimously agreed by the Board, the public meeting was adjourned.

Kathy Frederick  
Assistant Secretary

June 13, 2017

The regular monthly meeting of the Board of Commissioners of West Norriton Township was convened at 7:00 PM on the above date by President Panzullo. Commissioners Kennedy, McKenzie and Tolbert were in attendance, while Commissioner Donoghue was absent. Also present were: Jason Bobst; Christen Pionzio, Esquire; Kathy Frederick; A. Dale Mabry; Michael Kelly; Donna Horne; Michael Valyo; Jonathan Dzedzy; T.J. Figaniak; and Erik Garton. There were seventeen (17) people in the audience.

After reciting the Pledge of Allegiance, the meeting proceeded.

**Presentation**

Beth Uhler, Stormwater Program Manager of Cedarville Engineering, was present and gave a power point presentation on the Township's Pollutant Reduction Plan. According to Ms. Uhler, the National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System (NPDES MS4 Program), which is a federally mandated permit program enforced by the EPA, has permitting requirements which must be met in several "rounds". Due to the forethought on the part of the Township by getting a grant and being proactive, per Mr. Uhler, the Township is in a good place as we have already met the 10% improvement threshold and exceeded it by 2% for Round 3 which is not in effect until March of 2018. Several questions were asked of the residents as follows:

- Jim Watters, 1 W. Indian Lane, inquired if these regulations only pertain to township owned property and not private property or that property owned by homeowners' assoc., etc.;
- Anthony Uhrich, Alexander Drive, inquired about the percentage of Township owned-storm basins and if they are the only ones covered by these regulations, and when the Best Management Practices (BMP's) were Uhrich also implemented;
- Marc Brier, 106 Plowshare Road, asked if the Township can do more than the required 10% now or do we have to wait until the next Round; and
- Kim Haymans-Geisler stated that it seemed to her to be a "backing off" of regulations.

Ms. Uhler replied that the DEP only requires what is stated in the plan, but that the Township can do more if it wants and is able to, and she also stated that everything is lined up here and is going well. It was noted by Ms. Pionzio that two (2) years ago everyone "freaked out" with the new DEP regulations and the fear of the unknown costs, etc., but now is taking a more realistic view of changes that can make a difference.

- Theresa Santangelo of 1912 Sterigere Street asked about the "stagnant" water in her yard and the status of the Sterigere Street Basin. Ms. Pionzio asked that Ms. Santangelo allow the Township staff to look into what went on at today's meeting between the project manager and the contractor.

**SALDO Hearing** A motion to suspend the meeting and conduct a hearing on proposed Ordinance No. 2017-711 amending Subdivision and Land Development (SALDO) was made by Mr. McKenzie, seconded by Mr. Tolbert and unanimously approved. Thereafter, Ms. Pionzio conducted the hearing and stated that the current Ordinance flies in the face of the planning code thus necessitating an amendment thereto. Per Ms. Pionzio, the amended Ordinance was sent to the Montgomery County Planning Commission and the Township Planning Commission for approval. No questions or comments were asked. Upon motion of Mr. Tolbert, seconded by Mr. McKenzie and unanimously approved, the meeting was resumed.

**Minutes Approval** Upon motion of Mr. McKenzie, seconded by Mr. Tolbert and unanimously approved, the Minutes of the Board's work sessions of May 2, 2017 and its regular meeting of May 9, 2017 were approved.

**Report of Bills Approval of checks** Mr. Bobst read the Finance Committee Report and requested approval of: General Fund and Golf Club payroll checks in the amount of \$28,770.32; payroll vouchers in the amount of \$233,998.29; and the Payment Approval Report in the amount of \$720,301.99.

Upon motion of Mr. Kennedy, seconded by Mr. McKenzie and unanimously passed, the report of checks and vouchers was approved by the Board.

**Committee Reports: Administration & Finance** Mr. Bobst updated the Board on the sewer planning module for 1807 Sterigere Street by noting that no plans have been submitted for development and that there has been no Agreement of Sale; therefore, this matter is closed. Also, the items on the Agenda under New Business were enumerated and highlighted by Mr. Bobst.

Mr. Murray did not present his report at the meeting; however, he has since submitted his summary which shows cash balances in the various funds as follows:

	<u>April 30<sup>th</sup></u>	<u>May 31<sup>st</sup></u>
General Fund	6,584,907.81	9,876,768.47
PLGIT 10105000	42,664.73	42,684.57
PLGIT CD	0.00	0.00
Continental CD	0.00	0.00
Golf Fund	96,387.02	70,434.85
Escrow Fund	715,684.20	773,692.99
Sinking Fund	6,582.63	58,879.15
Liquid Fuels	483,121.14	482,472.03
Capital Reserve PLGIT	189,811.83	189,812.04
Capital Reserve CD	0.00	0.00
Capital Reserve	0.00	0.00
Sewer Capital Acct	627,191.39	555,641.24
Vehicle Replacement Fund	363,860.56	347,077.29
Police Pension Citizens	32,726.42	38,202.40
Non-Unif. Pens. Citizens	208.43	646.70

Grants, DUI	0.00	0.00
Grants, Misc.	968.13	968.54
Traffic Impact Fee	389,367.39	389,532.78

Upon motion of Mr. McKenzie, seconded by Mr. Tolbert and unanimously passed, the Administration & Finance reports were approved.

**Public Safety**

Chief Mabry highlighted his monthly report and announced the creation of a Facebook page for the police department.

On motion of Mr. Tolbert, seconded by Mr. McKenzie and unanimously passed, the Public Safety Report was approved.

**Public Works**

The highlights of the Public Works report were presented by Mr. Valyo.

Upon motion of Mr. McKenzie, seconded by Mr. Tolbert and unanimously passed, the Public Works Report was approved.

**Building & Zoning**

Mr. Valyo presented the highlights of the Building and Zoning Report as prepared by Thomas Heisner, BCO.

On motion of Mr. Kennedy, seconded by Mr. McKenzie and unanimously passed, the Building/Zoning Report was approved.

**Recreation**

The Recreation report was prepared and presented by Jon Dzedzy who advised the Board of the passing of Beth Hildebrand, Senior Circle volunteer.

Mr. Dzedzy highlighted some upcoming events, including summer camp for the 195+ children enrolled therein, the 9<sup>th</sup> Annual 5K run on July 4<sup>th</sup>, and the Family Movie Night on August 26<sup>th</sup>. Mr. Panzullo commented that the recent Community Day and fireworks was a "great day".

Also, a press release was read by Mr. Dzedzy regarding the obtaining of a Montco 2040 Grant in the amount of \$80,000.00, the proceeds of which will be used for the Betzwood Trail Head project.

Upon motion of Mr. Tolbert, seconded by Mr. McKenzie and unanimously passed, the Recreation Report was approved.

**Jeffersonville Golf Club**

Mr. Bobst presented the highlights of the golf report and noted that the revenue is exceeding the projected budget. Also, according to Mr. Bobst, the improvement project is moving forward as the grove and restrooms at the grove have been removed.

On motion of Mr. Donoghue, seconded by Mr. McKenzie and unanimously passed, the Golf Club Report was approved.

**Sanitary Sewer Engineer**

The highlights of the monthly Sanitary Report of Gilmore & Associates was presented by Mr. Figaniak.

Upon motion of Mr. Kennedy, seconded by Mr. McKenzie and unanimously passed, the Sanitary Report was approved.

**Consulting Engineer**

The highlights of the engineer's report of Gilmore & Associates was presented by Mr. Garton who also mentioned, regarding the Blue Dove Basin, that the next step is to file and injunction to enter the property and dewater the basin.

Upon motion of Mr. Kennedy, seconded by Mr. Tolbert and unanimously passed, the Sanitary Report was approved.

**All Committee reports are on file in the Administration office of the Township Building for the public to view during normal business hours.**

**Commissioners' Comment**

No comments were offered by the Commissioners.

**Public Comment**

Joseph Santangelo of 1912 Sterigere Street inquired about the location of the construction entrance for Phase I of the Markley Farms development, to which Mr. Bobst replied on Oakland Drive, and also about the possibility of replacing the signs at the retention basin notifying pet owners to cleaning up after their dogs.

Leroy James Watters of 1 E. Indian Lane commented that "downstream of the basin is growing in so thanks for that".

Anthony Uhrich of Alexander Drive inquired about three (3) items: 1) erosion of land and the creation of swampy area resulting from water run-off from Regents Park; 2) revised timeline of the VanLandeghem project, which Mr. Bobst advised would be in fall with a public meeting in October and final documents in early 2018; and 3) leaving wider borders of taller grass where water lies in basins.

There being no further comments offered, upon motion of Mr. Tolbert, seconded by Mr. McKenzie and unanimously approved, the public comment portion of the meeting was closed.

**New Business**

Upon motion of Mr. Kennedy, seconded by Mr. Tolbert and unanimously agreed, the Board authorized execution of Stipulation and Order of Settlement regarding the tax assessment appeal of Rodney & Sandra Bones @ Parcel 63-00-06802-00-2.

Upon motion of Mr. Kennedy, seconded by Mr. Tolbert and unanimously agreed, the Board awarded the bids for the items up for sale on Municibid to the highest bidders as follows:

- 2011 Ford Police Interceptor to Marty Falconieri for \$4,000.00;
- 2003 Chrysler Town & Country to Byron Butcher for \$1,555.00;
- 2006 Buick Lucerne to Precious Bonney for \$3,155.00;
- 2012 Ford Expedition to Gerard Immersi for \$7,400.00; and
- 2007 Ford Taurus to Mark Weishaar to \$2,051.00.

Upon motion of Mr. Tolbert, seconded by Mr. McKenzie and unanimously agreed, the Board adopted Ordinance No. 2017-710 Amending Registration and Licensing of Residential Rental Units by repealing the triennial inspections thereof (copy attached);

After hearing thereon and upon motion of Mr. Kennedy, seconded by Mr. McKenzie and unanimously agreed, the Board adopted Ordinance No. 2017-711 Amending Subdivision and Land Development Ordinances regarding procedures for plat approval (copy attached);

Upon motion of Mr. Tolbert, seconded by Mr. McKenzie and unanimously agreed, the Board adopted Ordinance 2017-712 to mirror The First Class Township Code regarding separation of the office of Township Treasurer and Tax Collector (copy attached);

Upon motion of Mr. Tolbert, seconded by Mr. McKenzie and unanimously agreed, the Board authorized the advertising of an Ordinance in compliance with the contract re: non-uniformed DROP.

Upon motion of Mr. McKenzie, seconded by Mr. Tolbert and unanimously agreed, the Board authorized the removal from the Agenda of the Tabled Matters known as "Open Space Preservation District and Inventory of Historical Structures".

Mr. Bobst noted that there is no Zoning Hearing Board meeting this month, nor is there is a Planning Commission Meeting scheduled.

**Adjournment**

*There being no further business, at 8:25 PM, on motion of Mr. Tolbert, seconded by Mr. McKenzie and unanimously agreed by the Board, the public meeting was adjourned.*

*Kathy Frederick  
Assistant Secretary*



GOVERNMENT DEPARTMENTS RESIDENTS DOING BUSINESS How Do I

- Van Landeghem Master Site Plan
- West Main Street Corridor Study
- Agendas & Minutes
- FY 2017 Budget Information
- Development Projects
- Proposed Ordinances
- Township Code
- Staff Directory

Home > News Flash

Township Events and News

Posted on: June 9, 2017

Proposed Pollutant Reduction Plan for West Norriton

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.



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 and the summary prepared by Cedarville Engineering, visit <http://westnorritontwp.org/index.aspx?N1>

There is a 30 day comment period for the plan and Cedarville Engineering will be providing a presentation on the plan at the Regular Meeting of the Board of Commissioners on Tuesday, June 13th beginning at 7:00 PM.

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Posted on: July 21, 2016

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West Norriton Township  
 1630 W. Marshall St.  
 Jeffersonville, PA 19403

Ph: 610-631-0450  
 Fx: 610-630-0304

Monday - Friday  
 8 a.m. to 4:30 p.m.

**AFFIDAVIT OF PUBLICATION**  
307 Derstine Avenue • Lansdale, PA 19446

**WEST NORRITON TOWNSHIP**  
1630 W MARSHALL STREET  
NORRISTOWN, PA 19403  
Attention:

STATE OF PENNSYLVANIA,  
COUNTY OF MONTGOMERY

WEST NORRITON TOWNSHIP  
PUBLIC NOTICE

The undersigned *Rina Chiray*, being duly sworn the he/she is the principal clerk of The Times Herald, Times Herald Digital, published in the English language for the dissemination of local or transmitted news and intelligence of a general character, which are duly qualified newspapers, and the annexed hereto is a copy of certain order, notice, publication or advertisement of:

The West Norriton Township Pollutant Reduction Plan for Stony Creek, Indian Creek, and unnamed tributaries to the Schuylkill River is available for public review on the Township website at <http://www.westnorritontwp.org> and by request at the Township Building at 1630 W. Marshall St., Jeffersonville, PA 19403. Written comments from the public will be accepted for a period of 30 days from the date of this public notice. Verbal and written comments will also be accepted during the Board of Commissioners meeting scheduled for June 13, 2017 at 7:00pm at the Township Building. The Pollutant Reduction Plan describes proposed measures to be taken to reduce sediment pollution to Stony Creek, Indian Creek, and unnamed tributaries to the Schuylkill River within West Norriton Township and is a requirement of the Township's National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit. NTH 6/6 1-a

**WEST NORRITON TOWNSHIP**

Published in the following edition(s):

The Times Herald                      06/06/17  
Times Herald Digital                06/06/17

Sworn to the subscribed before me this 6/12/2017.

*Maureen Schmid*  
Notary Public, State of Pennsylvania  
Acting in County of Montgomery

COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
MAUREEN SCHMID, Notary Public  
Lansdale Boro., Montgomery County  
My Commission Expires March 31, 2021

**Advertisement Information**

Client Id: 882782                      Ad Id: 1353235                      PO: MS 4 Notice                      Sales Person: 093302



ONLINE SALE

# COMPOST BINS & RAIN BARRELS

## 2018 MONTGOMERY COUNTY PA EVENT

**Pickup date and location for PREORDERED items:**

**Saturday, June 2** **Norristown Farm Park**

**9:00 am - Noon**

2500 Upper Farm Road (*Entrance at the intersection of Germantown Pike and North Wales Road*)  
Norristown, PA

Purchase discounted backyard compost bins and rain barrels online. The Earth Machine Compost Bin is on sale for \$50 and the System Rain Barrel is on sale for \$65, see website for details. Additional items such as aerators and kitchen scrap buckets may also be purchased online.

Preorder by May 19 for pick up at Norristown Farm Park on Saturday, June 2, 2018 from 9:00 am to noon. All items must be preordered online, no same day sales.

**Order through the sale website at [www.montgomerycompostersale.ecwid.com](http://www.montgomerycompostersale.ecwid.com).**

Montgomery County has organized this event to encourage composting and rain barrel use; it is not a fundraiser.



MONTCO PA  
RECYCLES



[MontcoPARecycles.org](http://MontcoPARecycles.org)

### **For additional information and in case of severe weather:**

Please visit [MontcoPARecycles.org](http://MontcoPARecycles.org), email [recycling@montcopa.org](mailto:recycling@montcopa.org), or call the recycling line at 610.278.3618. Please do not contact the host sites, as they are not affiliated with the events.

In case of severe weather, call 610.278.3618, option 6 for event status.

MONTGOMERY COUNTY BOARD OF COMMISSIONERS

Valerie A. Arkoosh, MD, MPH, *Chair* • Kenneth E. Lawrence, Jr., *Vice Chair* • Joseph C. Gale, *Commissioner*

# The Earth Machine Is Coming!

## Compost Bin & Rain Barrel Sale



**The Earth Machine™**  
Up to 30% of all household waste can be composted right in your back yard with the EARTH MACHINE™! Use natural compost for a healthy lawn and garden.

- 80 gallon capacity, the ideal size for maintaining an active compost pile.
- Lightweight and easy to assemble
- Adjustable ventilation
- Made with 50% recycled plastic
- Twist locking pest-resistant lid
- Off-set retrieval door for easy harvesting
- 10 Year warranty
- Accessories included (Get Started Guide and ground screws)

**ONLY**

**\$ 50.00**



**Systern Rain Barrel**  
Rain water, free from chemicals, is an excellent water source for lawns, plants and gardens. Using a rain barrel conserves municipal water and cuts household water bills.

- 55 Gallon (208 litre) capacity
- Conserve municipal water supply
- Unique shape and neutral colour blends in to any garden scape
- Made of up to 50% recycled materials
- Incorporated mosquito mesh
- Easily accommodates existing downspouts
- Overflow capability and can be linked to another SYSTERN
- Accessories included (overflow hose, spigot)

**ONLY**

**\$ 65.00**

*Pickup Location:*

Norristown Farm Park, 2500 Upper Farm Road, Norristown

*Time:*

9am-noon

*Date:*

Saturday, June 2, 2018

**Order Yours Today at [www.montgomerycompostersale.ecwid.com](http://www.montgomerycompostersale.ecwid.com)**



# HOUSEHOLD HAZARDOUS WASTE

## 2018 MONTGOMERY COUNTY PA RESIDENTIAL EVENTS

9:00 am – 3:00 pm

### DATES:

**Saturday, April 21**

**Boyertown Jr. High East School**  
2020 Big Rd. • Gilbertsville

**Saturday, May 5**

**Indian Valley Middle School**  
130 Maple Ave. • Harleysville

**Saturday, May 19**

**Temple University–Ambler Campus**  
enter at 1431 E. Butler Pike • Ambler

**Saturday, June 23**

**Abington Junior High School**  
enter at 2056 Susquehanna Rd. • Abington

**Saturday, June 30**

**Norristown Area High School**  
1900 Eagle Dr. • Norristown  
(enter at Whitehall Rd.)

**Saturday, September 22**

**Spring-Ford 9th Grade Center**  
400 South Lewis Rd. • Royersford

**SUNDAY, October 21**

**Lower Merion Transfer Station**  
1300 N. Woodbine Ave. • Penn Valley

Free residential collection events are held outdoors from 9am-3pm. Residents may attend any Household Hazardous Waste event held by Bucks, Chester, Delaware, Montgomery, or Philadelphia Counties.

### For additional information and in case of severe weather:

Please visit [MontcoPARecycles.org](http://MontcoPARecycles.org), email [recycling@montcopa.org](mailto:recycling@montcopa.org), or call the recycling line at 610.278.3618. Please do not contact the host sites, as they are not affiliated with the events.

In case of severe weather, call 610.278.3618, option 6 for event status.



Pennsylvania Department  
of Environmental  
Protection



MONTCO PA  
RECYCLES



[MontcoPARecycles.org](http://MontcoPARecycles.org)

MONTGOMERY COUNTY BOARD OF COMMISSIONERS

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# HOUSEHOLD HAZARDOUS WASTE COLLECTION INFORMATION

## ACCEPTABLE MATERIALS

PAINT PRODUCTS	OUTDOOR PRODUCTS	AUTOMOTIVE PRODUCTS	HOUSEHOLD PRODUCTS	HOUSEHOLD OTHER
Turpentine	Swimming Pool Chemicals	Grease & Rust Solvents	Drain Openers	Acids, Caustics, Solvents
Paint Thinners	Weed Killers	Fuel Additives	Rug Cleaners	Flammables
Strippers & Removers	Septic Tank Degreasers	Carburetor Cleaners	Wood & Metal Cleaners	Oxidizers
Oil-Based Paints	Asphalt Sealers	Transmission/Brake Fluid	Mothballs/Flakes	Reactives
Stains, Varnish	Caulking Compounds	Antifreeze	Adhesives/Solvents	Lead
Shellac	Joint Compound	Car(lead-acid), Truck, Motorcycle, Marine, Batteries	Rechargeable batteries, Lithium, Ni-Cad, Button, Lead Acid	Mercury (Thermostats & Thermometers)
Other Solvent-Based Paint Products	Roof Cements	Gas, Oil, Gas Oil Mixture	Spot Removers Dry Cleaning Fluid	Fluorescent Tubes, Ballast, and CFLs
Wallpaper Cement	MINI Propane Tanks	Flares	Fire Extinguishers	Aerosols
Spray Paint	Pesticide		Kerosene	Electric Oil-filled Heaters

## UNACCEPTABLE MATERIALS

Explosives & Ammunition	Electronics	Asbestos	Appliances/White Goods
Infectious or Medical Waste	Pressurized CFCs & HCFCs	Radioactive Waste	Freon Appliances
Tires	Helium Tanks	Unidentified Waste	PCBs
Latex Paint* (Water-Based)	Gas Cylinders	Alkaline Batteries (Trash)	Smoke Detectors

\* Take off lid, dry out paint, discard can without lid; or pour paint into plastic bag with absorbent material (clay based kitty litter, saw dust, rags) place bag and can without lid, in trash. Paint hardener can also be purchased at hardware stores.

## DROP OFF GUIDELINES

- BUSINESSES AND CONTRACTORS WILL BE TURNED AWAY, commercial/industrial generated hazardous waste will not be accepted.
- Bring all substances in original containers with labels. Items must be identifiable. Do not mix materials.
- Gas containers returned upon request.
- Tighten lids on all containers. If containers are leaking, pack in larger container with newspaper to soak up leaks.
- Maximum amount accepted is 25 gallons or 220 pounds. No 25- or 50-gallon drums.
- Event workers will unload your materials so please remain in your vehicle.
- There are no permanent drop off locations in the region for household hazardous waste, only the listed collections.

Early Intervention Program & Report

Van Landeghem Master Site Plan

West Main Street Corridor Study

Agendas & Minutes

FY 2018 Budget Information

Development Projects

Proposed Ordinances

Township Code

Staff Directory

Township Events and News

Posted on: February 7, 2018

### Montgomery County Recycling Event Schedules for 2018

#### Household Hazardous Waste

In addition to the Montco Household Hazardous Waste tixer, we have attached the five county Regional SEPA HHW Tixer. Montco residents are welcome at the HHW events in Bucks, Chester, and Delaware Counties and Philadelphia at no charge. Residents have 29 collection event opportunities for HHW from April through November. There is no drop off location for HHW outside of the County events.

[2018 Montgomery County Household Hazardous Waste Residential Events](#)  
[Southeastern PA Regional Hazardous Waste Residential Events](#)



#### Tires

Tires must legally be recycled and tire retailers will accept used tires for a recycling fee of approximately \$.3 per tire. Two free tire collection events will be held in 2018 specifically to discourage illegal dumping and the spread of mosquito borne illnesses.

[2018 Montgomery County Residential Tire Collection Events](#)

#### Compost Bin and Rain Barrel Sale

A tixer for a preorder sale of discounted compost bins and rain barrels to be picked up in Norristown is also attached. Montgomery County has organized this event to encourage composting and rain barrel use. It is not a fundraiser.

[Compost Bin & Rain Barrel Sale](#)

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JUN  
30

## Household Hazardous Waste Collection Event.

Public - Hosted by West Norriton Township

★ Interested

✓ Going

➦ Share ▾

⋮



Saturday at 9 AM - 3 PM

3 days from now · 70–93° Sunny



Norristown Area □ High School □

1900 Eagle Dr, Norristown, Pennsylvania 19403

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Discussion



# TIRE COLLECTIONS

## 2018 MONTGOMERY COUNTY PA RESIDENTIAL EVENTS 9:00 am – Noon

### WHEN:

**Saturday, June 9**

### WHERE:

**Montgomery County Community College**  
Enter at 340 DeKalb Pike, Blue Bell, PA 19422

**Saturday, June 16**

**Western Montgomery Career and Technology Center**  
77 Graterford Road, Limerick, PA 19468

The Montgomery County Commissioners authorize these **FREE** events to prevent tires from being improperly disposed of and to reduce breeding grounds for disease carrying mosquitoes. The tires that are collected will be shredded and repurposed by a local business into products such as road surface material, highway sound barrier wall material, and playground material.

- Montgomery County residents only
- No businesses!
- Free of charge
- 10 tires per vehicle maximum
- Rims and tires on rims accepted
- No off road tires



### For additional information and in case of severe weather:

Please visit [MontcoPARecycles.org](http://MontcoPARecycles.org), email [recycling@montcopa.org](mailto:recycling@montcopa.org), or call the recycling line at 610.278.3618. Please do not contact the host sites, as they are not affiliated with the events.

In case of severe weather, call 610.278.3618, option 6 for event status.

**MONTGOMERY COUNTY BOARD OF COMMISSIONERS**

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# **APPENDIX C**

## **MCM #3**

### **Illicit Discharge Detection and Elimination**



# **STORMWATER MANAGEMENT PROGRAM**

## **ILLICIT DISCHARGE DETECTION & ELIMINATION**



**West Norriton Township**  
Montgomery County, Pennsylvania

1630 W. Marshall St.  
Jeffersonville, PA 19403

*Updated: November 2017*



# **CEDARVILLE**

## **Engineering Group, LLC**

**Sustaining Communities by Design**

1033 S. Hanover Street, Suite 300  
Pottstown, PA 19465

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[www.cedarvilleeng.com](http://www.cedarvilleeng.com)

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## 1. INTRODUCTION

West Norriton Township has developed and is implementing an Illicit Discharge Detection & Elimination (IDD&E) program as part of the Township's Stormwater Management Program. The IDD&E program provides for the detection, elimination, and prevention of illicit discharges into the MS4.

The IDD&E program includes the following:

- Priority areas;
- Outfall field screening;
- Identifying the source of an illicit discharge;
- Eliminating an illicit discharge;
- Potential for illicit discharges caused by the interaction of sewage disposal systems;
- Gaining access to private properties; and
- Program documentation, evaluation, and assessment.

The IDD&E program is designed to comply with West Norriton Township's National Pollution Discharge Elimination System – Municipal Separate Storm Sewer System (NPDES-MS4) General Permit No. PAG130006 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. 3 – Illicit Discharge Detection & Elimination – Best Management Practice (BMP) #3 of the NPDES-MS4 permit.

## 2. WEST NORRITON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE

The Township enacted an ordinance (No. 04-595) on July 13, 2004 that fulfills the requirements of the Pennsylvania Act 167 Stormwater Management Plan. This ordinance includes language that prohibits non-stormwater discharges to the MS4 (Section 701).

## 3. PRIORITY AREA

Priority areas can be defined as likely sources of illicit discharges based on available information. Potential priority areas include outfalls within and/or in proximity to:

- Concentration of high-risk activities (i.e. commercial/industrial areas, etc.)
  - Areas with older infrastructure (i.e. areas that may have deteriorating sewer and/or storm sewer infrastructure that can lead to infiltration problems).
  - Areas with a past history of water pollution problems or been repeated complaints; and
  - Outfalls that discharge to impaired waters.
-



The Township largely consists of large historically residential and commercial areas. Much of the development within the Township predates the current more stringent stormwater and sanitary sewer regulations and contains aging infrastructure. Of the 52 outfalls identified within the MS4, 44 discharge to waters impaired by siltation, therefore will be treated as priority areas.

## **4. OUTFALL FIELD SCREENING**

### **4.1. DRY WEATHER OUTFALL FIELD SCREENING & TESTING**

All outfalls are required to be screened during dry weather at least once during the permit coverage term. Dry weather is defined as “a continuous time interval without stormwater producing events that immediately follows an initial 48-hour period with no stormwater producing events.” Areas where there have been past problems or continual dry weather flow documented should be screened annually.

The presence of flow in an outfall or inlet during dry weather indicates a likely illicit discharge. Other potential explanations for the presence of such flow may include infiltrating groundwater or the diversion of a surface stream into the MS4.

If the field screening reveals dry weather (i.e. non-stormwater) flow, the discharge from the outfall and the area around the outfall shall be inspected visually for the following:

- Color
- Turbidity
- Sheen
- Floating or submerged solids
- Condition of plants or animals in the vicinity
- Odor

This information can help identify contaminants present in the discharge and/or the likely nature of the discharge (i.e. sanitary, industrial, etc.). If any of the characteristics listed above are observed in the dry weather flow, then samples should be collected for field and/or laboratory testing to determine if the flow is illicit. The following parameters may be considered for testing, depending on the results of the field screening:

- pH
- Conductivity
- E. coli bacteria
- Fecal coliform
- Metals
- Suspended solids



- Dissolved solids
- Oils
- Ammonia
- Surfactants
- Chlorine
- Fluoride

Proper quality assurance and quality control procedures should be followed when collecting, transporting, and analyzing water samples.

If an outfall does not have dry weather flow, no testing is required. Observations of each outfall should be recorded each time an outfall is screened, regardless of the presence of dry weather flow. All outfall screening information should be recorded on the Outfall Reconnaissance Inventory/Sample Collection field sheet provided by DEP (or equivalent). Adequate written documentation is required to justify a determination that a dry weather flow is not illicit.

The results of the outfall field screenings, any water testing, and any actions taken to remove or correct illicit discharges should be summarized in the periodic reports required as part of the NPDES MS4 and submitted to DEP.

#### **4.2. OUTFALL FIELD SCREENING IN PRIORITY AREAS**

Efforts will be made to screen priority outfalls annually. At a minimum, screening will be performed based on the NPDES MS4 permit requirements described in Section 4.1.

### **5. IDENTIFYING THE SOURCE OF AN ILLICIT DISCHARGE**

Once an illicit discharge has been discovered, various methods can be used to pinpoint the exact source of the discharge. These techniques, many of which are already used by municipal sewer departments, include manhole observation, video inspection, smoke testing, dye testing, aerial infrared and thermal photography, and tracking illegal dumping.

#### **5.1. MANHOLE/INLET OBSERVATIONS**

A key tracing technique is to follow dry-weather flows upstream along the conveyance system to bracket the location of the source. This should be attempted prior to implementing the other techniques below. This can be accomplished by taking the following steps:

- Consult the drainage system map.



- Check the next upstream manhole with a junction to see if there is evidence of discharge. It may be helpful to sample each manhole that has a discharge.
- Repeat these steps until a junction is found with no evidence of discharge; the discharge source is likely to be located between the junction with no evidence of discharge and the next downstream junction.
- Be aware of the surrounding areas and look for water in gutters and streets. Note that the Boston Water and Sewer Commission has had success working in the opposite direction (i.e., upstream to downstream) (Jewell 2001). Manhole observations can be time-consuming, but they are generally a necessary step before conducting other tests.

## **5.2. AERIAL INFRARED AND THERMAL PHOTOGRAPHY**

Aerial infrared and/or thermal photography can be used to locate illicit discharges from outfalls and failing septic systems using temperature and vegetation as markers. This technique requires knowledge of aerial photo interpretation, but can easily be reviewed for any and all illicit discharges and should be a routine step in tracking sources (primarily in the detection of failing septic systems contributing to an illicit discharge).

- For outfalls:
  - Note if discharge has a higher temperature than that of the stream.
  - Note if algae growth is concentrated near an outfall.
- For potentially failing septic systems:
  - Note evidence of increased moisture in surrounding soil.
  - Observe vegetation located close to the potentially failing septic system, and note any increase in vegetation compared to the surrounding area.

## **5.3. VIDEO INSPECTION**

Mobile video cameras can be guided remotely through storm sewer lines to observe possible illegal connections into storm sewer systems and record observations electronically. Township staff can observe the videos and note any visible illegal connections. This technique is time-consuming and expensive but thorough and usually definitive, and it does not require the intrusion on members of the public that some of the other methods do.

## **5.4. SMOKE TESTING**

This technique involves injecting non-toxic smoke into storm sewer lines and then noting the emergence of smoke from sanitary sewer vents in illegally connected buildings or from cracks and leaks in the storm sewer lines. The injection is accomplished by placing a smoke bomb in the storm sewer manhole below ground and forcing air in after it. Smoke-generating machines can also be used. Test personnel should be stationed at points of suspected illegal connections or cracks/leaks, noting any escape of smoke (indicating an illicit connection or damaged storm sewer infrastructure).

Prior to performing this test, it is necessary to inform building owners and occupants in the area in advance. It is also advisable to inform the police and fire departments. For a more thorough smoke-test program, the sanitary



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sewer lines can also be smoked. For houses that do not emit smoke during either the sanitary sewer or the storm sewer system tests, sewer gas may be venting inside, which is hazardous. Interviews with various IDDE program staff suggest that the smoke-test method is more effective in infiltration/inflow investigations of the sanitary sewer system than in detecting illegal connections to the storm sewer system.

Smoke may cause minor irritation of respiratory passages; residents with respiratory conditions should receive special attention to determine if it is safe for them to be present for the testing. Smoke testing is typically used to survey an area all at once, in contrast to dye testing, which tests one building at a time.

### **5.5. DYE TESTING**

This technique involves flushing non-toxic dye into toilets, sinks, or other suspected illicit discharge sources and observing storm sewer and sanitary sewer manholes and storm sewer outfalls for the presence of the dye.

Prior to performing this test, it is necessary to inform building owners and occupants in advance and gain permission for entry. Local public health and state water quality staff should also be notified so that they will be prepared to respond to citizens calling about any dye observed in surface waters.

To perform the test, a crew of two or more people (ideally, all with two-way radios) is required. One person is inside the building; the others are stationed at the appropriate storm sewer and sanitary sewer manholes (which should be opened) and/or outfalls. The inside person drops dye into a plumbing fixture (i.e., toilet or sink) and runs a sufficient amount of water to move the dye through the plumbing system. The inside person then radios to the outside crew that the dye has been dropped, and the outside crew watches for the dye in the storm sewer and sanitary sewer, recording the presence or absence of the dye.

The test is relatively quick (about 30 minutes per test), effective (results are usually definitive), and cheap. Dye testing is best used when the likely source of an illicit discharge has been narrowed down to a few specific houses or businesses.

### **5.6. TRACKING ILLEGAL DUMPING**

Developing a coordinated system for collecting and tracking reports of illegal dumping can help pinpoint this difficult-to-find source of illicit discharges. Illegal dumping can be tracked by:

- Creating a hotline that can be used to report any illegal-dumping behavior (i.e., who illegally dumped and where illegal dumping occurred).
- Observing the materials that have been illegally dumped and trace the potential sources of the materials.
- Noting where dumping occurs most often, record patterns of time of day and day of the week, and note common responsible parties.



Tracking illegal dumping may require significant staff time to receive, respond to, and track complaints; as well as to catch illegal dumpers in the act.

## **6. ELIMINATING AN ILLICIT DISCHARGE**

Because there are various sources of illicit discharges to the storm sewer system, there are different kinds of actions that may have to take to remove those sources and prevent future illicit discharges, including:

- Voluntary compliance;
- Enforcement;
- Proper construction and maintenance of MS4s; and
- Responding to and preventing illegal dumping.

Typically, the process of eliminating an illicit discharge should be pursued in a graduated manner. The Township should begin with efforts to obtain voluntary compliance and escalate to increasingly severe enforcement actions if compliance is not obtained.

### **6.1. VOLUNTARY COMPLIANCE**

The responsible party may be unaware of the existence of illegal connections between their buildings and the storm sewer systems or other illicit discharge. Because of this, in most cases, the Township should first seek voluntary compliance by providing the responsible party with following information:

- Inform them of the presence of the connection or other violation;
- Environmental consequences of their illicit discharge;
- Applicable regulations; and
- How to remedy it.

### **6.2. ENFORCEMENT**

In the event that voluntary compliance cannot be secured, the Township may pursue enforcement action by taking the following steps:

- Send the property owner a Notice of Violation (NOV), which may require the violator to take steps such as monitoring, elimination of an illicit connection or discharge, or payment of a fine.
- The person receiving the NOV may appeal it.
- If the person receiving the NOV does not appeal or loses the appeal and fails to correct the violation, the Township may “take any and all measures necessary to abate the violation and/or restore the property.” The Township then may require reimbursement from the violator for the cost of the abatement, including administrative costs.
- The Township may also seek an injunction against the violator “restraining the person from activities which would create further violations or compelling the person to perform abatement or remediation of the violation.”



It may also be possible, helpful, or necessary to seek additional enforcement action from state or federal authorities. Depending on the nature of the illicit discharge, the jurisdictional agencies may include one or more of the following:

- DEP
- Montgomery County Conservation District (MCCD)
- Pennsylvania Fish and Boat Commission (PFBC)
- EPA

Involvement of state or federal authorities may also be necessary if the source of an illicit discharge is located outside of the Township's boundaries.

### **6.3. PROPER CONSTRUCTION AND MAINTENANCE OF MS4s**

Contamination can infiltrate into a cracked or leaking MS4 from leaking sanitary sewer pipes, failing septic systems, or contaminated groundwater. To help prevent this, both MS4s and sanitary sewer systems should be inspected periodically and maintained properly to keep them in good repair. Also, the periodic review and updating of the MS4 map and sanitary system map can help identify these cross-connections and prevent them during any new construction that takes place.

### **6.4. RESPONDING TO AND PREVENTING ILLICIT DISCHARGES**

#### **6.4.1. Responding to Illicit Discharges**

Members of the target audience may contact the Township to report an illicit discharge. Responses to complaints should be in a timely and appropriate manner. Responses, the action taken, the time required to take the action, whether the complaint was resolved, and any other coordination should be documented.

#### **6.4.2. Educational Outreach**

The Township will make an effort to provide educational outreach concerning IDD&E program to the target audiences identified in the Public Education and Outreach Program (PEOP), in order to help detect, eliminate, and prevent illicit discharges.

Methods of educational outreach can include:

- Educating the target audience about the environmental and legal consequences of illegally disposing of waste into the storm sewer system through the Township website, brochures, posters, etc.
- Publish a pamphlet with IDD&E educational information to be distributed with the issuance of building permits.
- Publicizing ways for citizens to properly dispose of waste (i.e. used oil recycling and household hazardous waste collections).



- Outreach to business sectors that handle hazardous materials and/or have a history of illegal-dumping problems; outreach should include information on Best Management Practices for spill prevention and proper waste disposal
- Surveillance of known illegal-dumping locations.
- Providing opportunities for volunteers to get involved in preventing and reporting illegal dumping.
- Storm drain stenciling
- Visual outfall inspections
- Training of Township employees, police officers, and other local entities on IDD&E

## **7. PRIVATE PROPERTIES**

Mechanisms for gaining access to private properties for outfall field screening, water quality testing, tracking illicit discharges, etc. will be pursued on a case-by-case basis, as needed. Some mechanisms for gaining access include: land easements, consent agreements, or search warrants.

## **8. PROGRAM DOCUMENTATION, EVALUATION, & ASSESSMENT**

All outfall field screening, water quality testing, illicit discharges, and related correspondence should be thoroughly documented and submitted to DEP with each progress report. Incident locations should be tracked and statistics (i.e. annual cleanup costs, facility compliance, arrests, convictions, fines, complaints) compiled.

The program will be evaluated and assessed annually and revised as necessary to improve upon the effectiveness of illicit discharge detection and elimination within the Township.

### **8.1. ANNUAL GOALS**

Goals for IDD&E program each year include:

- Implement and review the IDD&E program, and update as necessary.
- Review the MS4 map and update as necessary.
- Complete dry weather field screening on all outfalls once permit period (i.e. once every five years).
- Review the educational information concerning illicit discharges posted on the Township website and update as necessary, including identifying an illicit discharge reporting mechanism
- Distribute educational information or conduct a program concerning illicit discharges

## **9. REFERENCES**

Center for Watershed Protection & Robert Pitt. October 2004. Illicit Discharge Detection and Elimination: A Guidance



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Manual for Program Development and Technical Assessments.

[http://www.epa.gov/npdes/pubs/idde\\_manualwithappendices.pdf](http://www.epa.gov/npdes/pubs/idde_manualwithappendices.pdf)

New England Interstate Water Pollution Control Commission. January 2003. Illicit Discharge Detection and Elimination Manual: A Handbook for Municipalities.

<http://water.epa.gov/polwaste/npdes/stormwater/upload/iddmanual.pdf>

# **APPENDIX D**

## **MCM #5**

### **Post Construction Stormwater Management**

## WEST NORRITON BMP INVENTORY

BMP #	BMP ID	Project Name	Project Address	BMP Type	Resp_Party	Latitude	Longitude	Stream
1	1	West Norriton Self Storage	2112 W. Main St	Underground Detention Facility	Public Storage, Inc.	40.1344	-75.3815	UNT to Indian Creek
2	2	Oakland Farms	Wagon Wheel Rd	Detention Basin	West Norriton Twp	40.1432	-75.3812	UNT to Stony Creek
3	3A	The Church of Jesus Christ of Latter-Day Saint	2530 Stinson Ln	Detention Basin	Church of Jesus Christ of Latter-Day Saints	40.1195	-75.4078	Schuylkill River
4	3B	The Church of Jesus Christ of Latter-Day Saint	2530 Stinson Ln	Snout	Church of Jesus Christ of Latter-Day Saints	40.1197	-75.4075	Schuylkill River
5	4B1	Jubilee Presbyterian Church	1911 W. Marshall St	Infiltration Trench	Jubilee Presbyterian Church	40.1342	-75.3718	UNT to Schuylkill River
6	4B2	Jubilee Presbyterian Church	1911 W. Marshall St	Infiltration Trench	Jubilee Presbyterian Church	40.1337	-75.3724	UNT to Schuylkill River
7	4A1	Jubilee Presbyterian Church	1911 W. Marshall St	Rain Garden	Jubilee Presbyterian Church	40.1346	-75.3713	UNT to Schuylkill River
8	4A2	Jubilee Presbyterian Church	1911 W. Marshall St	Rain Garden	Jubilee Presbyterian Church	40.1345	-75.3711	UNT to Schuylkill River
9	4A3	Jubilee Presbyterian Church	1911 W. Marshall St	Rain Garden	Jubilee Presbyterian Church	40.1344	-75.3709	UNT to Schuylkill River
10	5	Visitation BVM Parish	196 N. Trooper Rd	Detention Basin	Archdiocese of Philadelphia	40.1462	-75.3831	UNT to Stony Creek
11	6	Fairways at Green Meadows	101 Fairway Ln	Detention Basin	Fairways Residential LP	40.1320	-75.3907	UNT to Indian Creek
12	7	Mobile Lifts Inc.	2 Liberty Av	Detention Basin	Jean Holt	40.1328	-75.3753	UNT to Schuylkill River
13	8	Mikelen, LLC	431 Burnside Av	Underground Basin	Roderick Williams	40.1484	-75.3663	UNT to Stony Creek
14	9	Yocum Roofing	48 S. Trooper Rd	Detention Basin	Frank Yocum	40.1404	-75.3900	Indian Creek
15	10	Marshall Street Elementary School	1525 W. Marshall St	Detention Basin	West Norriton School Authority	40.1287	-75.3611	UNT to Schuylkill River

16	11A	St. Sophia's Church	900 S. Trooper Rd	Detention Basin	St Sophia Greek Orthodox Church	40.1231	-75.4089	Schuylkill River
17	11B1	St. Sophia's Church	900 S. Trooper Rd	Bioretention Area	St Sophia Greek Orthodox Church	40.1232	-75.4087	Schuylkill River
18	11B2	St. Sophia's Church	900 S. Trooper Rd	Bioretention Area	St Sophia Greek Orthodox Church	40.1230	-75.4091	Schuylkill River
19	12	Norristown High School	1900 Eagle Dr	Constructed Wetland Basin	Norristown Area School District	40.1458	-75.3643	UNT to Stony Creek
20	13	Transply Inc.	2575 Industry Ln	Infiltration Trench	Ray Gross	40.1536	-75.3742	UNT to Stony Creek
21	14	Wawa	2544 W. Main St	Detention Basin	Wawa Inc.	40.1404	-75.3895	Indian Creek
22	15	Durante Property	519 Port Indian Rd	Seepage Bed	George Chad Springer	40.1307	-75.3914	Indian Creek
23	17	Chestnut Woods- Lot 2	137 Clemens Cir	Underground Stone Infiltration Pit	Joseph Logue	40.1420	-75.3844	Indian Creek
24	16	Chestnut Woods- Lot 1	139 Clemens Cir	Underground Stone Infiltration Pit	Jaylene Penrod	40.1420	-75.3843	Indian Creek
25	18	Chestnut Woods- Lot 3	135 Clemens Cir	Underground Stone Infiltration Pit	Mary Howard	40.1418	-75.3847	Indian Creek
26	19	455 Burnside Avenue	455 Burnside Av	Seepage Bed	Couchara John and Karen	40.1496	-75.3655	UNT to Stony Creek
27	20	The Greens at Westover	Brandon Rd	Detention Basin	VRJ Associates	40.1231	-75.3788	UNT to Schuylkill River
28	21	State Police Dispatch Center	Sterigere St	Detention Basin	Commonwealth of Pennsylvania	40.1336	-75.3527	Stony Creek
29	22	Cook Subdivision	51 S. Montgomery Ave	Seepage Bed	Cook Matthew and Eileen	40.1227	-75.3678	UNT to Schuylkill River
30	23A	Valley Forge Marketplace	416 & 432 Egypt Road	Underground Detention Facility	Delval Properties Associates	40.1304	-75.3995	Indian Creek
31	23B	Valley Forge Marketplace	416 & 432 Egypt Road	Seepage Bed	Delval Properties Associates	40.1307	-75.3997	Indian Creek
32	4C	Jubilee Presbyterian Church	1911 W. Marshall St	Porous Paving	Jubilee Presbyterian Church	40.1347	-75.3717	UNT to Schuylkill River



# STORMWATER MANAGEMENT PROGRAM

## POST CONSTRUCTION STORMWATER BMP OPERATION & MAINTENANCE INSPECTION MANUAL



**West Norriton Township**  
Montgomery County, Pennsylvania

1630 W. Marshall St.  
Jeffersonville, PA 19403

*Updated: November 2017*



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### APPENDIX A: PCSM BMP INSPECTION FORM



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## 1. INTRODUCTION

West Norriton Township has developed and is implementing a Post Construction Stormwater (PCSM) Best Management Practice (BMP) Inspection Program as part of the Township's Stormwater Management Program. The PCSM BMP Inspection Program ensures that all PCSM BMPs installed since March 10, 2003 are properly operated and maintained.

The PCSM BMP Inspection Program includes the following:

- West Norriton Township Stormwater Management Ordinance;
- PCSM BMP Inventory;
- Township Inspection Protocol;
- Other Owner Responsibilities
- Prohibitions;
- Compliance Process

The PCSM BMP Inspection Program is designed to comply with the West Norriton Township's National Pollution Discharge Elimination System – Municipal Separate Storm Sewer System (NPDES-MS4) Individual Permit No. PAG130006 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) #6 of the NPDES-MS4 permit.

## 2. WEST NORRITON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE

The Township adopted a stormwater ordinance as part of the Township Code on July 13, 2004. The ordinance may be cited as the “West Norriton Township Stormwater Management Ordinance” and is Ordinance 04-595. The adoption of this ordinance followed the advertising requirements set forth in the Pennsylvania Township Code, Section 1601 to provide the opportunity for public review, input, and feedback. The ordinance can be found on the township's website.

Sections of the ordinance that relate to the operations and maintenance of PCSM BMPs are located under Chapter 26, Part 1 and include:

- Responsibilities for Operations and Maintenance of Stormwater Management Facilities (§132);
  - Adherence to Approved BMP Operations and Maintenance Plan (§133);
  - Operations and Maintenance Agreements for Privately Owned Stormwater Management Facilities (§134);
  - Stormwater Management Easements (§135);
  - Recording of Approved Stormwater Management Facilities Operations and Maintenance Plan and Related Agreements (§136); and
  - Municipal Stormwater Management Facilities Operation and Maintenance Fund (§137)
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These sections of the ordinance require the operations and maintenance (O&M) responsibilities of all permanent BMPs, conveyances, or other stormwater management facilities be reviewed and approved by the Township, and recorded as public record. The ordinance describes both general and specific requirements for the O&M plan and agreement to be addressed during the Township review and approval process.

The O&M plan and agreement are required to establish an owner of proposed PCSM BMPs during the review and approval process. The owner is responsible for operation, repair, and maintenance of BMPs and/or conveyances following the completion of construction. The ordinance grants duly authorized representatives of the Township right of entry and access to inspect the operations and maintenance of stormwater management facilities per Chapter 26, §142.

### **3. PCSM BMP INVENTORY**

MCM #5, BMP #6 requires permittees to develop and continually update an inventory of PCSM BMPs, as development projects are reviewed, approved, and constructed. The inventory is required to include all PCSM BMPs installed since March 10, 2003 that discharge directly or indirectly to the Township MS4. The Township has elected to maintain an inventory of all PCSM BMPs, whether or not the BMPs discharge to the MS4, as the Township Stormwater Management Ordinance (Chapter 26, §132) requires the O&M of all PCSM BMPs. A copy of the current BMP inventory should be maintained at the municipal building.

Per NPDES MS4 permit requirements, the inventory shall include the following information:

- All PCSM BMPs installed to meet NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003;
- BMP location (i.e. street address);
- BMP owner (and responsible party for O&M) name and contact information;
- Maintenance required (according to the Pennsylvania Stormwater BMP Manual and/or other resources);
- Actual inspection/maintenance activities for each BMP; and
- An assessment by the permittee if proper O&M occurred during the year; and if not, what actions the permittee has taken, or shall take, to address compliance with O&M requirements.

### **4. TOWNSHIP INSPECTION PROTOCOL**

General post-construction stormwater management (PCSM) BMP inspection protocol is described below. The protocol can be applied to all PCSM BMPs listed in the Township Inventory.



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#### **4.1. FREQUENCY**

BMP #6, under MCM #5 of the NPDES MS4 permit, states that the permittee (West Norriton Township) is responsible to “ensure adequate operation and maintenance of all post-construction stormwater management BMPs installed at all qualifying development or redevelopment projects (including those owned or operated by the permittee).” The NPDES MS4 permit does not specify a required inspection frequency.

West Norriton Township has established an inspection frequency goal of a minimum of one (1) time per year. An effort will be made to inspect BMPs where violations have been documented in the past at a higher frequency.

#### **4.2. INSPECTOR**

PCSM BMPs will be inspected by a qualified Township employee or authorized sub-contractor. Inspectors should have a general knowledge on the functionality of PCSM BMPs, from both a design and construction standpoint, and/or receive training from a qualified individual.

#### **4.3. INSPECTION PROCESS**

The inspection will consist of a site visit and completion of the applicable section(s) of the PCSM BMP Inspection Form based on a visual inspection of the BMP from the surface. The Inspection Form has been included in Appendix A. The approved PCSM BMP Plans and/or As-built Plans should be referenced during the site visit to ensure the BMPs are functioning as designed. Any deficiencies should be noted and appropriate corrective action recommended.

The PCSM BMP Inspection Form is all-encompassing and can be utilized for the inspection of any type of BMP (both structural and non-structural). Because of this, the inspector must be aware that not all inspection elements will be applicable for each BMP. It is integral that the operations and maintenance requirements specified on the approved PCSM Plans are referenced in conjunction with the Pennsylvania Stormwater Best Management Practices (BMP) Manual (December 2006) to complete the form appropriately.

Generally, the inspector should look for inconsistencies with the approved plan, accelerated erosion, excess sediment and/or debris accumulation, structural integrity, and unstabilized areas. In the event that the O&M Plan does not contain specific maintenance requirements, the Township should inspect each BMP based per the BMP Manual recommendations. These recommendations are listed in Sections 5.1 through 5.5.

### **5. PCSM BMP TYPES**

A copy of the PCSM BMP Inventory for the West Norriton Township is maintained at the Municipal Building. This inventory includes all PCSM BMPs installed since March 10, 2003. These BMPs should be inspected per the approved PCSM plans, manufacturer specifications and Pennsylvania Stormwater BMP Manual considerations. Common structural BMPs include subsurface infiltration beds, dry extended basins, dry well/seepage pits, wet ponds/detention

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basins, and level spreaders. Operation and maintenance protocol for each BMP type, as specified in the Pennsylvania Stormwater BMP Manual (Manual) are summarized in the subsequent sections.

### **5.1. SUBSURFACE INFILTRATION BEDS**

A subsurface infiltration beds consists of a vegetated, highly pervious soil media underlain by a uniformly graded aggregate bed for temporary storage and infiltration of stormwater runoff. It provides temporary storage and infiltration of runoff in subsurface storage media. However, in some cases, runoff may also be temporarily stored on the surface to enhance volume capacity of the system.

The primary components of a subsurface infiltration bed include:

- Uncompacted subgrade
- 12 to 36 inches clean washed uniformly graded coarse aggregate bed
- Perforated pipe along bed bottom for distribution as necessary
- Stone bed wrapped in non-woven geotextile fabric
- 12 to 18 inches of permeable soil cover on top of the stone bed
- Native grass or meadow plantings (or other dense low-growing vegetation)
- Flow entrance (e.g. inlets, swales, etc.)
- Positive overflow

Maintenance activities required for subsurface infiltration beds focus on regular sediment and debris removal. The Manual recommends the following maintenance be conducted by the BMP owner:

- All catch basins and inlets should be inspected and cleaned at least 2 times per year
- The overlying vegetation of subsurface infiltration beds should be maintained in good condition, and any bare spots revegetated as soon as possible.
- Vehicular access on subsurface infiltration beds should be prohibited, and care should be taken to avoid excessive compaction by mowers.

### **5.2. INFILTRATION BASINS**

An infiltration basin is an impoundment designed to store and infiltrate stormwater runoff.

The primary components of an infiltration basin include:

- Uncompacted subgrade
  - Soil amendments/subsurface beds
  - Underdrain in basin floor
  - Native grass, meadow, tree and/or shrub plantings
  - Flow entrance (e.g. inlets, swales, etc)
  - Forebay
  - Positive overflow through engineered outlet structure
-



- Stable outflow (e.g. rip-rap apron, etc.)
- Emergency Spillway

Maintenance activities required for infiltration basins focus on regular sediment and debris removal. The Manual recommends the following maintenance be conducted by the BMP owner:

- Catch basins and inlets (upgradient of infiltration basin) should be inspected and cleaned at least two (2) times per year and after runoff events.
- The vegetation along the surface of the Infiltration basin should be maintained in good condition, and any bare spots revegetated as soon as possible.
- Vehicles should not be parked or driven on an Infiltration Basin, and care should be taken to avoid excessive compaction by mowers.
- Inspect the basin after runoff events and make sure that runoff drains down within 72 hours.
- Inspect for accumulation of sediment, damage to outlet control structures, erosion control measures, signs of water contamination/spills, and slope stability in the berms.
- Mow only as appropriate for vegetative cover species.
- Accumulated sediment should be removed from the basin as required. The original cross section and infiltration rate should be restored. The sediment removed should be disposed of properly.

### 5.3. DRY EXTENDED DETENTION BASIN

A dry extended detention basin is a surface stormwater structure which provide for the temporary storage of stormwater runoff to prevent downstream flooding impacts. Water quality benefits may be achieved with extended detention of the runoff volume from the design storm.

The primary components of a wet pond/retention basin include:

- One (1) or more forebays
- Inflow (e.g. pipe, swale, overland flow, etc.)
- Vegetated bottom
- Engineered outlet structure
- Micropool/aquatic bench surrounding outlet structure
- Stable outflow (e.g. rip-rap apron, etc.)
- Emergency spillway

The Manual recommends the following maintenance be conducted by the BMP owner:

- Maintenance should take place on a quarterly basis.
- Owners should inspect all structures for clogging and excessive debris and sediment accumulation at least four (4) times per year, as well as after every storm greater than one (1) inch.
- Structures include basin bottoms, trash racks, outlets structures, riprap or gabion structures, and inlets.



- Sediment removal should be conducted when the basin is completely dry. Sediment should be disposed of properly. Disturbed areas should be immediately stabilized and revegetated.
- Mowing and/or trimming of vegetation should be performed as necessary to sustain the system, but all detritus should be removed from the basin.
- Owners should inspection vegetated areas should be inspected annually for erosion and invasive species.
- Vegetative cover should be maintained at a minimum of 95 percent. If vegetative cover has been reduced by 10 percent, vegetation should be reestablished.

#### **5.4. DRY WELL/SEEPAGE PIT**

A dry well/seepage pit is a subsurface storage facility that temporarily stores and infiltrates runoff from the roofs of structures directly connected by roof leaders. The dry well may be either an excavated pit filled with uniformly graded aggregate wrapped in geotextile or a prefabricated storage chamber or pipe segment.

The primary components of an infiltration basin include:

- Uncompacted subgrade
- Stone bed wrapped in non-woven geotextile fabric
- Observation well
- Positive overflow

The Manual recommends the following maintenance be conducted by the BMP owner:

- Owner should inspect dry wells at least four (4) times a year, as well as after every storm exceeding one (1) inch.
- Accumulated sediment should be removed and disposed of properly.
- The owner should evaluate the drain-down time to ensure the maximum time of 72 hours is not being exceeded. If drain-down times are exceeding the maximum, drain the Dry Well via pumping and clean out perforated piping, if included. If slow drainage persists, the system may need replacing.
- Regularly clean out gutters and ensure proper connections to facilitate the effectiveness of the dry well.
- Replace filter screen that intercepts roof runoff as necessary.
- If an intermediate sump box exists, it should be cleaned out at least one (1) time per year.

#### **5.5. WET POND/RETENTION BASIN**

A wet pond/detention basin is a stormwater basin that includes a substantial permanent pool for water quality treatment and additional capacity above the permanent pool for temporary runoff storage. While they do not achieve significant groundwater recharge or volume reduction, they can be effective for pollutant removal and peak rate mitigation. Wet Ponds can also provide aesthetic and wildlife benefits.

The primary components of a wet pond/detention basin include:

- One or more forebays that trap coarse sediment, prevent short-circuiting, and facilitate maintenance.
- The pond perimeter should generally be covered by a dense stand of emergent wetland vegetation.



- An adequate source of inflow to maintain the permanent water surface.
- Natural high groundwater table
- Relatively impermeable soils
- Dewatering mechanism

The Manual recommends the following maintenance be conducted by the BMP owner:

- Wet Ponds should have a maintenance plan and privately-owned facilities should have an easement, deed restriction, or other legal measure to prevent neglect or removal.
- During the first growing season or until established, vegetation should be inspected every 2 to 3 weeks.
- Wet Ponds should be inspected at least 4 times per year and after major storms (greater than 2 inches in 24 hours) or rapid ice breakup.
- Inspections should access the vegetation, erosion, flow channelization, bank stability, inlet/outlet conditions, embankment, and sediment/debris accumulation.
- The pond drain should also be inspected and tested 4 times per year. Problems should be corrected as soon as possible.
- Wet Pond and buffer vegetation may need support (watering, weeding, mulching, replanting, etc.) during the first 3 years. Undesirable species should be carefully removed and desirable replacements planted if necessary.
- Once established, properly designed and installed Wet Ponds should require little maintenance.
- Vegetation should maintain at least an 85 percent cover of the emergent vegetation zone and buffer area.
- Annual harvesting of vegetation may increase the nutrient removal of Wet Ponds; if performed, it should generally be done in the summer so that there is adequate regrowth before winter. Care should be taken to minimize disturbance, especially of bottom sediments, during harvesting. The potential disturbance from harvesting may outweigh its benefits unless the Wet Ponds receives a particularly high nutrient load or discharges to a nutrient sensitive waterbody.
- Sediment should be removed from the forebay before it occupies 50 percent of the forebay, typically every 5 to 10 years.

## 5.6. LEVEL SPREADERS

Level spreaders are BMPs that reduce the erosive energy of concentrated flows by distributing runoff as sheet flow to stabilized vegetated surfaces. Level spreaders can be located at any point source discharge, but are typically utilized in conjunction with basin outflows. Examples include concrete sills, curbs, earthen berms, and level perforated pipes.

The Manual recommends the following maintenance be conducted by the BMP owner:

- Catch basins and inlets draining to a level spreader should be inspected and cleaned annually.
- The owner should inspect the area below a level spreader for clogging, density of vegetation, damage by foot or vehicular traffic, excessive accumulations, and channelization.



- Inspections should be made on a quarterly basis for the first two (2) years following installation, and then on a semiannual basis and after every storm event greater than one (1) inch, thereafter.
- Sediment and debris should be routinely removed (but never less than semiannually), or upon observation, when buildup occurs in the clean-outs. Re-grading and re-stabilizing may be necessary in the areas below the level spreader. Re-grading may also be required when pools of standing water are observed along the slope. (In no case should standing water be allowed for longer than 72 hours).
- Biweekly inspections are recommended for at least the first growing season, or until the vegetation is permanently established. Once the vegetation is established, the owner should conduct inspections of health, diversity, and density at least two (2) times per year, during both the growing and non-growing season. Vegetative cover should be sustained at 85% and replaced if damage greater than 50% is observed. Unwanted or invasive growth should be removed on an annual basis.

## **6. OTHER POSTCONSTRUCTION RESPONSIBILITIES**

Other responsibilities of the owner include recording the approved Operations and Maintenance Plan (Chapter 26, Part 1, §136). The owner of any land containing a permanent stormwater management facility, must record the following documents in the Office of the Recorder of Deeds for Montgomery County, within 15 days of approval of the Operations and Maintenance Plan by the Township:

- A. The Operations and Maintenance Plan
- B. Operations and maintenance agreements
- C. Easements under

The Operations and Maintenance Plan, operations and maintenance agreements, and easements are recorded as part of the property deed and therefore are applicable to all future property owners.

## **7. PROHIBITIONS**

The West Norriton Township Stormwater Management Ordinance provides for restrictions on discharges, connections, and roof drains into the storm sewer system and restrictions on the alteration of BMPs.

The ordinance (Chapter 26, Part 1, §161) prohibits discharges into the storm sewer system which are not composed entirely of stormwater, except the following which may be allowed if the Township finds that the discharge does not significantly contribute to pollution of surface waters:

- a) Discharges from firefighting activities.
- b) Uncontaminated water from foundation or from footing drains.
- c) Potable water sources including dechlorinated water line and fire hydrant flushings.



- d) Flows from riparian habitats and wetlands.
- e) Lawn watering.
- f) Irrigation drainage.
- g) 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.
- h) Routine external building wash-down, which does not use detergents or other compounds.
- i) Air conditioning condensate.
- j) Water from individual residential car washing.
- k) Dechlorinated swimming pool discharges.
- l) Springs.
- m) Uncontaminated groundwater.
- n) Water from crawl space pumps.

The ordinance (Chapter 26, Part 1, §162) also prohibits the following connections (except as provided in §161) to the storm sewer system:

- a) Any drain or conveyance, whether on the surface or subsurface, which allows any non-stormwater discharge including sewage, process wastewater, and wash water, to enter the Township's separate storm sewer system, and any connections to the storm drain system from indoor drains and sinks.
- b) Any drain or conveyance connected from a commercial or industrial land use to the Township's separate storm sewer system, which has not been documented in plans, maps or equivalent records and approved by the Township.

The ordinance (Chapter 26, Part 1, §163) lists the following restrictions on roof drains:

- a) Roof drains shall not be connected to streets, sanitary or storm sewers or roadside ditches, except as provided below.
- b) When it is more advantageous to connect directly to streets or storm sewers, the connection of roof drains to streets or roadside ditches may be permitted by the Township.
- c) Roof drains shall discharge to infiltration areas or vegetative stormwater management facilities to the maximum extent practicable.

The alteration of BMPs is prohibited in the ordinance (Chapter 26, Part 1, §164) as follows:

- a) No person shall modify, remove, fill, landscape or alter any existing stormwater management facility, unless it is part of an approved maintenance program, without the written approval of the Township.
- b) No person shall place any structure, fill, landscaping or vegetation into a stormwater management facility or within a drainage easement, which would limit or alter the functioning of the BMP stormwater management facility, without the written approval of the Township.



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## COMPLIANCE PROCESS

If deficiencies are noted during the municipal inspection process that require addressing, the BMP owner should be notified. Because there are varying severity of deficiencies, there are different kinds of actions that may have to be taken, including:

- Voluntary compliance;
- Enforcement (Violations and Penalties)

Typically, the process of obtaining compliance should be pursued in a graduated manner. The Township should begin with efforts to obtain voluntary compliance and escalate to increasingly severe enforcement actions if compliance is not obtained. However, depending on the severity of the violation and/or if the violation is ongoing, the enforcement action should be more stringent.

Specific guidance for eliminating an illicit discharge is provided below.

### 7.1. VOLUNTARY COMPLIANCE

In some cases, the responsible party or owner may be unaware of the violation. When appropriate, the Township should first seek voluntary compliance by providing the responsible party with following information:

- Inform the owner of the presence of the connection or other violation;
- Environmental consequences of their illicit discharge;
- Applicable regulations; and
- How to remedy it and a timeframe to complete the activity.

### 7.2. ENFORCEMENT

In the event that voluntary compliance cannot be secured, the Township may pursue enforcement action. The West Norriton Township Stormwater Management Ordinance (Chapter 26, Part 1, §171) provides for the following for enforcement and penalties:

1. The violation of any provision of the ordinance will be deemed a public nuisance.
2. Each day that a violation continues shall constitute a separate violation.
3. Whenever the Township finds that a person has violated a prohibition or failed to meet any provisions of the ordinance, the Township may order compliance by written notice to the responsible person.

Such notice may require without limitation any or all of the following:

- a. The performance of monitoring, analyses and reporting.
  - b. The elimination of prohibited connections or discharges.
  - c. Cessation of any violating discharges, practices or operations.
  - d. The abatement or remediation of polluted stormwater discharge or contamination hazards and the restoration of any affected property.
  - e. Payment of a fine to cover administrative and remediation costs.
-



- f. The implementation of stormwater BMPs.
    - g. Operation and maintenance of stormwater BMPs.
4. Written notification shall set forth the nature of the violation(s) and establish a time limit for correction of the identified violations(s). Said notice may further advise that, if applicable, should the violator fail to take the required action within the established deadline, the Township will do the work or designee and the expense thereof shall be charged to the violator.
5. Failure to comply within the time specified in the written notice shall also subject such person to the penalty provisions of the ordinance. All such penalties shall be deemed cumulative and shall not prevent the Township from pursuing any and all other remedies available in law or equity.
6. Any building, grading or other permit or approval issued by the Township may be suspended or revoked by the Township for:
  - a. Noncompliance with or failure to implement any provision of the permits covered by the ordinance.
  - b. A violation of any provision of the ordinance.
  - c. The creation of any condition or the commission of any act during construction or development which constitutes or creates a hazard or nuisance, pollution or which endangers the life or property of others.
7. A suspended permit shall be reinstated by the Township when:
  - a. The Township Engineer or designee has inspected and approved the corrections to the stormwater BMPs or the elimination of the hazard or nuisance.
  - b. The Township is satisfied that the violation of the ordinance, law or rule and regulation has been corrected.
8. A permit, which has been revoked by the Township, cannot be reinstated. The applicant may apply for a new permit under the procedures outlined in the ordinance.
9. Any person violating any of the provisions of the ordinance shall, upon conviction, be sentenced to pay a fine not to exceed the maximum fine of \$1,000, plus costs of prosecution, and, in default of payment of such costs and prosecution, imprisonment for a term not exceeding 30 days; provided, however, that if the district justice determines that the defendant is without the financial means to pay the fines and costs immediately or in a single remittance, such defendant shall be permitted to pay the fines or costs in installments and over such period so or time as the district justice deems to be just.
10. In addition, the Township, through its Solicitor, may institute injunctive, mandamus or any other appropriate action or proceeding at law or in equity for the enforcement of the ordinance. Any court of competent jurisdiction shall have the right to issue restraining orders, temporary or permanent injunctions, mandamus or other appropriate forms of remedy or relief.

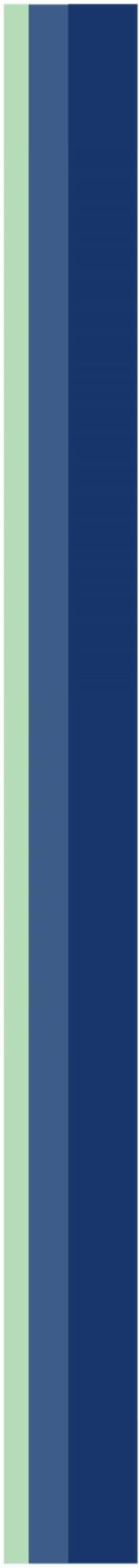


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### 7.3. COUNTY, STATE, OR FEDERAL AUTHORITIES

In certain cases, it may also be possible, helpful, or necessary to seek additional enforcement action from state or federal authorities. Depending on the nature of the violation, the jurisdictional agencies may include one or more of the following:

- Montgomery County Conservation District (MCCD)
- Pennsylvania Department of Environmental Protection (DEP)
- Pennsylvania Fish and Boat Commission (PFBC)
- Environmental Protection Agency (EPA)



## **APPENDIX A**

# **PCSM BMP Operation & Maintenance Inspection Form**



**PCSM BMP Operation & Maintenance Inspection Form**

<b>BMP Name:</b>	<b>Owner:</b>
<b>Property Address:</b>	
Street:	
City:	
Zip Code:	
<b>Date BMP Installed:</b>	<b>Latitude:</b>
	<b>Longitude:</b>
<b>NPDES Permit No:</b>	<b>Structural BMP:</b> Y <input type="checkbox"/> N <input type="checkbox"/>
	<b>Non-Structural BMP:</b> Y <input type="checkbox"/> N <input type="checkbox"/>
<b>Date of Inspection:</b>	

**Inspector:**

BMP Element	Observation	Yes	No	N/A	Comments
<b>Contributing Drainage Area</b>	Excessive trash/debris				
	Exposed/bare soil				
	Evidence of accelerated erosion				
	Excessive landscape waste/yard clippings				
	OTHER:				
<b>Pretreatment: Inlets, Forebays &amp; Inflow</b>	Excessive trash/debris/sediment accumulation				
	Evidence of clogging				
	Dead vegetation, exposed/bare soil				
	Evidence of accelerated erosion				
	Evidence of ponding, noticeable odors, water stains, presence of algae or floating aquatic				
	Maintenance access to pretreatment facility in need of repair				
	Structural deterioration of inlets, outfalls or pretreatment overflow weirs into the facility				
	Gutters, downspouts and inflow devices				
<b>Berm/ Embankment</b>	Screens, first flush diverters or vents blocked				
	OTHER:				
	Overgrown/unmaintained vegetation				
	Sparse vegetative cover or exposed/bare soil				
	Woody vegetation threatening structural				
	Evidence of accelerated erosion				
<b>Outlet</b>	Cracking, bulging, sloughing or seepage				
	Evidence of animal burrows				
	OTHER:				
	Evidence of accelerated erosion				
	Excessive trash/debris/sediment accumulation				
<b>Overflows or Emergency Spillways</b>	Structural components in need of repair				
	Hydraulic control components in need of repair				
	OTHER:				
	Evidence of accelerated erosion or instability				
<b>Overflows or Emergency Spillways</b>	Excessive trash/debris/sediment accumulation				
	Exposed/bare soil				
	OTHER:				

BMP Element	Observation	Yes	No	N/A	Comments
<b>Bio-Filter Media</b>	Excessive trash/debris/sediment				
	Filter is blocked/clogged				
	Evidence of accelerated erosion				
	Exposed/bare soil				
	OTHER:				
<b>Stone bed/ underdrain</b>	Perforated pipe is not functioning as designed				
	Not dewatering per design				
	Evidence of blockage/clogging				
	Excessive trash/debris/sediment accumulation				
	OTHER:				
<b>Vegetation</b>	Vegetation is dying or dead				
	Mowing requirements not being followed/vegetation unmaintained				
	Plant composition inconsistent with approved				
	Presence of invasive species/weeds				
	Exposed/bare soil				
OTHER:					
<b>Insects &amp; Rodents</b>	Insects and rodents presence impacting functionality of BMP				
	OTHER (write-in):				
<b>Spill Prevention</b>	Hazardous/toxic substances are located or used near BMPs				
	OTHER:				
<b>Access</b>	BMP not accessible/access blocked				
	OTHER:				
<b>OVERALL</b>	Excessive trash/debris/sediment accumulation				
	Evidence of accelerated erosion				
	Evidence of oil/chemical accumulation, odor, algae or color				
	OTHER:				
<b>Additional Comments</b>					



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



**West Norriton Township**  
Montgomery County, Pennsylvania

1630 W. Marshall St.  
Jeffersonville, PA 19403

**May 2018**

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Federally Certified 8(a) EDWOSB  
State Certified DBE/WBE



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Appendix A: PCSM BMP Inventory

Appendix B: PCSM BMP Location Map

Appendix C: Inspection Forms



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## 1. INTRODUCTION

West Norriton Township has developed and is implementing a Post Construction Stormwater (PCSM) Best Management Practice (BMP) Inspection Program as part of the Township's Stormwater Management Program. The PCSM BMP Inspection Program ensures that all PCSM BMPs installed since March 10, 2003 are properly operated and maintained.

The PCSM BMP Inspection program is designed to comply with West Norriton Township's 2018 National Pollution Discharge Elimination System – Municipal Separate Storm Sewer System (NPDES-MS4) General Permit No. PAG130006 issued by the Pennsylvania Department of Environmental Protection (DEP) (3800-PM-BCW0100). 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.

## 2. TOWNSHIP INSPECTION PROTOCOL

As part of this program, the Township has developed a BMP inspection protocol that follows the *Post Construction Stormwater BMP Operation & Maintenance Inspection Manual*. BMP #3, under MCM #5 of the NPDES MS4 permit, states that the permittee (West Norriton Township) is responsible to “ensure adequate operation and maintenance 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.”

West Norriton Township has established an inspection frequency goal of a minimum of one (1) time per year. The annual BMP inspection of 2018, occurred on April 12<sup>th</sup> and 13<sup>th</sup>, and followed the most recent *Post Construction Stormwater BMP Operation & Maintenance Inspection Manual*, that was updated in November 2017.

### 2.1. INSPECTION PROCESS

The inspection consisted of a site visit, including a visual inspection of the BMP of features that are visible from the surface, the completion of the applicable section(s) of the PCSM BMP Inspection Form, and photographs. The approved PCSM BMP Plans and/or As-Built Plans were referenced during the site visit to ensure the BMPs are functioning as designed. Any deficiencies were noted and appropriate corrective action recommended.

The PCSM BMP Inspection Form is all-encompassing and was utilized for the inspection of any type of BMP (both structural and non-structural). During the inspections, the inspector looked for inconsistencies with the approved plan, accelerated erosion, excess sediment and/or debris accumulation, structural integrity, and unstabilized areas.



### 3. PCSM BMPs INSPECTED

The PCSM BMP Inventory as well as the PCSM BMP Location Map for West Norriton Township is included in Appendix A and Appendix B, respectively. The BMP inventory includes all PCSM BMPs That have been approved after March 10, 2003, and that have been installed at development or redevelopment projects that disturb greater than or equal to one (1) acre, including projects less than one (1) acre that are part of a larger common plan of development or sale. These BMPs were inspected per the approved PCSM plans, manufacturer specifications and Pennsylvania Stormwater BMP Manual considerations.

### 4. SUMMARY OF INSPECTION RESULTS AND RECOMMENDED ACTIONS

The BMP inspections conducted on April 12<sup>th</sup> and April 13<sup>th</sup>, 2018, revealed that the following BMPs require additional attention from the entities responsible for the BMP maintenance. Below are the inspection results as well as the recommended remedial actions. Note, if a specific BMP is not listed below, it was determined that no further action is required at this time. The completed Inspection Forms have been included in Appendix C.

**Table 1.0 - BMP Inspection Results**

BMP ID	BMP Name	Location Address	Operation and Maintenance Responsibility	Inspection Results	Recommended Action
2	Detention Basin	Wagon Wheel Rd	West Norriton Township	<ul style="list-style-type: none"> <li>Evidence of accelerated erosion observed at inflows.</li> <li>One inlet structure observed to be buried with stone.</li> <li>Exposed/bare soil observed at inflows and bottom of basin.</li> <li>Evidence of algae growth and ponding observed at bottom of basin.</li> </ul>	<ul style="list-style-type: none"> <li>The Township should address BMP features in need of attention to ensure proper operation of BMP.</li> <li>Revegetate bare areas.</li> </ul>
3A	Detention Basin	2501 Stinson Ln	The Church of Jesus Christ of Latter-Day Saint	<ul style="list-style-type: none"> <li>Excessive leaf litter and sediment accumulation observed in inlet.</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to remove leaf litter and sediment from inlet.</li> </ul>
4A3	Rain Garden	1911 W. Marshall St	Jubilee Presbyterian Church	<ul style="list-style-type: none"> <li>Rain garden could not be located per Post Construction Storm Water Management Plan – Preliminary/Final Land Development Plan dated 8/22/08, and last revised 6/3/2010. BMP does not exist.</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting an explanation to why this Rain Garden was not constructed per plan.</li> </ul>
4B1	Infiltration Trench	1911 W. Marshall St	Jubilee Presbyterian Church	<ul style="list-style-type: none"> <li>Excessive leaf litter accumulation observed in inlet.</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to remove leaf litter from inlet.</li> </ul>
5	Detention Basin	196 N. Trooper Rd	Archdiocese of Philadelphia	<ul style="list-style-type: none"> <li>Excessive trash and leaf litter accumulation observed in outlet.</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner, requesting to remove leaf litter from outlet and address BMP features in need of attention to ensure proper operation of BMP.</li> </ul>
6	Detention Basin	101 Fairway Ln	Fairways Residential LP	<ul style="list-style-type: none"> <li>Excessive leaf litter accumulation observed in inlet.</li> <li>Dead vegetation and exposed/bare soil observed at bottom of basin.</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to remove leaf litter from inlets;</li> <li>and revegetate areas with dead vegetation and exposed soil.</li> </ul>



BMP ID	BMP Name	Location Address	Operation and Maintenance Responsibility	Inspection Results	Recommended Action
9	Detention Basin	48 S. Trooper Rd	Frank Yocum	<ul style="list-style-type: none"> <li>Excessive debris accumulation observed around inlet</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to the owner requesting to remove debris from inlet</li> </ul>
10	Detention Basin	1525 W Marshall St	West Norriton School Authority	<ul style="list-style-type: none"> <li>Leaf litter accumulation observed around inlet.</li> <li>Evidence of accelerated erosion and bare soil observed at inlet.</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to remove accumulated leaf litter from inlet;</li> <li>Revegetate the bare soil around inlet to reduce erosion.</li> </ul>
11B1	Bioretention	900 S. Trooper Rd	St Sophia Greek Orthodox Church	<ul style="list-style-type: none"> <li>Excessive debris accumulation observed at inlet.</li> <li>Excessive vegetation growth observed in front of inlet.</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to remove debris and vegetation from inlet.</li> </ul>
11B2	Bioretention	900 S. Trooper Rd	St Sophia Greek Orthodox Church	<ul style="list-style-type: none"> <li>Excessive debris accumulation observed at inlet.</li> <li>Excessive vegetation growth observed in front of inlet.</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to remove debris and vegetation from inlet.</li> </ul>
12	Constructed wetland basin	1900 Eagle Dr	Norristown Area School District	<ul style="list-style-type: none"> <li>Evidence of ponding observed at inlet.</li> <li>Algae growth present in wetland</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to address the ponding at inlet and the algae growth in the wetland.</li> </ul>
13	Infiltration Trench	2575 Industry Ln	Ray Gross	<ul style="list-style-type: none"> <li>Evidence of clogging observed at inlet, ponding water and algae growth present.</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to remove algae from inlet and address the clog.</li> </ul>
14	Detention basin	2544 W. Main St	Wawa Inc.	<ul style="list-style-type: none"> <li>Evidence of ponding observed at inlet</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to address ponding at inlet.</li> </ul>
15	Seepage bed	519 Port Indian Rd	George Chad Springer	<ul style="list-style-type: none"> <li>Downspouts were not connected to BMP at time of inspection.</li> <li>Evidence of blockage/clogging in observed through seepage bed cleanout pipe.</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to attach their downspouts to the BMP;</li> <li>and address the blockage observed in the cleanout.</li> </ul>
16	Underground stone infiltration pit	139 Clemens Cir	Jaylene Penrod	<ul style="list-style-type: none"> <li>Could not remove the underground stone infiltration pit cleanout cap at time of inspection.</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to inspect the Underground stone infiltration pit cleanout and ensure it is operating per plan.</li> </ul>
20	Detention basin	Brandon Rd	VRJ Associates	<ul style="list-style-type: none"> <li>Evidence of accelerated erosion at inlet, embankment and outlet.</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to address the erosion issue and stabilize the affected areas.</li> </ul>
21	Detention basin	1001 Sterigere St	Commonwealth of Pennsylvania	<ul style="list-style-type: none"> <li>Excessive vegetation growth observed around inlet</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to remove excessive vegetation around inlet.</li> </ul>
22	Seepage bed	51 S. Montgomery Ave	Cook Matthew and Eileen	<ul style="list-style-type: none"> <li>Could not remove the seepage bed cleanout cap at time of inspection</li> </ul>	<ul style="list-style-type: none"> <li>A letter should be sent to owner requesting to inspect the seepage bed cleanout and ensure it is operating per plan.</li> </ul>



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## 5. BMP INSPECTION CONCLUSIONS

Thirty-two (32) PCSM BMPs were inspected on April 12 and 13, 2018. Of these BMPs, eighteen (18) BMPs were noted to have items that need to be addressed. Of the eighteen (18) BMPs in need of corrective measures, one (1) was located on Township-owned property and sixteen (17) were located on property owned by fifteen (15) individual property owners.

Letters should be sent to BMP owners addressing the corrective measures necessary for proper operation and maintenance of the BMP located on their property. In addition, the Township should address the Township-owned BMP in need of corrective measures to ensure proper operation.



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## Appendix A: PCSM BMP Inventory





## BMP INVENTORY

BMP ID	BMP Name	Site	# of BMPs	Site Address	Owner
1	Underground Detention Facility	West Norriton Self Storage	1	2112 W. Main Street	Public Storage, Inc.
2	Detention Basin	Oakland Farms	1	239 Egypt Road	West Norriton Twp
3A	Detention Basin	The Church of Jesus Christ of Latter-Day Saint	1	2530 Stinson Lane	The Church of Jesus Christ of Latter-Day Saint
3B	Snout	The Church of Jesus Christ of Latter-Day Saint	1	2530 Stinson Lane	The Church of Jesus Christ of Latter-Day Saint
4A	Rain Garden	Jubilee Presbyterian Church	3	1911 W. Marshall Street	Jubilee Presbyterian Church
4B	Infiltration Trench	Jubilee Presbyterian Church	2	1911 W. Marshall Street	Jubilee Presbyterian Church
4C	Porous Paving	Jubilee Presbyterian Church	1	1911 W. Marshall Street	Jubilee Presbyterian Church
5	Detention Basin	Visitation BVM Parish	1	196 N. Trooper Road	Archdiocese of Philadelphia
6	Detention Basin	Fairways at Green Meadows	1	101 Fairway Lane	Fairways Residential LP
7	Detention Basin	Mobile Lifts Inc.	1	2 Liberty Avenue	Jean Holt
8	Underground Basin	Mikelen, LLC	1	431 Burnside Avenue	Roderick Williams
9	Detention Basin	Yocum Roofing	1	48 S. Trooper Rd	Frank Yocum
10	Detention Basin	Marshall Street Elementary School	1	525 W Marshall St	West Norriton School Authority
11A	Detention Basin	St. Sophia's Church	1	900 S Trooper Rd	St Sophia Greek Orthodox Church
11B	Bioretention	St. Sophia's Church	2	900 S Trooper Rd	St Sophia Greek Orthodox Church
12	Constructed Wetland Basin	Norristown High School	1	1900 Eagle Dr	Norristown Area School District
13	Infiltration Trench	Transply Inc.	1	2575 Industry Ln	Ray Gross
14	Detention Basin	Wawa	1	2544 W. Main St	Wawa Inc.
15	Seepage Bed	Durante Tract	1	519 Port Indian Rd	George Chad Springer
16	Underground Stone Infiltration Pit	Chestnut Woods- Lot 1	1	139 Clemens Circle	Jaylene Penrod
17	Underground Stone Infiltration Pit	Chestnut Woods- Lot 2	1	137 Clemens Circle	Joseph Logue
18	Underground Stone Infiltration Pit	Chestnut Woods- Lot 3	1	135 Clemens Circle	Mary Howard
19	Seepage Bed	455 Burnside Avenue	1	455 Burnside Avenue	Couchara John and Karen
20	Detention Basin	The Greens at Westover	1	Brandon Rd	VRJ Associates
21	Detention Basin	State Police Dispatch Center	1	1001 Sterigere St.	Commonwealth of Pennsylvania
22	Seepage Bed	Cooke Subdivision	1	51 S. Montgomery Ave	Cook Matthew and Eileen
23A	Underground Detention Facility	Valley Forge Marketplace	1	416 & 432 Egypt Road	DeVal Properties Associates
23B	Seepage Bed	Valley Forge Marketplace	1	416 & 432 Egypt Road	DeVal Properties Associates



## Appendix B: PCSM BMP Location Map



**BMP MAP KEY**

BMP #	PROJECT NAME	BMP TYPE	RESPONSIBLE PARTY
1	West Norriton Self Storage	Underground Detention Facility	Public Storage, Inc.
2	Oakland Farms	Detention Basin	West Norriton Twp
3A	The Church of Jesus Christ of Latter-Day Saint	Detention Basin	Church of Jesus Christ of Latter-Day Saints
3B	The Church of Jesus Christ of Latter-Day Saint	Snout	Church of Jesus Christ of Latter-Day Saints
4A1	Jubilee Presbyterian Church	Rain Garden	Jubilee Presbyterian Church
4A2	Jubilee Presbyterian Church	Rain Garden	Jubilee Presbyterian Church
4A3	Jubilee Presbyterian Church	Rain Garden	Jubilee Presbyterian Church
4B1	Jubilee Presbyterian Church	Infiltration Trench	Jubilee Presbyterian Church
4B2	Jubilee Presbyterian Church	Infiltration Trench	Jubilee Presbyterian Church
4C	Jubilee Presbyterian Church	Porous Paving	Jubilee Presbyterian Church
5	Visitation BVM Parish	Detention Basin	Archdiocese of Philadelphia
6	Fairways at Green Meadows	Detention Basin	Fairways Residential LP
7	Mobile Lifts Inc.	Detention Basin	Jean Holt
8	Mikelen, LLC	Underground Basin	Roderick Williams
9	Yocum Roofing	Detention Basin	Frank Yocum
10	Marshall Street Elementary School	Detention Basin	West Norriton School Authority
11A	St. Sophia's Church	Detention Basin	St Sophia Greek Orthodox Church
11B1	St. Sophia's Church	Bioretention Area	St Sophia Greek Orthodox Church
11B2	St. Sophia's Church	Bioretention Area	St Sophia Greek Orthodox Church
12	Norristown High School	Constructed Wetland Basin	Norristown Area School District
13	Transply Inc.	Infiltration Trench	Ray Gross
14	Wawa	Detention Basin	Wawa Inc.
15	Durante Property	Seepage Bed	George Chad Springer
17	Chestnut Woods- Lot 2	Underground Stone Infiltration Pit	Joseph Logue
16	Chestnut Woods- Lot 1	Underground Stone Infiltration Pit	Jaylene Penrod
18	Chestnut Woods- Lot 3	Underground Stone Infiltration Pit	Mary Howard
19	455 Burnside Avenue	Seepage Bed	Couchara John and Karen
20	The Greens at Westover	Detention Basin	VRJ Associates
21	State Police Dispatch Center	Detention Basin	Commonwealth of Pennsylvania
22	Cook Subdivision	Seepage Bed	Cook Matthew and Eileen
23A	Valley Forge Marketplace	Underground Detention Facility	DeVal Properties Associates
23B	Valley Forge Marketplace	Seepage Bed	DeVal Properties Associates

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.

DRAWN BY: MS

DATE: 05/21/2018

1 inch = 1,700 feet



**WEST NORRITON TOWNSHIP  
POST CONSTRUCTION STORMWATER MANAGEMENT  
BEST MANAGEMENT PRACTICES  
LOCATION MAP**

MONTGOMERY COUNTY, PENNSYLVANIA

**Legend**

- PCSM BMPs
- Non-Impaired Streams
- Impaired Streams
- Located Tributaries
- Township Roads
- State Roads
- Parcels
- Township Boundary



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## Appendix C: Inspection Forms

(Available upon request)

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# **APPENDIX E**

## **MCM #6**

### **Pollution Prevention / Good Housekeeping**



**STORMWATER MANAGEMENT PROGRAM**

**OPERATIONS & MAINTENANCE**

**FOR**

**MUNICIPAL OPERATIONS & FACILITIES**



**West Norriton Township**  
Montgomery County, Pennsylvania

1630 W. Marshall St.  
Jeffersonville, PA 19403

*Updated: November 2017*



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### APPENDICES:

- A. Municipal Facility Operations and Maintenance Form
- B. Materials Inventory Log
- C. Hazardous Spill Clean-up Sheet
- D. Storm Sewer System Operation and Maintenance Form
- E. Municipal Facilities Map



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## 1. INTRODUCTION

West Norriton Township has developed an Operations & Maintenance (O&M) Program as part of the Township's Stormwater Management Program.

The O&M Program was developed to provide methods of pollution prevention and good housekeeping measures for all municipal operations and facilities that may contribute to the discharge of pollutants from the Municipal Separate Storm Sewer System (MS4). The goal of the O&M Program is to prevent or reduce pollutants from municipal operations to the maximum extent practical. This O&M manual will be reviewed annually and updated as necessary. A municipal inventory will also be reviewed annually and updated as needed to reflect all municipal facilities which fall under the jurisdiction of the Township's stormwater permit. A Municipal Facility Operations and Maintenance Form is provided in Appendix A.

Specifically, the O&M Program identifies:

- Management practices, policies and procedures to reduce or prevent the discharge of pollutants to the MS4;
- Maintenance activities, schedules and inspection procedures to reduce the potential for pollutants to the MS4;
- Controls for reducing or eliminating the discharge of pollutants from municipal facilities; and
- Procedures for the proper disposal of waste.

The O&M Program is designed to comply with West Norriton Township's National Pollution Discharge Elimination System – Municipal Separate Storm Sewer System (NPDES-MS4) General Permit No. PAG130006 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. 6 – Pollution Prevention/Good Housekeeping – Best Management Practice (BMP) #2 of the NPDES-MS4 permit.

Pollution prevention and good housekeeping are the simplest and least costly methods to implement to help protect stormwater quality from municipal facilities. These are integral components to an effective stormwater management policy because it is easier to prevent pollution from entering waterways than to clean it up later.

If work on any part of the Township's stormwater system is conducted by outside contractors, they will also be required to follow the procedures outlined in this manual.

Forms for documenting and logging inspections, inventories, materials and spills are referenced throughout this program. The Township has been provided with Stormwater Management Program Binder containing the noted forms. Copies of these forms are also provided in the appendices of this program. This Stormwater Management Program Binder should be used for recording and maintaining the required records. The binder contains the following forms:

- Municipal Facility Operations and Maintenance Form (Appendix A)
- Materials Inventory Log (Appendix B)



- Hazardous Spill Clean-up Sheet (Appendix C)
- Storm Sewer System Operation and Maintenance Form (Appendix D)

## **2. GOOD HOUSEKEEPING**

Good housekeeping practices are designed to maintain a clean and orderly work environment. Often the most effective first step towards preventing pollution in the stormwater collection system simply involves using common sense to improve basic housekeeping methods. A clean and orderly work area reduces the possibility of accidental spills caused by mishandling of chemicals or equipment and should reduce safety hazards to Township personnel. In addition to maintaining an organized work-area, Township employees will:

- Maintain clean, dry floors and ground surfaces by using brooms, shovels, vacuum cleaners or cleaning machines. Sweeping shall be conducted as needed to remove dirt and other debris, as well as immediately following loading/unloading activities, when practical.
- Regularly pick up garbage and waste materials and place all trash, dirt, and other debris in the dumpster. The Township's recycling program shall be utilized to collect and properly dispose of paper, plastic, cans and bottles.

## **3. MATERIALS STORAGE & HANDLING**

### **3.1. Materials Storage Practices**

Improper storage can result in the release of materials or chemicals that can cause stormwater runoff pollution. It is important to keep storage areas clean and well organized and provide adequate aisle space to facilitate material transfer and easy access for inspections.

West Norriton Township maintains an inventory list of all hazardous materials, pesticides, petroleum products, and de-icing materials present at each vehicle storage facility on-site. A copy of the Materials Inventory Log is provided in Appendix B.

- All containers, drums, and bags shall be stored away from direct traffic routes to prevent accidental spills.
- All chemicals shall be stored in a designated cabinet to be easily located when necessary or for inspections
- When practical, chemical, fluids and supplies should be kept indoors.
- If containers containing chemicals are stored outside, they must be covered when not being used and placed on spill platforms.
- All containers shall be properly labeled or marked and kept in good condition and tightly closed when not in use.



- Perform regular inspections of all indoor and outdoor storage locations.

### **3.2. Materials Handling Practices**

Absorbent material, spill kits and drip pans must be kept near any potential spill hazard and protected from rainfall. If spills or accidents occur, contain with dikes, berms, or appropriate absorbent materials and dispose of properly after use. Spills of hazardous materials require special care and should only be attempted by trained Township or contracted personnel. Collect all waste fluids in properly labeled containers and dispose of properly. Spills should be documented on the Hazardous Spill Clean-up Sheet (Appendix C).

The Township shall purchase the necessary materials required for the proper disposal and clean-up of all petroleum/chemical products. These materials include, but are not limited to: sawdust, trash cans, liquid storage containers, etc. Each disposal receptacle shall be properly labeled. Materials used specifically for clean-up should have detailed instructions for proper clean-up procedure.

## **4. STORMWATER FACILITIES**

### **4.1. Stormwater BMPs**

West Norriton Township has developed procedures for the regular inspection of stormwater conveyance systems to reduce the amount of pollutants, trash, and debris that may enter the system. Frequent, thorough and consistent inspections are the key to the successful operation and maintenance of stormwater facilities. The type, size, and design of a stormwater facility will determine how frequently inspections are performed. Inspections will occur a minimum of one time per year.

Inspections are to be conducted by West Norriton Public Works personnel (or other Township representatives) to evaluate the performance of the stormwater facilities and to determine the potential amounts of pollutants, trash and debris entering and discharging from the stormwater collection system. These inspections should occur as part of regular job duties.

- Inspections will check for excessive silt build-up, erosion, collapsed pipes, misaligned joints and water quality concerns such as unusual algae growth, discolored water, water with a sheen, and suspect odors.
- Inspections will occur after severe weather conditions, such as heavy rains, to ensure they are working properly and are clear of debris. Inspection frequencies will depend on a variety of factors including weather conditions and type and function of the stormwater structures.
- All inspections activities, results and recommendations are to be documented in writing and kept on file with the Township. Typical records to be retained for future reference include a log of all inspections, repairs and maintenance performed at the site, copies of inspection reports, invoices for work performed, and a photograph of facilities. A Storm Sewer System Operation and Maintenance Form can be found in Appendix D.



All municipally owned stormwater facilities will be operated according to their design specifications and in a manner, that prevents or reduces adverse environmental or public health and safety impacts.

#### **4.2. Storm Drain Inlets**

West Norriton owns and maintains over 750 storm drain inlets located along roadways and in parking lots throughout the Township. To maintain the integrity of the Township's stormwater system, the West Norriton Public Works personnel will:

- Inspect all Township storm drain inlets at least annually to determine the trash and sediment load and overall condition of the structure. If the depth of deposits is greater than or equal to one-third the depth from the basin bottom, cleaning will be scheduled.
- Storm drain inlets that quickly accumulate trash and deposits will be inspected more frequently and the drainage area will also be inspected to determine possible causes.
- Inlet grates will be inspected to ensure that there is no trash blocking the inlets, especially before heavy rains are forecast.
- While inspecting storm drains inlets, Township staff will check for evidence of illegal dumping or illicit discharges. If evidence of illegal dumping or illicit discharges is found, efforts are to be made to identify the source of these discharges.
- Township personnel shall schedule cleaning of municipal storm drain inlets when inspections reveal an excessive accumulation of sediment or debris. Structural repairs to any part of storm drain inlets will be performed as needed including replacement of damaged or deficient piping.

Proper documentation of maintenance records will be recorded Storm Sewer System Operation and Maintenance Form (Appendix D).

#### **4.3. Storm Sewer Piping, Drainage Channels, and Outfalls**

The Township owns many miles of underground storm sewer piping ranging in size from 2 to 48 inches. The age of the piping ranges from 40 years old to new pipe that was recently installed. The piping is constructed of reinforced concrete pipe, corrugated metal pipe, cast iron/ductile iron pipe, PVC pipe and polyethylene pipe. To maintain the storm sewer system, Township public works personnel will:

- Inspect open conveyances annually to check for trash, debris, sediment build-up, obstructions and general water quality conditions.
- Inspect piping as needed to check for structural integrity, blockages, or any other unusual conditions such as improper cross-connections or excessive inflow/infiltration.
- Inspect stormwater outfalls during dry weather field screening once per five (5) year permit term to check for any unusual conditions such as excessive erosion or illicit discharges.



If inspections of storm sewer piping reveal structural deficiencies, cross-connections, tree roots, sediment build-up or obstructions, then the appropriate maintenance solution will be selected and implemented as soon as possible. These solutions may include excavation and repair, tree root removal, and physical cleaning. Chemical agents will not be utilized. For cleaning techniques such as jet/vactor use, rodding or bucketing, the downstream end of the pipe will be blocked off and the debris will be captured and removed from the system.

- For storm culverts, ditches and swales, maintenance of free-flowing conditions will be achieved by physical removal of any debris, sediment or overgrown vegetation.
- For storm sewer easements, the Township will remove any obstruction that is identified.
- Trash/obstructions will be removed at outfalls to maintain free flowing conditions.
- Velocity reducers will be maintained or replaced as needed.

## **5. ROADWAYS**

West Norriton Township owns and maintains approximately 38 miles of Township roadways.

- The overall condition and cleanliness of Township roads and parking lots shall constantly be inspected and evaluated during routine travels by public works personnel.
- Those areas with excessive staining, trash or sediment will be investigated and scheduled for cleaning or repairs as necessary.
- Appropriate corrective actions shall be considered for any areas exhibiting flooding or poor drainage patterns.

The following roads within the Township are State owned and maintained:

- Burnside Avenue
- West Main Street
- Marshall Street
- Whitehall Road
- Egypt Road
- Trooper Road
- Highway 202
- Highway 422

West Norriton Township is responsible for repairs and maintenance of all Township owned roadways. If road paving or repairs are performed by outside contractors, the following guidelines should be followed:

### **5.1. Roadway Paving Repair**

- Avoid paving activities during wet weather.



- Ensure that storm drain inlets and open manholes are protected during road repair work to prevent slurry mixes, dust, and debris from entering the storm sewers.
- Avoid using water to clean up. Mechanically sweep and/or vacuum dust and debris following all activities. DO NOT wash residue into the storm drain system.
- Place stockpiles away from waterways and stormwater inlets to prevent materials from being washed into streams. Cover stockpiles or contain with berms.
- Contain water and wastes generated during cleaning and flushing of spray equipment and field servicing of equipment. Use inlet protection and allow area to dry before uncovering storm drain inlets.
- Recycle used materials such as asphalt. Store these materials properly.
- Use drip pans to contain leaks from vehicles and equipment parked at the site overnight.

## **5.2. Traffic Line Painting**

- Develop paint-handling procedures for proper use, storage and disposal of paints to keep the material contained.
- Protect storm drain inlets, open manholes and roadside ditches during grinding and pressure washing activities.
- Avoid using water to clean up. Mechanically sweep and/or vacuum grindings and dust following all activities. DO NOT wash residue into the storm drain system.
- Contain water and wastes generated during cleaning and flushing of equipment and field servicing of equipment. Use inlet protection and allow area to dry before uncovering storm drain inlets.

## **5.3. Snow Removal and De-icing**

The storage and application of materials used for roadway de-icing or traction control shall be conducted in a manner that reduces the impact to the storm sewer system and the environment. West Norriton uses salt for de-icing. All road salt is stored indoors at the public works maintenance facility. All salt storage is to be protected from precipitation. The following BMPs should be implemented:

- During loading and unloading of salt, prevent and/or minimize spills by utilizing safe work practices and sound judgment.
- If any material is spilled, promptly collect it using dry cleaning methods. All collected materials shall be either reused or properly discarded.
- Minimize the tracking of materials from the storage area and the distance that road salt is transported during the loading/unloading operations.
- All operators of snow plows/salt spreaders are to be trained in the proper application rates of road salt. The salt spreaders are to be examined before operating to ensure that they are functioning properly.
- The application of road salt to roads or parking lots will be only enough to accomplish the task and will take into consideration site specific characteristics such as road width and design, traffic concentration, and proximity to surface waters.



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#### **5.4. Street Sweeping**

The streets in West Norriton are not swept on a regular schedule. Weather permitting, sweeping occurs throughout the Township. Once all streets have been cleaned, the sweeper starts over again. Any materials recovered will be handled and disposed of in accordance with all applicable state and federal disposal regulations. Recovered materials are currently being sent to the Waste Management landfill in Norristown.

### **6. LEAF COLLECTION**

The Township currently collects leaves from municipal facilities via leaf vacuums and transports them to Norristown Farm Park. These leaves are composted then distributed on the farm fields supplement farming operations. The final composted product is also available for pickup by residents of the township. The farming operation is operated by Montgomery County on grounds owned by the State.

As mandated by Act 101, the Township developed a comprehensive leaf collection recycling program. On average, the Township collects an approximate average of 4,500 cubic yards of leaves from the middle of October to the 2<sup>nd</sup> week of December each year. The leaves are composted using a compost turner.

### **7. DISPOSAL OF DEBRIS**

Any materials recovered from any part of the storm sewer collection system will be handled and disposed of in accordance with all applicable state and federal disposal regulations. Recovered materials are currently sent to the Waste Management landfill in Norristown. All recovered materials, especially those from storm drain inlets, piping, or basins, will be evaluated to determine if it is municipal, residual or hazardous waste.

### **8. FERTILIZERS, HERBICIDES & PESTICIDES**

Herbicide or pesticide use is only applied and stored at the Jeffersonville Golf Course. Any herbicide and pesticide use on Township lands or around any part of the storm sewer collection system will be reviewed by West Norriton personnel to comply with all applicable regulations and to prevent adverse water quality impacts.

- Applications will only be conducted by Township personnel or contractors who have an appropriate applicators license from the PA Department of Agriculture.



- Fertilizers, herbicides, and pesticides shall be applied according to exact manufacture guidelines, as more is not always better in the case of chemical applications. The use of these chemicals will be limited as much as possible and non-hazardous alternatives shall be encouraged.
- Fertilizers, herbicides, and pesticides shall be stored in a covered location to avoid any chemicals from entering into the municipal separate storm system.

## 9. MUNICIPAL OWNED FACILITIES

The Township owns and maintains the nine (9) facilities listed below. The locations of these facilities are illustrated on the Municipal Facilities Location Map in Appendix E. These properties will be operated and maintained in a manner that reduces the potential for pollution to enter the municipal storm sewer system or to the environment.

- **Township Building**
  - The West Norriton Township Building is located at 1630 W. Marshall Street Jeffersonville, PA 19403.
  - The Township Building contains the Township administrative offices and police department.
- **Public Works Facility**
  - Public works facility is also located at 1630 W. Marshall Street Jeffersonville, PA 19403.
  - The public works facility contains a garage and shed for material, equipment, and vehicle storage and maintenance.
- **Jeffersonville Golf Club**
  - The golf club is located at 2400 W. Main St., Jeffersonville, PA 19403.
  - Jeffersonville Golf Club is an 18-Hole, par 70 public course, owned and operated by West Norriton Township.
  - The golf club also contains a banquet facility, pro shop, practice putting green, and restaurant/snack bar with a full-service bar.
- **Parks** - The Township owns and maintains the following six (6) parks located throughout the Township:
  - **Centennial Park**
    - The park is 13.5 acres at 2050 W Marshall St, Norristown, PA 19403
    - The park contains baseball fields (3), batting cages, softball fields (2), and a walking track.
  - **Jefferson Firehouse Recreation Site**
    - The park is 3.5 acres at 85 School Lane Jeffersonville, PA 19403.
    - The park contains basketball courts (2), pavilion, playground, and tennis courts (4).
  - **Oxford Circle Park**
    - The park is 0.25 acres located on Park Drive in Jeffersonville, PA 19403.
    - The park features a playground.
  - **Padden Park**
    - The park is 8.5 acres located at 2101 Oakland Drive Jeffersonville, PA 19403.



- The park contains a pavilion, playgrounds (2), soccer kickboard, softball field, and walking track.
- **Squire Croft Park**
  - The park is 1.0 acre located on W. James St. in Jeffersonville, PA 19403.
  - The park contains a basketball court and playground.
- **Betzwood Park**
  - The park is located on Hillside Drive in Jeffersonville, PA 19403.
  - The park contains a basketball court and playground.

## 10.MUNICIPAL VEHICLES

All Township vehicles will be operated in a manner that reduces the potential for pollution to enter the municipal storm sewer system or the environment. This includes obeying all road and traffic rules and being alert at all times.

The Township owns seven vehicles, including four dump trucks, one service body pickup truck, one backhoe and one tractor used for roadside mowing operations.

### 10.1. Maintenance

Minor vehicle maintenance is performed at the public works facility located at 1630 W. Marshall Street. Other maintenance such as oil changes, regular maintenance, inspections, etc. are performed at Black Horse Auto Body. Within the maintenance garage is a continuous floor drain that discharges to the Township's sanitary sewer system. There is a designated wash bay that should be used to clean vehicles and equipment. Vehicles, to the maximum extent possible, are stored inside the public works garage. Liquid waste is not to be poured into floor drains, sinks, outdoor storm drain inlets, or other storm drains or sewer connections.

All products such as oils, grease and lubricants will be stored indoors. All products of maintenance activities, such as greasy rags, oil filters, air filters, batteries, tires and degreasers will be placed in appropriate containers within the maintenance building. These receptacles should be in a level area away from municipal stormwater drains. The waste oil is either hauled away to Lower Providence Township for their heating unit or taken to Planet Earth for recycling and proper disposal.

Township employees will avoid hosing down work areas and will not wash areas containing spillage or contaminants with water to avoid runoff entering the floor drains within the maintenance building. Instead, dry cleanup methods will be utilized whenever possible. Suitable materials will be maintained on site for the cleanup and disposal of oils, chemicals, or other hazardous materials.



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Non-hazardous cleaners and solvents will be utilized whenever possible. Recycle antifreeze, used oil, mineral spirits and solvents when possible. Label and track the recycling of waste material. Drain oil filters before disposal or recycling. Place oil filters in a funnel over the waste oil recycling or disposal collection container to drain excess oil before disposal, then crush and recycle oil filters. Keep waste streams separate (i.e. waste oil and solvents).

The Township will regularly inspect municipal vehicles and vehicle storage facilities. Municipal vehicles will be inspected for the presence of leaks at least four times per year. These inspections will reflect the general state of each vehicle and identify if there is a problem with the vehicle that should be repaired. Vehicle storage facilities will be inspected at least twice per year, with an initial inventory at the beginning of the year. Inspections will reflect the general state of the facility and identify if there is a systemic problem with cleanliness by municipal employees.

In the event of a spill, efforts should be made to isolate the spill and ensure that it will not enter the municipal stormwater conveyance system. The recording program will aim to identify those areas that are prone to spills so the areas may be improved in the future to reduce the potential for future spills. The Hazardous Spill Clean-up Sheet (Appendix C) should be used to record any spills.

## **10.2. Fueling**

The Township maintains a 4,000-gallon aboveground fuel storage tank facility. The tank is a split tank and holds 3,000 gallons of unleaded gasoline and 1,000 gallons of diesel fuel. The steel tank was installed in 2006 and has double wall construction. The second outside wall is for containment.

This containment area has spill monitors located on the top of tank. The tank and pump is protected by steel bollards.

The facility is used by Township Road Department, Police Department, and Fire Company. No other public use is permitted.

Observe proper safety techniques and constantly monitor all fueling operations to prevent or react to spillage. Do not leave a fueling operation or a storage tank delivery unattended. Discourage “topping off” of vehicle fuel tanks through training and signage. Clearly post, in a prominent area of the facility, instructions for safe operation of fueling equipment, and appropriate contact information for the person(s) responsible for spill response.

On average, 30 vehicles are fueled on a weekly basis. The fuel delivery company is responsible to assure proper delivery procedures are followed. Any spills are to be reported to the responsible person immediately.

Any spillage from fueling activities will be controlled and cleaned up immediately. Appropriate clean up materials such as oil dry or absorbent pads will be maintained at the maintenance facility and will be used to prevent spillage



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from migrating away from the area. Small spills can be cleaned up with rags and larger spills can be cleaned with dry absorbent materials such as kitty litter, straw, or sawdust. Dispose of collected waste properly. Water will not be used to wash or cleanup fuel spillage.

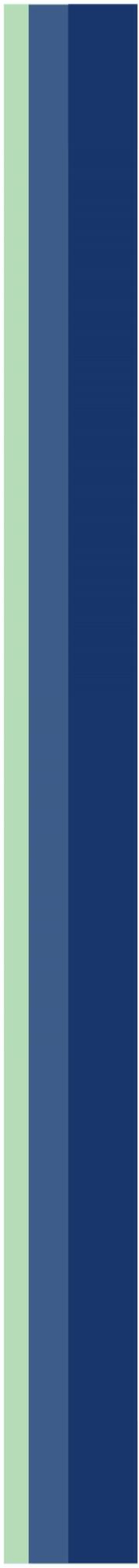
The fueling area and storage tank will be routinely monitored for general housekeeping conditions and signs of possible leakage. Any fueling equipment found to be leaking or in disrepair will be repaired or replaced as soon as possible.

### **10.3. Vehicle/Equipment Washing**

All police vehicles and administration vehicles are washed off site at a commercial car wash. The public works trucks are rinsed off on site in the Township wash bay or at Jeffersonville Golf Course. There are times when vehicles may be covered in mud, salt, snow, or grass clippings that need to be washed from the vehicle. In these instances, the vehicle should be washed on a grassed or gravel area as opposed to an impervious surface such as blacktop or concrete. All efforts should be made to avoid any water from entering the municipal stormwater system.

## **11. INSPECTION PROCEDURES AND DOCUMENTATION**

The inspection procedures and frequency described throughout each section above are specific to each municipal operation or facility. Where no inspection procedures are referenced, visual inspections of operations or facilities should be performed monthly by Township staff. All inspections and remedial actions taken should be documented using the forms provided in Appendix A through D and kept on-site. These records will be made available to DEP and/or EPA upon request.



# **APPENDIX A**

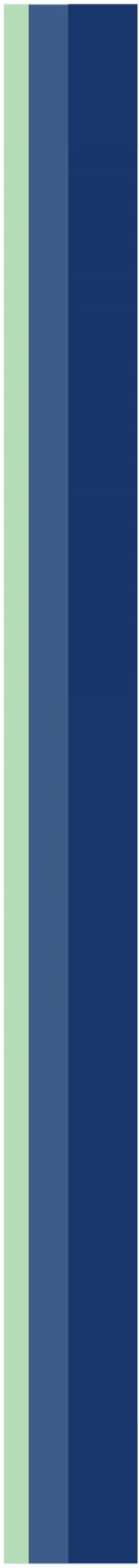
## **Municipal Facility Operations and Maintenance Form**



**Municipal Facility Operation & Maintenance Form**

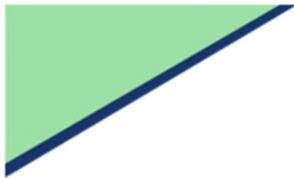
Date of Inspection:		Facility Name:				
Inspector:		Facility Location:				
Category	Components/Items to Check	Problems Observed	Maintenance/Repairs Necessary			Comments / Actions Taken
			Yes	No	N/A	
Hazardous Spill Response and Prevention	Products/waste storage areas	<input type="checkbox"/> Uncovered/deteriorating 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				
	Floor drains, storm receiver inlets and outlets	<input type="checkbox"/> Accumulation of contaminants				
Hazardous and Waste Materials Management	Outside storage areas	<input type="checkbox"/> Weathering				
	Salt piles	<input type="checkbox"/> Salt staining				
	Soil staging areas	<input type="checkbox"/> Silt runoff				
	Aboveground storage tanks	<input type="checkbox"/> Deterioration				
	Inside storage areas	<input type="checkbox"/> Potential for discharges				
Vehicle and Equipment Maintenance/Storage Area	Drums, other containers	<input type="checkbox"/> Deterioration <input type="checkbox"/> Uncovered				
	Truck/equipment	<input type="checkbox"/> Leak/spills				
	Salt/sand spreader	<input type="checkbox"/> Improper amounts of product applied				
Vehicle and Equipment Washing Area	Lawn care equipment	<input type="checkbox"/> Improper operation				
	Designated "wash only" area	<input type="checkbox"/> No impermeable pad with wastewater collection system				
	Wastewater discharge location	<input type="checkbox"/> Does not flow to either a holding tank or to sanitary sewers				
	Washing/degreasing compounds	<input type="checkbox"/> Solvent based				
	Floor drain sump	<input type="checkbox"/> Nonexistent				
	Oil/water separator	<input type="checkbox"/> Excessive oils/sludges				
Road Salt Storage and Application	Catch basin	<input type="checkbox"/> Nonexistent, accumulation of contaminants				
	Storage shed	<input type="checkbox"/> Salt outside of shed				
	Truck loading area	<input type="checkbox"/> Salt on ground				
	Roads - (sites of application)	<input type="checkbox"/> Excessive salt on ground				
Roadway and Bridge Maintenance	Salt spreader	<input type="checkbox"/> Excessive salt on ground				
	Bridge Deck (top side)	<input type="checkbox"/> Debris along curb				
	Bridge Seats at Abutment, or Top of Piers	<input type="checkbox"/> Debris on seat or top of pier				
	Washing of superstructure	<input type="checkbox"/> Debris - Salts on 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)				
Pest Control	Pesticide storage area	<input type="checkbox"/> Excessive amounts of pesticides <input type="checkbox"/> Spilled pesticides <input type="checkbox"/> Empty containers				
	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, stone				
	Milling	<input type="checkbox"/> Broken pavement (excavated 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				



## **APPENDIX B**

# **Materials Inventory Log**

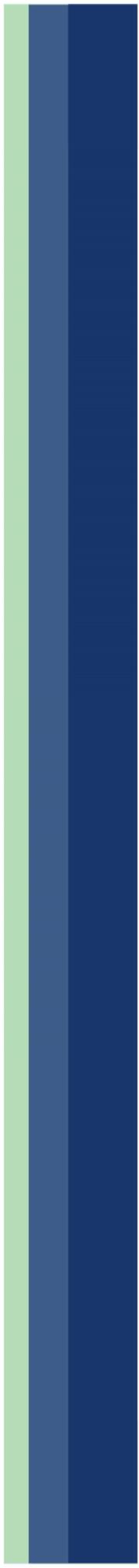


### Materials Inventory Log

Year:

Municipality:

Material	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
Salt (amount used)												
Yard Waste (amount collected)												
Street Sweeping (amount collected)												
Other: _____												
Other: _____												



## **APPENDIX C**

# **Hazardous Spill Clean-up Sheet**



## 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?**

**How long after the spill occurred did clean-up operations commence?**

**How was the spill cleaned up and how was the material disposed of?**

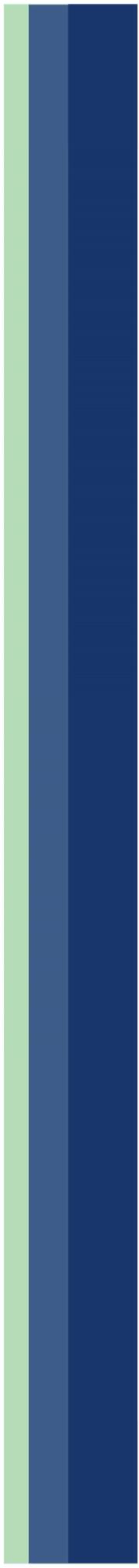
**Are there any other actions that need to be undertaken regarding this spill?**

**Additional Comments:**

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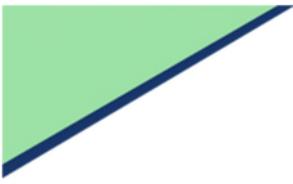
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**APPENDIX D**

**Storm Sewer System Operation  
and Maintenance Form**



### Storm Sewer System Operation & Maintenance 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					
BMPs	<input type="checkbox"/> Excessive Vegetation					
	<input type="checkbox"/> Debris (branches, litter, garbage, etc.)					
	<input type="checkbox"/> Excessive Siltation					

# **APPENDIX E**

## **Municipal Facilities Map**



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.

**WEST NORRITON TOWNSHIP  
MUNICIPAL OWNED FACILITIES  
LOCATION MAP  
WEST NORRITON TOWNSHIP  
MONTGOMERY COUNTY, PENNSYLVANIA**

Date: 10/31/2017

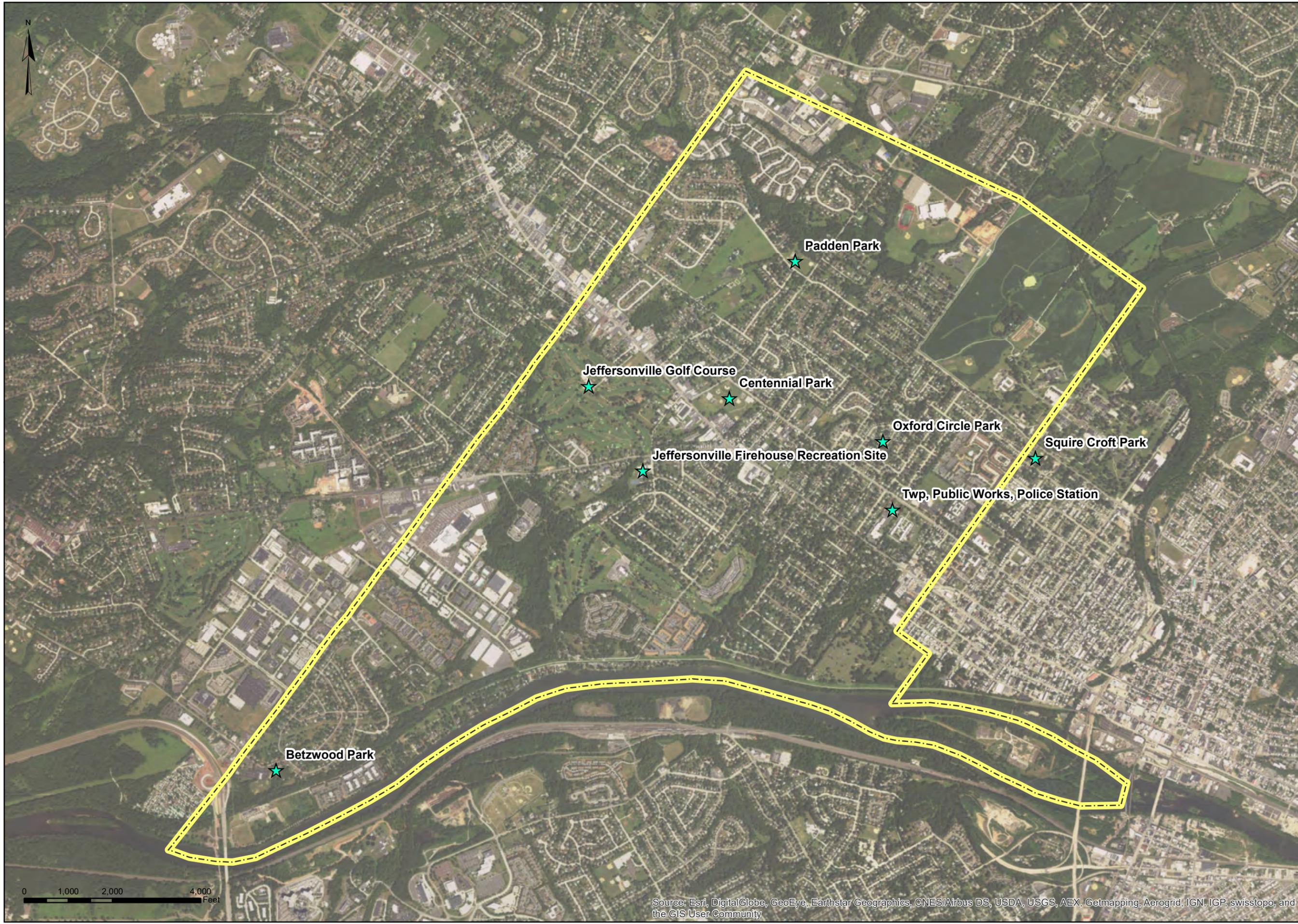
Revisions:



CEG Proj #: WNR-17-002

DRAWN BY: AR

1 inch = 2,000 feet



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community