pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

FOR THE PERIOD July 1, 2025 TO JUNE 30, 2026

GENERAL INFORMATION			
Permittee Name:	**Middlesex Township Cumberland County**	NPDES Permit No.:	PAI**133526**
Mailing Address:	**350 N Middlesex Road**	Effective Date:	**August 1, 2023**
City, State, Zip:	**Carlisle, PA 17013**	Expiration Date:	**July 31, 2028**
MS4 Contact Person:	**Zachary Zook**	Renewal Due Date:	**February 2, 2028**
Title:	**Township Manager**	Municipality:	**Middlesex Township**
Phone:	**717-249-4409**	County:	**Cumberland**
Email:	**zzook@middlesextwp.com**		
Co-Permittees (if applicable):			
Appendix(ces) that permittee is subject to (select all that apply): ☐ Appendix A ☒ Appendix B ☐ Appendix C ☐ Appendix D ☒ Appendix E ☐ Appendix F			

WATER QUALITY INFORMATION

Are there any discharges to waters within the Chesapeake Bay Watershed? ☒ Yes ☐ 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?
Conodoguinet Creek	WWF	No		Yes	No
Conodoguinet Creek Tributary (Reach 63)	CWF	No		Yes	No
Conodoguinet Creek Tributary (Reach 69)	CWF	No		Yes	No
Conodoguinet Creek Tributary (Reach 44)	CWF	No		Yes	No
Hogestown Run	CWF	Yes	Siltation; Organic Enrichment/Low D.O. Pathogens	Yes	No
Hogestown Run Tributary (Reach 99)	CWF	Yes	Siltation; Organic Enrichment/Low D.O. Pathogens	Yes	No
Letort Spring Run	HQ-CWF	No		Yes	No
Letort Spring Run Tributary (Reach 21)	HQ-CWF	No		No	No
Wertz Run	WWF	Yes	Siltation	Yes	No
Wertz Run Tributary (Reach 22)	WWF	No		Yes	No
Wertz Run Tributary (Reach 13)	WWF	No		Yes	No
Conodoguinet Creek	WWF	No		Yes	No

Also see Attachment 3c - Outfall and Receiving Stream Inventory

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	**Township Manager**	**Zachary Zook**	**(717)249-4409**
#2 Public Involvement/Participation	**Township Manager**	**Zachary Zook**	**(717)249-4409**
#3 Illicit Discharge Detection and Elimination (IDD&E)	**MS4 Coordinator**	**Gerald Steigleman**	**(717)249-4409**
#4 Construction Site Storm Water Runoff Control	**Township Zoning Officer**	**Mark Carpenter**	**(717)249-4409**
#5 Post-Construction Storm Water Management in New Development and Redevelopment	**Township Zoning Officer**	**Mark Carpenter**	**(717)249-4409**
#6 Pollution Prevention / Good Housekeeping	**Township Road Master**	**Zachary Zook**	**(717)249-4409**

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: **6/2026** Were updates made? ☒ Yes ☐ No

3. What were the plans and goals for public education and outreach for the reporting period?

The plans for this reporting period were to continue the Township's newsletter articles, add and update the Township webpage content, and provide one MS4 update public presentation at a regularly scheduled Board of Supervisors meeting.

Outreach to the community was primarily achieved through:

A. Articles and notifications in the Township's newsletter, *Middlesex Connections*. Over 3,000 copies are circulated quarterly (See Attachment 1a.)
B. Via webpage updates (See Attachment 1b.).

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:

A. Continue Newsletter articles.
B. Continue to update Township webpage content.

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: **6/2026** Were updates made? ☐ Yes ☒ No

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

1. For new permittees only, were stormwater educational and informational items produced and published in print and/or on the Internet within the first year of permit coverage?

☐ Yes ☐ No

2. Date of latest annual review of educational materials: **6/2026** Were updates made? ☒ Yes ☐ No

3. Do you have a municipal website? ☒ Yes ☐ No (URL: **https://middlesextwp.com/public-works/separate-storm-sewer-system-ms4/**)

If Yes, what MS4-related material does it contain? **Updates were made to website during the reporting period. (See Attachment 1b)**

- **Previous Annual Reports**
- **Citizen Complaint Reporting Form**
- **Grant award letter**
- **Links to various informational stormwater resources including ACT 16, DEP, EPA, Stormwater PA, Chesapeake Stormwater Network, Homeowner's guide to Stormwater Management, Be Stormwater Smart, and the Be Stormwater Smart brochure, Watershed-friendly lawn fertilization and care brochure**
- **Combined Pollutant Reduction Plan for the Chesapeake Bay Basin, Wertz Run and Hogestown Run**
- **MS4 PRP Maps**
- **Meetings and Training information**
- **Tips on stormwater management and stormwater pollution prevention**
- **Water Harvesting with Rain Barrels**

4. Describe any other method(s) used during the reporting period to provide information on stormwater to the public:
   - **The Township provided education to the public through Township newsletter articles, stormwater flyers, and Board of Supervisors meetings. (See Attachment 2a -Board of Supervisor Meetings with MS4-Stormwater Discussion.)**

5. Identify specific plans for the publication of stormwater materials for the upcoming year:
   - **The Township will continue to provide newsletter articles relating to stormwater pollution prevention. (See Attachment 1a.)**

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 will continue to offer stormwater information to the public via:**
  - **The standing MS4-Stormwater agenda item at the Board of Supervisors meetings**
  - **Updates to the webpage, and**
  - **Distribution of the "*Be a Pollution Solution: What you can do to clean stormwater*" flyer in the Township office and at public events.**

MCM #1 Comments:

Please see the following attachments that document MCM#1 activity for the reporting period:

- **1a - Middlesex Township Newsletters:**
  - **A total of 16 articles were distributed throughout the reporting period. The articles are excerpted from the Newsletters and provided in the attachment.**
- **1b - Middlesex Township Webpage Updates:**
  - **The webpage architecture was unchanged. The 2024 and 2025 MS4 Annual Report links were added. Multiple Bulk Waste Collection Days and Household Hazardous Waste Collection Days, that support pollution prevention, were publicized on the events landing page. The presentation to the Township Board of Supervisors on February 4, 2026 (Attachment 1d), and October 16, 2025, Staff Training content (Attachment 6b) was posted to the Webpage.**

- **1c – Middlesex Township Combined Public Education and Outreach Program (PEOP) and Public Involvement and Participation Program (PIPP) was updated.**
- **1d - Annual MS4 Permit Review Presentation at Board of Supervisors Meeting - 2/4/2026:**
  - **A summary of the MS4 achievements of the previous year was shared at a public meeting to inform the supervisors and their audience about the program and to field questions.**
- **1e - Municipal Separate Storm Sewer System (MS4) Stormwater Management Program (SWMP):**
  - **A summary document of Middlesex Township's MS4 stormwater management program was developed to provide an overview, goals, purpose, programs, responsible parties, participants, documentation, and metrics for MSM compliance.**

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: **6/2026** Were updates made? ☒ Yes ☐ No

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

1. Was an MS4-related ordinance, SOP, PRP or TMDL Plan developed during the reporting period? ☐ Yes ☒ No

2. If Yes, describe how you advertised the draft document(s) and how you provided opportunities for public review, input and feedback:

Not Applicable; no ordinances, SOPs, or PRPs were modified during the report period.

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

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

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: **2/4/2026 Board of Supervisors and each regularly scheduled Supervisors' meeting includes MS4/Stormwater as a standing agenda item for public comment. (See Attachments 1d and 2a.)**

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.

   Middlesex Township continues to participate in the Letort Regional Authority (LRA), an organization consisting of representatives of Cumberland County, the Borough of Carlisle, North Middleton Township, South Middleton Township, and Middlesex Township that sponsors projects to manage the health of the Letort Spring Run and to maintain it as a community resource. LRA reviews land development plans, procures land use easements and undertakes other activities to protect water quality and recreational opportunities.

   No outreach was made to other community organizations or watershed associations.

3. Report activities in which members of the public assisted or participated in the meetings and in the implementation of the SWMP, including education activities or efforts such as cleanups, monitoring, storm drain stenciling, or others.

   The public is given opportunity to provide comments, complaints, and suggestions relating to stormwater and MS4 as part of the regularly scheduled Board of Supervisors meeting. A Citizen Complaint Reporting Form is available on the MS4 webpage, and citizens are encouraged to use the form or to call the office if they see unusual colors, suds or mud in Township stormwater or if the water has an unusual odor. See Attachment 3b - Potential Illicit Discharge Investigations for summaries stemming from two complaints received during this reporting period.

MCM #2 Comments:

Please see the following attachment that documents the MCM#2 activity for the reporting period:

- **2a - Board of Supervisors Meetings with MS4-Stormwater Discussion Summary:**
  - **The summary itemizes the MS4/stormwater discussions occurring at the public Board of Supervisors meetings. Topics included updates on Pollutant Reduction Project (PRP) implementation, updates on compliance activities, and land use plan processing discussions (subdivision and land development and/or stormwater plan) that correspond/support MS4 compliance.**

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: **6/2026** Were updates made? ☒ Yes ☐ No

BMP #2: Develop and maintain map(s) that show permittee and urbanized area boundaries, the location of all outfalls and, if applicable, observation points, and the locations and names of all surface waters that receive discharges from those outfalls. Outfalls and observation points shall be numbered on the map(s).

1. Have you completed a map(s) that includes all components of BMP #2? ☒ Yes ☐ No

   If Yes and you are a new permittee and have not submitted the map(s) previously, attach the map(s) to this report.

   If No, date by which permittee expects map(s) to be completed:

2. Date of last update or revision to map(s): **1/19/2023**

3. Total No. of Outfalls in MS4: **80** Total No. of Outfalls Mapped: **80**

4. Total No. of Observation Points: **5** Total No. of Observation Points Mapped: **5**

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): **1/19/2023**

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

For new permittees, all identified outfalls (and if applicable observation points) must be screened during dry weather at least twice within the 5-year period following permit coverage. For existing permittees, all identified outfalls (and if applicable observation points) must be screen during dry weather at least once within the 5-year period following permit coverage and, for

areas where past problems have been reported or known sources of dry weather flows occur on a continual basis, outfalls must be screened annually during each year of permit coverage.

1. How many unique outfalls (and if applicable observation points) were screened during the reporting period? **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: **Middlesex Township Stormwater Ordinance (Ord. No. 6-2011)**
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.
   Ordinance was previously submitted.
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? **See MCM 6 for the Staff training logs and Staff Good Housekeeping Training.**

   One staff member participated in pesticide and pool certification training and certification. This training emphasizes safe handling and calibration of hazardous materials and helps the staff prevent pollutants in stormwater runoff, minimizing potential illicit discharges. (Attachment 6a)

   The Township staff participated in an MS4 Permit and Good Housekeeping Training (Attachment 6b) this year to ensure that staff is aware of their responsibilities in preventing potential illicit discharges during Township's operation and maintenance activities.

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:

During this reporting period the following items were completed:

- **3a - Middlesex Township Illicit Discharge Detection & Elimination Program (IDD&E) Manual Revised June 2026:**
  - **The Illicit Discharge Detection and Elimination (IDD&E) Program Manual was reviewed and revised this reporting period.**
- **3b - Potential Illicit Discharge Investigations:**
  - **A new reporting form was developed to provide consistent reporting of potential illicit discharge investigations and follow-up. (The form is also used by emergency responders when reporting incidents to insurance companies.) This reporting period there were two resident-generated complaints. One involved draining of a non-chlorinated pool water across filtering vegetation approximately 600 feet from a receiving stream. It was determined to be non-illicit. The other involved dumping of wash water that included beef fat into a stormwater inlet. The MS4 coordinator performed follow up and enforcement.**
- **3c - Outfall and Receiving Stream Inventory:**
  - **A list of Middlesex Township's outfalls and receiving streams was created. It supplements the information provided in the Water Quality Information Table at the beginning of this form.**

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) **No permits with earth disturbance > 1-acre**

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: **Middlesex Township Stormwater Ordinance (Ord. No. 6-2011)**

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. **(Submitted previously)**

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: **(N/A - Statewide Program**)

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: **(N/A - Statewide Program)**

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: **(N/A - Statewide Program**)

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:

(N/A - Statewide Program)

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: **(N/A - Statewide Program)**

MCM #4 Comments:

E&S enforcement relies on Cumberland County Conservation District and coordinates with them. The Memorandum of Understanding was submitted with the Permit application and is still valid. Therefore, no answers were provided for BMP#4 through BMP#8.

Please see the following attachments that document the MCM#4 activities for the reporting period:

- **4a - Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026:**
  - **A total of 184 building permits were issued between July 1, 2025, and June 30, 2026. None of the permits included earth disturbance greater than 1 acre. No notifications to the Cumberland County Conservation District (CCCD) were required.**
- **4b - Township Engineer's Summary of Construction Stormwater Inspections 7/1/2025 to 6/30/2026**
  - **In addition to the erosion and sedimentation (E&S) oversight provided by the CCCD, the Middlesex Township Engineer monitors construction activity related to approved land development plans to ensure that construction is following the approved plans and E&S BMPs are implemented and serviceable. The inspected sites were compliant.**

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: **2011: Middlesex Township Stormwater Ordinance (Ord. No. 6-2011)**

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. **Previously submitted.**

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: **2011: Middlesex Township Stormwater Ordinance (Ord. No. 6-2011)**

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. **Previously submitted.**

BMP #3: Ensure adequate O&M of all post-construction stormwater management BMPs that have been installed at development or redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale.

1. Do you have an inventory of all PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003? ☒ Yes ☐ No

   If Yes to #1, complete Table 1 on the next page.

2. Has proper O&M occurred during the reporting period for all PCSM BMPs? ☒ Yes ☐ No

3. If No to #2, explain what action(s) the permittee has taken or plans to take to ensure proper O&M.

If you are relying on PA's statewide program for stormwater associated with construction activities, you may skip to MCM #6, otherwise complete all questions for BMPs #4 - #6 in this section. **Middlesex Township relies on PA's statewide program.**

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. *(Skipped because Middlesex relies on PA's statewide program)*

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).

Blue text indicates that BMPs in the MS4 constructed before 2003, and the BMP's MS4 reporting is optional.

BMP No.	BMP Name	DA (ac)	Entity Responsible for O&M	Latitude	Longitude	Date Installed	O&M Requirements	NPDES Permit No.
1	Detention Basin	6.9	1000 Claremont Road, LLC; c/o Allaire Health Group	40.21299	-77.161851	1995	PA BMP Manual	
2	Detention Basin	4.6	AUM, LLC (Best Western)	40.226817	-77.148311	2005	PA BMP Manual	
3	Detention Basin	0.4	Carleez LLC & Spartan South Realty; c/o Sheetz Realty	40.23351	-77.120505	2017	PCSM Plan	PAI032116002
4	Detention Basin	2	Carleez LLC & Spartan South Realty; c/o Sheetz Realty	40.233343	-77.120654	2017	PCSM Plan	PAI032116002
5	Detention Basin	1.4	Carleez LLC & Spartan South Realty; c/o Sheetz Realty	40.232903	-77.120532	2017	PCSM Plan	PAI032116002
6	Detention Basin	0.3	Carleez LLC & Spartan South Realty; c/o Sheetz Realty	40.233243	-77.119065	2017	PCSM Plan	PAI032116002
7	Subsurface Detention Basin	0.1	Carlisle Realty Holdings, LP; c/o EG America (Jack Williams Tire & Auto)	40.221142	-77.162082	2019	PCSM Plan	
8	Detention Basin	0.9	Carlisle Realty Holdings, LP; c/o EG America (Jack Williams Tire & Auto)	40.221168	-77.16234	Pre-2003	PA BMP Manual	

9	Detention Basin	2	Cumberland County (Prison)	40.215525	-77.161492	2008	PA BMP Manual	PAI032108001
10	Detention Basin	5.8	Cumberland County (Prison)	40.214686	-77.162387	2008	PA BMP Manual	PAI032108001
11	Detention Basin	4.1	Cumberland County (Pub Safety & Aging Bldg.)	40.212257	-77.158978	2010	PA BMP Manual	PAI032108016
12	Detention Basin	0.9	Cumberland County (Pub Safety & Aging Bldg.)	40.212983	-77.160896	2010	PA BMP Manual	PAI032108016
13	Detention Basin	1.7	Cumberland County (Pub Safety & Aging Bldg.)	40.213332	-77.161186	2010	PA BMP Manual	PAI032108016
14	Detention Basin	3.8	David E. Lutz, Trustee (Sheetz 1908 H-burg Pk)	40.2222	-77.162894	2018-2019	PCSM Plan	PAI032116002
15	Detention Basin	14	DGK Real Estate, LP (Cumberland Range: non-urban)	40.260676	-77.13613	2018	PCSM Plan	
16	Detention Basin	0.3	Edward A & Yvette Piccolo (Cumberland Range: non-urban)	40.258531	-77.141595	2014	PCSM Plan	
17	Detention Basin	0.5	Edward D & Kathleen E Fitting (Raudabaugh Estates: non-urban)	40.240492	-77.14119	2011-2012	PCSM Plan	
18	Detention Basin	2.3	Evandale Christ Family (Holiday Inn Express)	40.227099	-77.152505	2008	PA BMP Manual	PAI032111008
19	Detention Basin	3	Evandale Christ Family (Rutter's Farm Store)	40.226656	-77.153447	2008	PA BMP Manual	PAI032108002

20	Detention Basin	6.8	Evandale Christ Family (Rutter's Farm Store)	40.226353	-77.153627	2008	PA BMP Manual	PAI032108002
21	Detention Basin	0.5	Gardy D Kimmel, Jr (Raudabaugh Estates: non-urban)	40.240699	-77.142061	2011-2012	PCSM Plan	
22	Detention Basin	1.3	Giant Co., LLC	40.225886	-77.150853	Pre-2003	PA BMP Manual	
23	Detention Basin	1.9	Giant Co., LLC (U-Gro)	40.226552	-77.151368	Pre-2003	PA BMP Manual	
24	Detention Basin	26.9	Giant Co., LLC	40.223475	-77.152942	Pre-2003	PA BMP Manual	
25	Detention Basin	7.8	Giant Co., LLC	40.223798	-77.151408	Pre-2003	PA BMP Manual	
26	Detention Basin	62.3	Icon Owner Pool 4 Northeast/Midwest (Crossroads Business Center: Apple)	40.227227	-77.132343	pre-2003	PA BMP Manual	
27	Infiltration Basin	47.5	Icon Owner Pool 4 Northeast/Midwest (Roadway Dr near Amazon)	40.229511	-77.111822	1994	PA BMP Manual	
28	Detention Basin	4.6	Jakub Janicki (Cumberland Range: non-urban)	40.25851	-77.141292	2014	PCSM Plan	
29	Detention Basin	4	John A and Lisa Conway (Appalachian Estates)	40.199359	-77.121655	2008	PA BMP Manual	
30	Detention Basin	1.1	Keystone Arms Phase LLC; c/o Boyd Wilson LLC	40.21635	-77.169427	2007	PA BMP Manual	PAD210054

31	Detention Basin	24.1	Keystone Arms Phase Two LP; c/o Boyd Wilson LLC	40.218405	-77.162303	2007	PA BMP Manual	PAD210054
32	Detention Basin	3.5	Keystone Arms Phase Two LP; c/o Boyd Wilson LLC	40.21514	-77.166992	2007	PA BMP Manual	PAD210054
33	Detention Basin	0.9	Keystone Arms Phase Two LP; c/o Boyd Wilson LLC	40.215561	-77.166384	2007	PA BMP Manual	PAD210054
34	Detention Basin	1.8	Liberty Property, LP; c/o/ Prologis, LP (XPO Logistics)	40.23427	-77.120341	2018	PCSM Plan	PAI032116004
35	Detention Basin	2.9	Liberty Property, LP; c/o/ Prologis, LP (XPO Logistics)	40.238658	-77.116504	2018	PCSM Plan	PAI032116004
36	Detention Basin	47.1	Liberty Property, LP; c/o/ Prologis, LP (XPO Logistics)	40.237459	-77.120749	2018	PCSM Plan	PAI032116004
37	Detention Basin	4.2	Longia Westgate Development, LLC (Cumberland Range: non-urban)	40.261145	-77.134177	2018	PCSM Plan	
38	Detention Basin	3.6	Mountaineer Properties, LLC	40.230274	-77.111098	Pre-2003	PA BMP Manual	
39	Subsurface Detention Basin	8.8	Multiple Landowners (Keystone Arms)	40.216613	-77.166929	2007	PA BMP Manual	PAD210054
40	Subsurface Detention Basin	11.7	Multiple Landowners (Keystone Arms)	40.217514	-77.167205	2007	PA BMP Manual	PAD210054
41	Detention Basin	10	North Point Carlisle Industrial, LLC	40.232115	-77.122793	2019-2020	PCSM Plan	PAD210027

42	Detention Basin	15.4	North Point Carlisle Industrial, LLC	40.232969	-77.121608	2019-2020	PCSM Plan	PAD210027
43	Detention Basin	8.1	North Point Carlisle Industrial, LLC	40.230335	-77.1177	2019-2020	PCSM Plan	PAD210027
44	Infiltration Basin	207.3	Old Dominion Freight Line, Inc.	40.241859	-77.110487	1992-1993	PA BMP Manual	
45	Detention Basin	0.6	PFJ Southeast, LLC (Flying J)	40.237292	-77.123354	1994-1995	PA BMP Manual	
46	Subsurface Detention Basin	5.7	PFJ Southeast, LLC (Flying J)	40.235624	-77.122628	1994-1995	PA BMP Manual	
47	Subsurface Detention Basin	3.9	PFJ Southeast, LLC (Flying J)	40.236697	-77.122979	1994-1995	PA BMP Manual	
48	Subsurface Detention Basin	1.8	PFJ Southeast, LLC (Flying J)	40.236423	-77.123963	1994-1995	PA BMP Manual	
49	Detention Basin	0.7	PFJ Southeast, LLC (Flying J)	40.236394	-77.124489	1994-1995	PA BMP Manual	
50	Subsurface Detention Basin	2.5	PFJ Southeast, LLC (Flying J)	40.23726	-77.122872	1994-1995	PA BMP Manual	
51	Detention Basin	2.3	PFJ Southeast, LLC (Flying J)	40.235217	-77.124235	1994-1995	PA BMP Manual	
52	Detention Basin	2.7	PFJ Southeast, LLC (Flying J)	40.234863	-77.124354	1994-1995	PA BMP Manual	
53	Detention Basin	9.9	Placeston Properties, LLC (Roadway Dr.)	40.231454	-77.110958	1999-2000	PA BMP Manual	
54	Detention Basin	113	Roadway Express, Inc.; c/o NKA YRC, Inc.	40.229082	-77.13061	1994-1995	PA BMP Manual	

55	Subsurface Detention Basin	0.5	Robert L & Rena F Brunner (Dollar General)	40.255333	-77.172611	2016	PCSM Plan	
56	Subsurface Detention Basin	0.7	Robert L & Rena F Brunner (Dollar General)	40.255722	-77.172214	2016	PCSM Plan	
57	Detention Basin	4.9	Ronald Simons, Et. Al. (Harmony Hall Court)	40.220373	-77.159869	Pre-2003	PA BMP Manual	
58	Detention Basin	0.9	Rudolph M & Stephanie M Janiczek (Raudabaugh Estates: non-urban)	40.239962	-77.142385	2011-2012	PCSM Plan	
59	Detention Basin	8.6	SAIA Motor Freight Line, LLC	40.230338	-77.130711	1994-1995	PA BMP Manual	
60	Detention Basin	2.8	Shady Lane Hotel Assoc., LP (Comfort Inn)	40.225861	-77.147947	2015	PCSM Plan	PAI032113003
61	Detention Basin	1.2	Stephen D and Lisa M Bourne (Appalachian Estates: non-urban)	40.196903	-77.121574	2008	PA BMP Manual	
62	Subsurface Detention Basin	0.3	Store Master Funding II, LLC (Hardees)	40.199432	-77.155504	2017	PCSM Plan	PAI032115005
63	Subsurface Detention Basin	0.7	Store Master Funding II, LLC (Hardees)	40.199303	-77.155076	2017	PCSM Plan	PAI032115005
64	Subsurface Detention Basin	0.3	Store Master Funding II, LLC (Hardees)	40.199574	-77.154965	2017	PCSM Plan	PAI032115005
65	Detention Basin	5.2	Toigo Organic Farms, LLC	40.224817	-77.124311	2016	PCSM Plan	PAD210050
66	Detention Basin	4.7	Toigo Organic Farms, LLC	40.224455	-77.125207	2016	PCSM Plan	PAD210050

67	Detention Basin	4.6	Toigo Organic Farms, LLC	40.22409	-77.126323	2016	PCSM Plan	PAD210050
68	Detention Basin	6.4	Toigo Organic Farms, LLC	40.222983	-77.125732	2016	PCSM Plan	PAD210050
69	Detention Basin	1.8	Toigo Organic Farms, LLC	40.222901	-77.126042	2016	PCSM Plan	PAD210050
70	Detention Basin	30.6	Toigo Organic Farms, LLC	40.224482	-77.127693	2016	PCSM Plan	PAD210050
71	Detention Basin	1.3	Toigo Organic Farms, LLC	40.223596	-77.125627	2016	PCSM Plan	PAD210050
72	Detention Basin	43.7	Toigo Organic Farms, LLC	40.222237	-77.124516	2016	PCSM Plan	PAD210050
73	Detention Basin	0.8	USRP Funding 2001-ALP; c/o Operating, LP (Burger King)	40.234113	-77.140757	Pre-1995	PA BMP Manual	
74	Detention Basin	21	YRC, Inc. (Roadway Dr.)	40.231808	-77.115226	1999	PA BMP Manual	
75	Detention Basin	2.9	Carlisle Steel Supply	40.223492°	-77.130008°	2022	PCSM Plan	PAD210072
76	Subsurface Detention Basin	0.2	Carlisle Steel Supply	40.223703°	-77.135522°	2020	PCSM Plan	PAD210049
77	Subsurface Detention Basin	1.1	Carlisle Steel Supply	40.223703°	-77.135522°	2020	PCSM Plan	PAD210049
78	Detention Basin	1.4	PA Sicklerville LP Restaurants	40.233089°	-77.139783°	2022	PCSM Plan	PAD210048
79	Detention Basin	3.25	Letort Estates	40.216165°	-77.158681°	2022	PCSM Plan	PAD210012
80	Detention Basin	3.4	Blue Beacon Intl	40.236067°	-77.136675°	2011	PCSM Plan	PAI032111003
81	Detention Basin	0.6	Blue Beacon Intl	40.236239°	-77.136819°	2011	PCSM Plan	PAI032111003

82	Detention Basin	0.3	Carlisle Sports Emporium Entertainment and Amusement Fac	40.232108°	-77.134836°	2012	PCSM Plan	PAI032112001
83	Detention Basin	1.3	Rostan Assoc	40.225481°	-77.149553°	2014	PCSM Plan	PAI032113003
84	Detention Basin	4.5	North Point Carlisle Industrial, LLC	40.230697°	-77.119628°	2020	PCSM Plan	PAD210027
85	Detention Basin	5.2	Pine Hill Ind Park	40.224400°	-77.164956°	2003	PA BMP Manual	
86	Detention Basin	2.2	Pine Hill Ind Park	40.224989°	-77.163622°	2025	PCSM Plan	PAD210099
87	Detention Basin	2	Pine Hill Ind Park	40.225731°	-77.163203°	2023-2024	PCSM Plan	PAD210099
88	Detention Basin	5.7	Pine Hill Ind Park	40.223678°	-77.168008°	2013	PCSM Plan	PAI032111004
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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:

Please see the following attachment that documents the MCM#5 activity for the reporting period.

- **5a - Township Engineer's Report on PCSM Functionality**
  - **New and redevelopment projects are subject to the Stormwater Management Ordinance via cross reference from the Subdivision and Land Development Ordinance. The Stormwater Ordinance establishes guidelines and standards. The Township Engineer performs compliance inspections. Stormwater management facilities at nine sites were inspected by the Township Engineer and were functional during this reporting period.**

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? **6/2026**
3. When was it last updated? **Update was not required.**

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: **6/2026 (reviewed; no update required)**

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: **10/2025** Date of latest training: **10/16/2025**
3. Training topics covered:

   Skelly and Loy, *A Terracon Company* conducted an MS4 Permit Staff Training in October 2025 attended by Public Works Staff, covering topics such as: MS4 permit basics, Illicit discharge detection and elimination, pollutant reduction plan implementation, and MCM 6 good housekeeping operations and procedures. Exercises reinforced when staff should address observed substandard issues immediately or escalate to management. Roles and responsibilities of Township employees were reviewed. The training included a simulated compliance inspection of facilities where the staff identified compliance or non-compliance of the good housekeeping activities at the Township Maintenance Facility.

   One staff member participated in pesticide and pool certification training and certification. This training emphasizes safe handling and calibration of hazardous materials and helps the educated staff prevent pollutants in stormwater runoff, minimizing potential illicit discharges. The staff member passed the first of two written exams required by PA Department of Agriculture to become a certified public pesticide applicator. Essential topics required for this certification include: safe and effective handling of pesticides, proper storage and transportation, and spill prevention and emergency management. This staff member will share this knowledge with other staff, reinforcing proper techniques when handling chemicals that could potentially pollute stormwater systems.

   Excavation to maintain and repair utilities can cause releases of sediment to the stormwater management system. The One-call trainings attended by the Staff primarily focused on the safety and compliance activities for one-call notifications. The Township Roadmaster informally connected the MS4 and One call trainings. Staff attended the PA One Call Locator Training Class in March 2026 and the PA One Call Safety Day held in York in June 2026. Attendees included excavators, project / facility owners, emergency responders, and public officials.

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

   - **MS4 Permit Staff Training: Skelly and Loy, *A Terracon Company* – Carrol Ehrhart and Jennifer Strauss**
   - **Pesticide and pool certification training and certification – Independent study**
   - **PA One Call Locator Training: PA One Call Representatives**
   - **PA One Call Safety Day: PA One Call Representatives**

5. Names of training attendees:

MS4 Permit Staff Training:

Chad Davis, John Hackman, Jordan Hurley, Scott Shepler, Kevin Sheriff, Gerald Steigleman, Josh Travitz, Zach Zook

Pesticide and pool certification training and certification:

Josh Travitz

PA One Call Locator Training:

Chad Davis, Josh Travitz

PA One Call Safety Day:

Scott Shepler, Chad Davis, Josh Travitz

MCM #6 Comments:

Please see the following attachments that document the MCM#6 activity for the reporting period.

- **6a - MS4 Training Log 2025-2026**
  - **The log summarizes name of each training, dates of the trainings, and participants' names for the various completed trainings.**
- **6b - Middlesex Staff Training 10/16/2025**
  - **The MS4 Permit Training served as a refresher for long-time employees and introduction to MS4 for new staff. The training summarized the Township's MS4 permit requirements and highlighted the good housekeeping measures that staff can proactively take as they work in Township-owned properties.**
- **6c - Highway Work Log 2025-2026**
  - **Middlesex Public Works staff continued to perform the routine maintenance for the Township. Activities that correspond to MS4 activities and related work activities including "PARKS", "STORMS", "PESTICIDE TRAINING", "PIPE LINING", "STORM INLETS", "FLOODING", and "HEAVY RAINS" also are supportive of clean stormwater and MS4 compliance and are highlighted in the attachment. Work activities are performed with special attention to stormwater pollution prevention, whether it be proper techniques and calibration for herbicide and deicer application, vegetation control, construction site sweeping and good housekeeping, vehicle maintenance, road line painting, or storm cleanup.**
- **6d - Anderson Park Maintenance Log 2025-2026**
  - **Anderson Park is the only municipally owned real estate other than road rights-of-way within the MS4 regulated area. The Township Staff has continued to follow the SOP for MS4 site Maintenance for the property and log compliance with trash removal, pet waste management, and vegetation control.**

POLLUTANT CONTROL MEASURES (PCMs)

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

Task	Date Completed	Attached	Anticipated Completion Date
Storm Sewershed Map(s)		☐	
Source Inventory		☐	
Investigation of Suspected Sources		☐	
Ordinance/SOP for Controlling Animal Wastes		☐	

PCM Comments:

POLLUTANT REDUCTION PLANS (PRPs) AND TMDL PLANS

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

Type of Plan	Submission Date	DEP Approval Date	Surface Waters Addressed by Plan
☐ Chesapeake Bay PRP (Appendix D)			
☐ Impaired Waters PRP (Appendix E)			
☐ TMDL Plan (Appendix F)			
☒ Combined Chesapeake Bay / Impaired Waters PRP	**9/14/2017**	**7/23/2018**	**Chesapeake Bay, Wertz Run, and Hogestown Run**
☐ 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)
☐ Chesapeake Bay PRP (Appendix D)			
☐ Impaired Waters PRP (Appendix E)			
☐ TMDL Plan (Appendix F)			
☒ Combined Chesapeake Bay / Impaired Waters PRP	**124,415**	**58**	**574**
☐ Combined PRP / TMDL Plan			

3. Date Final Report Demonstrating Achievement of Pollutant Load Reductions Due: **September 30, 2024**

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.

The original stream restoration project, a segment of Letort Spring Run, was swapped for a significantly degraded headwater stream contributing to Wertz Run, a stream that is impaired by sediment. The swap and planned design approach were approved by DEP's Central Office in May 2018.

5. Summary of progress achieved during reporting period.

Of the 9 planned projects, Projects 1 ,2 ,3 ,5, 6, 7, and 9 were previously completed. The remaining two projects, Project 4 and Project 8, were completed this reporting period. (See Attachment 7b - Photo Log Middlesex Township PRP Constructed BMPs.)

Project 4: Project 4 consists of roadside open vegetated channels along both sides of Wolf's Bridge Road from approximately 180 feet north of the intersection of West Middlesex Drive south approximately 1500 feet to a low point in Wolf's Bridge Road where the runoff enters an existing 30" CMP stormwater pipe. Work this reporting period included final placement of energy dissipation rock aprons, clean up and restabilizing areas that were damaged by intense storm events, seeding and vegetation management, and ensuring that vegetation establishment was successful.

Project 8: Project 8 involves the restoration of approximately 1,072 linear feet of headwater stream along an unnamed tributary to Wertz Run. The existing channel is incised with actively eroding bed and banks and is characterized by over a dozen steep vertical head cuts throughout the existing reach.

Project 8 construction was completed during this reporting period. The project construction consisted of three log structures in the upper reach and 33 rock-lined step-pools to restore the stream. To the greatest extent possible healthy mature vegetation was preserved. New native vegetation consisting of 659 container-grown plants and 1,921 live stakes were installed in areas that were disturbed during construction. Plantings are in the establishment period.

Based on results from Model My Watershed (MMW) Multi-Year Worksheet the completed project results in reduction of sediment load by 123,280 lbs./year, Phosphorous reduction of 187 lbs/year and Nitrogen reduction of 206 lbs/year.

6. Anticipated activities for next reporting period.

Post-construction monitoring is required for Project 8 under the Joint Permit. Field work and monitoring will continue through 2031. Monitoring inspections will comply with permit requirements and permit monitoring reports will be filed as required based on the calendar year.

PRP/TMDL Plan Comments:

Middlesex Township completed the construction of the nine projects listed in their approved PRP. Please see the following attachments that document the PRP activity for the reporting period.

- **7a - Middlesex Township MS4 BMP Project Location Map**
  - **The exhibit identifies the locations of each of the completed PRP projects.**
- **7b - Photo Log Middlesex Township Pollutant Reduction Plan Constructed Best Management Practices**
  - **Post-construction photos of Project 4 and pre-construction, during-construction and post-construction projects are provided for Project 8.**

NEW BMPs FOR PRP/TMDL PLAN IMPLEMENTATION

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

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed or Implemented	Planning Area?	Ch. 102?	Annual Sediment Load Reduction (lbs/yr)
1	Project 4: Vegetated Open Channels (C/D Soils)	6.8	20	2113	LF	40.249651°	-77.164398°	2024-25	☒	☐	2,725
8	Project 8: Stream Restoration	N/A	N/A	1072	LF	40.252447°	-77.168600°	2026	☒	☐	123,280

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 Inspect-ion	Satis-factory?
1	Project 1: Vegetated Open Channel (A/B Soils)	1.37	10	332	LF	40.263727°	-77.170760°	2022	549	6/2025	☒
2	Project 2: Vegetated Open Channel (A/B Soils)	7.5	6	1056	LF	40.263698°	-77.170369°	2022	3,005	6/2025	☒
3	Project 3: Vegetated Open Channels (C/D Soils)	6.5	24	2113	LF	40.257840°	-77.166591°	2022	2,605	6/2025	☒
4	Project 5: Vegetated Open Channels (C/D Soils	1.71	31	1402	LF	40.235000°	-77.164444°	2021	685	6/2025	☒

5	Project 6: Vegetated Open Channels (C/D Soils	24.82	49	1222	LF	40.230393°	-77.164592°	2021	23,300	6/2025	☒
6	Project 7: Bioretention / Raingarden (A/B soils without underdrain)	0.35	12	546	SF	40.226093°	-77.160536°	2024	37	6/2025	☒
7	Project 9: Vegetated Open Channels (C/D Soils	2.46	7	683	LF	40.220547°	-77.103021°	2021	194	6/2025	☒
8											☐

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).

Zachary Zook	Zachary L Zook
Name of Responsible Official	Signature
717-249-4409	09/28/2026
Telephone No.	Date

List of Attachments

MCM #1 – PUBLIC EDUCATION AND OUTREACH PROGRAM (PEOP) ATTACHMENTS

- 1a Middlesex Township Newsletters
- 1b Middlesex Township Webpage Updates
- 1c Middlesex Township Combined Public Education and Outreach Program (PEOP) and Public Involvement and Participation Program (PIPP) – Revised June 2026
- 1d Annual MS4 Permit Review Presentation at Board of Supervisors Meeting – 2/4/2026
- 1e Municipal Separate Storm Sewer System (MS4) Stormwater Management Program (SWMP)

MCM #2 – PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM (PIPP) ATTACHMENTS

- 2a Board of Supervisor Meetings with MS4-Stormwater Discussion Summary

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

- 3a Middlesex Township Illicit Discharge Detection & Elimination Program (IDD&E) Manual Revised June 2026
- 3b Potential Illicit Discharge Investigations
- 3c Outfall and Receiving Stream Inventory

MCM #4 – CONSTRUCTION SITE STORMWATER RUNOFF CONTROL ATTACHMENTS

- 4a Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026
- 4b Township Engineer's Summary of Construction Stormwater Inspections 7/1/2025 to 6/30/2026

MCM #5 – POST-CONSTRUCTION STORMWATER MANAGEMENT ATTACHMENTS

- 5a Township Engineer's Report on PCSM Functionality

MCM #6 – POLLUTION PREVENTION AND GOOD HOUSEKEEPING ATTACHMENTS

- 6a MS4 Training Log 2025-2026
- 6b Middlesex Staff Training 10/16/2025
- 6c Highway Work Log 2025-2026
- 6d Anderson Park Maintenance Log 2025-2026

POLLUTANT CONTROL MEASURES (PCMs) AND POLLUTANT REDUCTION PLANS (PRPs) ATTACHMENTS

- 7a Middlesex Township MS4 Best Management Practice (BMP) Project Location Map
- 7b Photo Log Middlesex Township PRP Constructed BMPs

MCM#1 - PUBLIC EDUCATION AND OUTREACH PROGRAM (PEOP) ATTACHMENTS

1a - Middlesex Township Newsletters

Attachment 1a
Middlesex Township Newsletters

September 2026

The following screen shots show excerpts from the Township's Newsletters to support MS4 and stormwater pollution prevention during the report period. The articles include:

Fall 2025

1. Leaf Pick Up Scheduled for October 18
2. Middlesex Township / North Middleton Township Joint Composting Site
3. Highway Department Project

Winter 2025/2026

1. Tree Collection Times in January
2. Reducing Pollution in the Stormwater Drains This Winter
3. Middlesex Township / North Middleton Township Joint Composting Site
4. Cumberland County Vector Control: Mosquito Season

Spring 2026

1. Middlesex Township / North Middleton Township Joint Composting Site
2. Penn Waste Will Collect Leaves
3. MS-4 Springtime Tips
4. Cumberland County 2026 Recycling Events

Summer 2026

1. Middlesex Township Park
2. Middlesex Township / North Middleton Township Joint Composting Site
3. Please Help Keep Our Waterways Clean
4. Data Center – Frequently Asked Questions : How will the project protect Conodoguinet Creek?
5. Middlesex Township Municipal Authority

Middlesex Connections

Fall 2025

Leaf Pick Up Scheduled for October 18



Penn Waste will offer curbside leaf collection for township residents who have township residential service with Penn Waste.
Saturday, October 18, 2025. Please have leaf bags/open containers by the curb the night before the collection date.

Leaves MUST be in open containers (no lids) and easily identified as leaf waste or PAPER leaf bags. DO NOT place them in plastic bags. No garbage, sticks, twigs, animal waste or paper should be included. Please do not place unacceptable items under the leaves. If any of these items are included, your container will be refused, and you will be responsible to dispose of them yourself. Remember Township Ordinance 13-2007 prohibits the burning of leaves. If you have any questions, please call the township office at
717-249-4409 or Penn Waste at
717-767-4456.

Middlesex Township/ North Middleton Township Joint Composting Site

Located on Windy Lane (at the intersection of Beagle Club Rd and W. Middlesex Dr)

Hours: Thru October 15, 2025
Mondays, 8am– 12noon, Wednesdays, 2pm-7pm, Saturdays, 8am—12noon (Closed on Holidays)

October 18– December 13 the site will only be open Saturdays, 8am-12noon

Acceptable Items: leaves, shrubs (no roots), shrubbery clippings, branches cut into 6 foot lengths and no larger than 12 inches in diameter.

Not Acceptable Items: stumps, bamboo, ornamental grasses, grass clippings, rose bushes, flowers & bulbs, vines, roots of any kind, garbage, bulk items, dirt, stones, bricks, construction debris, concrete, hazardous materials, charcoal, fruits and/or vegetables, bags or containers.

- Bring your ID!

Please see our website www.middlesextwp.com (go to Departments, then Compost Site) for more information

Highway Department Project

As part of the continuing work in the Township's MS-4 projects, the Highway Department is improving the storm water inlets along Wolfs Bridge Road and West Middlesex Road to prevent storm water erosion along the roadway.







The Fall 2025 Newsletter featured reminders for leaf pickup and where to drop compostable material. It highlighted stormwater infrastructure improvements as well.

Middlesex Connections

Winter 2025/2026

Tree Collection Times in January

(Excludes apartments and mobile home parks)

Christmas trees will be collected by Penn Waste Saturday, January 11, 2024. After January 11, Penn Waste will collect any remaining Christmas trees on your normal trash day thru January 31. No tags will be needed. If you would prefer to take your tree to our compost site, you can drop it off any Saturday in January, 8am-12noon.



For holiday trash collection schedules, please contact Penn Waste at 717-767-4456 or visit pennwaste.com

Reducing Pollution in the Stormwater Drains This Winter



- Dispose of shoveled snow in vegetated areas. This will allow the snow to infiltrate instead of becoming runoff.
- Use de-icing and salts sparingly. Focus on making your walkways and driveways safe but avoid overusing or spreading in vegetated areas or near waterways.
- Start shoveling early. The more snow you remove, the less salt you will need.
- Make sure your nearest storm drains are clear. Do not pile snow on storm drains.

Cumberland County Vector Control: Mosquito Season

The mosquito season has wrapped up and this year had one of the highest positive trap numbers for Cumberland county and the State of Pennsylvania as a whole. Cumberland County collected a total of 710 traps and 741 larval collections. Out of the traps collected 234 of them tested positive. 316 larval treatments were completed and 22 adult treatments. The season was front loaded with a large amount of rain followed by high temperatures leading to a perfect storm for mosquitos to thrive.

Vector Control attended 10 community outreach events including Carlisle Earth Day, Silver Spring Open House, Penn State Plant Fest, Public Safety Summer Fair, the County's first Bring Your Child to Work Day, Camp Hill's Storm Fest, Hampden and Carlisle's National Night Out, the Sherrif Office's end of Summer Fair, Farmland Preservation event.

Vector Control in conjunction with Cumberland County recycling host two tire collections, one in May and one in September. For the first event we collected 20.02 tons of tires, equaling about 1,691 tires. For the second event we collected 6.33 tons of tires, equaling about 574 tires.



Middlesex Township & North Middleton Township Joint Compost Facility

Located on Windy Lane (at the intersection of Beagle Club Road and West Middlesex Drive)

2025 Hours of operation :
November– December 13
Saturdays, 8am-12noon

2026 Hours of operation:
January: Saturdays, 8am-noon
February: Closed
March 2– October 17:
Mondays, 8am– noon;
Wednesdays, 2pm-7pm and
Saturdays, 8am—noon
October 24– December 12: Saturdays, 8am-noon
* The site is closed on holidays and during snowy/icy weather.

Our compost material is very popular. By having the site monitored, we are able to avoid having garbage/trash dumped in the site. Look for mulch to be available again this spring.

Acceptable Items: leaves, shrubs (no roots), shrubbery clippings, branches cut into 6 foot lengths and no larger than 12 inches in diameter. There should be NO FRUIT on the branches.
Not Acceptable Items: stumps, bamboo, grass clippings, ornamental grasses, flowers & bulbs, rose bushes, vines of any kind, roots, garbage, bulk items, dirt, stones, bricks, construction debris, concrete, hazardous materials, charcoal, fruits and/or vegetables, bags or containers

**Identification is REQUIRED: In order to ensure that our site is not overwhelmed by materials from outside of Middlesex & North Middleton Townships, compost users will be asked for a picture ID with a current address when using the compost facility.
Please see our website www.middlesextwp.com for more information.

The Winter 2025/2026 Newsletter featured information about Christmas tree collection, how to reduce pollution to stormwater, and the joint compost facility. There was also a section reporting the mosquito control statistics and reminder about an upcoming tire recycling event.

Middlesex Connections

Spring 2026

MS-4 Springtime Tips:

Pick up Trash: Sometimes someone will inadvertently drop a piece of trash on the ground. If you see trash that you can safely pick up, collect it up and put it in the nearest garbage or recycling bin. It's that simple. If it's too large, or you think it may be hazardous, contact your municipality. Improperly controlled trash can enter the storm drain system, which can then reach a water body such as Letort Spring Run and or the Conodoguinet Creek.

Never pollute drains. Our storm inlets lead to creeks/streams and can carry pollutants. They are not garbage receptacles. These untreated pollutants can kill fish and other aquatic life. Additionally, because we live in a karst environment, many storm inlets go directly to sinkholes or other recharge areas where pollutants can impair our groundwater.

Lawn Care: Use fertilizers and pesticides sparingly as required, and don't forget to pick up pet waste. Lawns should be tested for nutrients to ensure the correct amount is applied, or if fertilizer is even needed.



MS4 (Municipal Separate Storm Sewer System) is a publicly-owned, regulated system of conveyances—such as storm drains, pipes, ditches, and curbs—designed to collect or transport untreated stormwater runoff into local water bodies.

Middlesex Township/ North Middleton Township Joint Composting Site

Windy Lane (intersection of Beagle Club Rd and W. Middlesex Dr)

Dates and Hours of Operation:
March 2—October 14 (Will not be open if snow covered)
Mondays, 8am– 12noon
Wednesdays, 2pm-7pm
Saturdays, 8am—12noon
*Closed holidays

Acceptable Items: leaves, shrubs (no roots), shrubbery clippings, branches cut into 6 foot lengths and no larger than 12 inches in diameter. There should be NO FRUIT on the branches.

Not Acceptable Items: stumps, bamboo, grass clippings, ornamental grasses, rose bushes, flowers & bulbs, vines, roots of any kind, garbage, bulk items, dirt, stones, bricks, construction debris, concrete, hazardous materials, charcoal, fruits and/or vegetables, bags or containers.

**Don't forget– Identification is required
Please see our website www.middlesextwp.com for more information



CUMBERLAND COUNTY 2026 RECYCLING EVENTS

Pre-registration is required and all events are held at the Cumberland County Recycling Center located at 1001 Claremont Road, Carlisle.

Paper Shredding
First 25 lbs. FREE; $0.15 per lb. after
Thursday, April 23 | 10 am - 2 pm

Tire Recycling
$0.15 per lb. disposal fee
Friday, May 15 | 9 am - 3 pm
Friday, September 18 | 9 am - 3 pm

Household Hazardous Waste
$0.75 per lb. disposal fee
Thursday, April 9 | 11 am - 5 pm
Saturday, May 30 | 9 am - 3 pm
Saturday, August 15 | 9 am - 3 pm
Thursday, October 29 | 11 am - 5 pm

cumberlandcountypa.gov/recycling

Penn Waste Will Collect Leaves

Penn Waste will offer curbside leaf collection for township residents on Saturday, April 18, 2026.
Leaves MUST be in open containers (no lids) and easily identified as leaf waste or leaves can be placed in PAPER leaf bags. No garbage, sticks, twigs, animal waste or paper should be included. Please do not place unacceptable items under the leaves. If any of theses items are included, your container will be refused, and you will be responsible to dispose of them yourself. Remember Township Ordinance 13-2007 prohibits the burning of leaves. If you have any questions, please call the township office at 717-249-4409.

The Spring 2026 Newsletter shared practices that people should adopt to keep the environment healthy such as picking up trash, avoiding drain pollution, and minimizing nutrient use on lawns. Other information included the joint compost facility, recycling events, and leaf collection.

Middlesex Connections

Summer 2026



Middlesex Township Park

Thank you to all of the volunteers at ***Ahold Delhaize USA, Indirect Center of Excellence Team*** for their time and efforts mulching and weeding at the park. The park is ready for summer visitors!

Thank You!

Please Help Keep Our Waterways Clean

Aquatic waste, garbage polluting rivers, lakes, streams, and creeks, is a problem for our environment and our wildlife. During some hot weekends last summer, large amounts of trash were left behind at Letort Falls Park. Park users are asked to take home whatever trash they bring/create– Pack In Pack Out. According to PA DEP, "Mismanaged trash that escapes into waterways can create a wide range of problems. Aquatic trash affects water quality, endangers plants and animals, and pollutes the outdoor spaces that we depend on for tourism and recreation."

Wildlife either in the water or on land can get sick or be entangled in the trash. If animals eat trash the debris can damage digestive systems and interfere with an animal's ability to digest which can lead to illness or starvation. Not only can trash be a problem for wildlife, it can harm plants. Plants can be smothered by trash and debris.
So while you are out enjoying Letort Falls or any park, please remember to keep it clean for other users and for the wildlife and plants.



Letort Falls Park

Middlesex Township/ North Middleton Township Joint Composting Site

Located on Windy Lane (at the intersection of Beagle Club Rd and W. Middlesex Dr)

Hours March 1 - October 14, 2026
Mondays, 8am - 12noon,
Wednesdays, 2pm - 7pm,
Saturdays, 8am - 12noon (Closed on Holidays)
October 17 - December 12-
Saturdays, 8am-12noon.

Acceptable Items: leaves, shrubs (no roots), shrubbery clippings, branches cut into 6 foot lengths and no larger than 12 inches in diameter.

Not Acceptable Items: stumps, bamboo, ornamental grasses, grass clippings, rose bushes, flowers & bulbs, vines, roots of any kind, garbage, bulk items, dirt, stones, bricks, construction debris, concrete, hazardous materials, charcoal, fruits and/or vegetables, bags or containers.

- Bring your ID!

Please see our website www.middlesextwp.com (go to Departments, then Compost Site) for more information.

How will the project protect Conodoguinet Creek?

The PAX-1 Project plans to protect the Conodoguinet Creek by avoiding any water withdrawal or discharge and preserving a 300–400-foot forested buffer and floodplain areas. Engineered stormwater systems will manage runoff to protect water quality under regulatory oversight. The project also enhances local ecosystems through native plantings and habitat features that support wildlife and improve overall watershed health.

Middlesex Township Municipal Authority has sewer capacity of 1.596 million gallons per day (mgd.) at the Carlisle Regional Wastewater Treatment Facility and as a contributing sewer system to the treatment plant, we are required to participate with upgrades at the regional plant. Over the next 5 years Carlisle will be undertaking a very large project to upgrade their biosolids program to convert their disposal process to Class A biosolids. The total Capital improvements have been estimated at $27 million dollars over the next 5 years, which will result in Middlesex Township Municipal Authority having to contribute $6.16 million dollars towards this capital projects.

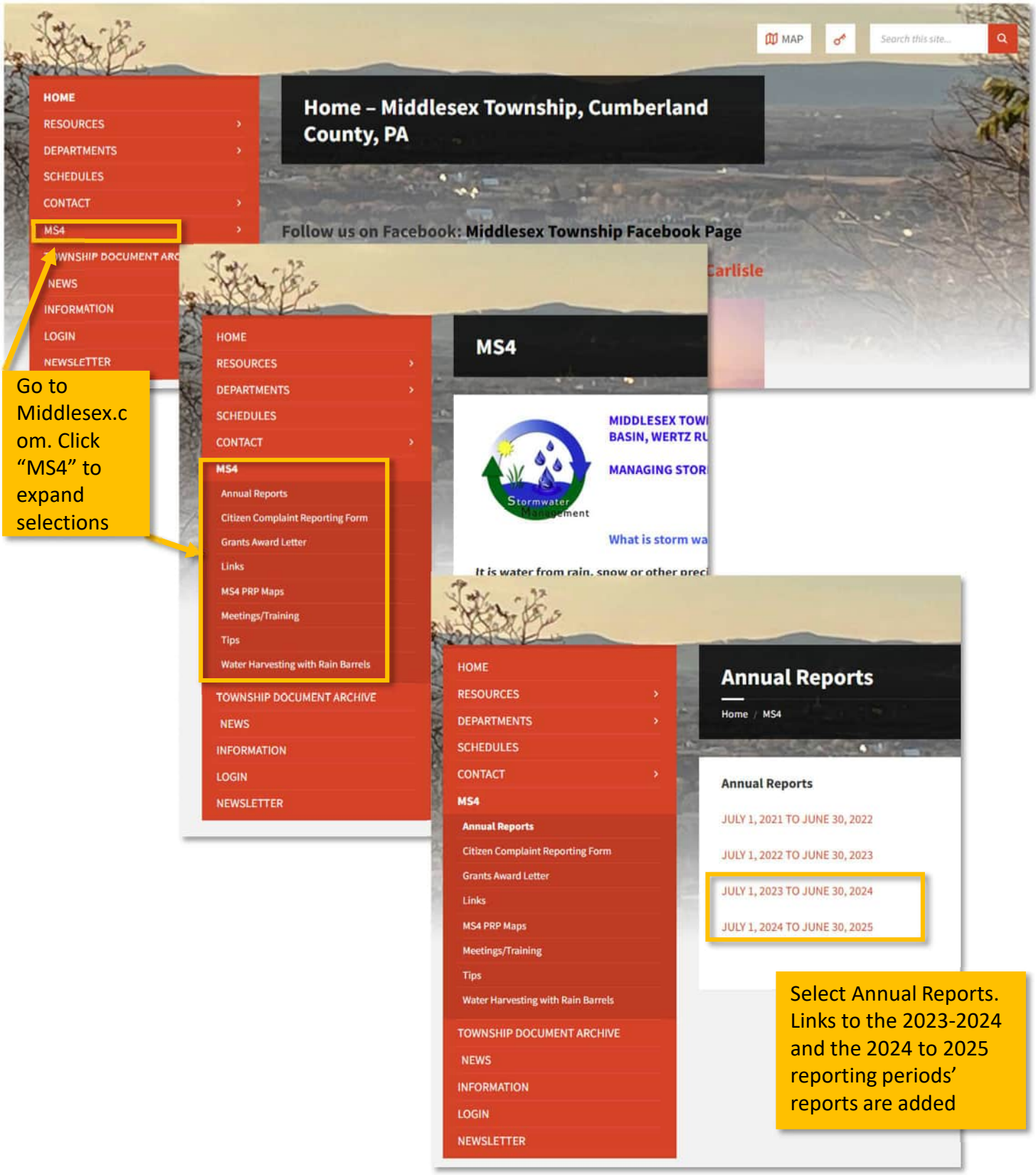
The Summer 2026 Newsletter shared updates on the maintenance of the Middlesex Township Park as well as the joint compost facility. It explained the importance of keeping waterways free from trash and answered environmental questions in reference to the new data center being built such as how the Conodoguinet Creek will be protected and future Wastewater Treatment Facility Upgrades.

1b - Middlesex Township Webpage Updates

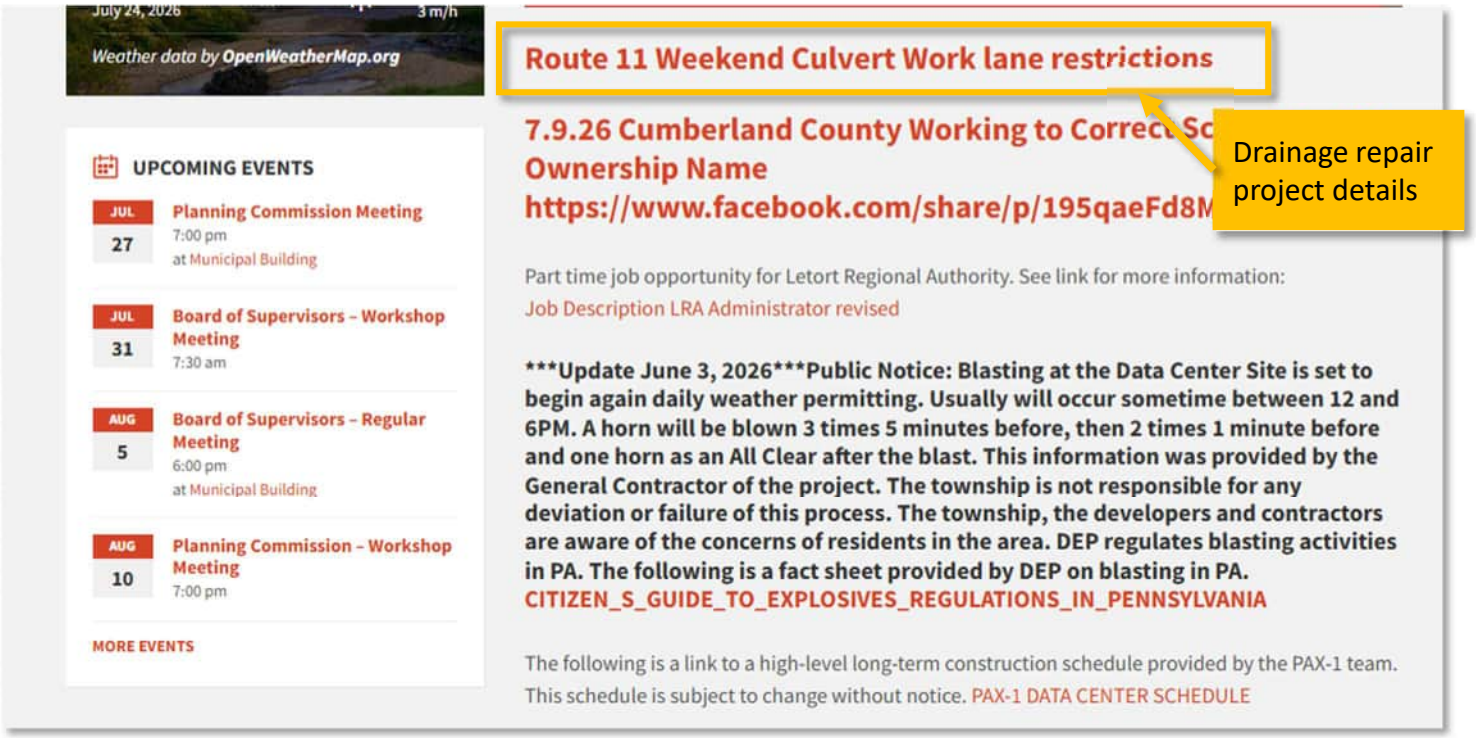
Attachment 1b
Middlesex Township Webpage Updates

September 2026

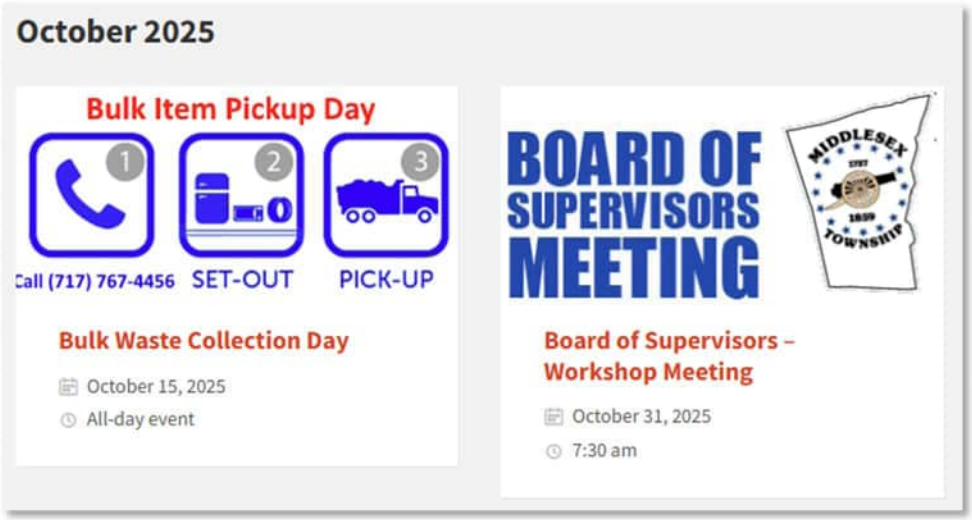
The following screen shots show information related to MS4 that is posted on the Township's Website. Information was refreshed this reporting period. Annual reports postings were updated, and copies of trainings and presentations were added. Newsletter and other pollutant reducing activities are also featured on the Township webpage..



The Upcoming Events landing page is updated monthly and Public Education and Outreach Events are included. Users can set a filter to scan for events of interest so they can plan schedules. Some samples are provided below.

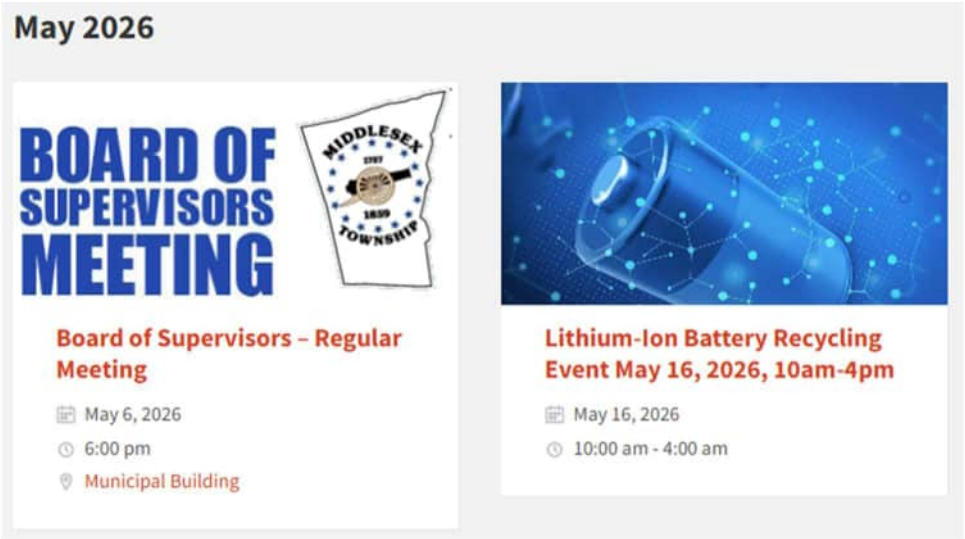


Drainage repair project details



Bulk Waste Collection Days, that proactively prevents refuse in waterways and Board of Supervisor meetings where MS4 and stormwater is a standing agenda item are announced each month.

Lithium battery collection occurred May 16, 2026



1c - Middlesex Township Combined Public Education and Outreach Program (PEOP) and Public Involvement and Participation Program (PIPP) – Revised June 2026

MIDDLESEX TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

Combined Public Education and Outreach Program (PEOP)
and
Public Involvement and Participation Program (PIPP)

Revised June 2026

MIDDLESEX TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

Combined Public Education and Outreach Program (PEOP)
and
Public Involvement and Participation Program (PEOP)

Revised June 30, 2026

Prepared for:

Middlesex Township
450 North Middlesex Road
Carlisle, PA 17013

Prepared by:

Terracon Consultants, Inc.
449 Eisenhower Blvd.
Suite 300
Harrisburg, PA 17111



REVISIONS LIST

Revision #	Page #	Section	Modification Description	Date
1		General	Grammar and rephrasing edits throughout.	6/30/2026
2		Cover	Updated date.	6/30/2026
3		Title Page	Updated date and consultant name.	6/30/2026
4		2.0 Required Program Components for MCM#1 & MCM#2	Added language back in that was cut out the previous year. Added language to summarize MCM#1 and MCM#2.	6/30/2026

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1.0 INTRODUCTION

1.1 COMBINED PUBLIC EDUCATION, OUTREACH & INVOLVEMENT / PARTICIPATION PLAN

Middlesex Township is required as part of its Municipal Separate Storm Sewer System (MS4) permit to develop a Stormwater Management Program (SWMP) consisting of six Minimum Control Measures (MCMs). The first two MCMs, MCM#1, Public Education and Outreach on Stormwater Impacts, and MCM#2, Public Involvement/ Participation, have a shared foundation: education of targeted audiences. Education naturally progresses to participatory interaction, which corresponds to the additional focus of MCM#2. MCM#1 starts the education and MCM#2 builds on the education and creates the response loop through participation and involvement opportunities. Middlesex Township, therefore decided to address the two MCMs together in one written program.

1.2 PURPOSE

1.2.1 MCM#1: Public Education and Outreach Program

The purpose of the Public Education and Outreach Program (PEOP), as part of Minimum Control Measure #1 requirements, is to create a written plan for establishing an informed and knowledgeable community. An educated constituency is instrumental in the success of a comprehensive stormwater management program and will ensure the following:

- Greater support for the program as the target audience gains a greater understanding of the reasons why stormwater management is necessary and important.
- Greater compliance with the stormwater management program as the target audience becomes aware of the personal responsibilities expected of them and others in the community, including the individual actions that they can take to protect and improve the quality of area waters.

An Educated Community will:

- **Understand why stormwater management is important.**
- **Support necessary policies and financial investment.**

Knowledge through education is a key mechanism for pollution prevention and reduction. Middlesex Township will provide educational material to connect public activities to degradation of the creeks and streams in Middlesex Township as well as the greater Chesapeake Bay Watershed.

1.2.2 MCM#2: Public Involvement/ Participation Program

The U.S. Environmental Protection Agency (EPA) itemizes a number of reasons to encourage active participation in development and implementation of a MS4 stormwater management program, including positive program support, accelerated implementation schedules, broader base of expertise, and increased opportunity for collaboration and cost sharing. People who participate in program planning and decision-making feel responsible for and proud of successful outcomes. Involvement diminishes objections and increases the rate of acceptance of necessary changes. An engaged group with diverse knowledge, skills, and talents generates creative solutions. Developing networks of relationships is foundational for financial partnering.

The purpose of the Public Involvement Participation Program (PIPP) is to create a written plan to serve as the framework to initiate the opportunities for interactions and collaborations with the targeted public audiences that result in an improvement in stormwater quality.

1.3 GOALS

There are two overarching goals for the combined program:

- **Education**: Provide information regarding pollution in stormwater runoff and its subsequent deleterious effects to surface waters
- **Participation**: Provide opportunities for public to collaborate in reduction of pollution in stormwater

2.0 REQUIRED PROGRAM COMPONENTS FOR MCM#1 & MCM#2

The Township's MS4 Permit lists the requirements for satisfactorily addressing the MCMs called Best Management Practices (BMPs). The written PEOP corresponds to MCM#1, BMP#1; and the written PIPP corresponds to MCM#2, BMP#1. MCM#1 and MCM#2 BMPs have been excerpted from the Middlesex MS4 Permit and are provided below. As a permittee, Middlesex Township continues to publish and distribute educational materials for target audiences as well as regularly solicits public involvement and participation from target audiences.

2.1 MCM#1 PERMIT REQUIREMENTS

MCM #1 consists of four BMPs and requires the following be accomplished by the Township Stormwater Management Program:

- **BMP #1**: Develop, implement and maintain a written Public Education and Outreach Program.
    - The existing PEOP shall be re-evaluated annually and revised as needed.
- **BMP #2**: Develop and maintain lists of target audience groups that are present within the areas served by the permittee's regulated small MS4. In most communities, the target audiences shall include residents, businesses (including commercial, industrial and retailers), developers, schools, and municipal employees.
    - The lists shall continue to be reviewed and updated annually.
- **BMP #3**: The permittee shall annually publish at least one issue of a newsletter, a pamphlet, a flyer, or a website that includes general stormwater educational information, a description of the permittee's SWMP, and/or information about the permittee's stormwater management activities. The list of publications and the content of the publications must be reviewed and updated at least once during each year of permit coverage. Publications should include a list of references (or links) to refer the reader to additional information (e.g., DEP and EPA stormwater websites and any other sources that will be helpful to readers). The permittee must implement at least one of the following alternatives:
    - Publish and distribute in printed form a newsletter, a pamphlet or a flyer containing information consistent with this BMP.

- Publish educational and informational items including links to DEP's and EPA's stormwater websites on the permittee's website.
- The list of items published and the content in these items shall be reviewed, updated and maintained annually.

- **BMP #4**: Distribute stormwater educational materials and/or information to the target audiences using a variety of distribution methods, including but not limited to: displays, posters, signs, pamphlets, booklets, brochures, radio, local cable TV, newspaper articles, other advertisements (e.g., at bus and train stops/stations), bill stuffers, presentations, conferences, meetings, fact sheets, giveaways, and storm drain stenciling. All permittees shall select and utilize at least two distribution methods annually. These are in addition to BMP #3, above.

  All permittees shall select and utilize at least two distribution methods annually. These are in addition to BMP#3 above.

2.2 MCM#2 PERMIT REQUIREMENTS

MCM #2 consists of three BMPs and requires the following be accomplished by the Township Stormwater Management Program:

- **BMP #1**: Develop, implement and maintain a written Public Involvement and Participation Program (PIPP) which describes various types of possible participation activities and describes methods of encouraging the public's involvement and of soliciting the public's input.

  The PIPP for new permittees shall be developed and implemented within one year following issuance of this permit. All permittees shall reevaluate the PIPP annually and make revisions as necessary.

  The PIPP shall include, at a minimum:

  - Opportunities for the public to participate in the decision-making processes associated with the development, implementation, and update of programs and activities related to this permit.
  - Methods of routine communication to groups such as watershed associations, environmental advisory committees, and other environmental organizations that operate within proximity to the permittee's regulated small MS4s or surface waters receiving the permittee's discharges.
  - Making Annual MS4 Status Reports and all other plans, programs, maps and reports required by this permit available to the public on the permittee's website, at the permittee's office(s), or by mail upon request.

- **BMP #2**: The permittee shall advertise to the public and solicit public input on the following documents prior to adoption or submission to DEP:
  - Stormwater Management Ordinances (for municipalities); and
  - Standard Operating Procedures (SOPs) (for non-municipal entities)
  - For Ordinances and SOPs, the permittee shall provide notice to the public; provide opportunities for public comment; document and evaluate the public comments;

and document the permittee's responses to the comments prior to finalizing the documents. The permittee shall provide this documentation to DEP upon request.

- **BMP #3**: Regularly solicit public involvement and participation from the target audience groups using available distribution and outreach methods. This shall include an effort to solicit public reporting of suspected illicit discharges. Assist the public in their efforts to help implement the SWMP.
    - The permittee shall solicit public involvement and participation from target audience groups on the implementation of the SWMP. The solicitation can take the form of public meetings or other events. The public shall be given notice in advance of each meeting or event. During the meetings or events, the permittee should present a summary of progress, activities, and accomplishments with implementation of the SWMP, and the permittee should provide opportunities for the public to provide feedback and input. The presentation can be made at specific MS4 events or during any other public meeting. Existing permittees shall conduct at least one public meeting that includes information on SWMP implementation by March 15, 2028; new permittees shall conduct at least one public meeting within 5 years following issuance of this permit.
    - The permittee shall document and report instances of cooperation and participation in MS4 activities; presentations the permittee made to local watershed organizations and conservation organizations; and similar instances of participation or coordination with organizations in the community.
    - The permittee shall also document and 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 organized implementation efforts such as cleanups, monitoring, storm drain stenciling, or others.

3.0 TARGET AUDIENCES

Middlesex has a variety of Target Audiences listed below but will continue to focus on three groups. The three key target audiences are Municipal Employees, Residents, and Businesses.

TABLE 1: TARGET AUDIENCE SUMMARY

Target Group	Expanded Description	Comment
MUNICIPAL EMPLOYEES*	• Highway Dept. • Police Dept. • Parks and Recreation Dept. • Water & Sewer Dept. • Administrative Staff	**Key group for education and participation**. Staff are using knowledge to identify potential illicit discharges and informing the MS4 Coordinator for follow-up. Staff also construct pollution reduction projects, field resident and business stormwater management questions, and administer the MS4 permit. They must be knowledgeable as front-line emissaries of the permit.
Municipal Boards and Committees	• Board of Supervisors • Planning Commission • Zoning Hearing Board • Recreational Advisory Board • Municipal Authority	Most municipal boards and committees must have a general working knowledge and understand the interconnection of clean stormwater to their specialized areas. The **Board of Supervisors** requires elevated education in order to make informed and financially responsible decisions for pollutant reduction investment. The education of this group can be accomplished via staff reports at public meetings and invitations to join staff education sessions.

Target Group	Expanded Description	Comment
RESIDENTS✱	• Homeowners • Renters	**Key Group for education and participation**. Residents will be directly impacted by policy changes and fiscal responsibility. Understanding the context and benefits of pollution reduction can transform adversaries into advocates. Participatory residents are required for program success.
Social Networks	• Friends of the Letort-Letort Regional Authority • Cub Scouts of America Pack 182 • Big Brothers Big Sisters • Girl Scouts • Middlesex Senior Citizens • Churches • Fall Festival	This group is a subset of residents. Groups of already motivated and socially active individuals represent an opportunity for converting education to action. For example, Middlesex United Methodist Church on North Middlesex Road is socially active and requests opportunities to do more for the Middlesex community. Education of this subset will be captured through the outreach to residents identified above.
School Students	• Middlesex Elementary (Middlesex Twp.) • Eagle View Middle School (Mechanicsburg) • Cumberland Valley HS (Mechanicsburg) • Little Hearts & Souls Preschool (Middlesex Twp.)	Youth is impressionable and naturally attracted to streams. There are existing ecology programs in place for the region's students. The ecology programs are under the management of the Audubon Society and supported by the Letort Regional Authority. The Township financially supports the Letort Regional Authority and will rely on this established outreach for the first permit term.
BUSINESSES✱	• Trucking Affiliated Business ○ 2 Truck Stops ○ Hotels (2000 rooms) • Business Offices ○ Giant Food Corp. Hdq. ○ AHOLD USA • Warehouses ○ Amazon Warehouse • Agri-businesses ○ Toigo Orchards • Recreation Businesses ○ Carlisle Country Club	**Key Group for Education.** The Township is heavily impacted by pollution emanating from the trucking industry. High volumes of truck traffic serving the various warehouses are concentrated along US Route 11 between Interstate 81 and the PA Turnpike interchanges (a.k.a. the Miracle Mile). Additionally, the Township contains several corporate headquarters, agri-businesses, and recreational facilities. Like the residential community, businesses will be impacted by policy changes and new financial responsibilities. It is essential to improve the knowledge base of the business community to gain support of the latest programs and to modify behaviors contributing to pollution.
Developers	Various Developers and Contractors	The developers in Middlesex are already obligated to follow stormwater management regulations to maintain predevelopment stormwater quality. While the goal of the MS4 program is to improve rather than maintain water quality, the Township believes that the current requirements plus more aggressive oversight of Post Construction Stormwater Management (PCSM) required by MCM#5 will have a desired positive effect. Therefore, Middlesex will provide education to developers informally and in-person by introducing pollutant reduction concepts into current interactions with the development community during the subdivision/land development approval and construction process.
Adjacent Municipalities	Carroll Twp., Perry County Rye Twp., Perry County North Middleton Twp. South Middleton Twp. Monroe Twp. Silver Spring Twp.	Excluding the Townships in Perry County, the other adjacent municipalities are also MS4 permittees. While Middlesex will continue to collaborate with their neighboring communities, there is not a pressing need to educate these municipalities, at this time.

✱ Key Target Group for education and participation activity focus

4.0 EDUCATION METHODS & PARTICIPATION OPPORTUNITIES

4.1 MUNICIPAL EMPLOYEE EDUCATION

Middlesex Township municipal employees include Middlesex Township Police Department, Highway Department, Parks and Recreation Department, and Water and Sewer Department. These employees are likely to interact with stormwater in one way or another through their everyday work. In addition, office staff will be responsible for fielding stormwater-related phone calls and creating and managing documentation. Educating these employees on ways to improve water quality can be the first building block of educating the community.

Middlesex Township Highway Department staff are routinely educated about pollution prevention throughout the year. The Roadmaster trains staff through informal Tailgate Talks that cover a variety of topics including, but not limited to, vehicle maintenance and disposal of automotive fluids, incident cleanup, municipal property maintenance and organization, and maintenance and disposal of materials extracted from stormwater drainage systems. Staff is also trained on equipment calibration for herbicide application and deicing equipment.

A third-party program for educating municipal employees is offered primarily as in-person seminars provided to groups of employees at least once every two years. The presentation format is lunch-and-learn programs conducted by the Township engineering consultant. The lunch-and-learn program informs two groups: field personnel (maintenance workers, inspectors, police officers, etc.) and office personnel that may receive and respond to stormwater concerns from residents and businesses. Education programs are usually offered for all employees in one group but may have breakout sessions with information tailored to each group. The Township may use other training formats as appropriate.

Municipal Staff Education Highlights:

- **Routine Tailgate talks and equipment calibration trainings.**
- **Trainings once-every two years:**
  - Office Personnel
  - Field Staff
- **Additional field-based workshops, as needed.**

Tailored information for field personnel will focus on identifying stormwater-related issues encountered during the performance of their routine duties, such as potential illicit discharges, litter, clogged stormwater drains, erosion emanating from construction, or malfunctioning stormwater infrastructure. Staff will be instructed on proper responses and how to report these issues.

Information for office personnel will include general information on many of the same topics, but will focus more on the stormwater complaint receipt, response, follow-up, and documentation. To accommodate schedule conflicts and ensure staff participation, several identical lunch-and-learn sessions can be held, if required. Pre-presentation and post-presentation quizzes will document the success and attendance sheets will document participation rates.

Field personnel education will be periodically supplemented on an as-needed basis with field-based workshops to train staff how to follow new procedures, detect pollution sources, use inspection checklists, and complete documentation.

4.2 RESIDENT EDUCATION AND PARTICIPATION

Residents are comprised of homeowners and renters that live in Middlesex Township. Residents also account for much of the participation in the community's social networks, such as churches, Cub Scouts, Girl Scouts, Big Brothers Big Sisters, and Middlesex Senior Citizens. (Social network education is included in the educational outreach extended to residents.)

The primary education of residents will continue to be provided in twice-a-year featured articles regarding pollution reduction in stormwater as part of the Township's existing newsletter. The newsletter is delivered to Township residents via mail and is posted on the Township's website: http://middlesextwp.com/. The newsletter will contain updates on proposed and constructed Pollutant Reduction Plan (PRP) projects, information about the local watershed, and other educational material that will inform residents about stormwater issues. The website includes DEP and EPA materials along with Stormwater Management Plan documentation, proposed Pollutant Reduction Plan project sites with visualizations, and local stormwater-related pictures. Other topics such as stormwater improvements and erosion control measures during construction will likely be featured as well.

Residents are also essential participants in the Stormwater Complaint Process that is discussed below.

4.3 BUSINESSES EDUCATION AND PARTICIPATION

The intensity of land use along I-81, I-76, and U.S. Route 11 appears to deliver high concentrations of pollution to Middlesex Township from the trucking terminals and affiliated businesses. Middlesex Township contains two long-haul trucking service plazas, several trucking terminals, restaurants, hotels totaling over 2,000 rooms, and several transportation-dependent headquarters (e.g., Giant Foods and AHOLD USA, Inc.). The Turnpike and I-81 have interchanges along U.S. Route 11 separated by a little over one mile. This area is locally known as "the Miracle Mile."

Education and Participation Opportunities

- Public meetings
- Newsletter
- Enhancements to webpage
- Stormwater complaint process

Primarily, business education and participation are focused largely on businesses along the Miracle Mile in conjunction with other inspections like the Post-Construction Stormwater Management oversight for NPDES-permitted stormwater facilities. Township staff conduct in-person inspections and respond to notifications of spills or complaints of discharges. The staff takes advantage of these "teachable moments" to explain the cascading effects of poor maintenance or inadvertent releases of polluting materials to provide context to the owners and incentive for proactive intervention.

4.4 COMMUNITY COMMUNICATION AND SOLICITATION OF PUBLIC INPUT

Consistent with the Middlesex Township strategy to capitalize on effective existing procedures and to supplement with new initiatives, the Township will fully utilize the existing structure afforded through the regularly scheduled Board of Supervisor meetings for Routine Solicitation for public comment and will invite the community (residents and businesses) to a new public forum with the special focus on stormwater and MS4.

4.4.1 Routine Solicitation for Community Public Comment

Stormwater management is a standing discussion item on the Supervisor meetings agendas. Attendees are encouraged to ask questions, provide comments, or discuss perceived stormwater-related issues. The meeting minutes will continue to document discussion items, conclusions, and assigned tasks.

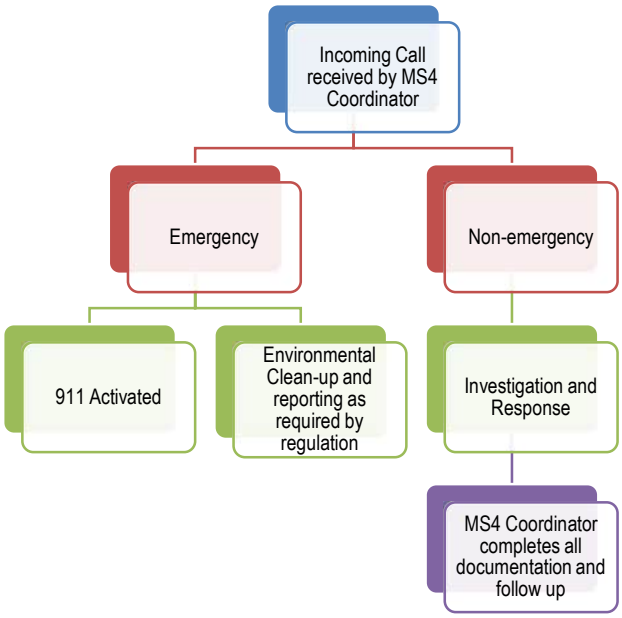
Stormwater management documents, PRPs, and MS4 Annual Status reports, are and will continue to be posted on the Township webpage for public use.

Any new ordinances, ordinance updates triggered through MS4 permit compliance, or major changes to the PRPs will be publicly advertised and the public will be afforded a review period for public comment prior to adoption of ordinance language or major PRP revision.

4.4.2 STORMWATER COMPLAINT PROCESS

When a resident or business contacts the Township with a stormwater-related complaint, the caller is directed to the MS4 Coordinator, who determines if the situation is an emergency or non-emergency. If the situation is emergency, emergency response personnel are activated. If the situation is not an immediate safety or health threat, the MS4 Coordinator investigates the situation and determines if an intervention is required. Responses can be:

1. The discharge is not illicit. No further action is required.
2. The discharge is illicit. The party responsible for the discharge is cited for a violation and required to clean it up. DEP is notified.
3. The discharge is illicit but is coming from a source beyond Middlesex Township's jurisdiction. The adjacent upstream municipality and DEP are informed.



The MS4 Coordinator documents the findings and responses and follows up with the complainant.

4.5 ENHANCEMENT OF EXISTING EDUCATION OPPORTUNITIES

As summarized in **Table 1: Target Audience Summary**, school students, municipal boards, municipal committees, and developers all have educational needs. Funding will continue to be provided to Letort Regional Authority to conduct outreach efforts, and the existing educational opportunities will continue and will be supplemented as opportunity arises. The bullet list below provides a synopsis of means and methods of education distribution to these groups.

- **School Students**: An existing ecology program, with emphasis on healthy clean water, is being taught by the Audubon Society (in collaboration with the Letort Regional Authority).
- **Municipal Boards and Committees**: Municipal boards and committees receive regular updates from municipal staff at their respective public meetings. Additionally, the municipal staff will continue to invite board and committee members to attend presentations offered to municipal staff, and copies of the presentations will be made available to interested municipal board and committee members unable to attend.
- **Developers**: The development community routinely meets with both staff and municipal boards and committees during the subdivision and land development process to formulate compliant site design. The face-to-face encounters offer ample opportunity to exchange information and ideas for stormwater pollution reduction and will be the primary method for stormwater management education.

5.0 COMBINED PUBLIC EDUCATION AND OUTREACH AND PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM SUMMARY

5.1 TARGET AUDIENCE

- The program to address MCM#1 and MCM#2 will focus on three key target audiences - municipal employees, residents, and businesses.
    - Other Audiences (school students, municipal boards, municipal committees, and developers) will capitalize on enhancement of existing educational opportunities.
- Adjacent municipalities do not require additional education at this time.

5.2 EDUCATIONAL METHODS AND MATERIALS

- Educational information will be transmitted through in-person presentations, the Township's webpage, newsletters, meetings, and special events.

5.3 PARTICIPATION OPPORTUNITIES

- Participation opportunities include public meetings, the stormwater complaint process, and ad hoc pollutant reduction activities stimulated through increased knowledge and awareness.

5.4 RESPONSIBLE PARTIES AND SCHEDULE

- The table on the following page summarizes the Middlesex Township plan for compliance to the MCM#1 and MCM#2 BMPs, the responsible party, and the activity planned by permit year.

5.5 INITIATIVES

The following initiatives will continue:

- Stormwater will continue to be a standing item at the Board of Supervisor meetings.
- The following trainings/presentations will continue to be offered:
    - General information for public meetings and staff
    - Specialized training for Office Staff
    - Specialized training for Field Personnel
- Website updates
- Two articles for newsletter annually

- Receive and respond to stormwater complaints.

5.6 SUBSEQUENT ACTIVITIES

- Review and update of initiatives, annually

Table 2: Combined Public Education and Outreach & Public Involvement and Participation Program Summary, located on the following page, illustrates how each of the plans, activities and programs correspond and comply with the requirements of the Middlesex Township MS4 Permit, including the responsible parties for each BMP and the anticipated schedule for development and implementation.

TABLE 2: COMBINED PUBLIC EDUCATION AND OUTREACH & PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM SUMMARY

MCM ID	BMP ID	BMP Description	Education Material or Participation Activity	Responsible Party	Year 1	Year 2	Year 3	Year 4	Year 5
MCM#1	1	Review PEOP and revise as necessary.	Combined PEOP-PIPP	Twp. Manager assisted by Twp. Consultant	!	!	!	!	!
	2	Review and update list of individuals or categories of groups that will be the focus of Township education and outreach activity.	List is included in Combined PEOP-PIPP	Twp. Manager	🗁	🗁	🗁	🗁	🗁
	3	The list of items published and content in these items will be reviewed, updated, and maintained annually. Items can include a newsletter, pamphlet, flyer, or website that includes general stormwater educational information, a description of the permittee's SWMP, and/or information about the permittee's stormwater management activities.	• Existing Newsletter will include a stormwater pollution reduction feature article two times a year. • Update Website Links	Twp. Manager and Administrative Staff	🗁	🗁	🗁	🗁	🗁
	4	Distribute stormwater educational materials using a variety of distribution methods (displays, posters, signs, presentations, bill stuffers, fact sheets, etc.)	• Annual in-person presentations • Hand-out literature	Twp. Consultant	🗁	🗁	🗁	🗁	🗁
MCM#2	1	Review PIPP annually and revise as necessary.	Combined PEOP-PIPP	Twp. Manager assisted by Twp. Consultant	!	!	!	!	!
	2	Advertise to the public, solicit public input, document and evaluate the public comments, and document responses to the comments on Stormwater Management Ordinance updates prior to finalization.	Consistent with the PA Municipalities Planning Code, Public Advertisements of all Municipal Ordinances are offered prior to ordinance enactment to provide time for public review and comment and such procedures will be included in in required MS4 Ordinances and Plans	Twp. Manager and Code Enforcement Officer	!	!	!	!	!
	3	Regularly Solicit participation from Target Audience Groups, including public reporting of suspected illicit discharges. Notice will be given in advance of each meeting or event. During the meeting or event, a summary of progress, activities, and accomplishments with implementation of the SWMP will be presented. Cooperation and participation in MS4 activities, presentations made to local watershed organizations and conservation organizations will be documented and reported. Public participation on SWMP implementation, including education activities or organized implementation efforts like monitoring or storm drain stenciling will be documented and reported.	• Phone-based Complaint and Response Plan for stormwater-related issues with emphasis on illicit discharge and construction site runoff. • Public meetings • Special events • Organized implementation efforts	Twp. Manager and Administrative Staff	🗁	🗁	🗁	🗁	🗁

🗁 Review and Update; ! As needed

1d – Annual MS4 Permit Review Presentation at Board of Supervisors Meeting – 2/4/2026

Annual Municipal Separate Storm Sewer System (MS4) Permit Review

Middlesex Township Board of Supervisors Meeting
February 4, 2026

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Introductions



JENNIFER STRAUSS

Sr. Staff Scientist



CARROL EHRHART, RLA

Department Manager Environmental Engineering

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AVG. NO. OF EMPLOYEES

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Today's Topics

- Program Refresher
  - MS4 Basics
- Progress Report
  - Minimum Control Measures 1-6
  - Pollutant Reduction Plan Projects: Completed and Status Update
- Training and Outreach
  - 10/16/25 MCM6 Pollutant Prevention/Good Housekeeping Training
  - 12/13/25 PSATS Stormwater/MS4 Virtual Conference Presentation
- Looking Ahead
  - 2026 Deliverables
- Question & Answer

Program Refresher

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Explore with us

MS4 Basics

MCM#1 – Public Education and Outreach
MCM#2 – Public Involvement and Participation

→ Inform/Act

MCM#3 – Illicit Discharge Detection and Elimination
MCM#4 – Construction Site Runoff Control
MCM#5 – Post-Construction Stormwater Management
MCM#6 – Pollution Prevention and Good Housekeeping

→ Prevent Pollution

Pollutant Reduction Plan

→ Reduce Pollution

Progress Report

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MCM1-2: Public Education, Outreach, Involvement, and Participation

Routine Updates and Practices

- Review and Update Combined Public Education and Outreach Program (PEOP) and Public Involvement and Participation Program (PIPP)
- Continue Public Outreach via Township Newsletter



Middlesex Township/ North Middleton Township Joint Composting Site

Windy Lane (intersection of Beagle Club Rd and W. Middlesex Dr)

Dates and Hours of Operation:
March 1—October 15 (Will not be open if snow covered)
Mondays, 8am– 12noon

foot lengths and no larger than 12 inches in diameter. There should be NO FRUIT on the branches.

Not Acceptable Items:
stumps, bamboo, grass clippings, ornamental grasses, rose bushes, flowers & bulbs, vines, roots of any kind, garbage, bulk items, dirt, stones, bricks, construction debris, concrete, hazardous materials, charcoal, fruits and/or vegetables, bags or containers.

**Don't forget– Identification is required
Please see our website www.middlesextwp.com for more information

Penn Waste Will Collect Leaves

Penn Waste will offer curbside leaf collection for township residents on Saturday, April 19, 2025. Leaves MUST be in open containers (no lids) and easily identified as leaf waste or leaves can be placed in PAPER leaf bags. No garbage, sticks, twigs, animal waste or paper should be included. Please do not place unacceptable items under the leaves. If any of theses items are included, your container will be refused, and you will be responsible to dispose of them yourself.
Remember Township Ordinance 13-2007 prohibits the burning of leaves. If you have any questions, please call the township office at 717-249-4409.

Cumberland County Household Hazardous Waste

Cumberland County is offering four household hazardous waste disposal events in 2025. Similar to previous years, participants must sign up for an appointment in advance. Appointment slots are available in 15 minute increments and are established to address operational logistics.

Acceptable Materials will be weighed and each customer will be charged $0.75/lb. for disposal.

- Each event will be limited to 400 registrants. Register online (www.cumberlandcountypa.gov/3499) or by phone 717.240.6489

Open only to Cumberland County residents.

All event dates:

- Thursday, April 10, 2025, 11:00 am to 5:00 pm
- Saturday, May 31, 2025, 9:00 am to 3:00 pm
- Saturday, August 16, 2025, 9:00 am to 3:00 pm
- Thursday, October 23, 2025, 11:00 am to 5:00 pm

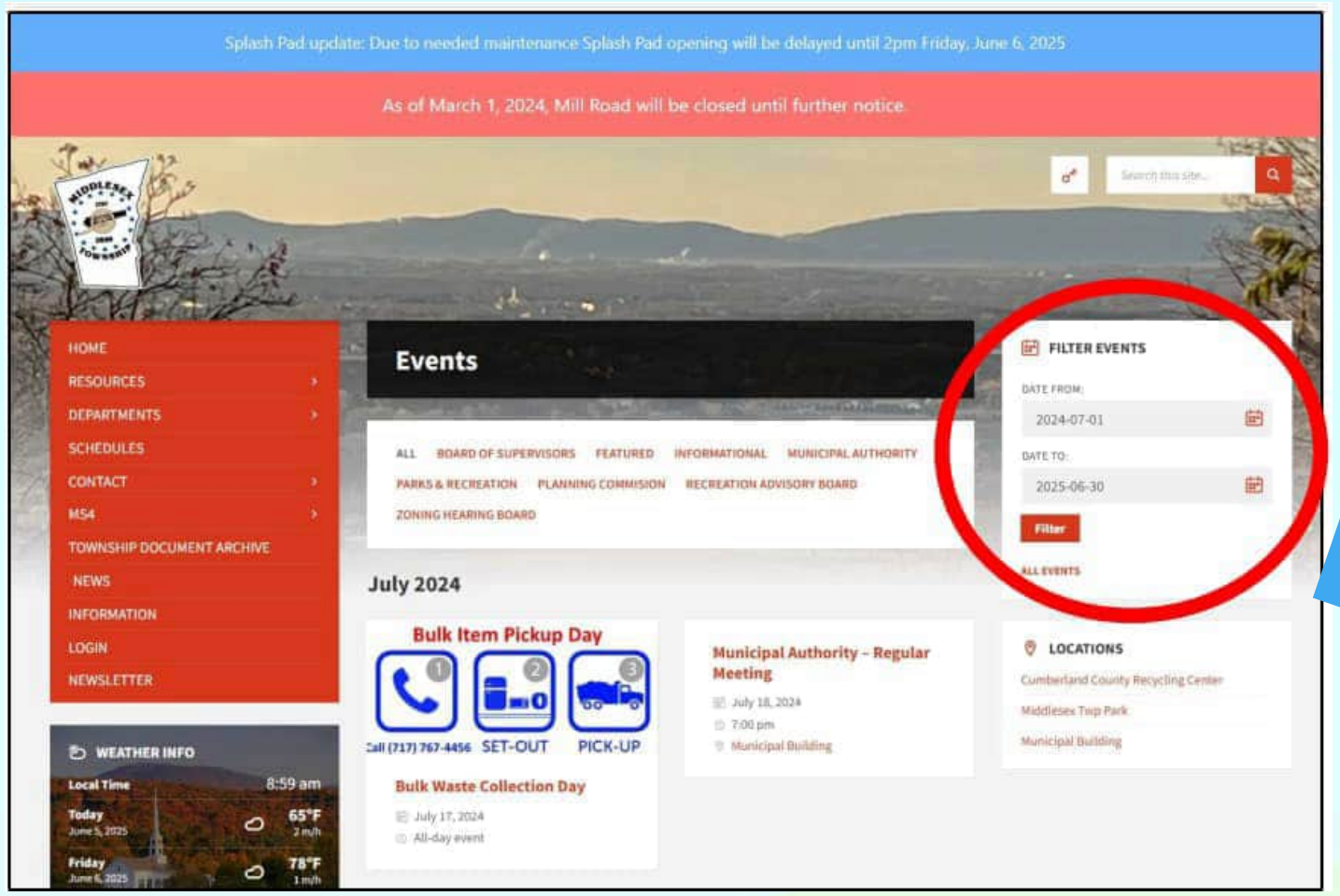
Additional program information can be found at www.cumberlandcountypa.gov/3499



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MCM1-2: Public Education, Outreach, Involvement, and Participation



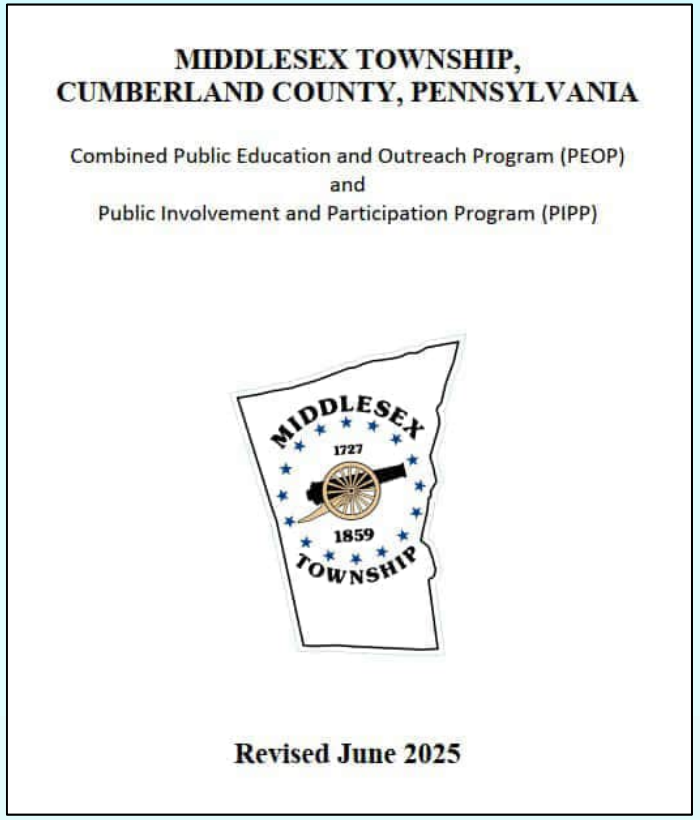


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MCM1-2: Public Education, Outreach, Involvement, and Participation

Types of Documentation: Reporting Period Summaries



MIDDLESEX TOWNSHIP,
CUMBERLAND COUNTY, PENNSYLVANIA

Combined Public Education and Outreach Program (PEOP)
and
Public Involvement and Participation Program (PIPP)

MIDDLESEX 1727 1859 TOWNSHIP

Revised June 2025

MCM 1

- Updated Publication Education and Outreach Program

MCM2

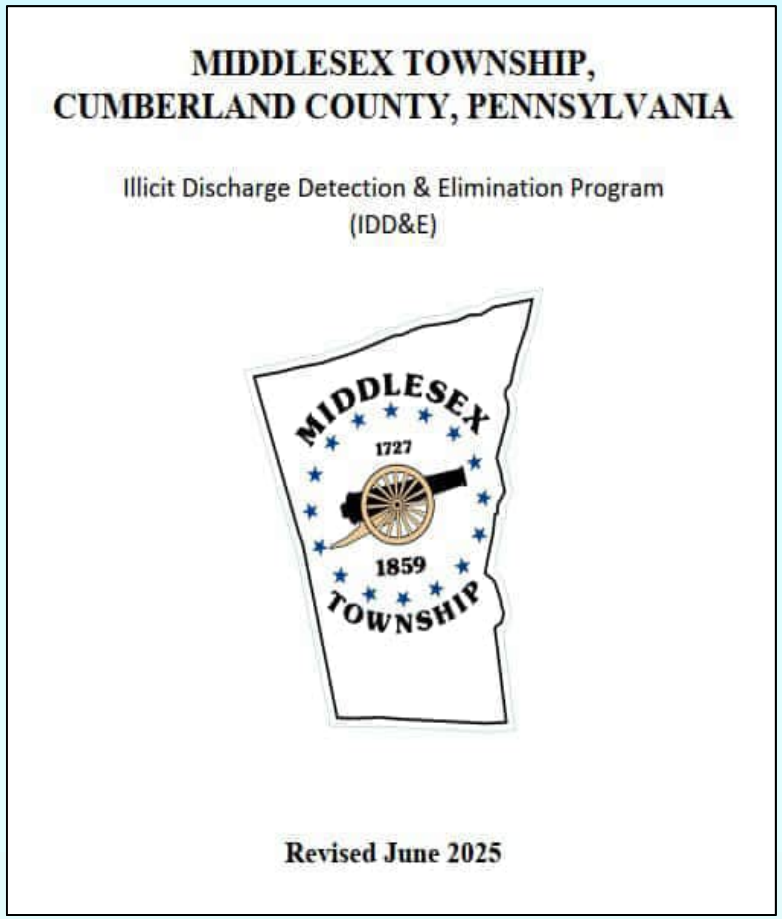
- Updated Public Involvement and Participation Program
- Discussed MS4 and Stormwater at Board of Supervisor Meetings

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MCM 3, 4, 5, and 6

Types of Documentation: Reporting Period Summaries



MIDDLESEX TOWNSHIP,
CUMBERLAND COUNTY, PENNSYLVANIA

Illicit Discharge Detection & Elimination Program
(IDD&E)

MIDDLESEX
1727
1859
TOWNSHIP

Revised June 2025

MCM 3
- Updated Illicit Discharge Detection and Elimination (IDDE) Manual

MCM4
- Township Building Permit Summary Report
- Municipal Notices to Cumberland County Conservation District
- Township Engineer's Summary of Construction Stormwater Inspections

MCM5
- Township Engineer's Report for NPDES PCSM Inspections

MCM6
- Staff Training
- Work Log
- Anderson Park Maintenance

Pollutant Reduction Plan Projects

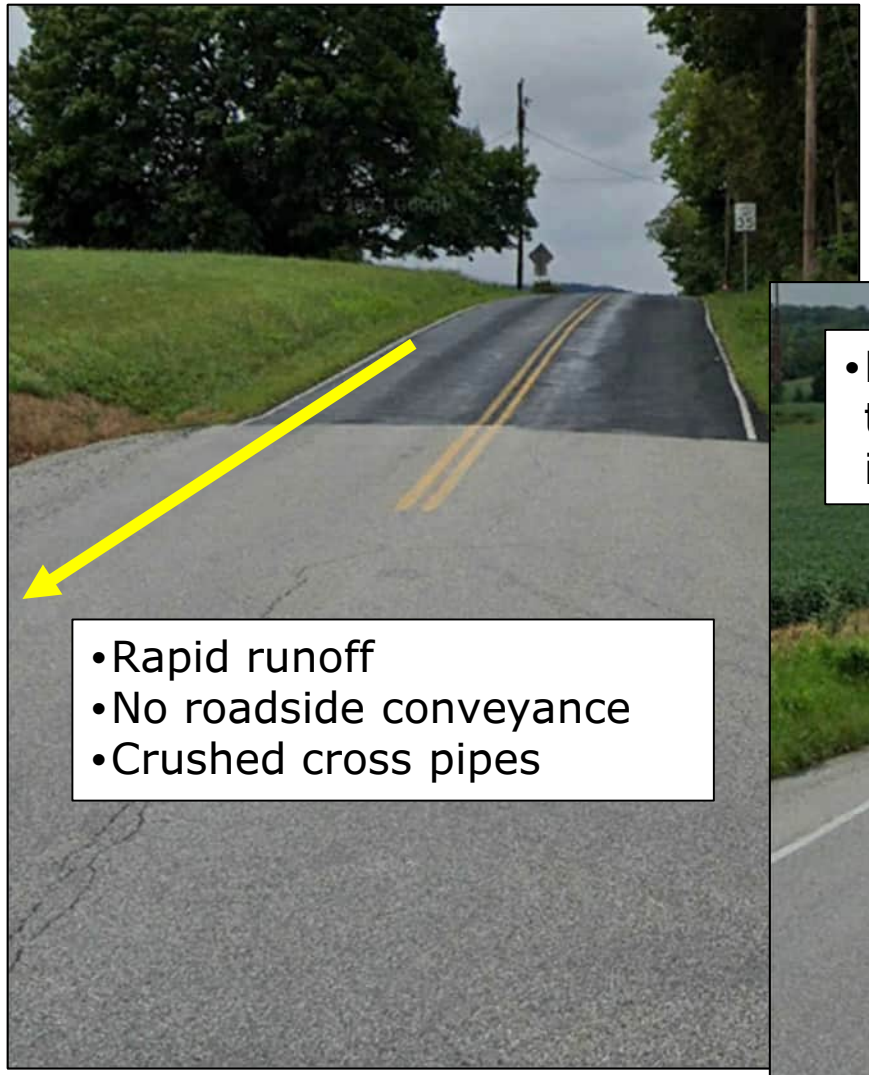
Completed and Status Update

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Project 4 (Before):

Wolf's Bridge Road & West Middlesex Drive



- Rapid runoff
- No roadside conveyance
- Crushed cross pipes



- Deteriorated macadam in turning path off the intersecting road

Prior to Project 4, there were no roadside swales Along Wolf's Bridge Road.

Persistent road flooding and inadequate conveyance caused bank erosion and paving deterioration at the upper end of these segments.

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Project 4 (During):

Wolf's Bridge Road & West Middlesex Drive



Wolfs' Bridge Rd. north of West Middlesex Drive looking south



Wolfs' Bridge Rd. south of West Middlesex Drive looking north



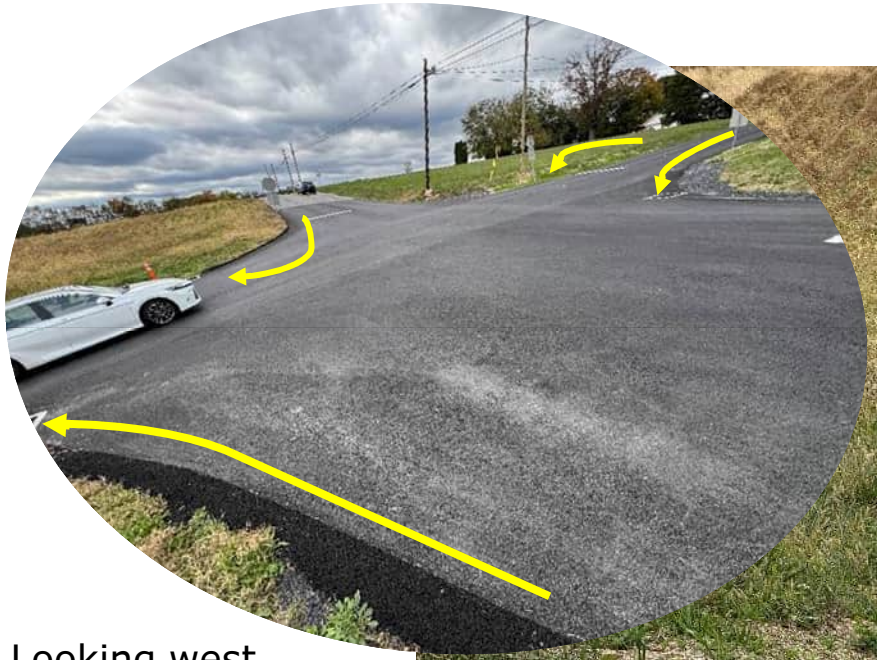
Wolfs' Bridge Rd. south of West Middlesex Drive looking north

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Project 4 (After):

Wolf's Bridge Road and West Middlesex Drive



Looking west



Looking south



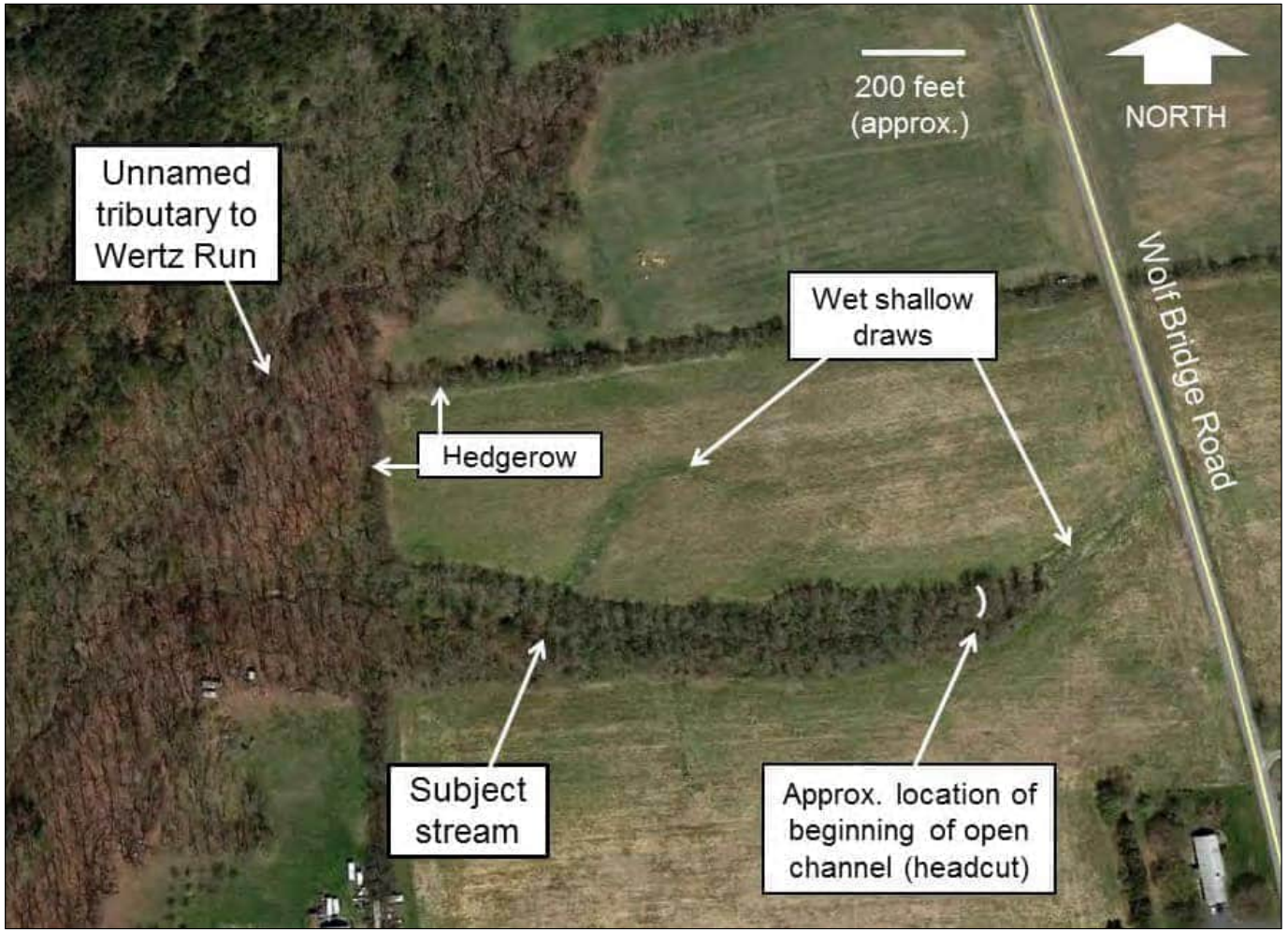
Looking north

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Project 8 (Before):
Unnamed Tributary to Wertz Run Stream Restoration





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Project 8 (During):
Unnamed Tributary to Wertz Run Stream Restoration



Installing Reach 1 Log Step

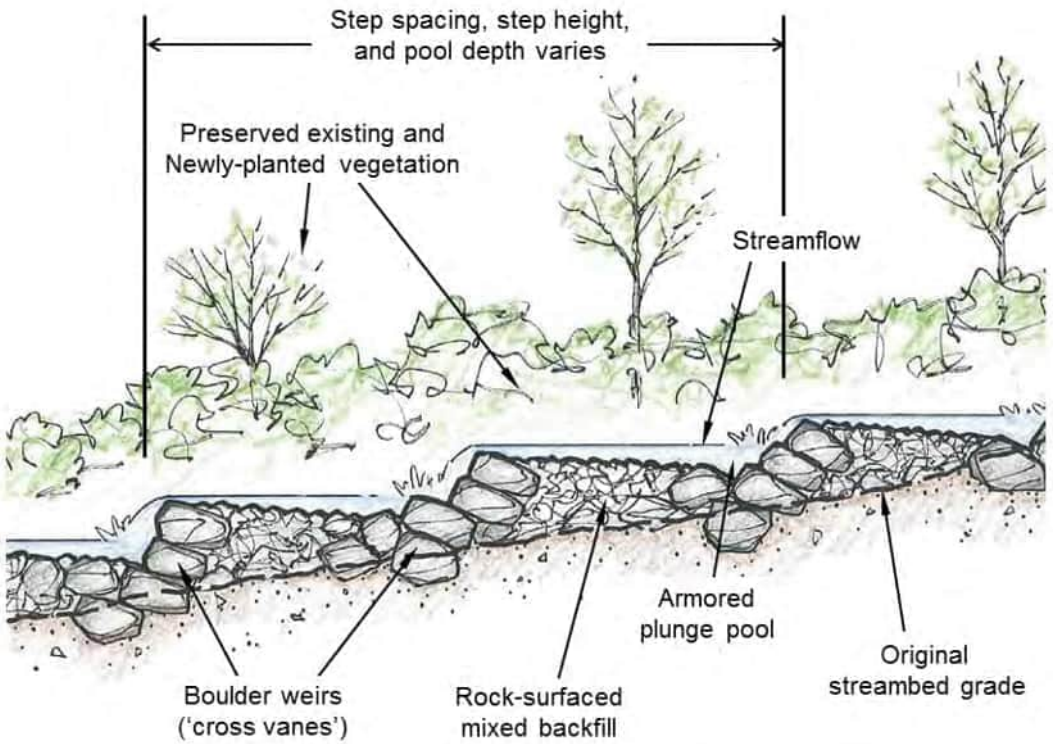


Installing Reach 1 Rock Steps

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Project 8 (After):
Unnamed Tributary to Wertz Run Stream Restoration





Facing northeast/upstream of Reach 1 and
Reach 2 Rock Steps with Erosion Control Matting

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MCM6 Pollution Prevention/Good Housekeeping Training

October 16, 2025

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Training Topics

- MS4 Permit
- Good Housekeeping
- Fix or Tell
- Roles and Responsibilities
- Scavenger Hunt

Middlesex Township MS4 Good Housekeeping Scavenger Hunt

October 16, 2025

- ☐ Maintenance Garage does not have fresh oil stains on floor
- ☐ Products stored in proper containers that are in good condition
- ☐ Storage Building floor swept
- ☐ Tires stored inside
- ☐ Batteries stored in single layer on secondary containment pallet away from elements
- ☐ Landscape product properly labeled
- ☐ Salt not escaping from storage area entry point
- ☐ Healthy vegetation adjacent to paved surfaces
- ☐ Facility generally organized and clean
- ☐ Trash and salvage are in refuse containment

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2025 PSATS Stormwater/MS4 Virtual Conference

November 13, 2025

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Economic Stewardship

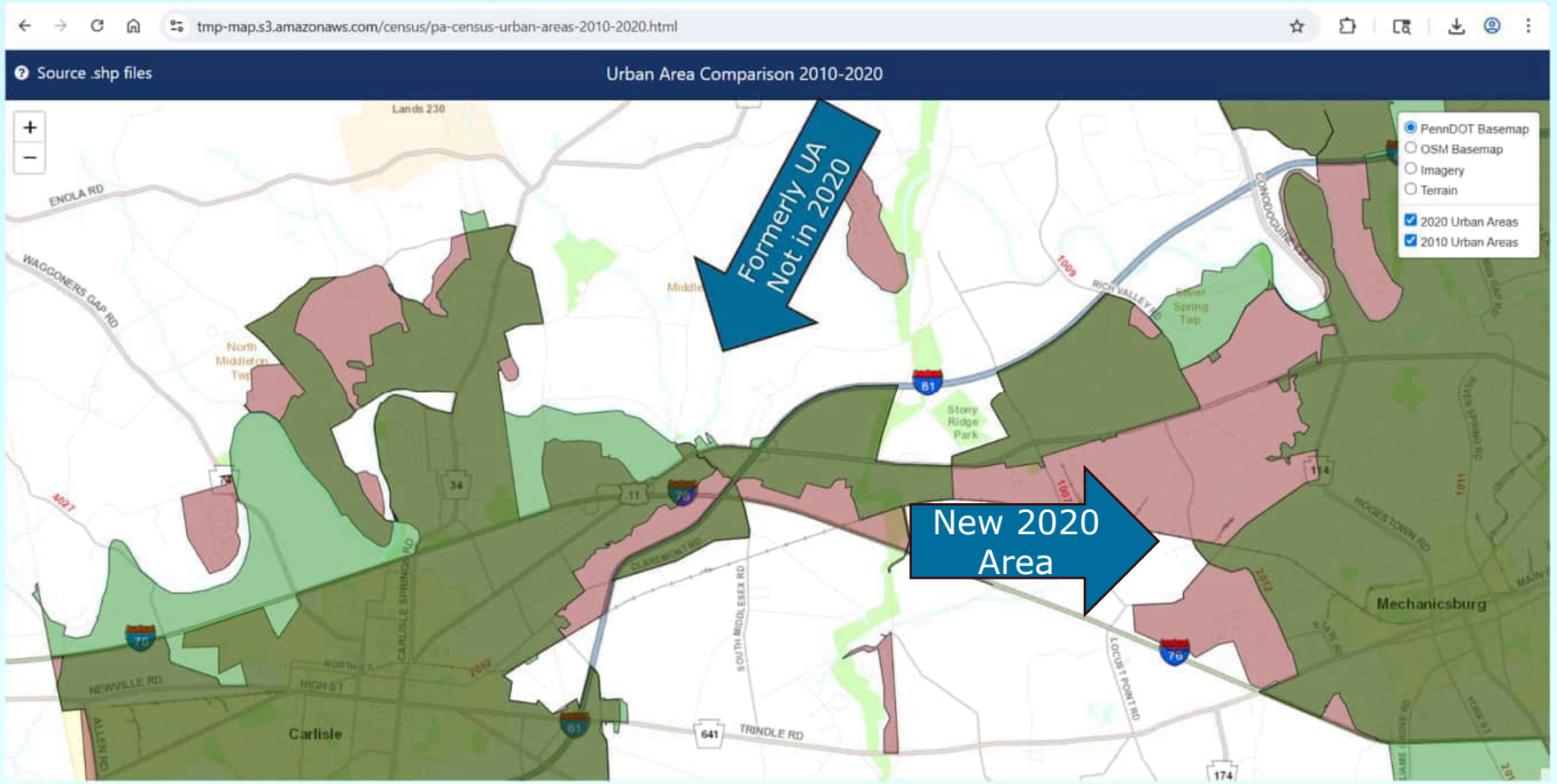
- Use Already completed analytics
  - Concepts developed for PRP
  - Completed watershed study that identified problem segments of Letort Spring Run
- Select sites without acquisition costs
  - Mostly municipally owned sites
- Piggyback stormwater with other required construction
  - Selected sites with other deficiencies like flooding and damaged infrastructure
- Seek Grant Funding
  - Grant 1: Mariner Pipeline II Grant $631,600
- Be a Little Red Hen!
  - Outreach, Construction, and Plant Establishment- Township Maintenance Staff
  - As-needed Professional Services – Consultant



Presentation Highlights

- Economic Stewardship
- Upcoming Permit Requirements
- Funding New Stormwater Control Measures





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Looking Ahead

2026 Deliverables

- Pollutant Reduction Plan Project 8
- Spill Incident Response Form
- Privately-owned Stormwater Control Measure Operation & Maintenance documentation
- Outfall inspections
- MS4 Annual Report



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

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT
FOR THE PERIOD July 1, 2024 TO JUNE 30, 2025

GENERAL INFORMATION			
Permittee Name:	Middlesex Township Cumberland County	NPDES Permit No.:	PAI133526
Mailing Address:	350 N Middlesex Road	Effective Date:	August 1, 2023
City, State, Zip:	Carlisle, PA 17013	Expiration Date:	July 31, 2028
MS4 Contact Person:	Eileen Gault	Renewal Due Date:	February 2, 2028
Title:	Township Manager	Municipality:	Middlesex Township
Phone:	717-249-4409	County:	Cumberland
Email:	egault@middlesextwp.com		
Co-Permittees (if applicable):			

Appendix(ces) that permittee is subject to (select all that apply):

☐ Appendix A ☒ Appendix B ☐ Appendix C ☒ Appendix D ☒ Appendix E ☐ Appendix F

WATER QUALITY INFORMATION

Are there any discharges to waters within the Chesapeake Bay Watershed? ☒ Yes ☐ 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?
Conodoguinet Creek	WWF	No		Yes	No
Conodoguinet Creek Tributary (Reach 63)	CWF	No		Yes	No
Conodoguinet Creek Tributary (Reach 69)	CWF	No		Yes	No
Conodoguinet Creek Tributary (Reach 44)	CWF	No		Yes	No
Hogestown Run	CWF	Yes	Siltation; Organic Enrichment/Low D.O. Pathogens	Yes	No
Hogestown Run Tributary (Reach 99)	CWF	Yes	Siltation; Organic Enrichment/Low D.O. Pathogens	Yes	No
Letort Spring Run	HQ-CWF	No		Yes	No
Letort Spring Run Tributary (Reach 21)	HQ-CWF	No		No	No
Wertz Run	WWF	Yes	Siltation	Yes	No
Wertz Run Tributary (Reach 22)	WWF	No		Yes	No
Wertz Run Tributary (Reach 13)	WWF	No		Yes	No

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Question & Answer

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1e - Municipal Separate Storm Sewer System (MS4) Stormwater Management Program (SWMP)



Middlesex Township

Cumberland County, Pennsylvania

June 2026

Municipal Separate Storm Sewer System (MS4) Stormwater Management Program (SWMP)

SWMP Overview



Clean water is fundamental to the health, environmental quality, and economic vitality of Middlesex Township. Managing stormwater runoff from developed areas is an important component of protecting local waterways from pollutants that can be transported by rainwater flowing across roads, parking lots, rooftops, and other impervious surfaces.

Middlesex Township in Cumberland County, Pennsylvania is committed to responsible environmental stewardship and the protection of its water resources. In support of this commitment, the Township maintains and implements a Stormwater Management Program (SWMP) in accordance with its Municipal Separate Storm Sewer System (MS4) Permit issued by the Pennsylvania Department of Environmental Protection (PA DEP). The Township's original MS4 Permit became effective on July 31, 2018, and was renewed effective August 1, 2023. The permit establishes the framework through which the Township manages stormwater discharges from its regulated MS4 area and works to improve water quality throughout the community.

Although much of Middlesex Township remains rural and suburban in character, the municipality includes a highly developed transportation and commercial corridor formed by Interstate 76 (Pennsylvania Turnpike), Interstate 81, and U.S. Route 11. This area, along with other developed portions of the Township, contributes stormwater runoff to local waterways including Conodoguinet Creek, Letort Spring Run, Wertz Run, and Hogestown Run. Protection of these waterways is a primary objective of the Township's stormwater management efforts.

The MS4 Permit is intended to reduce pollutant discharges to the maximum extent practicable, eliminate illicit discharges and connections, and protect and improve surface water quality in accordance with the federal Clean Water Act and Pennsylvania's Clean Streams Law. To achieve these goals, permittees are required to develop, implement, and maintain a comprehensive Stormwater Management Program organized around six Minimum Control Measures (MCMs). These measures address MCM 1 - public education and outreach, MCM 2 - public involvement and participation, MCM 3 - illicit discharge detection and elimination, MCM 4 - construction site stormwater runoff control, MCM 5 - post-construction stormwater management, and MCM 6 - pollution prevention and good housekeeping for municipal operations.

This SWMP serves as the Township's roadmap for compliance with its MS4 Permit. The SWMP identifies the Best Management Practices (BMPs), implementation schedules, responsible parties, measurable goals, and performance metrics that will be used to satisfy the requirements of each MCM. Together, these activities provide a systematic approach for reducing pollutants in stormwater runoff, maintaining regulatory compliance, and promoting the long-term protection of the Township's water resources.

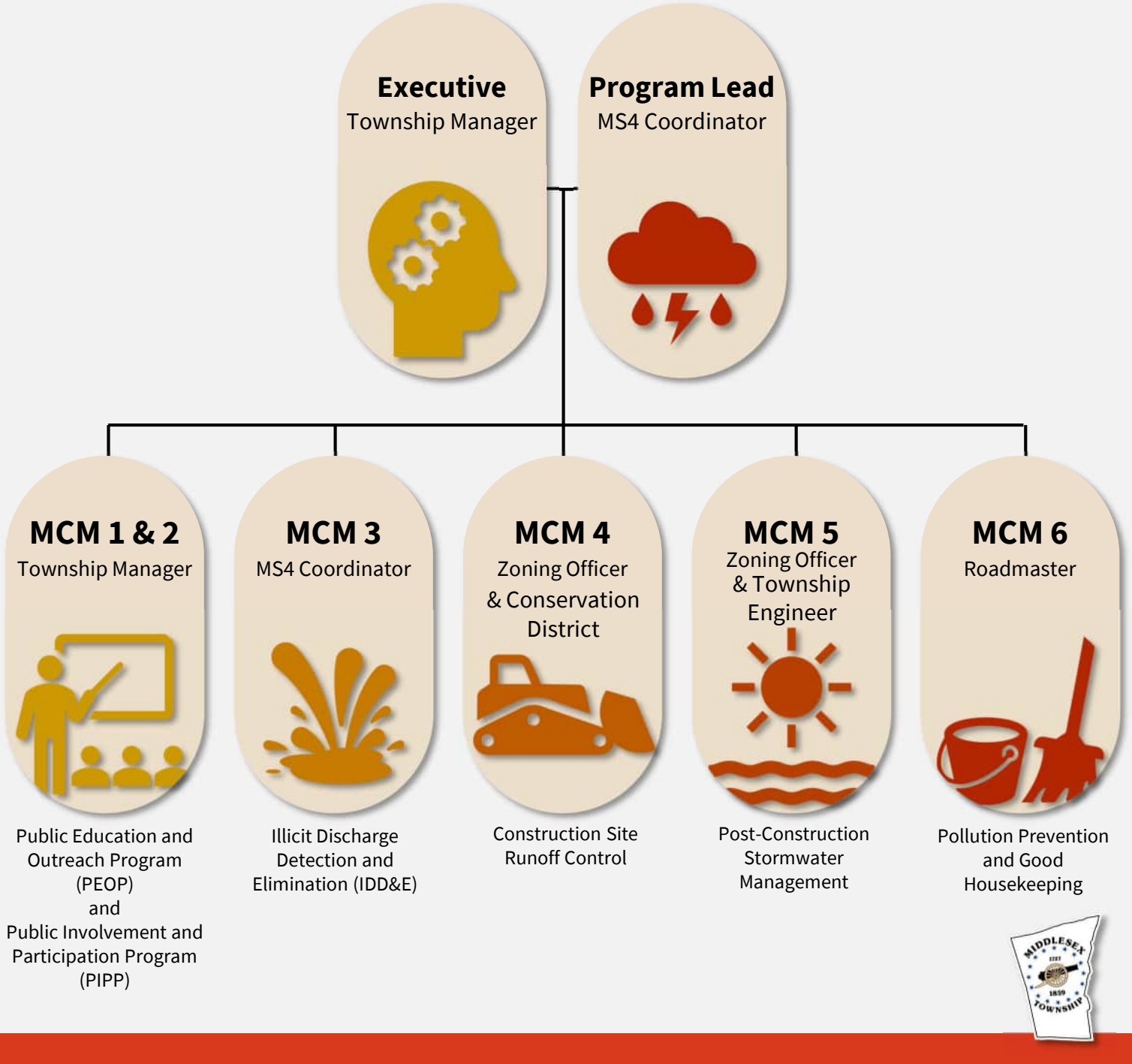
Progress toward achieving these objectives will be documented through ongoing program implementation, monitoring, recordkeeping, and annual reporting. Through continued execution of this SWMP, Middlesex Township demonstrates its commitment to environmental stewardship, regulatory compliance, and the preservation of clean and healthy waterways for current and future generations.

Middlesex Township MS4 SWMP

Program Structure

Directed By: Middlesex Township Manager and Middlesex Township MS4 Coordinator

Middlesex Township's SWMP requires participation of the entire Middlesex Township staff. However, there are several key positions that spearhead compliance and compliance documentation for each of the MCMs (listed below). The leadership relies on performance of staff and reporting and pollution reduction efforts of Township residents, businesses and site developers.



MCM 1 and 2 – Public Education and Outreach & Public Involvement and Participation

Goal/Purpose: An informed and knowledgeable community is instrumental to the success of a comprehensive stormwater management program. As the community understands the need for and importance of stormwater management, they become aware of how their responsibilities and actions can help protect and improve the waters of Middlesex Township and the greater Chesapeake Bay Watershed.

The overarching goals for this program are:

- Education: provide information regarding pollution in stormwater runoff and its effects on surface waters.
- Participation: provide opportunities for the public to collaborate in stormwater pollution reduction.

Programs: Combined Public Education and Outreach Program/Public Involvement and Participation Program (PEOP /PIPP)

Overview: The Middlesex municipal staff, headed by the Township Manager and assisted by the MS4 Coordinator, administrative staff, and Township consultant, are responsible for the development and implementation of MCMs 1 and 2.

The Township implements the Combined PEOP/PIPP by providing educational and public participation opportunities, including routine and specialized training for municipal staff, distribution of educational materials and newsletters, website updates, announcements for Bulk Waste Collection Days and Household Hazardous Waste Collection Days, stormwater discussions during Board of Supervisors meetings, and responses to stormwater complaints.

Participants: There are three key groups that engage in education and participation opportunities:

- Municipal employees and Municipal Boards and Committees: As staff administer the MS4 Permit, it is imperative that they are knowledgeable about stormwater management, illicit discharges, and pollution reduction.
- Residents: Residents are directly impacted by policy changes and associated fiscal responsibilities. By understanding the context and benefits of pollution reduction, residents can advocate for and participate in the continued success of the program.
- Businesses: The Township hosts several businesses such as trucking-affiliated businesses, corporate headquarters, agri-businesses, and recreational facilities. It is essential to educate this community to gain support of the Township programs and to encourage practices that reduce stormwater pollution.



Documentation: Documentation maintained to support MCM 1 implementation includes:

- Newsletters
- Website
- Flyers
- Presentation content
- Board of Supervisors meeting minutes

Metrics:

- Number of newsletters distributed
- Number of flyers distributed
- Number of website updates
- Number of staff training sessions conducted and participant attendance
- Number of stormwater-related discussions at public meetings
- Number of stormwater complaints received and addressed

MCM 3 - Illicit Discharge Detection and Elimination (IDD&E)



Goal/Purpose: The purpose of the Illicit Discharge Detection and Elimination (IDD&E) Program is to find, correct, and prevent contaminated stormwater discharges from entering the Township's storm sewer system.

Programs: Illicit Discharge Detection and Elimination

Overview: The IDD&E Program has several components that support the elimination of pollutant discharges.

The Middlesex Township Stormwater Ordinance establishes enforcement authority to protect water quality by prohibiting non-stormwater discharges to the stormwater system.

The Township maintains a database of storm sewer system maps and inspects outfalls at least once during a five-year permit term. An outfall with a confirmed illicit discharge is classified as a priority outfall and will be inspected more frequently.

Dry weather screenings are performed by the Township's professional consultants, with the assistance of the Township's Highway Department staff, to identify potential illicit discharges.

Township staff investigates and pursues remedies for illicit discharges reported by municipal residents and businesses or observed by Township personnel.

If an illicit discharge is a toxic substance, the Township notifies Pennsylvania Department of Environmental Protection (PA DEP) and, when reasonably possible, downstream users of the affected waters. If an illicit discharge does not originate within the Township boundary, the adjacent municipality/MS4 is notified.

Municipal staff participates in educational programs and trainings that emphasize their responsibilities in identifying and preventing potential illicit discharges.

The Township continues to encourage residents and businesses to report any unusual fluids entering or discharging from the storm sewer system.

Participants: Township staff carry out the tasks of the program, with assistance from:

- Municipal residents
- Businesses
- Professional consultants
- Adjacent municipalities
- First responders

Documentation: Documentation maintained to support MCM 3 implementation includes:

- IDD&E Manual
- MS4 outfall mapping
- Dry weather screening reports
- Complaint and investigation logs with corrective action reports
- Employee training records

Metrics:

- Number of outfalls screened
- Number of potential illicit discharges identified
- Number of public complaints received
- Number of investigations conducted
- Number of illicit discharges eliminated
- Number of corrective actions completed

MCM 4 – Construction Site Stormwater Runoff Control



Goal/Purpose: The primary goal of this Minimum Control Measure (MCM) is to prevent and minimize sediment pollution and other construction-related pollutants from entering the Municipal Separate Storm Sewer System (MS4) and receiving waters as a result of earth disturbance activities within Middlesex Township.

Programs: Construction Stormwater Inspections

Overview: Middlesex Township and the Cumberland County Conservation District (CCCD) maintain a Memorandum of Understanding (MOU) that establishes a cooperative approach to the implementation and enforcement of construction-related erosion and sediment (E&S) control requirements. Under this agreement, CCCD serves as the lead agency for the review and approval of E&S plans, site inspections, investigations, and enforcement actions associated with earth disturbance activities.

The Township supports these efforts through the administration and enforcement of its Subdivision and Land Development Ordinance (SALDO) and Stormwater Management Ordinance, both of which require the installation and maintenance of approved E&S Best Management Practices (BMPs) throughout construction activities. As part of the permitting process, the Township issues building permits and notifies CCCD whenever a proposed project involves earth disturbance activities exceeding one acre. The Township Engineer conducts construction-phase stormwater inspections on approved development projects to verify compliance with approved plans and permit requirements. The Township works collaboratively with CCCD to address non-compliance issues, investigate complaints, and respond to reports of sediment discharges or other pollutants associated with construction activities..

Participants:

- Middlesex Township
- Cumberland County Conservation District (CCCD)
- Township Engineer
- Developers, contractors, and property owners involved in construction projects
- Public stakeholders who report potential construction-related stormwater concerns

Documentation:

Documentation maintained to support MCM 4 implementation includes:

- Notifications provided by the Township to CCCD regarding qualifying earth disturbance activities
- Construction stormwater inspection reports prepared by the Township Engineer
- Correspondence related to compliance and enforcement actions
- Complaint records and investigation documentation, as applicable

Metrics:

- Number of construction-related stormwater complaints received
- Number of construction stormwater inspections conducted
- Number of compliance issues identified and addressed (when tracked by the Township)

MCM 5 - Post Construction Stormwater Management

Goal/Purpose: The primary goal of this Minimum Control Measure (MCM) is to ensure that Stormwater Control Measures (SCMs) are properly designed, constructed, operated, and maintained in accordance with the Township Stormwater Management Ordinance and applicable Chapter 102 regulations. Effective implementation of this measure helps control the discharge of stormwater runoff and associated pollutants from land disturbance, new development, and redevelopment projects that result in earth disturbance of one acre or more.

Programs:

- Township Stormwater Management Ordinance (Enacted 2011)
- SCM Inventory/GIS Database (Completed 2023)
- SCM Inventory and Database Updates (Initiated 2026)
- Long-Term Operations and Maintenance (O&M) Program (In Progress)

Overview: Middlesex Township administers and enforces its Stormwater Management Ordinance to ensure that post-construction stormwater management practices are designed, installed, and maintained in accordance with approved plans and applicable regulations. The ordinance establishes requirements for stormwater runoff management associated with land development and redevelopment projects and provides the framework for long-term SCM operation and maintenance.

To support program implementation, the Township completed an inventory and GIS database of known SCMs in 2023 and initiated updates in 2026 to improve inventory accuracy and support ongoing compliance efforts. As part of the long-term O&M program, the Township is identifying and reviewing recorded plans for development and redevelopment projects that include SCMs constructed since 2003. Newly identified SCMs are incorporated into the inventory as necessary.

The Township is also compiling operation and maintenance requirements documented in recorded plans, agreements, and approvals to support municipal oversight and enforcement.

During implementation of the long-term O&M program, the Township conducts interim compliance activities through complaint investigations and staff observations of malfunctioning or poorly maintained SCMs. Additional education and ordinance enhancements may be used to clarify owner responsibilities for inspections, maintenance, and record keeping.



These efforts help ensure that SCMs continue to function as designed, protecting water quality and reducing stormwater impacts throughout the Township.

Participants: Implementation of MCM 5 involves coordination among:

- Middlesex Township leadership and staff
- Township Engineer and design consultants
- Land developers and property owners
- Construction and maintenance contractors
- Third-party inspectors and maintenance providers
- Residents and stakeholders who report stormwater concerns.

Documentation: Documentation maintained to support MCM 5 implementation includes:

- Township Stormwater Management Ordinance
- SCM inventory and GIS database
- Recorded stormwater management plans and agreements
- SCM inspection and condition assessment reports
- Maintenance and corrective action records
- Complaint and investigation records

Metrics:

- Number of SCMs inventoried
- Number of SCM inspections conducted with deficiencies or functionality assessments
- Number of stormwater-related complaints investigated

MCM 6 – Pollution Prevention and Good Housekeeping

Goal/Purpose: The primary goal of this Minimum Control Measure (MCM) is to prevent and reduce stormwater pollution associated with municipal operations by ensuring that effective pollution prevention and good housekeeping practices are implemented throughout Township activities. Through employee training, routine maintenance, and adherence to established procedures, Middlesex Township seeks to minimize the discharge of pollutants to the Municipal Separate Storm Sewer System (MS4) and local waterways.

Programs:

- Municipal Employee Training Program
- Anderson Park Maintenance Program

Overview: Middlesex Township is committed to reducing pollutant discharges from municipal operations through proactive pollution prevention practices, routine maintenance activities, and employee education. The Township provides leadership in implementing and enforcing good housekeeping measures and, when necessary, utilizes the expertise of the Township engineering consultant to support training and program development.

Township employees whose duties may impact stormwater quality receive training appropriate to their responsibilities. Training topics include pollution prevention, good housekeeping practices, spill prevention and response, stormwater awareness, and proper maintenance techniques. Highway Department personnel routinely participate in training programs, attend seminars and workshops offered by outside agencies, and are encouraged to obtain certifications relevant to stormwater management and municipal operations.

Highway Department staff perform routine maintenance activities throughout the Township with special attention given to protecting stormwater quality. Municipal operations are conducted in accordance with established Standard Operating Procedures designed to reduce the potential for pollutant exposure and discharge.

Within the regulated MS4 area, Anderson Park is the Township's only municipally owned property apart from public road rights-of-way. Township staff continue to maintain the park in accordance with established procedures, including the management of trash, pet waste, and vegetation. These activities help reduce the potential for pollutants to enter the storm sewer system and support the Township's overall stormwater quality goals.

Participants: Implementation of MCM 6 involves the participation of:

- Highway Department personnel
- Township engineering consultant, as needed

Documentation: Documentation maintained to support MCM 6 implementation includes:

- Standard Operating Procedures (SOPs)
- Employee training materials and attendance records
- Highway Department work logs
- Anderson Park maintenance logs
- Municipal operations and maintenance records

Metrics:

- Number of employee training sessions conducted with attendance records
- Completion of routine municipal maintenance activities
- Consistency of maintenance activities performed in accordance with SOPs
- Number of pollution prevention or good housekeeping issues identified and addressed
- Continued implementation of maintenance activities that support stormwater quality protection



MCM #2 – PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM (PIPP) ATTACHMENTS

2a - Board of Supervisor Meetings with MS4-Stormwater Discussion Summary

2a - Board of Supervisor Meetings with MS4-Stormwater Discussion Summary
July 1, 2025, to June 30, 2026

Meeting Date	MS4/Stormwater Activity Discussed[1]
7/2/2025	(1) MS4 Coordinator reported that staff started working with Skelly and Loy to complete annual reporting for MS4, due in September. (*MS4 annual reporting requirement compliance*) (2) MS4 Coordinator and Township Engineer inspected some of the basins along Harrisburg Pike in the township. (*Ongoing inspections and maintenance are foundational to MCM 6*)
8/6/2025	(1) The Township received notice from Skelly and Loy that the bid package for Stream Restoration Project on Wolfs Bridge Road is substantially completed. (*MS4 Pollution Reduction Project*) (2) Roadmaster reported that the Highway Crew started Project 4 at the intersection of Wolfs Bridge and W. Middlesex Drive, putting in pipes and inlets. (*MS4 Pollution Reduction Project*)
9/3/2025	Township Roadmaster reported that work is ongoing for the completion of the Wolfs Bridge Road MS4 Project, and has taken up most of the month. (*MS4 Pollution Reduction Project*)
9/26/2025	(1) As part of the Preliminary/Final Land Development Plan for the Cumberland Knoll-PPL Laydown at Project Bolt Data Center, waivers and modifications were approved for the following sections of the Middlesex Township Stormwater Management Ordinance No. 6-2011 (SWMO), subject to a written request and justification for each waiver, along with listing the waivers on the plan set. 1. [SWMO 303.B.2.] - Use of Evapotranspiration as a BMP alternative for stormwater infiltration. 2. [SWMO 303.J.3] - Allowing use of existing stormwater basin with steeper side slopes of 3 units horizontal to 1 unit vertical. 3. [SWMO 303.J.4] - Allowing use of existing stormwater basin with a pipe invert at same elevation as the basin floor, as opposed to a minimum of 6 inches higher than basin floor. 4. [SWMO 303.K.9] - Use of stormwater drainage swales with a grade of less than 2%, approved subject to the Stormwater Operation and Maintenance Plan being modified to address maintenance requirements for sedimentation removal in swales. (*MS4 MCM 5*) (2) Regarding the Preliminary/Final Land Development plan for a building expansion for Carlisle Sports Emporium, owners requested Township Engineer to issue a letter of consistency to the Cumberland County Conservation District indicating that the stormwater designs are consistent with the Middlesex Township Stormwater Management Ordinance. (*MS4 MCM 5*) (3) For PRP Project 8 - Unnamed Tributary to Wertz Run Stream Restoration Project, the Township selected and intend to award the project to the successful bidder. (*MS4 Pollution Reduction Project*)
10/1/2025	Township Roadmaster reported that staff is still working on Wolfs Bridge Road Project 4, finishing some of the soil work and seeding, and the Stream Restoration Project contracts are almost completed. Staff continue to work on MS4 projects. (*MS4 Pollution Reduction Project*)
10/31/2025	(1) A waiver of requirement for a Stormwater Management Plan was approved for an Amazon truck yard improvement project. Amazon made minor changes to a parking facility where the impervious area is less than 5,000 square feet, which allows for exemption from the Stormwater Management Plan. (*MS4 MCM 5*) (2) A storm sewer line on Redwood Lane was completed and paving has begun. (*Ongoing Operation and Maintenance is foundational to MS4 MCM 6 compliance.*)
11/5/2025	(1) The Township received the first installment from Cumberland County for the grant previously applied for. (*Funding for MS4 Pollution Reduction Project*) (2) Township MS4 Coordinator reported that with paving on Redwood Lane completed, the water runoff onto Bernheisel Bridge Road should be resolved. (*Ongoing Operation and Maintenance is foundational to MS4 MCM 6 compliance.*)

2a - Board of Supervisor Meetings with MS4-Stormwater Discussion Summary
July 1, 2025, to June 30, 2026

Meeting Date	MS4/Stormwater Activity Discussed[1]
12/3/2025	(1) Township Roadmaster reported that there is a project in Wolfs Bridge road in progress. (*MS4 Pollution Reduction Project*) (2) MS4 Coordinator attended a contractor meeting requested by DEP, but DEP representatives were not present. Skelly and Loy representatives explained the project to the contractors who are knowledgeable. A meeting is scheduled with Skelly and Loy to discuss new MS4 requirements and to review the training and mock housekeeping inspection performed. (*MS4 MCM 6*) (3) Township approved a waiver request for a Stormwater Management Plan requirement (under Township Ordinance No. 6-2011) for a high tunnel structure for agricultural use. State law allows exemption for a high tunnel structure like this if it meets certain criteria. (*MS4 MCM 5*) (4) On the Preliminary / Final Land Development Plan for the Carlisle Sports Emporium Building Expansion, the Township agreed to the following waivers of the sections of the Middlesex Township Stormwater Management Ordinance No. 6-2011 (SWMO), and Subdivision and Land Development Ordinance No. 8-2017 (SALDO), subject to a written request and justification for each waiver, along with listing the waivers on the plan set. 1. SALDO Section 719.C.16.f: No more than 25 parking spaces should be placed in a row without an intervening landscape island of at least 10 feet in width. 2. SALDO Section 719.C.16.f: 10% of gross parking lot area must be devoted to interior landscaping. 3. SWMO Section 303.B.2: Requirement to provide infiltration of surface water runoff as the primary method of stormwater management. 4. SWMO Section 303.H.18: Infiltration within 48 hours. (*MS4 MCM 5*)
12/19/2025	A Stormwater Management Plan was approved for the construction of a new home, subject to the applicant satisfying all comments and conditions of the Township Engineer. (*MS4 MCM 5*)
1/5/2026	(1) MS4 Coordinator reports continued work on the stream restoration project on Wolfs Bridge Road. (*MS4 Pollution Reduction Project*) (2) The redevelopment of the existing Rise Cannabis Dispensary has been approved for a waiver under the Middlesex Township Stormwater Management Ordinance No. 6-2011 (SWMO). 1. SWMO 303 A. Modification from requirement to comply with the criteria for permanent stormwater management design due to the proposed development meeting exemption criteria as noted in SWMO 106.A. (*MS4 MCM 5*)
1/30/2026	Skelly and Loy will be presenting a review of the Annual MS4 Permit at the next Board of Supervisors Meeting. (*MS4 compliance assistance*)
2/4/2026	(1) Skelly and Loy gave a presentation that included a review of the MS4 stormwater management program, update on the annual report, and an update on the pollutant reduction plan projects and completed training and outreach. (*MS4 compliance assistance*) (2) Regarding concerns for the Chesapeake Bay watershed and proposed data center, Township Engineer informed residents that state stormwater regulations are implemented at the local level. Local stormwater compliance and review of NPDES construction permits are administered by the Cumberland County Conservation District. (*Informing residents of local regulations that support MS4 MCM 3 through prevention of illicit discharges*)
2/4/2026	(3) A resident, whose property directly abuts the proposed data center, raised concerns about the planned placement of a stormwater retention pond adjacent to her home. (*Residents having an avenue to express complaints is a key principle of MS4 MCM 2*)

2a - Board of Supervisor Meetings with MS4-Stormwater Discussion Summary
July 1, 2025, to June 30, 2026

Meeting Date	MS4/Stormwater Activity Discussed[1]
2/27/2026	(1) A resubmitted residential stormwater management plan was approved. The lot existed in the 1980s, and sewage planning approval has already been completed; the stormwater facility is a required component of the residential development process. (*MS4 MCM 5*) (2) For the Preliminary/ Final Land Development Plan for Saia Trailer Storage lot, Township approved a waiver under the Middlesex Township Stormwater Management Ordinance No. 6-2011 (SWMO), subject to providing a written request and justification for the waiver and listing the waiver on the plan set. 1. SWMO 303.B.2 - Modification from requirement for infiltration of Stormwater, to allow alternative Stormwater Best Management Practice using Manage Release Rate Concept design. (*MS4 MCM 5*)
3/4/2026	(1) MS4 Coordinator reported that PRP Project 8 - Unnamed Tributary to Wertz Run Stream Restoration Project - is near completion. Some cleanup work remains, and invoices are being submitted to the DEP Growing Greener program for grant reimbursement. (*MS4 Pollution Reduction Project*) (2) Township Engineer reported that for the Major Land Development Plan for Pine Hill Industrial Park Lot 3, all required inspections were completed, as-built drawings reviewed, and stormwater operations and maintenance plan and agreement found to be in order. (*MS4 MCM 5*) (3) An overview of the Preliminary Land Development Plan for Pennsylvania Digital 1 (PAX 1) Data Center Phase 1-A was presented by the representatives of the developer. 1. No direct stormwater discharge to the creek, and the project will include environmental enhancements to the creek and surrounding undeveloped land. 2. Stormwater facilities to include: underground chambers designed to capture runoff, underdrains and media filters, basins designed to control rate and timing of stormwater and will dewater within three days. 3. Due to site geology that limits natural infiltration, stormwater will move laterally in a controlled manner toward the creek. 4. Plan proposes grading to shed stormwater away from the roadway, into vegetated areas. 5. Developer will maintain all stormwater facilities in accordance with the approved Stormwater Management Plan, which includes a formal operations and maintenance plan. (*MS4 MCM 3 and MCM 5*) (4) For the Preliminary/ Final Land Development Plan for PAX 1 Data Center Phase 1-A, Township approved a waiver under the Middlesex Township Stormwater Management Ordinance No. 6-2011 (SWMO), subject to providing a written request and justification for the waiver and listing the waiver on the plan set. 1. SWMO 303.J.3 - Modification of requirement for stormwater detention basin side slopes to not be steeper than 4 units horizontal to 1 unit vertical, and for stormwater detention basin bottom slopes not to be less than 2%. 2. SWMO 303.K.9 - Modification of requirement for stormwater drainage swales at a minimum grade of 2%. 3. SWMO 303.H.17, SWMO 303.H.18 - Modification of requirement for all stormwater infiltration practices to infiltrate the stored volume within 48 hours. 4. SWMO 303.B.2 - Modification of requirement for infiltration of surface water runoff at its source as the primary mechanism for stormwater management. (*MS4 MCM 5*)
4/1/2026	Township Manager and MS4 Coordinator met with Skelly and Loy to review progress on the stream restoration project; the project has reached substantial completion. The remaining items on the punch list will be addressed when weather conditions improve. (*MS4 Pollution Reduction Project*) Additional coordination is underway to compile information for the annual report. (*MS4 annual reporting compliance*)
5/6/2026	(1) MS4 Coordinator reported that a complaint was received from DEP regarding County Manor's swimming pool, alleging chlorinated water being discharged into Conodoguinet Creek. Investigation showed that pool was closed and did not contain chlorinated water at the time. To prepare for reopening for the summer season, pool was being pumped and water was discharging into a meadow area and was seeping into the ground. (*Investigation after a complaint, a compliance strategy for MS4 MCM 3*)

2a - Board of Supervisor Meetings with MS4-Stormwater Discussion Summary
July 1, 2025, to June 30, 2026

Meeting Date	MS4/Stormwater Activity Discussed[1]
5/6/2026	(2) Regarding the Preliminary Land Development Plan for PAX 1 Data Center, a representative of the developer stated: 1. Phase 1A and 1B will have appropriate stormwater management facilities. 2. No water will be withdrawn from or discharged into Conodoguinet Creek, and water treatment and discharge would be monitored through the municipal water and sewer systems. (*MS4 MCM 3 and 5*) (3) A resident requested confirmation that all required permits and regulatory reviews, including stormwater management and environmental protection, are fully completed and clearly communicated. Another resident questioned assumptions regarding stormwater management, referencing the site's geology and the presence of shallow bedrock, and was skeptical that retention ponds would drain as projected. (*Residents having an avenue to express complaints is a key principle of MS4 MCM 2*) (4) For the Preliminary/ Final Land Development Plan for PAX 1 Data Center Phase 1-B, Township approved a waiver under the Middlesex Township Stormwater Management Ordinance No. 6-2011 (SWMO), subject to providing a written request and justification for the waiver and listing the waiver on the plan set. 1. SWMO 302.A.13 - Deferral until final plan or requirements to provide construction details for stormwater inlets. 2. SWMO 302.H.12 - Deferral until final plan or requirements to provide Geotechnical Engineer certification of stormwater management Managed Released Concept (MRC) design. 3. SWMO 303.J.3 - Modification of requirement for stormwater detention basin side slopes to not be steeper than 4 units horizontal to 1 unit vertical, and for stormwater detention basin bottom slopes not to be less than 2%. 4. SWMO 303.K.9 - Modification of requirement for stormwater drainage swales at a minimum grade of 2%. 5. SWMO 303.H.17, SWMO 303.H.18 - Modification of requirement for all stormwater infiltration practices to infiltrate the stored volume within 48 hours. 6. SWMO 303.B.2 - Modification of requirement for infiltration of surface water runoff at its source as the primary mechanism for stormwater management. (*MS4 MCM 5*)
6/3/2026	(1) MS4 Coordinator reported that the stream restoration project is substantially complete, with all punch list items addressed. Final inspection will occur once recently installed plantings and grass seeding have been established. (*MS4 Pollution Reduction Project*) (2) The township approved a waiver of Stormwater Ordinance No. 6-2011 for Cumberland County Facilities Management for a proposed gravel walking trail on county property along Claremont Rd. Township staff reviewed the proposal and reported that the trail would have minimal stormwater impact due to its limited width, gravel surface, and location throughout a largely grassed 25-acre site. (*MS4 MCM 5*)
6/26/2026	Regarding site improvements for Jack Williams Land Development, Township Engineer stated that outstanding work involves repairs to the landscaped parking lot islands and stabilization measures to prevent erosion and sediment runoff into the stormwater basins. Engineer noted that stormwater basins have already been cleaned and restored, and that a site reinspection will be performed to verify landscaping conditions. (*MS4 MCM 5*)

1. Copies of meeting minutes are available upon request.
2. *Blue italicized text* is not explicitly stated in the minutes; it is added to clarify how the discussion item is relevant to the MS4 topic.

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

3a - Illicit Discharge Detection & Elimination Program (IDDE) – Revised June 2026

MIDDLESEX TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

Illicit Discharge Detection & Elimination Program
(IDD&E)

Revised June 2026

MIDDLESEX TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

Illicit Discharge Detection & Elimination Program (IDD&E)

Revised June 30, 2026

Prepared for:

Middlesex Township
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REVISIONS LIST

Revision #	Page #	Section	Modification Description	Date
1		General	Grammar and rephrasing edits throughout.	6/30/2026
2		Cover	Updated date.	6/30/2026
3		Title Page	Updated date and consultant name.	6/30/2026
4	1 & 2	1.2 Exceptions	Updated the designation of PA DEP as an EPA-designated agency to accurately reflect its role as the permitting authority for non-stormwater discharge categories. Updated list of non-stormwater discharge categories to reflect what is in the current Middlesex Township MS4 permit	6/30/2026

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APPENDICES

Appendix A: Middlesex Township Cumberland County Ordinance No. 6 – 2011, Article VII and VIII *(Amending the Subdivision and Land Development Ordinance and Adopting a Stormwater Management Ordinance)*

Appendix B: PA DEP MS4 Outfall Field Screening Report (OFS)

Appendix C: Guide to Indicators and Monitoring Methods

ACRONYMS

CFR - Code of Federal Regulations

EPA - U.S. Environmental Protection Agency

IDD&E - Illicit Discharge Detection and Elimination

MS4 - Municipal Separate Storm Sewer System

OFS - Outfall Field Screening

PA DEP - Pennsylvania Department of Environmental Protection

SWM - Stormwater Management

DEFINITIONS (excerpted from Middlesex Township MS4 Permit)

Clean Water Act (CWA) means the Federal Water Pollution Control Act, as amended, 33 U.S.C.A. §§ 1251 - 1387.

Dry Weather means a condition in which there are no precipitation, snowmelt, drainage or other events producing a stormwater discharge for more than 48 consecutive hours.

Illicit Connection means any physical connection to a municipal separate storm sewer system that can convey illicit discharges into the system and/or is not authorized or permitted by the permittee.

Illicit Discharge means any discharge to a municipal separate storm sewer that is not composed entirely of stormwater, except non-stormwater discharges as described in the "Discharges Authorized by this Permit" section of this Permit. Examples of illicit discharges include dumping of motor vehicle fluids, household hazardous waste, grass clippings, leaf litter, animal wastes, or unauthorized discharges of sewage, industrial waste, restaurant wastes, or any other non-stormwater waste into a municipal separate storm sewer system. Illicit discharges can be accidental or intentional.

Municipal separate storm sewer means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains): (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters; (ii) Designed or used for collecting or conveying stormwater; (iii) Which is not a combined sewer; and (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.26(b)(8))

Municipal Separate Storm Sewer System (MS4) means all separate storm sewers that are defined as "large" or "medium" or "small" municipal separate storm sewer systems pursuant to 40 CFR §§ 122.26(b)(4), (b)(7), and (b)(16), respectively, or designated under 40 CFR § 122.26(a)(1)(v). (25 Pa. Code § 92a.32(a) and 40 CFR §122.26(b)(18))

Municipality means a city, town, borough, county, township, school district, institution, authority or other public body created by or pursuant to State Jaw and having jurisdiction over disposal of sewage, industrial waste or other wastes. (25 Pa. Code § 92a.2)

New Permittee means any entity that has been designated as a regulated small MS4 and has not previously obtained permit coverage under the PAG-13 General Permit or obtained an Individual NPDES MS4 Permit.

Observation point means a location upstream of an outfall where a permittee must conduct dry weather screening in accordance with Part C 1.8.3.d of this permit if the permittee determines that screening at an outfall is infeasible, and the point at which stormwater discharges to storm sewers owned or operated by an adjoining municipality where dry weather screening must be conducted.

Ordinance means a law enacted by the government of a municipality.

Outfall means a point source as defined by 40 CFR § 122.2 at the point where a municipal separate storm sewer discharges to surface waters and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream or other surface waters and are used to convey surface waters. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.26(b)(9))

Owner or Operator means the owner or operator of any "facility" or "activity" subject to regulation under the NPDES program. (25 Pa. Code § 92a.3(b)(1) and 40 CFR § 122.2)

Permittee means the owner or operator of a regulated small MS4 authorized to discharge under the terms of this permit.

Point Source means a discernible, confined, and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, Concentrated Aquatic Animal Production Facility (CAAP), Concentrated Animal Feeding Operation (CAFO), landfill leachate collection system, or vessel or other floating craft from which pollutants are or may be discharged. (25 Pa. Code § 92a.2)

Pollutant means any contaminant or other alteration of the physical, chemical, biological, or radiological integrity of surface water which causes or has the potential to cause pollution as defined in section 1 of the Pennsylvania Clean Streams Law, 35 P.S. § 691.1. (25 Pa. Code § 92a.2)

Regulated Small MS4 means any small MS4 that is covered by the federal Phase II stormwater program, either through automatic nationwide designation under 40 CFR § 122.32(a)(1) (via the Urbanized Area criteria) or by designation on a case-by-case basis by DEP pursuant to 40 CFR § 122.32(a)(2). "Regulated small MS4s" are a subset of "small MS4s" as defined in this section.

Riparian Forest Buffer means an area of permanent vegetation consisting of native trees, shrubs, forbs and grasses along surface water that is maintained in a natural state or sustainably managed to protect and enhance water quality, stabilize stream channels and banks, and buffer land use activities from surface waters.

Small Municipal Separate Storm Sewer System (Small MS4) means an MS4, as defined in this section, that is not a large or medium MS4 pursuant to 40 CFR §§ 122.26(b)(4) and 122.26(b)(7). The term small MS4 includes systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas, such as individual buildings. (25 Pa. Code § 92a.32(a) and 40 CFR§ 122.26(b)(16))

Stormwater means runoff from precipitation, snow melt runoff and surface runoff and drainage. "Stormwater" has the same meaning as "storm water." (25 Pa. Code § 92a.2)

Surface Waters means perennial and intermittent streams, rivers, lakes, reservoirs, ponds, wetlands, springs, natural seeps and estuaries, excluding water at facilities approved for wastewater treatment such as wastewater treatment impoundments, cooling water ponds and constructed wetlands used as part of a wastewater treatment process. (25 Pa. Code § 92a.2)

Total Maximum Daily Load (TMDL) means the sum of individual waste load allocations for point sources, load allocations for nonpoint sources and natural quality and a margin of safety expressed in terms of mass per time, toxicity or other appropriate measures. (25 Pa. Code § 96.1)

Urbanized Area (UA) means land area comprising one or more places (central place(s)) and the adjacent densely settled surrounding area (urban fringe) that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile, as defined by the United States Bureau of the Census and as determined by the latest available decennial census. The UA outlines the extent of automatically regulated areas.

1.0 BASIS FOR THE PROGRAM

Middlesex Township (Township) is undertaking the Illicit Discharge Detection and Elimination (IDD&E) Program for the Municipal Separate Storm Sewer System (MS4) as part of coverage under its National Pollutant Discharge Elimination System (NPDES) permit. The MS4 NPDES Permit applies only to urban runoff that flows through municipally owned and operated stormwater infrastructure with an identifiable concentrated discharge (outfall) to a surface water. The urbanized area is the portion of the Township that is located within the Urbanized Area boundaries as defined by the 2010 U.S. Census.

The regulated portion of the Township consists of the urbanized area and the contributory region upgradient of the urbanized area flowing to and through the Township's storm sewer system. The MS4 system consists of the municipally owned and operated stormwater conveyance network, including roads with drainage systems, municipal streets, and a series of stormwater management facilities, including inlets, pipes, swales, outfalls, catch basins, curbs, gutters, ditches, man-made channels, and storm drains that collect and convey stormwater from impervious areas and discharge them into various locations.

The Township is a 26-square-mile municipality in Cumberland County, Pennsylvania. It is located northeast of the Borough of Carlisle and approximately 16 miles west of the state's capital, Harrisburg. The northern border follows the ridgeline of the Blue Mountains that separate Cumberland and Perry Counties, and it is surrounded to the north by Carroll and Rye Townships, to the east by Silver Spring Township, to the south by South Middleton Township, and to the west by North Middleton Township. The regulated Township MS4 area includes 4.4 square miles of the municipality as shown by **Figure 1 - Middlesex Township Urbanized and MS4 regulated Areas**. The Township MS4 is subject to the IDD&E procedures outlined in this manual.

The various components include impervious surfaces that produce increased runoff. The runoff is collected and conveyed through the MS4 and ultimately makes its way to surface waterways. The IDD&E program is the strategies to find, correct, and prevent contaminated stormwater discharges to the waters of the U.S./Commonwealth from the MS4.

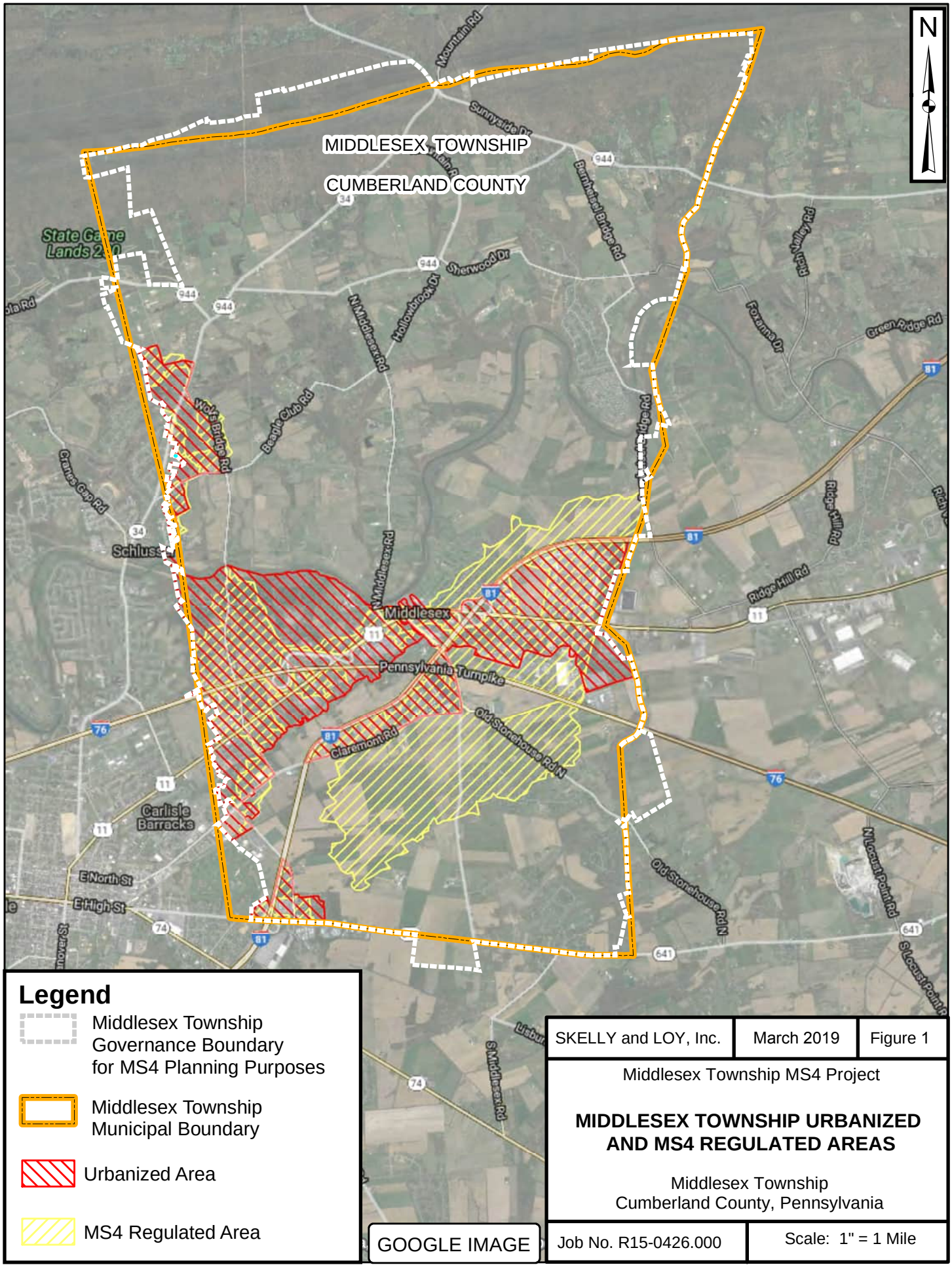
1.1 Enabling Legislation

This Program applies to monitoring discharges within the current MS4 area to comply with Pennsylvania's Chapter 92a *National Pollutant Discharge Elimination System (NPDES) Permitting, Monitoring and Compliance*, specifically regarding compliance with stormwater discharges (25 Pa. Code § 92a.32) and the Clean Water Act (CWA) *U.S. Code of Federal Regulations* (CFR). Title 40: Protection of Environment. Minimum Control Measure (MCM) #3 (40 CFR§ 122.34(b)(3)) explains the federal requirement for MS4 permit holders to identify and eradicate sources of stormwater-borne pollutants to U.S. surface waters as part of the permittee's Stormwater Management (SWM) Program.

1.2 Exceptions

Illicit discharges are any flows from the stormwater system that are non-stormwater, however, there are a few exceptions. PA DEP identifies the following categories of non-stormwater discharges that do not require elimination unless the Township designates them as significant contributors of pollutants. The categories include:

- Discharges or flows from firefighting activities
- Discharges from potable water sources including water line flushing and fire hydrant flushing, if such discharges do not contain detectable concentrations of Total Residual Chlorine (TRC)
- Non-contaminated irrigation water, water from lawn maintenance, landscape drainage and flows from riparian habitats and wetlands
- Diverted stream flows and springs
- Non-contaminated pumped ground water and water from foundation and footing drains and crawl space pumps
- Non-contaminated HVAC condensation and water from geothermal systems
- Residential (i.e., not commercial) vehicle wash water where cleaning agents are not utilized
- Non-contaminated hydrostatic test water discharges, if such discharges do not contain detectable concentrations of TRC



Legend

- Middlesex Township Governance Boundary for MS4 Planning Purposes
- Middlesex Township Municipal Boundary
- Urbanized Area
- MS4 Regulated Area

GOOGLE IMAGE

SKELLY and LOY, Inc.	March 2019	Figure 1

Middlesex Township MS4 Project

MIDDLESEX TOWNSHIP URBANIZED AND MS4 REGULATED AREAS

Middlesex Township
Cumberland County, Pennsylvania

Job No. R15-0426.000	Scale: 1" = 1 Mile

1.3 Required Program Components:

Per Middlesex Township's MS4 permit, Best Management Practice (BMP) #1 under Minimum Control Measure (MCM) #3 requires the following to be accomplished by the Township Stormwater Management Program:

The permittee shall develop, implement and enforce a program to detect and eliminate illicit discharges into the permittee's regulated small MS4.

a) **BMP #1**: The permittee shall develop and implement a written program for the detection, elimination, and prevention of illicit discharges into the regulated small MS4. The program shall include the following:

- Procedures for identifying priority areas. These are areas with a higher likelihood of illicit discharges, illicit connections or illegal dumping. Priority areas may include areas with older infrastructure, a concentration of high-risk activities, or past history of water pollution problems.
- Procedures for screening outfalls in priority areas. The program shall include dry weather field screening of outfalls for non-stormwater flows, and sampling of dry weather discharges for selected chemical and biological parameters. Test results shall be used as indicators of possible discharge sources.
- Procedures for identifying the source of an illicit discharge when a contaminated flow is detected at a regulated small MS4 outfall.
- Procedures for eliminating an illicit discharge.
- Procedures for assessing the potential for illicit discharges caused by the interaction of sewage disposal systems (e.g., on-lot septic systems, sanitary piping) with storm drain systems.
- Mechanisms for gaining access to private property to inspect outfalls (e.g., land easements, consent agreements, search warrants) and for investigating illicit connections and discharges.
- Procedures for program documentation, evaluation and assessment. Records shall be kept of all outfall inspections, flows observed, results of field screening and testing, and other follow-up investigation and corrective action work performed under this program.
- Procedures for addressing information or complaints received from the public.

1.4 Township Authority to Prohibit Illicit Connection and Dumping into the MS4

Article VII of the Township Stormwater Ordinance (Ord. No. 6 – 2011) addresses issues related to runoff, including critical IDD&E factors. The statutes and policy provide the Township with the enforcement capability to eliminate illicit discharges from the Township's storm sewer system. Specifically, Article VII Prohibitions prohibits "any non-stormwater discharge, including sewage, process wastewater, and wash water to enter the municipality's separate storm water system or waters of the Commonwealth".

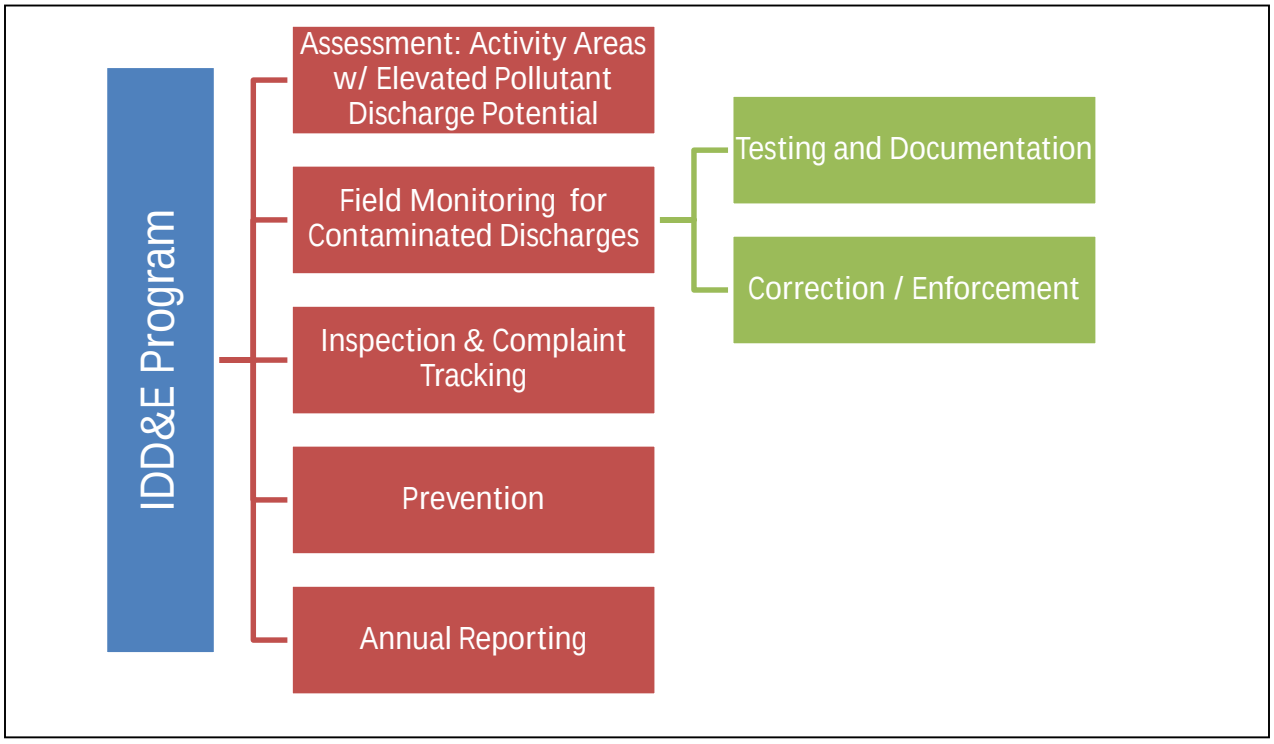
Article VIII allows the Township to enter a property and to inspect any aspect regulated by the Stormwater Ordinance.

2.0 PROGRAM FUNDAMENTALS

The Township's IDD&E Program contains the same fundamental components practiced by MS4's nationwide. The primary elements of the Program were originally outlined by the Center for Watershed Protection (CWP) in its publication, Illicit Discharge Detection and Elimination – A Guidance Manual for Program Development and Technical Assessments (IDD&E Guidance) and are diagrammed below.

(https://www3.epa.gov/npdes/pubs/idde_manualwithappendices.pdf)

Figure 2: IDD&E Program Elements



The Township IDD&E Program utilizes the CWP IDD&E Guidance to the extent practical because it is featured by the U.S. Environmental Protection Agency (EPA) as a primary resource for developing an IDD&E Program and is an agency-accepted methodology for recognizing and eliminating potential stormwater-borne pollution. (The CWP IDD&E Guidance is also provided as a resource on the PADEP MCM #3 webpage https://www.dep.pa.gov/Business/Water/CleanWater/StormwaterMgmt/Stormwater/MCM/Pages/MCM-3-Illicit-Discharges.aspx)

3.0 PROCEDURES FOR IDENTIFYING PRIORITY AREAS/ PRIORITY OUTFALLS

The goal of priority areas is to identify regions within the Township MS4 with the strongest potential to release illicit discharges. There are two methods to identify Priority Areas, including (1) likelihood of potential illicit discharge based on desktop assessment and (2) history of confirmed illicit discharges based on field testing.

3.1 Desktop Assessment

Desktop Assessment includes review of aerial mapping sources such as Google Earth, review of subdivision and land development plans, and other documentation, such as building and industrial NPDES permits, to identify intensely developed areas land uses having elevated pollutant discharge potential.

The 'Miracle Mile' was identified as a Priority Area in the initial term through desktop assessment. The Miracle Mile, as it is known locally, includes the north-south Interstate 81 (I-81) angled across the Township from its southwest corner to the middle of the eastern municipal boundary. The Turnpike and I-81 have interchanges along U.S. Route 11 separated by a little over one mile. The nexus of these roads defines the most intensive land uses in the region with high concentrations of long-haul trucking terminals, service plaza, hotels, eateries, and several transportation-dependent headquarters (such as Giant Foods and AHOLD, Inc.).

During the initial permit cycle, only one potential illicit discharge was flagged through outfall inspection. The source of illicit discharge was from an adjacent MS4 and was not illicit. Because of its track record, the geographic area known as the Miracle Mile will now follow the routine inspection cycle described in Section 4.0 below.

New and reconstructed properties will continue to be evaluated and will be added as a Priority Area if they are suspected to have elevated polluting potential.

3.2 Field Assessment

Outfalls with a history of illicit discharges or where collected samples of dry weather water exceed pre-determined indicators (See Appendices B and C) two or more times in a single permit period will be classified as Priority Outfalls. Additionally, outfalls can become classified as Priority Outfalls based on the frequency of past discharge complaints, stormwater complaint reports, and spill responses within the contributing drainage area.

4.0 PROCEDURES FOR SCREENING OUTFALLS

4.1 Overview

As an existing permittee, stormwater outfalls regulated by the Township MS4 NPDES permit must be inspected at least one time (1x) during the five-year (5-year) permit term, as specified by BMP #4 under MCM#3 of Middlesex Township's MS4 Individual Permit. An outfall with confirmed illicit discharge will be classified as a Priority Outfall. It will be inspected every 6 months until a history of four consecutive compliant inspections are completed, and it can be removed from the Priority Outfall list. Middlesex Township outfalls located in, or that have collection/conveyance infrastructure in Priority Areas will be inspected for illicit discharges two times (2x) time per five-year (5-year) permit term, unless the outfalls have met the four consecutive compliant inspection threshold, at which time the outfalls will transfer to the one time (1x) inspection during the five-year (5-year) permit term cycle.

An outfall located in an area that is dangerous or infeasible to access via the Township right-of-way will be screened at the closest identified observation point within the common drainage conveyance of the outfall. IDD&E screening for an outfall located outside of the Township property falls under the responsibility of the adjacent municipal or MS4 permit holder. The Township will share the location of observation points associated with these adjacent MS4 outfalls with the respective municipalities. The Township will only perform IDD&E screening at observation points when searching for a source of pollution and during a monitoring period following resolution of a confirmed illicit discharge.

Outfalls identified in the original permit are numbered from downstream to upstream, starting with '0' for the furthest downstream outfall. The outfall numbers correspond to the Township's storm sewer system maps, which are maintained in the Township GIS database that is stored on in an ESRi cloud-based system and are subject to periodic updates as necessary. Added outfalls will not trigger renumbering of the system to retain the downstream to upstream sequence; they will be the next consecutive number. Outfalls within Priority Areas are identified as such within the database.

4.2 Outfall Field Screening (OFS) Protocol

4.2.1 Dry-weather Screening Responsible Party

The Outfall Field Screening is performed by trained professional consultants to verify the outfall locations and field-test data collection tools and reporting forms. Middlesex Township reserves the option to transition the Township's Outfall Screening to municipal maintenance personnel trained by the Township's professional consultants. If discharge is discovered during a dry-weather screening and characterized as a potential illicit discharge, investigation duties to identify the pollutant will be performed by the Township's professional consultant.

4.2.2 Outfall Screening Documentation

The PA DEP MS4 Outfall Field Screening (OFS) Report (3800-FM-BCW0521-see Appendix B) will be used to record findings. This reporting form standardizes the Township's field monitoring and reporting between seasons and from year to year for efficient recordkeeping. OFSs corresponding to outfalls scheduled for the current field screening season will be pre-populated with available data (e.g. subwatershed, outfall ID, latitude/longitude, land use, etc.) and accompanied by tailored maps or mobile GIS applications to guide personnel in the field.

At the outfall location, photo-documentation will take place and data collected as prompted by the OFS, regardless of the presence or absence of flows. For flowing outfalls, the Dry Weather Flow Evaluation of the OFS will be completed based on observations and preliminary screening, as necessary. Field screening reports will be uploaded to GIS and digitally stored at the Township Office.

4.2.3 Screening Methods Reference

Selected text from A Guide to Indicators and Monitoring Methods, downloaded from PA DEP's MS4 Resources webpage, is provided in Appendix C. (The Guidance was excerpted by PA DEP from a publication entitled *Designing Your Monitoring Program - A Technical Handbook for Community-based Monitoring in Pennsylvania*.) As stated above, Maintenance personnel will conduct preliminary screening to determine if discharges are present. A trained consultant will determine if the discharges are illicit in nature and conduct field parameter testing for determining if follow-up investigative measures are necessary to eliminate an illicit discharge.

4.2.4 Planning and Testing

For dry weather field screenings, the goal is to observe outfalls during dry conditions (48 consecutive hours of less than 0.1" of rainfall). It will be the responsibility of the field team to monitor weather reports and plan the field work accordingly.

Whether or not illicit discharges are detected from dry-weather field screenings, the MS4 Outfall Screening Report (PA DEP Form 3800-FM-BCW0521) provided in Appendix B, or Township equivalent form, should be completed for each observed outfall. The following list identifies the critical data fields for reporting:

- Outfall identification number
- Date and Time of Screening
- Individual(s) performing the screening
- Approximate Date of Last Rain
- Land Use in Contributing Drainage Area
- Outfall Description (Type, Material, Shape, Dimensions, Submerged)
- Dry Weather Flow Presence
- Description of Flow Rate
- Dry Weather Flow Evaluation
- Field/Laboratory Analysis (Field Screening of pH, Temperature, Specific Conductance, Dissolved Oxygen)

If a discharge is observed from any outfall during dry weather screenings, the discharge shall be inspected for color, odor, floating solids, scum, sheen, and substances that result in observed deposits in the surface waters. In addition, the discharge cannot contain substances that result in deposits in the receiving waters or produce an observable change in the color, odor, or turbidity of the receiving water. If the discharge exhibits any of the above characteristics or the field-testing parameters (pH, temperature, conductivity, dissolved oxygen) are abnormal to the local system and indicate that there is a possible illicit discharge, the screening personnel will report the outfall for follow-up investigation.

Dry-weather flows without any sign of illicit discharge may be permissible. A list of EPA permissible non-stormwater discharges is previously described in Section 1.2. This in-field determination should be noted on the OFS, effectively ending the investigation.

Investigations of illicit discharges are to be documented completely using the OFS form, pictures, and supplemental information as warranted (e.g., test results). Documentation will be forwarded for filing in the IDD&E Case Files at the Township Office. These files are a repository for IDD&E cases triggered by scheduled outfall inspections as well as those initiated by Township personnel, municipal residents, or business observations. Field work, communication documentation, and desktop analysis relating to a given case are maintained at this single location for quick reference. Copies of OFSs for outfalls with dry-weather flows determined not to be illicit discharges in the field are also kept with the case files but are considered closed.

5.0 PROCEDURES FOR IDENTIFYING THE SOURCE OF ILLICIT DISCHARGES

Where a violation constitutes an immediate danger to public health or safety, the Township personnel or first responders must act swiftly to cut off pollution to surface waterways and eliminate the source.

5.1 Illicit Discharge Notifications

If an Illicit discharge is identified at any time, including during a dry weather outfall screening meeting the criteria in the commentary below, the Township must also take the action prescribed below to report the issue to PA DEP.

According to 25 PA Code §91.33 and §92a.41(b), the permittee shall immediately report any incident causing or threatening pollution. The following steps will be initiated by notification by the field municipal personnel to the Township's MS4 Coordinator or the Coordinator's designee.

1. *If*, because of an accident or other activity or incident a toxic substance which would endanger users downstream from the discharge or would otherwise result in pollution or create a danger of pollution or would damage property, the Township shall immediately notify PA DEP by telephone of the location and nature of the danger. Oral notification to the department is required as soon as possible, but no later than four (4) hours after the Township becomes aware of the incident threatening pollution.
2. If reasonably possible to do so, the Township shall immediately notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger.
3. The Township shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of the Commonwealth to the extent required by applicable law.

In the case of any unanticipated non-compliance incident which may endanger health or the environment, the Township shall follow the requirements of 40 CFR §122.41(l)(6). The following requirements will be initiated by notification by municipal field personnel to the Township's MS4 Coordinator or the Coordinator's designee. These requirements include the following obligations:

4. *24 Hour Reporting - The Township shall orally report any non-compliance with this MS4 permit which may endanger health or the environment within 24 hours from the time the Township becomes aware of the circumstances.*
5. *Written Report – A written submission shall also be provided within 5 days of the time the Township becomes aware of any non-compliance which may endanger the health or the environment. The written submission shall contain a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the non-compliance.*
6. *Waiver of the Written Report – PA DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours of the time the Township becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by PA DEP, the Township shall submit a written report in accordance with this paragraph. (25 PA Code §92.a.3(c) and 40 CFR § 122.41(l)(6)(iii)).*

5.2 Illicit Discharge Response: Within the Township Boundary

Discharges within the Township's control will be traced upstream from the discharge to search for the source of the pollution. The pollutant source will be eliminated through the combination of education and maintenance operations. The outfall will be revisited and retested, as appropriate, until the elimination of the pollution has been verified. Outfalls identified as having an illicit discharge shall be placed on the priority outfall screening priority list and the procedures detailed in Section 6.0 Procedure for Eliminating an Illicit Discharge will be implemented**.**

5.3 Illicit Discharge Response: Outside the Township Boundary

Since the Township has no legal authority beyond its Township boundaries, it may not be possible to identify the source of an apparent illicit discharge if dry-weather flows are present and not originating within Township boundaries. Using the Township's storm sewer system map, the municipal inspector who is tracking the illicit discharge should identify the name of the adjacent municipality or MS4 permittee from which the discharge is emanating and provide the information to the Township's MS4 Coordinator or the Coordinator's designee.

The Township's MS4 Coordinator or the Coordinator's designee will be responsible for the subsequent notifications that will follow a tiered approach.

1. The adjacent municipality/MS4 will be contacted by phone to alert the municipality/MS4 of the illicit discharge and to inform them that the PA DEP will be notified, as required by regulation.
2. If the adjacent municipality/MS4 cannot be reached or is non-responsive, notifications to the PA DEP should be made as described above in Section **5.1 Illicit Discharge Notification**s without delay.

In instances where direct coordination with the upstream municipality/MS4 is unsuccessful, the Township, in its initial outreach to PA DEP, should confirm that PA DEP will complete notification to the upstream municipality(ies)/MS4(s) to the point of illicit discharge origin. The Township will re-evaluate the observation point within 30 days of the Township-observed illicit discharge. If the illicit discharge remains unresolved, the Township will issue follow up letters to the upstream municipality/MS4 and to PA DEP and include a request that PA DEP and the adjacent municipality/MS4 notify the Township when the illicit discharge has been resolved.

When notification of illicit discharge resolution is received from PA DEP and/or the upstream municipality/MS4, the observation point will be identified as a Priority Area and will be inspected as described in Section **4.0 Procedures for Screening Outfalls.**

5.4 Procedures for Tracking Pollution Sources

There are several methods that may be employed to locate the source of an illicit discharge. The Township will predominately rely on visual/sensory inspections, but may also use video inspection, dye testing, or smoke testing.

5.4.1 Visual/Sensory Inspections

Once an illicit discharge has been verified, the inspection team will refer to the stormwater network map to familiarize themselves with the contributing system and identify if there is a connection to an upstream MS4 (referred to as an Observation Point). Generally, any connection to an upstream MS4 will be inspected first to determine if the source of the discharge is within the jurisdiction of the Township or if it is emanating from the upstream municipality/MS4. This inspection will rely on observations that the inspectors can make using sight and smell to observe color, odor, floating solids, scum, sheen, and substances that result in observed deposits in the surface waters indicating the presence of materials other than stormwater within the stormwater network that discharges to the polluted outfall. If the source is confirmed to be emanating from the upstream municipality/MS4, the Township will notify the adjacent municipality/MS4 and PA DEP as stated above in Section 5.5 **Illicit Discharge Response: Outside the Township Boundary**.

If there is no evidence of the pollutant at an upstream Observation Point, the inspection team will systematically visually examine the flow path of the stormwater runoff beginning at the compromised outfall and working upstream along the conveyance system until the source of the illicit discharge is located. Observations for stormwater enclosed in pipes will be made at inlets and manholes. Only properly certified personnel for confined spaces will be permitted to enter stormwater pipes, inlets, and manholes.

5.4.2 Dye Testing

Dye testing requires non-toxic dyes to be flushed down facility toilets and sinks. Pre-positioned observers watch for the passage of the dye at sanitary and storm manholes. The presence of dye in the stormwater system would indicate an interconnection of the stormwater and sanitary system. The Township is unlikely to use this method to identify connections from outside the Township right-of-way since the Township cannot require

private property owners to allow the injection of dye through their toilets and sinks.

5.4.3 Smoke Testing

Smoke testing is a relatively simple process that consists of blowing smoke mixed with large volumes of air into the sanitary sewer line usually induced through the manhole. The smoke travels the path of least resistance and quickly shows up at sites that allow surface water inflow. Where the Township is served by public sewer, and smoke testing is selected as a means or determining infiltration and inflow, the Township will coordinate with the local sanitary sewer provider.

Once sanitary sewer interaction is discovered, it can be resolved directly by the Township or by requiring a vendor or co-located sanitary sewer utility operator to take the required corrective actions.

5.4.4 Video Inspection

While expensive and time consuming, remotely operated mobile video cameras can be used to examine storm sewer lines to observe possible illegal connections into the storm sewer system. The method allows definitive identification of unauthorized connection and video imaging provides reliable documentation.

6.0 PROCEDURE FOR ELIMINATING AN ILLICIT DISCHARGE

If the source of an illicit discharge is Middlesex Township, the Township will determine the appropriate approach to eliminate the illicit discharge depending on the type and volume of pollutant discharge. Corrective action will be documented.

The Township has authority to compel the owners of properties discharging pollution to take corrective measures to eliminate the source of pollution. The Township:

- Regulates stormwater management and sanitary sewage activities within the Township. Therefore, the Township has authority to investigate the source of pollution even if the source of illicit discharge is emanating from private property.
- Can use land easements, consent agreements, and search warrants to access private property.
- Has the authority to directly implement corrective measures and subsequently invoice the owner of the property generating the pollution for the corrective action taken by the Township.
- Has the authority to place liens on a property for nonpayment of reimbursement to the Township compensating the municipality for intervention to eliminate the source of pollution.

Any illicit discharge emanating from outside the Township property is under adjacent municipal/MS4 jurisdiction and is their responsibility. As stated in Section **5.0 Procedures for Identifying the Source of Illicit Discharges**, the Township will notify the upstream municipality/MS4 of the illicit discharge so that corrective action can be pursued by the municipality or MS4. If the municipality/MS4 cannot be reached, PA DEP will be contacted for managing corrective action. The Township will request that the municipality/MS4 and/or DEP provide confirmation of elimination and actions taken to eliminate the illicit discharge.

7.0 PROCEDURES FOR ASSESSING POTENTIAL ILLICIT DISCHARGE BY THE INTERACTION OF SEWAGE DISPOSAL SYSTEMS

Interactions between sewage disposal systems and stormwater systems located on Township property or within Township rights-of-way are most commonly related to the uses listed below.

- Schools
- Businesses
- Churches
- Residences

Once evidence of sanitary sewage is discovered at an outfall, the same discovery procedure described in Section 5.6 Procedures for Tracking Pollution Sources will be followed. The First step will be to determine if the source is on property owned and operated by the Township, a privately-owned property, another property with a public-sector owner, or emanating from an upstream municipality/MS4. This will be accomplished through the

inspection of observation points where the upstream municipality or MS4's stormwater enters the Township MS4.

The Township will then examine potential sources within the Township boundary. To aid in identification of the source the sanitary sewer interaction, the Township might rely on Dye or Smoke Testing or by use of a Video Inspection (See Section **5.6 Procedures for Tracking Pollution Sources**).

7.1 Interaction between sewage systems located outside the Township Boundary

Interaction of sewage systems located outside the Township boundary is under another municipality or MS4's jurisdiction and is their responsibility. As stated in Section **5.0. Procedures for Identifying the Source of Illicit Discharges**, the Township will notify the upstream municipality/MS4 and PA DEP of the illicit discharge so that corrective action can be pursued by the municipality/MS4 and/or PA DEP.

8.0 PROCEDURES FOR PROGRAM DOCUMENTATION, EVALUATION AND ASSESSMENT

Reporting shall be performed based on a reporting period of July 1 to June 30. At the conclusion of each reporting year, an activity report will be produced to detail that year's work under the IDD&E Program. The IDD&E work will be an integral part of the MS4 Annual Status Report (3800-FM-BCW0491) and will consist of the following elements, as applicable:

1. Written Program Review
2. MS4 Mapping Updates
3. Storm Sewer Collection System Mapping Updates
4. Outfall Screening Activities (including results from any lab testing)
5. Employee & Public Education

9.0 PROCEDURES FOR ADDRESSING INFORMATION OR COMPLAINTS RECEIVED FROM THE PUBLIC

The Middlesex Combined Public Education and Outreach Program (PEOP) and Public Involvement/ Participation Program (PIPP) is a way for municipal residents and businesses to become involved with the IDD&E process. Part of the Township's public awareness campaign is using municipal residents and businesses to report any unusual fluids entering or discharging from the storm sewer system, especially during dry weather conditions.

The role of Township staff is to investigate and pursue remedies for illicit discharges reported by municipal residents and businesses or observed by Township personnel. Public comments are recorded, tracked, and stored at the Township Office. A prompt visual inspection of the site will take place, resulting in an assessment of the perceived illicit discharge through photo-documentation and tracking it back to a potential source or to the Township's upstream MS4 boundary. If pollutants are suspected, the subsequent process will mirror that which is used in the Township regularly scheduled field monitoring regimen.

The Township receives complaints from the public via the Township phone number. Calls are fielded by the Township receptionist and then transferred to the MS4 Coordinator or the Coordinator's designee, who determines if the complaint requires an emergency response or is a non-emergency issue. Emergency responses are managed by the MS4 Coordinator or the Coordinator's designee who notifies emergency responders and federal, state, and local offices. Non-emergency issues are directed through the Township's Stormwater Complaint Process for response by the MS4 Coordinator or the Coordinator's designee.

Appendix A
Middlesex Township Cumberland County Ordinance No. 6 – 2011, Article VII and VIII

(Amending the Subdivision and Land Development Ordinance and Adopting a Stormwater Management Ordinance)

ARTICLE VII - PROHIBITIONS

Section 701. Prohibited Discharges and Connections

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 waters of this Commonwealth is prohibited.

B. No person shall allow, or cause to allow, discharges into surface waters of this Commonwealth which are not composed entirely of stormwater, except (1) as provided in subsection C below, and (2) as allowed under a state or federal permit.

C. The following discharges are authorized unless they are determined to be significant contributors to pollution to the waters of this Commonwealth. In the event that Middlesex Township or DEP determines that any of the discharges identified in Subsection C, significantly contribute to pollution of the waters of this Commonwealth, Middlesex Township or DEP will notify the responsible person(s) to cease the discharge.

-Discharges from fire fighting activities	-Flows from riparian habitats and wetlands
-Potable water sources including water line flushing	-Uncontaminated water from foundations or from footing drains
-Irrigation drainage	-Lawn watering
-Air conditioning condensate	-Dechlorinated swimming pool discharges
-Springs	-Uncontaminated groundwater
-Water from crawl space pumps	-Water from individual residential car washing
-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	-Routine external building wash down (which does not use detergents or other compounds)

Section 702. Roof Drains and Sump Pumps

Roof drains and sump pumps shall not discharge to any impervious area, subject to site conditions.

Section 703. Alteration of SWMP BMPs

No person shall modify, remove, fill, landscape, or alter any BMP, facilities, areas, or structures, without the written approval of Middlesex Township.

ARTICLE VIII - ENFORCEMENT AND PENALTIES

Section 801. Right-of-Entry

Upon presentation of proper credentials, the representatives of Middlesex Township may enter at reasonable times upon any property within the Township to inspect the condition of the BMPs in regard to any aspect regulated by this Ordinance.

Section 802. Enforcement

A. It shall be unlawful for a person to undertake any Regulated Activity except as provided in an approved SWMP, unless specifically exempted in *Section 106* of this Ordinance.

B. Inspections regarding compliance with the SWMP during project construction are a responsibility of the applicant. Middlesex Township reserves the right to conduct inspections at any time during and after construction.

Section 803. Suspension and Revocation

A. Any approval or permit issued by Middlesex Township may be suspended or revoked for:

1. Non-compliance with or failure to implement any provision of the approved SWMP or Operation and Maintenance Agreement.

2. A violation of any provision of this Ordinance or any other applicable law, ordinance, rule or regulation relating to the Regulated Activity.

3. The creation of any condition or the commission of any act during the Regulated Activity which constitutes or creates a hazard or nuisance, pollution, or which endangers the life or property of others.

B. A suspended approval may be reinstated by Middlesex Township when:

1. Middlesex Township has inspected and approved the corrections to the violations that caused the suspension.

2. Middlesex Township is satisfied that the violation has been corrected.

C. An approval that has been revoked by Middlesex Township cannot be reinstated. The Applicant may apply for a new approval under the provisions of this Ordinance.

D. If a violation causes no immediate danger to life, public health, or property, at its sole discretion, Middlesex Township may provide a limited time period for the owner to correct the violation. In these cases, the Township will provide the owner, or the owner's designee, with a written notice of the violation and the time period allowed for the owner to correct the violation. If the owner does not correct the violation within the allowed time period, the Township may revoke or suspend any, or all, applicable approvals and permits pertaining to any provision of this Ordinance.

Section 804. Penalties

A. Anyone violating the provisions of this Ordinance shall be guilty of a summary offense, and upon conviction shall be subject to a fine of not more than $1,000 for each violation, recoverable with costs. Each day that the violation continues shall be a separate offense and penalties shall be cumulative.

B. In addition, Middlesex Township may institute injunctive, mandamus, or any other appropriate action or proceeding at law or in equity for the enforcement of this 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.

Section 805. Appeals

A. Any person aggrieved by any action of Middlesex Township or its designee, relevant to the provisions of this Ordinance, may appeal to Middlesex Township within thirty (30) days of that action giving rise to the appeal.

B. Any person aggrieved by any decision of Middlesex Township as a result of a timely appeal made as provided in Section 805.A, above, may appeal to the Cumberland County Court of Common Pleas within thirty (30) days of the decision of Middlesex Township.

Appendix B
PA DEP MS4 Outfall Field Screening Report (OFS)
[PADEP Form 3800-FM-BCW0521]

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name:	NPDES Permit No.: PA
Date of Inspection:	Outfall ID No.:
Land Uses in Outfall Drainage Area (Select All):	Latitude: ____° ____' ____"
☐ Industrial ☐ Urban Residential	Longitude: ____° ____' ____"
☐ Commercial ☐ Suburban Residential	Dry Weather Inspection? ☐ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation:
	Amount of Previous Precipitation: in
Inspector Name(s):	Were Photographs Taken? ☐ Yes ☐ No
	Are Photographs Attached? ☐ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☐ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: ____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: ____ in Top Width: ____ in Bottom Width: ____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☐ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

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

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

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

Inspector Comments:

RESPONSIBLE OFFICIAL CERTIFICATION

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

Responsible Official Name	Signature
Telephone No.	Date

Appendix C
Guide to Indicators and Monitoring Methods

[Adapted From: Illicit Discharge Detection and Elimination – A Guidance Manual for Program Development and Technical Assessments]

APPENDIX C

GUIDE TO INDICATORS AND MONITORING METHODS (Selected Text)

This appendix contains general information about watershed indicators and methods.

Descriptions of Common Water Sampling and Analysis Indicators and Methods Used in this Handbook

General Terms Used In Water Sampling

- **Grab Sampling:** Samples are collected in some type of container by dipping the container in the water and filling it to some pre-determined level.
- **Integrated Sampling:** Samples are collected from various depths or locations across a transect that are combined into one sample for analysis.
- **Multiple Depth Sampling:** Individual samples are collected at various depths and analyzed separately.
- **Direct Measurement:** The indicator is measured directly from the water without collecting a sample.

Sample Handling Requirments

From Standard Methods

Indicator	Container Type	Minimum Size (mL)	Preservation	Max. Holding Time
Alkalinity	P, G	200	Ref.	24 h
Bacteria	P, G (S)	200	Ref.	6 h
BOD	P, G	1000	Ref.	6 h
Chlorophyll	P, G	500	Dark	30 d
Conductivity	P, G	500	Ref.	28 d
N-Ammonia	P, G	500	ASAP or acidify	7 d
N-Nitrate	P, G	100	ASAP or ref.	48 h
N-Kjeldahl	P, G	500	Ref., acidify	7d
Oxygen	G-BOD	300	Fix	8 h
PH	P, G	-	ASAP	2h
Phosphate	G(A)	100	Ref.	48 h
Solids	P, G	-	Ref.	7 d
Turbidity	P, G	-	Ref., Dark	24 h

Abbreviations

P = Plastic, G = Glass
G(A) = acid-rinsed glass
(S) = sterile
Ref. = refrigerate
h = hours, d = days

General Terms Used In Water Analysis Methods

This section describes the basic laboratory methods used to analyze water samples. These methods are referred to in the next section on methods for each indicator.

- **Titration:** Determining the concentration of an indicator in a sample by adding to it a standard reagent of known concentration in carefully measured amounts until a color change or electrical measurement is achieved, and then calculating the unknown concentration. Common indicators measured this way are dissolved oxygen and alkalinity.
- **Colorimetric:** Determining the concentration of an indicator in a sample by adding to it a reagent that causes a color change in direct proportion to the concentration of the indicator being measured. The intensity of the color (as measured by the extent to which it absorbs or transmits light) is either read with a visual color comparator or measured using a meter and either read directly in appropriate reporting units or read in "% absorbance" or "% transmittance" units and converted to reporting units. Common indicators measured this way are nutrients.
- **Electrometric:** Determining the concentration of an indicator in a sample by using a meter with an attached electrode that measures the electric potential (millivolts) of the sample. This amount of electric potential is a function of the activity of ions or molecules in the sample and proportional to the concentration of the indicator being measured. The electrode is selected based on its response to specific ions (known as an "Ion Selective Electrode" (or ISE), general ionic activity (conductivity) or molecules (for example, a Membrane Electrode). The meters can either display results in millivolts (mV) or in appropriate reporting units. Common indicators measured this way are dissolved oxygen, pH, conductivity and nutrients.
- **Gravimetric:** Determining the concentration of an indicator in a sample by filtering a specified quantity of the sample and determining the weight of the material retained on the filter. Common indicators measured this way are total solids and total suspended solids.
- **Nephelometric:** Determining the clarity of a sample by measuring the intensity of light scattered by particles in the sample and comparing this with a known solution. The higher the intensity of the scattered light, the higher the turbidity reported in nephelometric turbidity units (NTU's).
- **Membrane Filtration and Incubation:** Determining the bacteria concentration of a water sample by filtering a specified quantity through a specified gridded membrane filter, which retains the bacteria and other particles larger than 0.45 microns. After filtration, the membrane containing the bacterial cells is placed on a specific nutrient medium and then incubated at a specified temperature for a specified length of time. Colonies of a specified color growing on the filter are then counted.

Acidity

Acidity is the water's ability to resist a change in pH when a base is added. This is largely caused by carbon dioxide, salts of strong acids and weak bases and other factors. Above a pH of 8.3, there is no measurable acidity. Acidity is the reverse of the alkalinity buffering effect. It is measured as the concentration of $CaCO_3$.

Analytical Methods

Acidity is measured by titrating a sample to either 3.7 (methyl orange acidity using bromphenol blue indicator) or 8.3 phenolpthalein acidity using penolpthalein indicator). Acidity (in mg/L as $CaCO_3$) is calculated from the amount of titrant (sodium hydroxide) needed to bring the sample to either pH.

Alkalinity, Total

This is a measure of the water's ability to neutralize acids -- the higher the alkalinity levels, the more acid-neutralizing capacity the water has. This is important for aquatic ecosystems because it protects against changes in pH, which can harm aquatic life.

Analytical Methods

Basic methods use titration. The advanced method uses a meter to measure the pH at two endpoints.

Basic Methods	**Advanced Methods**
Sulfuric Acid Titration w/ Bromcresol Green/Methyl Red 1) The sample is collected and treated with bromcresol green-methyl red. 2) It is then titrated with sulfuric acid until the solution turns pink. 3) The amount of acid added to reach this point is converted to total alkalinity.	*Double End Point Sulfuric Acid Titration w/ pH Meter* 1) The sample is collected and the pH measured 2) It is then titrated with sulfuric acid until the pH is 4.5 3) The amount of acid added to reach this point is converted to total alkalinity.

Biochemical Oxygen Demand (BOD)

BOD is a measurement of the amount of oxygen consumed by organic matter and associated microorganisms and through chemical oxidation in the water over a period of time, usually five days. Measuring the biochemical oxygen demand (BOD) of the water tells us whether oxygen demanding wastes might cause low dissolved oxygen (DO) levels at times.

Analytical Methods

Basic and advanced methods use a version of Winkler Titration. As with dissolved oxygen (DO), the main difference is the type of titrator or use of a meter.

Basic Methods	**Advanced Methods**
Modified BOD-5 Day Method (Hach via Mitchell & Stapp) 1) Two samples are collected in glass-stoppered BOD bottles (one clear and one black) as in the DO method. 2) The DO is determined for the clear bottle, using Modified Winkler Titration with a syringe or eyedropper. 3) The black bottle is placed in the dark and incubated for five days at 68°F. 4) The DO for this sample is then determined the same way. 5) BOD is determined by subtracting the DO level of the black bottle from the clear bottle.	*Modified BOD-5 Day Method w/ modified Winkler Titration or Meter (Standard Methods #521 O-B or equivalent)* 1) Two samples are collected in glass-stoppered BOD bottles (one clear and one black) as in the DO method. 2) The DO is determined for the clear bottle, using Modified Winkler Titration with a buret, syringe, digital titrator or meter 3) The black bottle is placed in the dark and incubated for five days at 68°F. 4) The DO for this sample is then determined the same way. 5) BOD is determined by subtracting the DO level of the black bottle from the clear bottle.

Chlorophyll *a*

Chlorophyll *a* is a green pigment found in all plants. It is used to quantify the abundance of algae in water. When chlorophyll *a* degrades, it converts to pheophytin. The ratio of chlorophyll *a* to pheophytin is used to determine the health of the algae sampled.

Analytical Methods

Measuring chlorophyll *a* involves a sophisticated process for which there are no simple methods.

Basic Methods	Advanced Methods
None	*Pigment extraction followed by spectrophotometry (Adapted by Paul Godfrey from Standard Methods #10200 H)* **1)** Collect an integrated water sample using a clean container (at least one quart). **2)** Filter subsample (quantity depends on a Secchi reading) using a glass fiber filter and vacuum pump. **3)** Analyze filters immediately, frozen or dried. **4)** Extract pigment by grinding the filter, steeping the ground mass in 90% acetone, and centrifuging in tubes to de-suspend fibers from the solution. **5)** Read color with a spectrophotometer and calculate concentration. **6)** Add hydrochloric acid to the sample to convert all chlorophyll *a* to pheophytin. **7)** Read color again with a spectrophotometer and calculate the concentration of pheophytin.

Chlorine, Total Residual

Chlorine is a gas in its natural state. It is toxic to microbes and animals and is widely used to disinfect drinking water and wastewater. It can also combine with a wide variety of organic and inorganic chemicals to produce toxic compounds. It does not appear to be toxic to humans, except when it combines with other compounds. Total Residual Chlorine consists of Free Chlorine (hypochlorite ion, hypochlorous acid – the disinfecting agent) and chloramines (formed when chlorine reacts with ammonia or nitrogen).

Analytical Methods

Amperometric Titration: Chlorine is tricky to sample because it is volatile (tends to convert to gas quickly) and has tricky flow patterns. We recommend consulting with your regional DEP biologist. The analytical method involves titrating a prepared sample with Phenylarsine Oxide with an Amperometric Titrator to an endpoint.

Conductivity

This is a measure of the water's ability to pass an electrical current. This ability depends on the presence of inorganic dissolved solids made up of ions (particles that carry a positive or negative electrical charge). Since it measures a wide range of materials, its primary importance is as an indicator of general pollution, rather than a specific pollutant.

Analytical Methods

Basic and advanced methods use a conductivity meter. This meter contains a probe with two electrodes. The probe is lowered into the water, voltage applied, and the drop in voltage caused by the resistance of the water is measured and converted to conductivity. The basic method uses a relatively inexpensive "pen." The advanced method uses a high-quality meter to measure the conductivity.

Basic Methods	**Advanced Methods**
Electrometric Using A Conductivity Pen 1) Collect water sample or measure directly with pen. 2) Measure collected sample with pen.	*Electrometric Using A Conductivity Meter (EPA Method 120.1)* 1) Collect water sample or measure directly with meter. 2) Measure collected sample with meter.

Dissolved Oxygen (DO)

DO is the presence of oxygen gas molecules in the water. Since it is critical to many biological and chemical processes in the water and essential for aquatic life, dissolved oxygen is an indicator of the capability of the aquatic ecosystem to support life.

Analytical Methods

Basic and advanced methods use a version of Winkler Titration. The main difference is the size of the increment of titrant added to the sample – smaller increments increase sensitivity.

Basic Methods	Advanced Methods
Modified Winkler Titration with a syringe or eyedropper (Hach via Mitchell & Stapp) This is essentially the Modified Winkler Titration described above, with some changes. The titrant is phenylarsine oxide solution and the titrator is an eyedropper. The eyedropper gives less accuracy and sensitivity than other titrators because it dispenses larger drops -- each drop equals 0.5 mg/l.	*Modified Winkler Titration with a buret, syringe or digital titrator: Standard Method #4500-OG (or equivalent)* **1)** Collect surface samples in 300 mL "BOD" bottles with glass stoppers so that no air bubbles are trapped. In lakes, an integrated sample is collected using a length of garden hose. **2)** Samples must be analyzed immediately or fixed and analyzed within eight hours. **3)** The level of oxygen in the sample is "fixed" by adding reagents which produce a chemical reaction producing iodine in direct proportion to the amount of oxygen in the water. **4)** Sodium thiosulfate is then added incrementally using a digital titrator (Hach) or syringe (Lamotte). The amount of sodium thiosulfate it takes to turn the solution clear is proportional to the amount of iodine (which has taken the place of the oxygen) in the sample.
	Meter (Membrane Electrode) Method: Standard Methods #4500-OG (or equivalent) 1) A membrane-covered electrode probe is lowered into the water. 2) The meter electronically measures the diffusion of oxygen from the water across a membrane-covered electrode, which is directly proportional to the DO concentration.

Notes On Methods

- Water samples for dissolved oxygen should be collected in glass-stoppered BOD bottles or other container designed so that no air is trapped in the sample.
- If you have a limited budget for this indicator (<$300), we recommend that you use the Hach or Lamotte Adaptation of Winkler Titration. The Hach digital titrator dispenses smaller increments of the sodium thiosulfate than the Lamotte syringe and therefore increases the sensitivity. But, it's more expensive.
- If you have the budget ($600-800) to purchase a meter and you need frequent (or continuous) measurements from a few sites, a meter will work best. However, if you have a large number of sites and can only use one meter, we recommend titration.

Fecal Coliform and *E. coli* Bacteria

Fecal coliforms and *E. coli* are bacteria that are common in the intestines and feces of warm-blooded animals. They are used both as an indicator of the presence of sewage or animal manure in the water and as an indicator of the health risk of swimming and other water contact recreation. Fecal coliforms are the indicator used in Pennsylvania's water quality standards. *E. coli* (a species of fecal coliforms) are used in other states, per their water quality standards.

Analytical Methods

The basic methods will either detect the presence of bacteria (but won't give you a count) or they give you an estimate of density (but not a reliable count). Advanced methods are EPA-approved and give reliable counts. The most reliable count is produced by the mTEC method. Note that the mColiBlue method does not identify fecal coliforms. *E. coli* colonies are used as the equivalent, but these counts will underestimate fecal coliforms.

Basic Methods	Advanced Methods
Estimates of Density These methods estimate the number of bacteria in a sample in various ways: 1) Easygel: Using one subsample size, usually 1-5 mL, bacteria are grown on nutrient medium without filtration. Colonies of specified color are counted. Estimates total coliforms and E. coli. Fecal coliforms are estimated using E. coli counts. 2) Colilert: A reagent is added to various subsample sizes, which turns yellow if coliforms are present and fluoresces if they are *E. coli*. A statistical table is used to estimate density based on which subsamples turn yellow and/or fluoresce.	*Fecal coliforms and E. coli: Membrane Filtration Using mTEC: EPA Method #1103.1* **1)** Collect water sample in sterile container. **2)** Filter several subsample sizes through 0.45 micron filters. **3)** Dry incubate on mTEC nutrient medium in petri plates at 35°C for two hours. **4)** Incubate at 44.5°C in a water bath for 22 hours. **5)** Count fecal coliforms after incubation. **6)** Incubate at room temperature for 20 minutes on a urea solution and count *E. coli*.
Presence-Absence These methods detect the presence of selected bacteria types by whether or not bacteria grows on the plate (as detected by a certain color) or whether a special broth turns color when exposed to sample water. These methods tell you bacteria is present, but do not indicate the number of bacteria	*Fecal Coliforms: Membrane Filtration Using mFC: Standard Methods #9222 D* **1)** Collect water sample in sterile container. **2)** Filter several subsample sizes through 0.45 micron filters. **3)** Incubate at 44.5°C in a water bath for 24 hours on mFC nutrient medium in petri plates. **4)** Count fecal coliforms after incubation.
	Fecal Coliforms: Membrane Filtration Using mColiBlue24 (Hach) **1)** Collect water sample in sterile container. **2)** Filter several subsample sizes through 0.45 micron filters. **3)** Incubate at 44.5°C in a water bath for 24 hours on mColiBlue nutrient medium in petri plates. **4)** Count *E. coli* colonies after incubation (use to estimate fecal coliforms).

Hardness

Hardness is a measure of the calcium and magnesium positively charged ions in the water. These ions reduce the surface tension of the water, and soap does not produce lather in hard water. When hardness is primarily calcium, it is closely related to alkalinity. Hardness frequently reduces the impacts of metals on aquatic life: the higher the hardness, the lower the toxicity. Hardness is reported as mg/l of $CaCO_3$ at a given pH.

Analytical Methods

There are no basic methods. The advanced method involves either a titration or calculating the hardness from previously-determined calcium and magnesium concentrations.

Basic Methods	Advanced Methods
None	*EDTA Titration Method (Standard Method 2340C, EPA Method 130.2)* 1) Collect water sample. 2) Add dye (EBT indicator) which turns sample purple. 3) Titrate with EDTA reagent until solution turns blue. 4) Calculate hardness from amount of titrant used as $CaCO_3$.

Nitrogen

Nitrogen is a gas in the atmosphere. It combines with oxygen or hydrogen to produce various compounds -- ammonia, nitrites and nitrates. It is an essential nutrient for plant growth and metabolic reactions in plants and animals. Together with phosphorus, it is the primary source of food energy in the aquatic ecosystem. Too much of certain forms of nitrogen can cause too much biological activity and cause undesirable effects. It is also toxic to babies in high concentrations. Nitrogen occurs in various forms, both organic and inorganic in the water, some of which are more available for plant growth than others. In some waters, nitrogen is the nutrient in short supply, so that relatively small amounts can cause impacts. Three forms of nitrogen are recommended as indicators in this handbook: ammonia, nitrates and total. Their descriptions and methods follow:

Nitrogen - Ammonia Nitrogen

Ammonia (NH_3) is produced when organic nitrogen and/or urea break down. It is a byproduct of sewage decomposition. It is naturally present in surface waters, and can be toxic to aquatic life at relatively low concentrations (<1.0 mg/l).

Analytical Methods

Measuring ammonia involves a sophisticated process for which there are no simple methods. The Hach adaptation is the easiest, though it uses the distillation step only if known interferences are present.

Basic Methods	Advanced Methods
None	*Distillation followed by Nesslerization (Standard Methods #4500-NH3 C or equivalent)* **1)** Add borate solution to sample for buffering. **2)** Distill[1] sample using a distillation apparatus. This removes certain interferences. **3)** Nesslerization. This involves pretreatment to remove turbidity-producing compounds and adding a Nessler reagent. **4)** This produces a yellow to brown color that is measured with a spectrophotometer. **5)** The reading is compared with a set of standard concentrations and reported as mg/l NH_3 -N.

Nitrogen - Nitrate Nitrogen

Nitrate (NO_3) is produced naturally by nitrogen-fixing plants and lightning acting on atmospheric nitrogen or ammonia. Nitrate is a form of nitrogen readily used by plants. In excess, it can cause excessive biological activity in surface waters and can be toxic to infants.

Analytical Methods

Basic and advanced methods use a variation on the same procedure, except that in the basic method the color is read using a visual color comparator. In the advanced method, the color is read using an electronic meter.

Basic Methods	Advanced Methods
Cadmium Reduction followed by Color Comparator (Hach via Mitchell & Stapp) *1)* A cadmium reduction reagent is added to a water sample. This causes a chemical reaction and turns the sample pink. *2)* The sample color is matched to colors labeled in pH units on a color comparator. *3)* The analyst determines the closest color match and records the nitrate concentration.	*Cadmium Reduction followed by spectrophotometry (Standard Methods #4500-NO_3- E or equivalent)* **1)** A cadmium reduction reagent is added to a water sample. This causes a chemical reaction and turns the sample pink. **2)** This color is measured with a spectrophotometer. **3)** The reading is compared with a set of standard concentrations and reported as mg/l NO_3 -N.

Notes on Methods

- The basic method should be considered an approximation only. This method is not acceptable for federal and state agency assessment, but is fine for education and awareness and some community assessments.

Nitrogen - Total Kjeldahl Nitrogen (TKN)

This refers to the total of organically bound nitrogen and ammonia. By analyzing samples for both ammonia and total Kjeldahl nitrogen, organic nitrogen can be calculated. This enables you to

[1] Distillation involves boiling the sample and collecting the steam.

estimate how much nitrogen in the system is in organic form, intermediate form (ammonia) and inorganic form (nitrate). It may tell you how much comes from sewage, versus fertilizer, for example.

Analytical Methods

Measuring TKN involves a sophisticated process for which there are no simple methods. The Hach adaptation is the easiest, though it uses the distillation step only if known interferences are present.

Basic Methods	**Advanced Methods**
None	*Digestion followed by Nesslerization followed by spectrophotometry (Standard Methods #4500-Norg B or equivalent)* **1)** Digest[2] water sample to convert organic and ammonia compounds to ammonia nitrogen. **2)** Ammonia is then measured using the Nesslerization Method (see ammonia methods). **3)** The reading is compared with a set of standard concentrations and reported as mg/l TKN.

pH

pH is a measure of the acidity of the water. Since pH affects many biological and chemical reactions in the water and most organisms have a preferred range, it is a good indicator of capability of the aquatic ecosystem to support life.

[2] The process of disintegration by means of chemical action, heat, and/or moisture.

Analytical Methods

Basic methods use colorimetry. The advanced method uses a meter.

Basic Methods	Advanced Methods
Colorimetric Method (Hach via Mitchell & Stapp) 1) This method involves the addition of pH indicator solution to a water sample which changes color according to the pH. 2) The sample color is matched to colors labeled in pH units in a color comparator. 3) The analyst determines the closest color match and records the pH. This should be considered an approximation only.	*Electrometric Method (EPA Method 050.1 or Equivalent)* **1)** Collect sample or measure directly with a meter. **2)** Measure on a collected sample using a laboratory-quality meter with an electrode suitable for ionic-strength of waters. **3)** There are less expensive pH pens or "pocket pals" on the market. These should be checked against a reliable, laboratory-quality meter to establish accuracy and precision.
pH Paper This is similar to the colorimetric method, except that a specially coated paper is dipped in the sample and turns color according to the pH. This should be considered an approximation only.	

Notes on Methods

- For waters that are low in ionic strength, accurate pH measurements require a probe that will respond in these types of waters.
- pH samples should be collected so that no air is trapped in the sample.
- The colorimetric method is subject to variation in the light source and the judgments of the analyst. It is inherently imprecise.

Phosphorus

Phosphorus is an essential nutrient for plant growth and metabolic reactions in plants and animals. Together with nitrogen, it is a key element in the aquatic ecosystem. Too much phosphorus can cause too much biological activity and cause undesirable effects. Phosphorus occurs in various forms in the water, some of which are more available for plant growth than others.

Phosphorus - Total Orthophosphates

This is primarily the dissolved and most available form. It is a good indicator of enrichment from various sources, such as sewage, manure or fertilizer.

Analytical Methods

Basic and advanced methods are basically the same colorimetric method. The main difference is that the advanced method measures the color of the treated sample using an electronic instrument.

Basic Methods	Advanced Methods
Ascorbic Acid Method 1) Collect a sample in a phosphorus-free container. 2) Analyze by adding ascorbic acid reagent which turns the sample blue (ascorbic acid method) in proportion to the amount of phosphorus in the sample. 3) Compare this blue color to various shades using a visual color comparator to get a concentration.	*Ascorbic Acid Method (EPA Method #365.2 or equivalent)* 1) Collect a sample in a phosphorus-free container. 2) Analyze by adding ascorbic acid reagent which turns the sample blue (ascorbic acid method) in proportion to the amount of phosphorus in the sample. 3) Measure the intensity of this blue color using a spectrophotometer or colorimeter and compare with results for a set of standard concentrations.

Notes on Methods

- The basic method should be considered an approximation only. This method is not acceptable for federal and state agency assessment, but is fine for education and awareness and some community assessments.

Phosphorus, Total

Total phosphorus includes all the forms. It is a good indicator of enrichment from various sources, such as sewage, manure, or fertilizer.

Analytical Methods

Basic and advanced methods are basically the same colorimetric method. The main difference is that the advanced method measures the color of the treated sample using an electronic instrument.

Basic Methods	Advanced Methods
Persulfate Digestion Followed by Ascorbic Acid Method 1) Collect a sample in a phosphorus-free container. 2) Boil, acidify and oxidize a sub-sample to convert all forms of phosphorus to orthophosphate (persulfate digestion). 3) Analyze Orthophosphate by adding ascorbic acid reagent which turns the sample blue (ascorbic acid method) in proportion to the amount of phosphorus in the sample. 4) Compare this blue color to various shades using a visual color comparator to get a concentration.	*Persulfate Digestion Followed by Ascorbic Acid Method (EPA Method #365.2 or equivalent)* 1) Collect a sample in a phosphorus-free container. 2) Boil, acidify and oxidize a sub-sample to convert all forms of phosphorus to orthophosphate (persulfate digestion). 3) Analyze Orthophosphate by adding ascorbic acid reagent which turns the sample blue (ascorbic acid method) in proportion to the amount of phosphorus in the sample. 4) Measure the intensity of this blue color using a spectrophotometer or colorimeter and compare with results for a set of standard concentrations.

Notes on Methods

- The basic method should be considered an approximation only. This method is not acceptable for federal and state agency assessment, but is fine for education and awareness and some community assessments.

Phosphorus, Total Dissolved

Total dissolved phosphorus includes all the forms after a sample is filtered. It is a good indicator of the available forms from various sources, such as sewage, manure or fertilizer.

Analytical Methods

Basic and advanced methods are basically the same as the method for total phosphorus, with the addition of filtering the sample before digestion and analysis.

Solids

Solids include materials that are dissolved, suspended or settled in the water column. *Total solids* include all of these.

Solids - Total Suspended

Total suspended solids consist of solids that are filtered out of a water sample. Suspended solids affect water clarity and can reduce photosynthesis and cause higher temperatures.

Analytical Methods

Measuring total suspended solids involves a sophisticated process for which there are no simple methods.

Basic Methods	**Advanced Methods**
None	*Gravimetric Method: Total Suspended Solids Dried at 103-105° C (Standard Methods #2540D)* **1)** Weigh a glass fiber filter. **2)** Filter a sample through the filter, and transfer it to a Gooch crucible. **3)** Dry filters and crucibles in an oven at 103-105°C for an hour. **4)** Weigh filters and crucibles again. **5)** Calculate total dissolved solids by subtracting the weight of the filter and crucible from the weight after filtering and drying. Results are reported as mg/l.

Solids - Total Dissolved

Dissolved *solids* include various ions of calcium, chlorides, nitrate, phosphate, iron, sulfur and others that will pass though a two-micron pore. These affect the water balance in the cells of aquatic organisms, making it difficult for them to maintain position in the water column.

Basic Methods	Advanced Methods
None	*Gravimetric Method: Total Dissolved Solids Dried at 180°C (Standard Methods #2540C)* **1)** Filter a sample through a glass fiber filter. **2)** Weigh a ceramic dish. **3)** Pour the filtered sample into the dish. **4)** Evaporate the water in an oven at 180°C, and weigh the dish plus residue. **5)** Calculate total dissolved solids by subtracting the weight of the dish from the weight of the dish with residue. Results are reported as mg/l.

Secchi Depth Transparency (for lakes only)

Transparency describes scattering and absorption of light by small particles and molecules in the water. This is most commonly expressed as the depth at which a black and white patterned device known as a *Secchi disk* disappears from sight. The more transparent the water, the lower the depth at which the disk disappears. Reduced transparency has the same effects as elevated turbidity.

Basic Methods	Advanced Methods
Secchi Disk ***1)*** Lower Secchi disk into the water until it disappears from sight. ***2)*** Bring disk up until it appears again. ***3)*** The average of these two depths is the Secchi depth transparency.	*Same as basic*

Temperature

Since temperature affects many biological and chemical reactions in the water and most organisms have a preferred range, it is a good indicator of capability of the aquatic ecosystem to support life. It is measured in degrees Fahrenheit (°F) or degrees Celsius (°C).

Analytical Methods

Basic Methods	Advanced Methods
Direct measurement with thermometer	*Direct measurement with thermometer, thermocouple, thermistor or a multi-use meter*

Turbidity (for streams only)

Turbidity describes how the particles suspended in the water affect its clarity by scattering light. It is an indicator of the presence of suspended sediment from erosion, which can decrease biological activity, raise water temperatures and clog fish gills and gravel spawning areas. Turbidity results are usually reported as nephelometric turbidity units (NTUs).

Analytical Methods

The basic methods involve measuring transparency, which includes both light scattering and absorption. The advanced method measures just light scattering. Thus, the results of basic and advanced methods are not comparable with each other. The "advanced" method is actually fairly simple, though it involves an expensive meter.

Basic Methods	**Advanced Methods**
Turbidity Tubes (Lamotte) 1) Two graduated cylinders with black dots on the bottom are filled to a specific volume -- one with sample water the other with turbidity-free water. 2) A reagent is added to the turbidity-free water cylinder, until the visibility of the dot on the bottom is equivalent to that of the cylinder with the sample. 3) The results are reported in unspecified units. 4) This method actually measures absorbance plus scattering, so the results are not actually NTUs.	*Nephelometric Method (Standard Methods #2130 or equivalent)* **1)** Turbidity is measured by collecting and analyzing a water sample using a nephelometer. **2)** A nephelometer consists of a light source that projects a beam of light through the water sample and a photo-electric cell that measures the intensity of light scattered by particles at a 90° angle from its original path. **3)** The results are reported as nephelometric turbidity units (NTUs).
Turbidity Tube (Tennessee Valley Authority) 1) These tubes are marked in increments of NTUs on the side and a wave pattern on the bottom. 2) The sample is poured into the tube until the wave pattern disappears. 3) The NTU increment level of the sample is reported. 4) This method actually measures absorbance plus scattering, so the results are not actually NTUs. In fact, they should be reported in centimeters or inches.	

Notes on Methods

- Measure turbidity in rivers.
- Make sure that the meter you purchase is a nephelometer that measures light scattered at a 90° angle.
- Turbidity tubes are not acceptable substitutes for a nephelometer, since they actually measure transparency (light scattering and absorption), rather than just light scattering. Because of this, they are unreliable in colored waters, which absorb light, though may not be turbid at all. They are really more analogous to Secchi disks, in that your eye responds to absorption. If you use these tubes, report your results as a depth (in centimeters or inches) rather than NTUs.

Water Column Metals and Other Elements Recommended for Sampling Only (Advanced Assessments)

Many naturally-occurring metals are toxic to aquatic life, when present in high enough concentrations. The most common process is when they bind to gill surfaces on fish and insects. The metals of concern are mostly those that are "available" as dissolved ions in the water column.

The following metals and other elements are recommended by several of the advanced assessments. However, the analysis methods require techniques and equipment beyond the means of community-based groups and schools (except universities). Therefore, we recommend sampling only. Even for sampling, we recommend consulting with your regional DEP biologist as to sampling procedure

Sampling (Standard Methods 3010B)

Because some metals are toxic in very small amounts (micrograms per liter), the methods must be able to detect very low concentrations. Contamination of sampling containers is a real concern. Samples for metals are usually collected in special acid-rinsed containers made of polypropylene, linear polyethylene or borosilicate glass. Samples to be analyzed for dissolved metals are immediately filtered through a 0.45 micron filter. Otherwise they are preserved by acidifying with concentrated nitric acid to a pH of <2.

Analytical Method (EPA Method 200.7)

Various forms of metals can be analyzed, depending on how the sample is treated:

- Dissolved Metals: The filtered sample is analyzed.
- Suspended Metals: Metals are trapped on the filter.
- Total Metals: Metals are detected in an unfiltered sample after digestion or the sum of dissolved and suspended metals are added together.
- Acid-extractable Metals: Metals in solution after treatment of the sample with hot mineral acid.

Metals are usually analyzed as a suite using *Inductively Coupled Plasma - Atomic Emission Spectrometry*. An inductively coupled plasma source (a machine) vaporizes the sample and heats it to about 6000-8000°C. Molecules separate and atoms become active and ionized (reactive). In this state, each element produces a unique spectral (colored) pattern which is read by a spectrometer.

Needless to say, this is an extremely technical and expensive method beyond the reach of volunteer monitoring programs.

Aluminum (sampling only)

Aluminum is a naturally occurring element in rocks, soils and the waters in contact with them. It occurs as a soluble salt, a colloid or an insoluble compound. Aluminum toxicity for aquatic life depends on pH.

Arsenic (sampling only)

Arsenic is a naturally occurring element in rocks, soils and the waters in contact with them. Recognized as a toxic element for centuries, arsenic today also is a human health concern because it can contribute to skin, bladder and other cancers (National Research Council, 1999).

Arsenic is widely distributed throughout the earth's crust and is used commercially, primarily in alloying agents. It is introduced into water through the dissolution of minerals and ores, from industrial effluents and from atmospheric deposition; concentrations in groundwater in some areas are elevated as a result of erosion from local rocks

Arsenic is highly toxic, though its toxicity is dependent on its form and environmental conditions.

Used in groundwater assessment only.

Barium (sampling only)

Barium is a lustrous, machinable metal that exists in nature only in ores containing mixtures of elements. It is used in making a wide variety of electronic components, in metal alloys, bleaches, dyes, fireworks, ceramics and glass. In particular, it is used in well drilling operations where it is directly released into the ground.

EPA has found barium to potentially cause gastrointestinal disturbances and muscular weakness when people are exposed to it at unsafe levels for relatively short periods of time

In water, the more toxic soluble barium salts are likely to be converted to insoluble salts that precipitate. Barium does not bind to most soils and may migrate to groundwater. It has a low tendency to accumulate in aquatic life and does not seem to be an aquatic life health concern.

Used in groundwater assessment only.

Cadmium (sampling only)

Cadmium is a metal found in natural deposits as ores containing other elements. The greatest use of cadmium is primarily for metal plating and coating operations, including transportation equipment, machinery and baking enamels, photography and television phosphors. It is also used in nickel-cadmium and solar batteries and in pigments.

EPA has found cadmium to potentially cause vomiting, diarrhea, muscle cramps, nausea, salivation, sensory disturbances, liver injury, convulsions, shock and renal failure when people are exposed to it at unsafe levels for relatively short periods of time. Cadmium has the potential to cause kidney, liver, bone and blood damage from a lifetime exposure at unsafe levels.

Cadmium occurs naturally in zinc, lead, copper and other ores that can serve as sources to ground and surface waters, especially when in contact with soft, acidic waters. Major industrial releases of cadmium are due to waste streams and leaching of landfills, and from a variety of operations that involve cadmium or zinc. In particular, cadmium can be released to drinking water from the corrosion of some galvanized plumbing and water main pipe materials.

Some cadmium compounds are able to leach through soils to groundwater. When cadmium compounds do bind to the sediments of rivers, they can be more easily bioaccumulated or re-dissolved when sediments are disturbed, such as during flooding. Its tendency to accumulate in aquatic life is great in some species, low in others. Toxicity increases as hardness decreases.

Calcium (sampling only)

Calcium is a naturally-occurring element that enters surface water from surrounding rocks. It is a vital micro-nutrient for both plants and animals. In various compounds, calcium is an important part of the water's buffering system (see alkalinity, acidity, hardness). Used in groundwater assessment only.

Chromium (sampling only)

Chromium is a metal found in natural deposits as ores containing other elements. Though chromium occurs in nature mostly as chrome iron ore and is widely found in soils and plants, it is rare in natural waters. The greatest use of chromium is in metal alloys such as stainless steel; protective coatings on metal; magnetic tapes; and pigments for paints, cement, paper, rubber, composition floor covering and other materials. Its soluble forms are used in wood preservatives.

Short-term: EPA has found chromium to potentially cause skin irritation or ulceration when people are exposed to it at unsafe levels for relatively short periods of time. Chromium has the potential to cause damage to liver, kidney, circulatory and nerve tissues; and cause skin irritation from a lifetime exposure at unsafe levels.

When released to land, chromium compounds bind to soil and are not likely to migrate to groundwater. They are very persistent in water as sediments. There is a high potential for accumulation of chromium in aquatic life.

Copper (sampling only)

Copper is a metal found in natural deposits as ores containing other elements. It is widely used in household plumbing materials.

Copper is an essential nutrient, required by the body in very small amounts. However, EPA has found copper to potentially cause stomach and intestinal distress, liver and kidney damage, and anemia when people are exposed to it at high levels for relatively short periods of time.

Copper may occur in drinking water either by contamination of the source water used by the water system, or by corrosion of copper plumbing. Corrosion of plumbing is by far the greatest cause for concern. Copper is rarely found in source water, but copper mining and smelting operations and municipal incineration may be sources of contamination.

All water is corrosive toward copper to some degree, even water termed non-corrosive or water treated to make it less corrosive. Corrosivity toward copper is greatest in very acidic water. Many of the other factors that affect the corrosivity of water toward lead can also be expected to affect the corrosion of copper.

Copper is toxic to aquatic life at high levels, though it does not appear to accumulate in the edible portions of freshwater fish. Toxicity increases as hardness decreases.

Iron, Total (sampling only)

Iron is a metal common in rocks and soils and in varying quantities in surface water. It is an essential trace element required by both plants and animals. Iron is not considered a problem for aquatic life, except for physical effects from iron precipitate.

Lead (sampling only)

Lead is a metal found in natural deposits as ores containing other elements. It is sometimes used in household plumbing materials or in water service lines used to bring water from the main to the home.

Lead can cause a variety of adverse health effects when people are exposed to it at usafe levels for relatively short periods of time. These effects may include interference with red blood cell chemistry, delays in normal physical and mental development in babies and young children, slight deficits in the attention span, hearing and learning abilities of children, and slight increases in the blood pressure of some adults. Lead has the potential to cause stroke, cancer and kidney disease from a lifetime exposure at unsafe levels.

Lead may occur in drinking water either by contamination of the source water used by the water system, or by corrosion of lead plumbing or fixtures. Lead is rarely found in source water, but lead mining and smelting operations may be sources of contamination. Corrosion of plumbing is by far the greatest cause for concern.

When released to land, lead binds to soils and does not migrate to groundwater. In water, it binds to sediments. It does not accumulate in fish, but does in some shellfish, such as mussels. Toxicity increases as hardness decreases.

Used in groundwater assessment only.

Manganese (sampling only)

Manganese does not occur naturally as a metal. It is frequently found in various salts and minerals, frequently with iron. It is a vital micro-nutrient for both plants and animals. It occurs in surface waters in soluble or suspended form, but rarely in concentrations considered toxic to aquatic life.

Potassium (sampling only)

Potassium is an abundant element found in many minerals. It is an essential plant and animal nutrient and is also common in fertilizers. Used in groundwater assessment only.

Silica (sampling only)

Silicon is an abundant element and most waters contain it in the form of silica (SiO_2) and silicates. The chief concern is deposits on industrial equipment. Used in groundwater assessment only.

Sulfate (sampling only)

Sulfate occurs in natural waters in a wide variety of concentrations. It can occur in high concentrations in mine drainage from the oxidation of pyrite and the use of sulfuric acid.

Zinc (sampling only)

Zinc is common in natural waters, but is increased by the deterioration of galvanized pipes. It is essential to human metabolism, but can be toxic to aquatic life.

3b - Potential Illicit Discharge Investigations

Case #: 20260033
Case Date: 05/01/26
Case Type: MS-4
Complainant Name: DEP
Complainant Address: 909 Elmerton Ave
Complainant Phone: (717)705-4709
Complainant Email:
Description: Chlorinate Pool Water
Follow-Up 1:
Follow-Up 2:
Address of Violation: 45 Cypress Lane
Violation City, State, Zip: Carlisle Pa. 17015
Violator Name: Country Manor West MHP
Violator Mailing Address: 45 Cypress Lane
Mailing City, State, Zip: Carlisle, Pa. 17015
Violator Phone:
Violator Email:
Status: Closed
Assigned To: Gerald Steigleman

Property

Parcel #	Address	Legal Description	Owner Name	Owner Phone	Zoning
21-06-0015-002	45 CYPRESS LANE	LOT 1 (415 LOTS)	PERANO, FRANK		

Notes

Date	Note	Created By:
05/01/2026	DEP received a complaint that Country Manor West MHP was emptying the swimming pool chlorine water out onto the grass and into the Conodoguinet creek within a few 100 yards of of the creek. I investigated the complaint. I arrived at Country Manor West Mobile Home Park, pool area, and spoke to Scot Furman, park manager, about the complaint. We went to the pool area, where he was pumping the swimming pool out onto the lawn area. The water was sheet flowing out onto a large grassy area outside of the pool area. This area was approximately 167 feet by 90 feet. The water was spreading uniformly across the area and seeping into the ground. There was no erosion in the area. The water would have to flow downhill into a wooded area and then onto a marshy area before going into the Conodoguinet Creek which is approximately 600 feet from the pool area. The swimming pool was closed during covid in 2020. There is no chlorinated water in the pool. They are pumping the pool to clean the pool and to replace the water this summer to open the pool to the residents	Gerald Steigleman

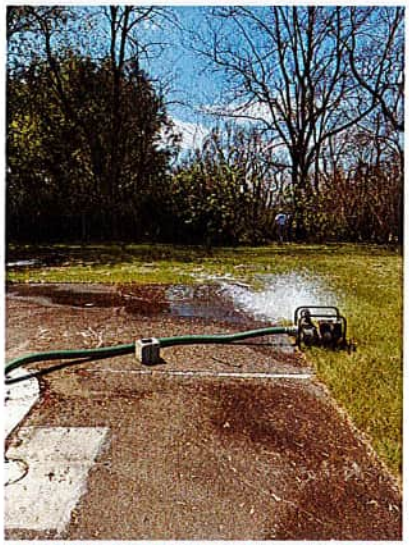
Uploaded Files

Date	File Name

07/20/2026



07/20/2026



07/20/2026



07/20/2026



Case #: 20250019
Case Date: 06/16/25
Case Type: MS-4
Complainant Name: Tony Caruso
Complainant Address:
Complainant Phone: (717(649-9631
Complainant Email: anthonycaruso71@gmail.com
Description: HOA Board
Follow-Up 1:
Follow-Up 2:
Address of Violation: 29 Countryside Drive
Violation City, State, Zip: Carlisle, Pa. 17013
Violator Name: Kashi Mohara
Violator Mailing Address: 29 Countryside Drive
Mailing City, State, Zip: Carlisle, Pa. 17013
Violator Phone: (704)606-7075
Violator Email: Kashimohara1988@gmail.com
Status: Closed
Assigned To: Gerald Steigleman

Property

Parcel #	Address	Legal Description	Owner Name	Owner Phone	Zoning
21-06-0019-105	29 COUNTRY SIDE DRIVE	LOT 185 PL#202136467 PH IX	MOHARA, NAINA K		

Activities

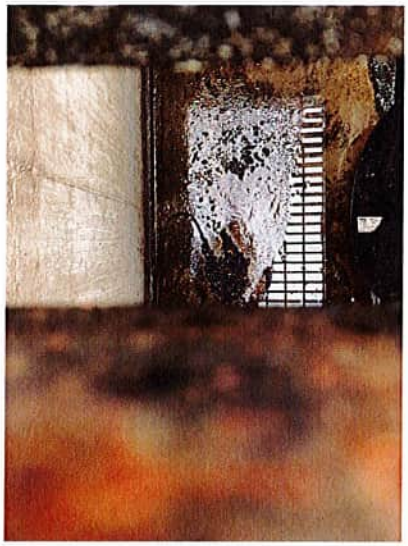
Date	Activity Type	Description	Employee	Status
06/16/2025	Initial Site Visit	I received an Email from Mr. Caruso who advised he is with the HOA with the development. He had a concerned resident that 2 males had a large metal pot. cross the street and dumped fluid into the Storm Water inlet. I arrived at the location and saw there was an oil substance at the bottom of the inlet. I stopped at 29 Countryside Drive and spoke to Mr. Mohara. He stated he was not aware that he could not dump water in the inlet. I advised him of my findings. He stated he was boiling beef in water and the oily substance was beef fat that I saw. I contacted the roadmaster and he arrived and advised it was a small amount of oil and animal fat would not harm the environment. Mr. Mohara was made aware that he was not permitted to dump anything else in the inlet. He understood.	Gerald Steigleman	Completed

Violations

Date	Violation	Description	Notes	Status

06/16/2025	MS-4 Illicit Dumping in Storm Water Inlet	dumped oil into Storm Inlet	dumped a liquid into Storm Water inlet	Active

Uploaded Files

Date	File Name
06/16/2025	

3c - Outfall and Receiving Stream Inventory

Outfall and Receiving Stream Inventory

9/20/2026

Structure Number	Structure Type	Latitude	Longitude	HUC 12	Reach Code	Chapter 93 Designated Use	Watercourse Name
01.20.001	Impaired Outfall	40.2144145	-77.1663706	Letort Spring Run	02050305000421	CWF	Letort Spring Run
03.20.001	Impaired Outfall	40.2156541	-77.163612	Letort Spring Run	02050305003537	CWF	Letort Spring Run UNT
04.20.001	Impaired Outfall	40.2151024	-77.1635466	Letort Spring Run	02050305003537	CWF	Letort Spring Run UNT
05.20.001	Impaired Outfall	40.2132764	-77.1644084	Letort Spring Run	02050305003537	CWF	Letort Spring Run UNT
06.20.001	Impaired Outfall	40.2176139	-77.1619915	Letort Spring Run	02050305000421	CWF	Letort Spring Run
07.20.001	Impaired Outfall	40.2177961	-77.16134	Letort Spring Run	02050305000421	CWF	Letort Spring Run
08.20.001	Impaired Outfall	40.2179994	-77.1613083	Letort Spring Run	02050305000421	CWF	Letort Spring Run
09.20.001	Impaired Outfall	40.2183143	-77.1600422	Letort Spring Run	02050305000421	CWF	Letort Spring Run
10.20.001	Impaired Outfall	40.218438	-77.1599898	Letort Spring Run	02050305000421	CWF	Letort Spring Run
11.20.001	Impaired Outfall	40.2184998	-77.159766	Letort Spring Run	02050305000421	CWF	Letort Spring Run
12.20.001	Impaired Outfall	40.2189111	-77.1580894	Letort Spring Run	02050305000421	CWF	Letort Spring Run
13.20.001	Impaired Outfall	40.2196759	-77.1576259	Letort Spring Run	02050305000421	CWF	Letort Spring Run
14.20.001	Impaired Outfall	40.2210443	-77.1562991	Letort Spring Run	02050305000421	CWF	Letort Spring Run
15.20.001	Impaired Outfall	40.2223657	-77.1519547	Letort Spring Run	02050305000421	CWF	Letort Spring Run
16.20.001	Impaired Outfall	40.2228097	-77.1510353	Letort Spring Run	02050305000421	CWF	Letort Spring Run
17.60.001	Nonimpaired Outfall	40.2244621	-77.1485422	Letort Spring Run	02050305000421	CWF	Letort Spring Run
18.60.001	Nonimpaired Outfall	40.2248963	-77.1475661	Letort Spring Run	02050305000421	CWF	Letort Spring Run
19.60.001	Nonimpaired Outfall	40.2249025	-77.1471213	Letort Spring Run	02050305000421	CWF	Letort Spring Run
20.60.001	Nonimpaired Outfall	40.2254449	-77.1466895	Letort Spring Run	02050305000421	CWF	Letort Spring Run
21.60.001	Nonimpaired Outfall	40.2259434	-77.1461736	Letort Spring Run	02050305000421	CWF	Letort Spring Run
22.60.001	Nonimpaired Outfall	40.2280759	-77.1408807	Letort Spring Run	02050305000421	CWF	Letort Spring Run
23.60.001	Nonimpaired Outfall	40.2282613	-77.1407249	Letort Spring Run	02050305000421	CWF	Letort Spring Run
24.60.001	Nonimpaired Outfall	40.2282421	-77.1404388	Letort Spring Run	02050305000421	CWF	Letort Spring Run
25.60.001	Nonimpaired Outfall	40.2304083	-77.1380126	Letort Spring Run	02050305000421	CWF	Letort Spring Run
26.60.001	Nonimpaired Outfall	40.2319538	-77.135122	Letort Spring Run	02050305003413	HQ-CWF	Trib 10262 To Letort Spring Run
27.60.001	Nonimpaired Outfall	40.2307713	-77.1339732	Letort Spring Run	02050305003413	CWF	Letort Spring Run UNT
28.60.001	Nonimpaired Outfall	40.2289089	-77.1324423	Letort Spring Run	02050305003413	HQ_CWF	Trib 10262 To Letort Spring Run
29.60.001	Nonimpaired Outfall	40.2282375	-77.132212	Letort Spring Run	02050305003413	CWF	Letort Spring Run UNT
30.60.001	Nonimpaired Outfall	40.2282482	-77.1321546	Letort Spring Run	02050305003413	CWF	Letort Spring Run UNT
31.60.001	Nonimpaired Outfall	40.2278313	-77.11319802	Letort Spring Run	02050305003413	CWF	Letort Spring Run UNT
32.60.001	Nonimpaired Outfall	40.2278027	-77.1320162	Letort Spring Run	02050305003413	CWF	Letort Spring Run UNT

Outfall and Receiving Stream Inventory

9/20/2026

Structure Number	Structure Type	Latitude	Longitude	HUC 12	Reach Code	Chapter 93 Designated Use	Watercourse Name
33.60.001	Nonimpaired Outfall	40.22759	-77.1320356	Letort Spring Run	02050305003413	CWF	Letort Spring Run UNT
34.60.001	Nonimpaired Outfall	40.226812	-77.1313657	Letort Spring Run	02050305003413	CWF	Letort Spring Run UNT
35.60.001	Nonimpaired Outfall	40.22644	-77.1314231	Letort Spring Run	02050305003413	CWF	Letort Spring Run UNT
36.60.001	Nonimpaired Outfall	40.2322964	-77.1363766	Letort Spring Run	02050305000421	CWF	Letort Spring Run
37.60.001	Nonimpaired Outfall	40.2333531	-77.1371928	Letort Spring Run	02050305000421	CWF	Letort Spring Run
38.60.001	Nonimpaired Outfall	40.233519	-77.1386394	Letort Spring Run	02050305000421	CWF	Letort Spring Run
39.60.001	Nonimpaired Outfall	40.2340978	-77.1387776	Letort Spring Run	02050305000421	CWF	Letort Spring Run
41.60.001	Nonimpaired Outfall	40.2345634	-77.1393055	Letort Spring Run	02050305000421	CWF	Letort Spring Run
42.60.001	Nonimpaired Outfall	40.2345904	-77.1394776	Letort Spring Run	02050305000421	CWF	Letort Spring Run
43.60.001	Nonimpaired Outfall	40.2345889	-77.1407675	Letort Spring Run	02050305000421	CWF	Letort Spring Run
44.60.001	Nonimpaired Outfall	40.2345562	-77.1417173	Letort Spring Run	02050305000421	CWF	Letort Spring Run
45.60.001	Nonimpaired Outfall	40.2348852	-77.1418881	Letort Spring Run	02050305000421	CWF	Letort Spring Run
46.60.001	Nonimpaired Outfall	40.2350125	-77.141815	Letort Spring Run	02050305000421	CWF	Letort Spring Run
47.20.001	Impaired Outfall	40.2352354	-77.1424776	Wertz Run-Conodogui	02050305000205	WWF	Conodoguinet Creek
48.20.001	Impaired Outfall	40.2357508	-77.1438887	Wertz Run-Conodogui	02050305000206	WWF	Conodoguinet Creek
49.20.001	Impaired Outfall	40.2358646	-77.1393235	Simmons Creek-Cono	02050305000204	WWF	Conodoguinet Creek
50.20.001	Impaired Outfall	40.2364041	-77.1448427	Wertz Run-Conodogui	02050305000206	WWF	Conodoguinet Creek
51.20.001	Impaired Outfall	40.2372938	-77.1466284	Wertz Run-Conodogui	02050305000206	WWF	Conodoguinet Creek
52.20.001	Impaired Outfall	40.2456365	-77.1623867	Wertz Run-Conodogui	02050305003363	WWF	Conodoguinet Tributary
53.20.001	Impaired Outfall	40.2398134	-77.1634714	Wertz Run-Conodogui	02050305000206	WWF	Conodoguinet Creek
54.20.001	Impaired Outfall	40.2400125	-77.1648507	Wertz Run-Conodogui	02050305000206	WWF	Conodoguinet Creek
55.20.001	Impaired Outfall	40.2445277	-77.1680103	Wertz Run-Conodogui	02050305003369	WWF	Conodoguinet Tributary
56.60.001	Nonimpaired Outfall	40.2315962	-77.1691646	Wertz Run-Conodogui	02050305000844	WWF	Conodoguinet Tributary
57.60.001	Nonimpaired Outfall	40.2312393	-77.1692628	Wertz Run-Conodogui	02050305000844	WWF	Conodoguinet Tributary
58.20.001	Impaired Outfall	40.244055	-77.1754804	Wertz Run-Conodogui	02050305000494	WWF	Wertz Run
59.20.001	Impaired Outfall	40.2457235	-77.175683	Wertz Run-Conodogui	02050305000494	WWF	Wertz Run
60.60.001	Nonimpaired Outfall	40.248015	-77.1746621	Wertz Run-Conodogui	02050305003339	WWF	Wertz Run-UNT Trib
61.60.001	Nonimpaired Outfall	40.2488878	-77.1736492	Wertz Run-Conodogui	02050305003339	WWF	Wertz Run-UNT Trib
62.60.001	Nonimpaired Outfall	40.2491385	-77.1733207	Wertz Run-Conodogui	02050305003339	WWF	Wertz Run-UNT Trib
63.60.001	Nonimpaired Outfall	40.2525378	-77.1705426	Wertz Run-Conodogui	02050305003339	WWF	Wertz Run-UNT Trib
64.60.001	Nonimpaired Outfall	40.2527052	-77.1706372	Wertz Run-Conodogui	02050305003339	WWF	Wertz Run-UNT Trib

Outfall and Receiving Stream Inventory

9/20/2026

Structure Number	Structure Type	Latitude	Longitude	HUC 12	Reach Code	Chapter 93 Designated Use	Watercourse Name
65.60.001	Nonimpaired Outfall	40.2544601	-77.1684081	Wertz Run-Conodogui	02050305003339	WWF	Wertz Run-UNT Trib
66.60.001	Nonimpaired Outfall	40.2549806	-77.1687279	Wertz Run-Conodogui	02050305003339	WWF	Wertz Run-UNT Trib
67.60.001	Nonimpaired Outfall	40.2573692	-77.1724007	Wertz Run-Conodogui	02050305003322	WWF	Wertz Run-UNT Trib
68.60.001	Nonimpaired Outfall	40.2580272	-77.1759544	Wertz Run-Conodogui	02050305003322	WWF	Wertz Run-UNT Trib
69.60.001	Nonimpaired Outfall	40.2585011	-77.1750981	Wertz Run-Conodogui	02050305003322	WWF	Wertz Run-UNT Trib
70.60.001	Nonimpaired Outfall	40.26012	-77.1732067	Wertz Run-Conodogui	02050305003322	WWF	Wertz Run-UNT Trib
71.60.001	Nonimpaired Outfall	40.2610438	-77.1753041	Wertz Run-Conodogui	02050305003322	WWF	Wertz Run-UNT Trib
72.60.001	Nonimpaired Outfall	40.2613372	-77.1742975	Wertz Run-Conodogui	02050305003322	WWF	Wertz Run-UNT Trib
73.60.001	Nonimpaired Outfall	40.2625785	-77.1732406	Wertz Run-Conodogui	02050305003322	WWF	Wertz Run-UNT Trib
74.60.001	Nonimpaired Outfall	40.261865	-77.18032	Wertz Run-Conodogui	02050305003313	WWF	Wertz Run-UNT Trib
75.60.001	Nonimpaired Outfall	40.2628372	-77.1765249	Wertz Run-Conodogui	02050305003313	WWF	Wertz Run-UNT Trib
76.60.001	Nonimpaired Outfall	40.2646098	-77.1776643	Wertz Run-Conodogui	02050305003313	WWF	Wertz Run-UNT Trib
77.20.001	Impaired Outfall	40.262262	-77.160648	Wertz Run-Conodogui	02050305000676	WWF	Spring Run
78.20.001	Impaired Outfall	40.265096	-77.161249	Wertz Run-Conodogui	02050305000676	WWF	Spring Run
79.20.001	Impaired Outfall	40.2646098	-77.1776643	Simmons Creek-Cono	02050305003245	WWF	Conodoguinet Tributary
80.20.001	Impaired Outfall	40.2131444	-77.0982038	Hogestown Run	02050305000404	CWF	Hogestown Run
81.20.001	Impaired Outfall	40.2123951	-77.109767	Hogestown Run	02050305003499	CWF	Hogestown Run Trib
82.60.001	Nonimpaired Outfall	40.2294218	-77.139306	Letort Spring Run	02050305000421	CWF	Letort Spring Run
83.60.001	Nonimpaired Outfall	40.2285582	-77.1402548	Letort Spring Run	02050305000421	CWF	Letort Spring Run
943.60.001	Nonimpaired Outfall	40.234585	-77.140639	Letort Spring Run	02050305000421	CWF	Letort Spring Run
99.60.001	Nonimpaired Outfall	40.2337049	-77.1387	Letort Spring Run	02050305000421	CWF	Letort Spring Run

MCM #4 – CONSTRUCTION SITE STORMWATER RUNOFF CONTROL ATTACHMENTS

4a - Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026

Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026

PERMIT NUMBER	PERMIT DATE	PROPERTY OWNER OR APPLICANT	PROJECT LOCATION	PARCEL NUMBER	DESCRIPTION OF IMPROVEMENT (NEW RES BLDGS- #STORIES, #BATHS # BDRMS, BSMNT FIN/UNFIN); (NEW NONRES BLDGS, # STORIES, TOTAL SQ FT)
25-96	7/1/2025	ROY SALISBURY III	7804 WERTZVILLE RD, CARLISLE, PA 17013	21-13-0971-008	R-EI EXPAND / IMPROVE-DETACHED GARAGE
25-97	7/1/2025	CHARTER HOMES	11 CHAROLAIS ST, CARLISLE, PA 17015	21-08-0575-163	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=3, BSMNT=UNFIN
25-98	7/1/2025	CHARTER HOMES	1 SURGE WAY, CARLISLE, PA 17015	21-08-0575-168	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=4.5, # BDRMS=6, BSMNT=FIN 680 SF/UNFIN 1146 SF
25-99	7/7/2025	TRADESMAN CONSTRUCTION	3 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-198	R-EI EXPAND / IMPROVE-REAR PORCH ADDITION
25-100	7/10/2025	BERKS NEW HOMES LLC	15 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-203	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=5, # BDRMS=6, BSMNT=FIN 861 SF/NON FIN 1487 SF
25-101	7/10/2025	CHARTER HOMES	3 GRANERY RD, CARLISLE, PA 17015	21-08-0575-183U176	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=2.5, # BDRMS=2, BSMNT=NONE
25-102	7/10/2025	CHARTER HOMES	5 GRANERY RD, CARLISLE, PA 17015	21-08-0575-183U175	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=2.5, # BDRMS=2, BSMNT=NONE
25-103	7/10/2025	CHARTER HOMES	7 GRANERY RD, CARLISLE, PA 17015	21-08-0575-183U174	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=2.5, # BDRMS=2, BSMNT=NONE
25-104	7/10/2025	CHARTER HOMES	9 GRANERY RD, CARLISLE, PA 17015	21-08-0575-183U173	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=2.5, # BDRMS=2, BSMNT=NONE
25-105	7/23/2025	WANDA WEISER	48 WHEATFIELD DR, CARLISLE, PA 17015	21-05-0433-074	R-EI EXPAND / IMPROVE-REAR PORCH ADDITION
25-106	7/24/2025	BERKS NEW HOMES LLC	9 GARNER LANE, CARLISLE, PA 17015	21-07-0465-224	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=3, BSMNT=UNFIN
25-107	7/25/2025	CHARTER HOMES	8 SAGE ST, CARLISLE, PA 17015	21-08-0575-173	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=UNFIN
25-108	8/4/2025	DAVID SEAMAN	332 N MIDDLESEX RD, CARLISLE, PA 17013	21-13-0971-031	R-EI EXPAND / IMPROVE-DETACHED GARAGE
25-109	8/6/2025	LAURA DRIES	30 RIDGE DRIVE, CARLISLE, PA 17015	21-08-0573-157	R-EI EXPAND / IMPROVE-STAIRS FROM REAR PORCH
25-110	8/7/2025	SANGEETA SHIELDS	5 RIDGE DR, CARLISLE, PA 17015	21-08-0573-160	R-EI EXPAND / IMPROVE-REPLACE REAR DECK
25-111	8/7/2025	JOHN ALLEN	221 S MIDDLESEX RD, CARLISLE, PA 17015	21-08-0573-011	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 22.14 KW DC
25-112	8/15/2025	GARMAN BUILDERS	17 OLD MOSS LANE, CARLISLE, PA 17013	21-06-0019-120	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=3.5, # BDRMS=5, BSMNT=UNFIN

*No permits with earth disturbance > 1 acre

 # notifications to CCCD = 0

Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026

PERMIT NUMBER	PERMIT DATE	PROPERTY OWNER OR APPLICANT	PROJECT LOCATION	PARCEL NUMBER	DESCRIPTION OF IMPROVEMENT (NEW RES BLDGS- #STORIES, #BATHS # BDRMS, BSMNT FIN/UNFIN); (NEW NONRES BLDGS, # STORIES, TOTAL SQ FT)
25-113	8/15/2025	EARL FRADY	7 CEDAR RD, CARLISLE, PA 17015	21-22-0128-067	R-EI EXPAND / IMPROVE-IN GROUND POOL
25-114	8/18/2025	CHARTER HOMES	1 ANN ST, CARLISLE, PA 17015	21-08-0575-191U188	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
25-115	8/18/2025	CHARTER HOMES	3 ANN ST, CARLISLE, PA 17015	21-08-0575-191U189	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
25-116	8/18/2025	CHARTER HOMES	5 ANN ST, CARLISLE, PA 17015	21-08-0575-191U190	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
25-117	8/18/2025	CHARTER HOMES	7 ANN ST, CARLISLE, PA 17015	21-08-0575-191U191	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
25-118	8/25/2025	CHICCA, LLC	1100 HARRISBURG PIKE, CARLISLE, PA 17013	21-18-1363-048	C – DEMO BUILDING, VACANT COMMERCIAL GARAGE
25-119	8/25/2025	JOHN D PRICE	1217 REDWOOD HILLS CIRCLE, CARLISLE, PA 17015	21-09-0535-002	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 23.22 KW DC
25-120	8/25/2025	LAUREN KLEBON	9 ELIZABETH WAY, CARLISLE, PA 17013	21-05-0431-087	R-EI EXPAND / IMPROVE-ELECTRIC VEHICLE CHARGER IN GARAGE
25-121	8/27/2025	MARY KLABURNER	13 LONG BEND DR, CARLISLE, PA 17015	21-07-0465-150	R-EI EXPAND / IMPROVE-REAR DECK
25-122	8/27/2025	JMCK ENTERPRISE, LLC	393 SHERWOOD DR, CARLISLE, PA 17015	21-05-0431-019	R-EI EXPAND / IMPROVE-RENOVATE ENTIRE SFD DWELLING
25-123	8/27/2025	CHARTER HOMES	14 SNAP DRAGON RD, CARLISLE, PA 17015	21-08-0575-194	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=3, BSMNT=UNFIN
25-124	8/27/2025	CHARTER HOMES	1 CHAROLAIS ST, CARLISLE, PA 17015	21-08-0575-159	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=4, # BDRMS=6, BSMNT=UNFIN
25-125	8/27/2025	CHARTER HOMES	9 CHAROLAIS ST, CARLISLE, PA 17015	21-08-0575-162	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=3.5, # BDRMS=4, BSMNT=FIN 681 SF/NON FIN 401 SF
25-126	9/8/2025	RONALD ANKABRANDT	3 WAGON WAY, CARLISLE, PA 17015	21-08-0575-147	R-EI EXPAND / IMPROVE-REAR DECK
25-127	9/8/2025	RYAN RAMSAUER	24 FARMHOUSE LANE, CARLISLE, PA 17013	21-06-0019-046	R-EI EXPAND / IMPROVE-REAR PORCH & DECK
25-128	9/8/2025	GARMAN BUILDERS	16 OLD MOSS LANE, CARLISLE, PA 17013	21-06-0019-124	R-EI EXPAND / IMPROVE-REAR DECK
25-129	9/8/2025	ERIN RICHETTI	25 COUNTRY SIDE DRIVE, CARLISLE, PA 17013	21-06-0019-103	R-EI EXPAND / IMPROVE-FINISH PO BASEMENT
25-130	9/8/2025	W121 WILL FARM LLC	GARNER LANE, CARLISLE, PA 17015	21-07-0465-225	C – EXPAND / IMPROVE, RETAINING WALL AT CUMBERLAND PRESERVE
25-131	9/11/2025	JASON DEVINE	6 CEDAR ROAD, CARLISLE, PA 17015	21-22-0128-073	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 18.2 KW DC

*No permits with earth disturbance > 1 acre

 # notifications to CCCD = 0

Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026

PERMIT NUMBER	PERMIT DATE	PROPERTY OWNER OR APPLICANT	PROJECT LOCATION	PARCEL NUMBER	DESCRIPTION OF IMPROVEMENT (NEW RES BLDGS- #STORIES, #BATHS # BDRMS, BSMNT FIN/UNFIN); (NEW NONRES BLDGS, # STORIES, TOTAL SQ FT)
25-132	9/12/2025	DEONNA GARDEA	9 LONG BEND DRIVE, CARLISLE, PA 17015	21-07-0465-152	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 10.66 KW DC
25-133	9/22/2025	PAUL HARTMAN	132 HICKORYTOWN ROAD, CARLISLE, PA 17015	21-08-0573-172	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=4.5, # BDRMS=6, BSMNT=FIN 1025 SF/NON FIN 1136 SF
25-134	9/25/2025	PFJ SOUTHEAST LLC	1501 HARRISBURG PIKE, CARLISLE, PA 17015	21-07-0465-010	C – EXPAND / IMPROVE, REPLACE ROOFTOP HVAC EQUIPMENT
25-135	9/25/2025	RUTTERS FARM STORE #64	1150 HARRISBURG PIKE, CARLISLE, PA 17013	21-07-0467-034	C – EXPAND / IMPROVE, REPLACE ROOFTOP HVAC EQUIPMENT
25-136	9/26/2025	ED KENNEDY	16 RIDGE DRIVE, CARLISLE, PA 17015	21-08-0573-155	R-EI EXPAND / IMPROVE-REPAIR REAR DECK
25-137	9/29/2025	GARMAN BUILDERS	18 OLD MOSS LANE, CARLISLE, PA 17013	21-06-0019-123	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1123 SF
25-138	9/29/2025	DOUG ROTZ	382 N MIDDLESEX ROAD, CARLISLE, PA 17013	21-13-0971-017	R-EI EXPAND / IMPROVE-REPLACE ROOF DECK & ROOFING
25-139	9/29/2025	CHARTER HOMES	18 SNAP DRAGON ROAD, CARLISLE, PA 17015	21-08-0575-196	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 900 SF
25-140	9/29/2025	CHARTER HOMES	19 CHAROLAIS STREET, CARLISLE, PA 17015	21-08-0575-167	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1052 SF
25-141	9/30/2025	CHARTER HOMES	13 SNAP DRAGON ROAD, CARLISLE, PA 17015	21-08-0575-210U182	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
25-142	9/30/2025	CHARTER HOMES	15 SNAP DRAGON ROAD, CARLISLE, PA 17015	21-08-0575-210U183	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
25-143	9/30/2025	CHARTER HOMES	17 SNAP DRAGON ROAD, CARLISLE, PA 17015	21-08-0575-210U184	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
25-144	9/30/2025	CHARTER HOMES	19 SNAP DRAGON ROAD, CARLISLE, PA 17015	21-08-0575-210U185	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
25-145	9/30/2025	CHARTER HOMES	21 SNAP DRAGON ROAD, CARLISLE, PA 17015	21-08-0575-210U186	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
25-146	9/30/2025	CHARTER HOMES	23 SNAP DRAGON ROAD, CARLISLE, PA 17015	21-08-0575-210U187	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE

*No permits with earth disturbance > 1 acre

 # notifications to CCCD = 0

Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026

PERMIT NUMBER	PERMIT DATE	PROPERTY OWNER OR APPLICANT	PROJECT LOCATION	PARCEL NUMBER	DESCRIPTION OF IMPROVEMENT (NEW RES BLDGS- #STORIES, #BATHS # BDRMS, BSMNT FIN/UNFIN); (NEW NONRES BLDGS, # STORIES, TOTAL SQ FT)
25-147	10/2/2025	JEREMY MURPHY	458 WOLFS BRIDGE RD, CARLISLE, PA 17013	21-14-0867-034	R-EI EXPAND / IMPROVE, DETACHED GARAGE, 24' X 32'
25-148	10/3/2025	STEVE DEDERER	85 HOOVER RD, CARLISLE, PA 17015	21-08-0573-071	R-EI EXPAND / IMPROVE, DETACHED GARAGE, 30' X 32'
25-149	10/6/2025	BRANDON WERNER	7 WHEATFIELD DR, CARLISLE, PA 17015	21-05-0433-052	R-EI EXPAND / IMPROVE, IN GROUND POOL & BARRIER
25-150	10/6/2025	AVINASH SAJJA	5 SEOVER WAY, CARLISLE, PA 17015	21-08-0575-141	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 10 KW DC
25-151	10/6/2025	SHEETZ #191	1098 HARRISBURG PIKE, CARLISLE, PA 17013	21-07-0467-050	C – EXPAND / IMPROVE, REPLACE 4 ELECTRIC VEHICLE CHARGERS
25-152	10/9/2025	SHANE FLEMMING	22 ELIZABETH WAY, CARLISLE, PA 17013	21-05-0431-089	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=1, #BATHS=3.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 2695 SF
25-153	10/15/2025	RYAN BLOOD	38 RIDGE DR, CARLISLE, PA 17015	21-08-0573-167	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 2570 SF
25-154	10/15/2025	ABF FREIGHT SYSTEM INC	2001 HARRISBURG PIKE, CARLISLE, PA 17015	21-07-0463-003	I – EXPAND / IMPROVE, RENOVATE LINEHAUL BUILDING
25-155	10/15/2025	SEFIK BECIROVIC	12 OLD MOSS LANE, CARLISLE, PA 17013	21-06-0019-126	R-EI EXPAND / IMPROVE, REAR DECK
25-156	10/15/2025	DAMBER DAHAL	32 LONG BEND DR, CARLISLE, PA 17015	21-07-0465-158	R-EI EXPAND / IMPROVE, REAR DECK
25-157	10/21/2025	OWEN MEALS	50 RIDGE DR, CARLISLE, PA 17015	21-08-0573-035	R-D DEMO ACCESSORY BARN STRUCTURE
25-158	10/21/2025	INDRANIL CHAKRABARTI	6 RIDGE DR, CARLISLE, PA 17015	21-08-0573-152	R-EI EXPAND / IMPROVE, REAR SUNROOM ADDITION
25-159	10/29/2025	BERKS NEW HOMES LLC	19 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-205	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=3, # BDRMS=5, BSMNT=FIN 0 SF/NON FIN 1567 SF
25-160	10/29/2025	BERKS NEW HOMES LLC	10 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-213	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1299 SF
25-161	10/29/2025	CHARTER HOMES	16 CHAROLAIS ST, CARLISLE, PA 17015	21-08-0575-185	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 970 SF
25-162	11/3/2025	HENRY BRICKEY	5 ELIZABETH WAY, CARLISLE, PA 17013	21-05-0431-085	R-EI EXPAND / IMPROVE-ELECTRICAL BACKUP GENERATOR
25-163	11/7/2025	TROY WILKINSON	105 COUNTRY CLUB RD, CARLISLE, PA 17015	21-17-2692-064	R-EI EXPAND / IMPROVE-FOUNDATION WALL REPAIRS
25-164	11/7/2025	CHARTER HOMES	2 SAGE ST, CARLISLE, PA 17015	21-08-0575-170	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1199 SF

*No permits with earth disturbance > 1 acre

 # notifications to CCCD = 0

Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026

PERMIT NUMBER	PERMIT DATE	PROPERTY OWNER OR APPLICANT	PROJECT LOCATION	PARCEL NUMBER	DESCRIPTION OF IMPROVEMENT (NEW RES BLDGS- #STORIES, #BATHS # BDRMS, BSMNT FIN/UNFIN); (NEW NONRES BLDGS, # STORIES, TOTAL SQ FT)
25-165	11/13/2025	THILAK NATARAJAN	40 LONG BEND DR, CARLISLE, PA 17015	21-07-0465-115	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 5.74 KW DC
25-166	11/13/2025	DEEPAK GUPTA	38 LONG BEND DR, CARLISLE, PA 17015	21-07-0465-114	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 8.61 KW DC
25-167	11/13/2025	KUMUD PATEL	27 COUNTRY SIDE DR, CARLISLE, PA 17013	21-06-0019-104	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 13.76 KW DC
25-168	11/13/2025	ELIZABETH FRANTZ	6 OLD MOSS LANE, CARLISLE, PA 17013	21-06-0019-129	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 11.5 KW DC
25-169	11/14/2025	ASHLEY WEIBLEY	221 RIDGE DR, CARLISLE, PA 17015	21-22-0128-001	R-EI EXPAND / IMPROVE-816 SF ADDITION TO SFDD
25-170	11/18/2025	PYROTEK	1285 CLAREMONT RD, CARLISLE, PA 17015	21-07-0465-031	R-EI EXPAND / IMPROVE-UPGRADE FIRE ALARM SYSTEM
25-171	11/24/2025	BERKS NEW HOMES LLC	13 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-202	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1149 SF
25-172	11/24/2025	BERKS NEW HOMES LLC	14 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-211	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1573 SF
25-173	11/25/2025	BERKS NEW HOMES LLC	14 GREENCREST PATH, CARLISLE, PA 17015	21-07-0465-220	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=4, # BDRMS=4, BSMNT=FIN 862 SF/NON FIN 721 SF
25-174	12/2/2025	RALPH DEITCH	390 S MIDDLESEX RD, CARLISLE, PA 17015	21-08-0573-030	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 33.6 KW DC
25-175	12/4/2025	NICHOLAS CHIUMENTO	2 RIDGE AVE, CARLISLE, PA 17015	21-14-0867-004	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 5.33 KW DC
25-176	12/4/2025	JOHN ATTICKS	59 COUNTRY CLUB RD, CARLISLE, PA 17015	21-17-2692-033	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 11.89 KW DC
25-177	12/5/2025	A&C GARAGE	1129 HARRISBURG PIKE, CARLISLE, PA 17013	21-08-1363-061	C – EXPAND / IMPROVE, CERT OF U&O FOR EXISTING GARAGE BLDG
25-178	12/9/2025	CHARTER HOMES	15 SILO ST, CARLISLE, PA 17015	21-08-0575-229U151	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=2.5, # BDRMS=3, BSMNT=NONE
25-179	12/9/2025	CHARTER HOMES	17 SILO ST, CARLISLE, PA 17015	21-08-0575-229U152	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=2.5, # BDRMS=3, BSMNT=NONE
25-180	12/9/2025	CHARTER HOMES	19 SILO ST, CARLISLE, PA 17015	21-08-0575-229U153	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=2.5, # BDRMS=3, BSMNT=NONE

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Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026

PERMIT NUMBER	PERMIT DATE	PROPERTY OWNER OR APPLICANT	PROJECT LOCATION	PARCEL NUMBER	DESCRIPTION OF IMPROVEMENT (NEW RES BLDGS- #STORIES, #BATHS # BDRMS, BSMNT FIN/UNFIN); (NEW NONRES BLDGS, # STORIES, TOTAL SQ FT)
25-181	12/9/2025	CHARTER HOMES	21 SILO ST, CARLISLE, PA 17015	21-08-0575-229U154	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=2.5, # BDRMS=3, BSMNT=NONE
25-182	12/11/2025	1184 HARRISBURG PIKE LLC	1184 HARRISBURG PIKE, CARLISLE, PA 17013	21-17-2696-020	C – DEMO BUILDING
25-183	12/11/2025	SAIA MOTOR FREIGHT LINE LLC	80 ROADWAY DR, CARLISLE, PA 17015	21-07-0465-096	I – EXPAND / IMPROVE, DEMO EXISTING OFFICE & 2 STORY OFFICE ADDITION TO EXISTING TRUCK TERMINAL
25-184	12/12/2025	LOGAN CAMPBELL	30 PROSPECT DR, CARLISLE, PA 17015	21-22-0119-056	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 9.43 KW DC
25-185	12/16/2025	BERKS NEW HOMES LLC	4 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-216	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=3.5, # BDRMS=4, BSMNT=FIN 758 SF/NON FIN 590 SF
25-186	12/16/2025	BERKS NEW HOMES LLC	2 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-217	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1158 SF
25-187	12/16/2025	BERKS NEW HOMES LLC	17 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-204	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=4, # BDRMS=5, BSMNT=FIN 862 SF/NON FIN 713 SF
25-188	12/29/2025	PHILLIP MILES	3357 SPRING RD, CARLISLE, PA 17013	21-05-0429-014B	C – DEMO BUILDING, FIRE DAMAGED BARN
25-189	12/29/2025	BRAD GRISSINGER	7 OAK RIDGE DR, CARLISLE, PA 17015	21-22-0128-044	R-EI EXPAND / IMPROVE-ALTERATIONS & ADDITION
25-190	12/30/2025	MARK PHILLIPS	7391 WERTZVILLE RD, CARLISLE, PA 17015	21-11-3031-034	R-EI EXPAND / IMPROVE-DETACHED GARAGE
25-191	12/30/2025	CORTNEY DEVORE	7401 WERTZVILLE RD, CARLISLE, PA 17015	21-11-3031-007	R-EI EXPAND / IMPROVE-DEMO SHED & BUILD DETACHED GARAGE
25-192	12/30/2025	BERKS NEW HOMES LLC	16 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-210	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1735 SF
25-193	12/30/2025	BERKS NEW HOMES LLC	25 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-207	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=5, # BDRMS=5, BSMNT=FIN 860 SF/NON FIN 765 SF
26-1	1/8/2026	ELIZABETH SHRINER	150 HICKORY RD, CARLISLE, PA 17015	21-23-0583-002	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 15.58 KW DC
26-2	1/14/2026	CHARTER HOMES	3 SURGE WAY, CARLISLE, PA 17015	21-08-0575-169	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=5, # BDRMS=8, BSMNT=FIN 823 SF/NON FIN 717 SF
26-3	1/14/2026	CHARTER HOMES	6 SAGE ST, CARLISLE, PA 17015	21-08-0575-172	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=3, # BDRMS=5, BSMNT=FIN 0 SF/NON FIN 1394 SF

*No permits with earth disturbance > 1 acre

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Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026

PERMIT NUMBER	PERMIT DATE	PROPERTY OWNER OR APPLICANT	PROJECT LOCATION	PARCEL NUMBER	DESCRIPTION OF IMPROVEMENT (NEW RES BLDGS- #STORIES, #BATHS # BDRMS, BSMNT FIN/UNFIN); (NEW NONRES BLDGS, # STORIES, TOTAL SQ FT)
26-4	1/16/2026	BUCKEYE PARTNERS	50 ROADWAY DR, CARLISLE, PA 17015	21-07-0465-071	C – EXPAND / IMPROVE, ELECTRIC SERVICE FOR VALVE SITE
26-5	1/20/2026	BERKS NEW HOMES LLC	40 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-227	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 783 SF/NON FIN 591 SF
26-6	1/23/2026	GARMAN BUILDERS	4 OLD MOSS LANE, CARLISLE, PA 17013	21-06-0019-130	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 2361 SF
26-7	1/23/2026	ROLAND FENTON	187 N OLD STONEHOUSE RD, CARLISLE, PA 17015	21-08-0571-008A	R-EI EXPAND / IMPROVE-ALTERATIONS TO SMOKEHOUSE
26-8	1/26/2026	CHARTER HOMES	9 ANN ST, CARLISLE, PA 17015	21-08-0575-191U192	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
26-9	1/26/2026	CHARTER HOMES	11 ANN ST, CARLISLE, PA 17015	21-08-0575-191U193	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
26-10	1/26/2026	CHARTER HOMES	13 ANN ST, CARLISLE, PA 17015	21-08-0575-191U194	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
26-11	1/26/2026	CHARTER HOMES	15 ANN ST, CARLISLE, PA 17015	21-08-0575-191U195	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
26-12	1/26/2026	CHARTER HOMES	17 ANN ST, CARLISLE, PA 17015	21-08-0575-191U196	R-SF NEW DWLG UNIT, 1 S FAMILY ATTCH DWLG-TOWNHOUSE, #STORIES=3, #BATHS=3.5, # BDRMS=3, BSMNT=NONE
26-14	1/27/2026	BRANDON BITTING	41 CHERRY LANE, CARLISLE, PA 17015	21-06-0015-002TR00931	R-EI EXPAND / IMPROVE-REPLACE FURNACE
26-15	1/27/2026	PATRICIA ROSENDALE	255 HICKORY RD, CARLISLE, PA 17015	21-22-0128-027	R-EI EXPAND / IMPROVE-FOUNDATION STABILIZATION
26-16	1/28/2026	CHARTER HOMES	7 CHAROLAIS ST, CARLISLE, PA 17015	21-08-0575-161	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=4, # BDRMS=5, BSMNT=FIN 772 SF/NON FIN 622 SF
26-17	1/29/2026	ED MACNAMARA	25 WAGNER DR, CARLISLE, PA 17013	21-13-0968-009A	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 32.8 KW DC
26-18	1/29/2026	RUSSELL GRANBERG	8 N LETORT DR, CARLISLE, PA 17013	21-18-1357-013	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 5.33 KW DC
26-19	1/30/2026	BRIAN POMIAN	36 WHEATFIELD DR, CARLISLE, PA 17015	21-05-0433-080	R-EI EXPAND / IMPROVE-REPLACE ELECTRIC PANEL & SERVICE
26-20	2/17/2026	MATTHEW KALMANOWICZ	427 BERNHEISEL BRIDGE RD, CARLISLE, PA 17015	21-05-0433-299	R-EI EXPAND / IMPROVE-REAR PORCH
26-21	2/24/2026	GARMAN BUILDERS	8 OLD MOSS LN, CARLISLE, PA 17013	21-06-0019-128	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=3, # BDRMS=5, BSMNT=FIN 500 SF/NON FIN 1167 SF

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Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026

PERMIT NUMBER	PERMIT DATE	PROPERTY OWNER OR APPLICANT	PROJECT LOCATION	PARCEL NUMBER	DESCRIPTION OF IMPROVEMENT (NEW RES BLDGS- #STORIES, #BATHS # BDRMS, BSMNT FIN/UNFIN); (NEW NONRES BLDGS, # STORIES, TOTAL SQ FT)
26-22	2/24/2026	BERKS NEW HOMES LLC	29 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-237	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1158 SF
26-23	2/24/2026	BERKS NEW HOMES LLC	31 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-238	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=5, # BDRMS=6, BSMNT=FIN 851 SF/NON FIN 791 SF
26-24	3/3/2026	CHARTER HOMES	4 SAGE STREET, CARLISLE, PA 17015	21-08-0575-171	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 647 SF/NON FIN 736 SF
26-25	3/4/2026	CHARTER HOMES	10 SNAP DRAGON RD, CARLISLE, PA 17015	21-08-0575-192	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 900 SF
26-26	3/6/2026	JOHN RICHARDS	206 BARLEY FIELD CIRCLE, CARLISLE, PA 17015	21-05-0433-123	R-EI EXPAND / IMPROVE-REAR PORCH & STAIRS
26-27	3/10/2026	TYSON BIXLER	40 HOOVER RD, CARLISLE, PA 17015	21-08-0573-060	R-EI EXPAND / IMPROVE-REAR PORCH & PO HOUSE ROOF
26-28	3/11/2026	PROVCO PINEGOOD SUNDAY DR LLC	2 HAMPTON COURT, CARLISLE, PA 17013	21-07-0467-039	C – NEW ESTABLISHMENTS, WAWA FOOD MARKET CONVENIENCE STORE
26-29	3/17/2026	CLAYTON HOMES	74 MONARCH DR, CARLISLE, PA 17015	21-07-0463-004 (TR NOT ASSIGNED)	R-MHNR NEW DWLG UNIT, 1 NEW MNFG HOME-REPLACEMENT
26-30	3/18/2026	TOM LEBO	325 N MIDDLESEX RD, CARLISLE, PA 17013	21-05-0431-046	R-EI EXPAND / IMPROVE-NEW ELECTRIC PANEL
26-31	3/20/2026	LANDMARK BUILDERS INC	260 N OLD STONE HOUSE RD, CARLISLE, PA 17015	21-08-0573-054	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=4, # BDRMS=5, BSMNT=FIN 2000 SF/NON FIN 1027 SF
26-32	3/23/2026	GARMAN BUILDERS	14 OLD MOSS LANE, CARLISLE, PA 17013	21-06-0019-125	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=3.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1503 SF
26-33	3/23/2026	BERKS NEW HOMES LLC	36 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-231	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1296 SF
26-34	3/23/2026	BERKS NEW HOMES LLC	34 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-232	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=3, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1369 SF
26-35	3/24/2026	BERKS NEW HOMES LLC	32 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-233	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=3, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1573 SF
26-36	3/31/2026	KEITH POTTEIGER	1524 W TRINDLE RD, CARLISLE, PA 17015	21-23-0585-005	R-EI EXPAND / IMPROVE-DEMO EXISTING & NEW REAR DECK

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 # notifications to CCCD = 0

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26-37	4/3/2026	CHARTER HOMES GRS 036	18 CHAROLAIS ST, CARLISLE, PA 17015	21-08-0575-184	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=3, BSMNT=FIN 0 SF/NON FIN 1098 SF
26-38	4/3/2026	CHARTER HOMES GRS 052	16 SNAP DRAGON RD, CARLISLE, PA 17015	21-08-0575-195	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=3, BSMNT=FIN 0 SF/NON FIN 1098 SF
26-39	4/14/2026	STEVEN CARNEY	9 FARMHOUSE LN, CARLISLE, PA 17013	21-06-0019-035	R-EI EXPAND / IMPROVE-DEMO EXISTING & NEW REAR DECK
26-40	4/14/2026	ELIZABETH FRANTZ	6 OLD MOSS LANE, CARLISLE, PA 17013	21-06-0019-129	R-EI EXPAND / IMPROVE-ELECTRIC BACKUP GENERATOR
26-41	4/14/2026	ED STOVER	21 LIAM LANE, CARLISLE, PA 17015	21-04-0371-046 (TR NOT ASSIGNED)	R-MHNR NEW DWLG UNIT, 1 NEW MNFG HOME-REPLACEMENT
26-42	4/15/2026	JON BEAULIEU	7 BAYBERRY ROAD, CARLISLE, PA 17013	21-15-1253-128	R-EI EXPAND / IMPROVE-DEMO EXISTING & NEW REAR PORCH
26-43	4/16/2026	ANTHONY DELUCA	12 RIDGE DRIVE, CARLISLE, PA 17015	21-08-0573-154	R-EI EXPAND / IMPROVE-GROUND MOUNTED ACC SOLAR PV ARRAY, 20.4 KW DC
26-44	4/17/2026	CHARTER HOMES GRS 034	8 CHAROLAIS ST, CARLISLE, PA 17015	21-08-0575-186	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 627 SF/NON FIN 273 SF
26-45	4/21/2026	STEVE METZ	5 COUNTRY SIDE DR, CARLISLE, PA 17013	21-15-1253-133	R-EI EXPAND / IMPROVE-DEMO EXISTING & NEW REAR DECK
26-46	4/22/2026	SAIA MOTOR FREIGHT LINE LLC	80 ROADWAY DR, CARLISLE, PA 17015	21-07-0465-096	I-EI EXPAND / IMPROVE-REPLACE SITE LIGHTING
26-47	4/24/2026	CHARTER HOMES GRS O21	13 CHAROLAIS ST, CARLISLE, PA 17015	21-08-0575-164	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1080 SF
26-48	5/4/2026	MASTER SOLUTIONS INC	20 WOLFS BRIDGE RD, CARLISLE, PA 17013	21-07-0467-028	I – NEW BUILDING, TRAILER MANUFACTURING PAINT FACILITY
26-49	5/11/2026	PILOT TRAVEL CENTER	1501 HARRISBURG PIKE, CARLISLE, PA 17015	21-07-0465-010	I – DEMO BUILDING, CLEAN ENERGY FACILITY
26-50	5/12/2026	ORGANIC REMEDIES	305 N OLD STONEHOUSE RD, CARLISLE, PA 17015	21-07-0465-025	I-EI, FIT OUT RESTROOM, OFFICE & LAB INSIDE EXISTING FACILITY
26-51	5/15/2026	STEWART BEATTIE	241 SHADY LANE, CARLISLE, PA 17013	21-07-0467-021A	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=3, BSMNT=FIN 0 SF/NON FIN 1356 SF
26-52	5/15/2026	BERKS NEW HOMES LLC	46 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-218	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 561 SF/NON FIN 486 SF
26-53	5/15/2026	TYLER WOODLEY	3090 SPRING RD, CARLISLE, PA 17013	21-13-0966-018	R-EI EXPAND / IMPROVE-ELECTRIC PANEL & SERVICE

*No permits with earth disturbance > 1 acre

 # notifications to CCCD = 0

Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026

PERMIT NUMBER	PERMIT DATE	PROPERTY OWNER OR APPLICANT	PROJECT LOCATION	PARCEL NUMBER	DESCRIPTION OF IMPROVEMENT (NEW RES BLDGS- #STORIES, #BATHS # BDRMS, BSMNT FIN/UNFIN); (NEW NONRES BLDGS, # STORIES, TOTAL SQ FT)
26-54	5/21/2026	JOE MALPEZZI	190 HICKORY RD, CARLISLE, PA 17015	21-22-0128-017	R-EI EXPAND / IMPROVE-REPAIR REAR DECK
26-55	5/21/2026	PRABHJOT SIDHU	21 OLD MOSS LANE, CARLISLE, PA 17013	21-06-0019-122	R-EI EXPAND / IMPROVE-REAR DECK
26-56	5/21/2026	CHARTER HOMES, GRS 039	1 GRANARY RD, CARLISLE, PA 17015	21-08-0575-189	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 900 SF
26-57	5/26/2026	CHRISTINE MILLER	380 HOLLOW BROOK DR, CARLISLE, PA 17013	21-05-0431-036	R-EI EXPAND / IMPROVE-REAR DECK
26-58	5/26/2026	ED PIDGEON	255 HICKORY RD, CARLISLE, PA 17015	21-22-0128-027	R-EI EXPAND / IMPROVE-REPAIR REAR DECK
26-59	5/27/2026	ROGER PINE	135 FIELDSTONE DR, CARLISLE, PA 17015	21-05-0433-190	R-EI EXPAND / IMPROVE-REPAIR REAR DECK
26-60	5/27/2026	DONALD BRADLEY	101 FIELDSTONE DR, CARLISLE, PA 17015	21-05-0433-108	R-EI EXPAND / IMPROVE-ELECTRIC BACKUP GENERATOR
26-61	5/27/2026	JESSICA HUMPHREYS	1506 W TRINDLE RD, CARLISLE, PA 17015	21-23-0585-013	R-DEMOLISH DWELLING UNIT, 1 SINGLE FAMILY DET DWELLING
26-62	5/27/2026	RONALD MORRIS	13 COUNTRYSIDE DR, CARLISLE, PA 17013	21-06-0019-020	R-EI EXPAND / IMPROVE-REAR DECK & HOT TUB
26-63	5/28/2026	BRETT WEIGLE	7 FARMHOUSE LN, CARLISLE, PA 17013	21-06-0019-034	R-EI EXPAND / IMPROVE-REPAIR ELECTRIC SERVICE
26-64	5/29/2026	COUNTRY MANOR WEST LLC	50 BUCKEYE LN, CARLISLE, PA 17015	21-06-0015-002 (TR UNKNOWN)	R-D DEMO DWLNG UNIT, 1 USED MNFG HOME
26-65	5/29/2026	COUNTRY MANOR WEST LLC	3 CHERRY LN, CARLISLE, PA 17015	21-06-0015-002 TR 06228	R-D DEMO DWLNG UNIT, 1 USED MNFG HOME
26-66	5/29/2026	COUNTRY MANOR WEST LLC	3 PEACH LN, CARLISLE, PA 17015	21-06-0015-002 (TR UNKNOWN)	R-D DEMO DWLNG UNIT, 1 USED MNFG HOME
26-67	5/29/2026	HENRY ALDAZ	464 WOLFS BRIDGE RD, CARLISLE, PA 17013	21-14-0867-033	R-EI EXPAND / IMPROVE-RENOVATE SFD DWELLING
26-68	5/29/2026	ABF FREIGHT SYSTEM INC	2001 HARRISBURG PIKE, CARLISLE, PA 17015	21-07-0463-003	I-EI, ALTER OPEN FREIGHT DOCK, REMOVE SHIPPING OFFICE, ELECTRICAL WORK ONLY
26-69	5/29/2026	BILL SHOVER	347 N MIDDLESEX RD, CARLISLE, PA 17013	21-05-0431-041	R-EI EXPAND / IMPROVE-FRONT PORCH
26-70	6/4/2026	JAMES DAVID THRELFALL	401 HOLLOWBROOK DR, CARLISLE, PA 17013	21-05-0431-006B	R-EI EXPAND / IMPROVE-ROOF MOUNTED ACC SOLAR PV ARRAY, 16.1 KW DC
26-71	6/5/2026	CARLISLE DEVELOPMENT PARTNERS LLC	246 & 250 COUNTRY CLUB RD, CARLISLE, PA 17015	21-06-0015-001 21-06-0015-014	C – DEMO BUILDINGS, 2 HOUSES & 17 AGRICULTURAL STRUCTURES
26-72	6/8/2026	CHARTER HOMES GRS040	1 SNAP DRAGON RD, CARLISLE, PA 17015	21-08-0575-211	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=3, BSMNT=FIN 0 SF/NON FIN 736 SF
26-73	6/8/2026	GARMAN BUILDERS	19 OLD MOSS LANE, CARLISLE, PA 17013	21-06-0019-121	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 1380 SF
26-74	6/9/2026	TIMOTHY DAVIS	158 FIELDSTONE DR, CARLISLE, PA 17015	21-05-0433-224	R-EI EXPAND / IMPROVE-PAVILION

*No permits with earth disturbance > 1 acre

 # notifications to CCCD = 0

Middlesex Township Building Permit Report 7/1/2025 to 6/30/2026

PERMIT NUMBER	PERMIT DATE	PROPERTY OWNER OR APPLICANT	PROJECT LOCATION	PARCEL NUMBER	DESCRIPTION OF IMPROVEMENT (NEW RES BLDGS- #STORIES, #BATHS # BDRMS, BSMNT FIN/UNFIN); (NEW NONRES BLDGS, # STORIES, TOTAL SQ FT)
26-75	6/9/2026	FORTUNE INVESTMENT PROPERTIES LLC	151 WOLFS BRIDGE RD, CARLISLE, PA 17013	21-07-0467-025A	C – EXPAND / IMPROVE, ALTERATION FOR BANQUET HALL
26-76	6/11/2026	CLAREMONT ROAD LLC	1125 CLAREMONT RD, CARLISLE, PA 17015	21-08-0575-248	C – EXPAND / IMPROVE, RETAINING WALL FOR RV STORAGE FACILITY
26-77	6/15/2026	CHRIS KINNER	164 FIELDSTONE DR, CARLISLE, PA 17015	21-05-0433-221	R-EI EXPAND / IMPROVE-REPLACE REAR DECK
26-78	6/15/2026	JOE ARNOSO	149 FIELDSTONE DR, CARLISLE, PA 17015	21-05-0433-198	R-EI EXPAND / IMPROVE-IN GROUND POOL & BARRIER & SHED
26-79	6/15/2026	BERKS NEW HOMES LLC	12 GREENCREST PATH, CARLISLE, PA 17015	21-07-0465-246	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=4, # BDRMS=5, BSMNT=FIN 869 SF/NON FIN 739 SF
26-80	6/15/2026	BERKS NEW HOMES LLC	18 AQUILA CIRCLE, CARLISLE, PA 17015	21-07-0465-209	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=3.5, # BDRMS=5, BSMNT=FIN 449 SF/NON FIN 609 SF
26-81	6/16/2026	MARK SHEELY	19 SUEBECCA DR, CARLISLE, PA 17013	21-05-0431-116	R-EI EXPAND / IMPROVE-CONVERT 660 SF OF BSMNT TO HAB SPACE
26-82	6/16/2026	CARLISLE DEVELOPMENT PARTNERS LLC	256 COUNTRY CLUB RD, CARLISLE, PA 17015	21-06-0015-013	C – EXPAND / IMPROVE, RETAINING WALL AT PAX-1 PHASE 1-A
26-83	6/16/2026	MATTHEW KRESSLEY	39 GOLDENROD DR, CARLISLE, PA 17015	21-05-0433-149	R-EI EXPAND / IMPROVE-IN GROUND POOL & BARRIER
26-84	6/22/2026	CHARTER HOMES GRS 038	11 GRANARY RD, CARLISLE, PA 17015	21-08-0575-188	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 900 SF
26-85	6/22/2026	CHARTER HOMES GRS 033	6 CHAROLAIS ST, CARLISLE, PA 17015	21-08-0575-212	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 900 SF
26-86	6/22/2026	CHARTER HOMES GRS037	13 GRANARY RD, CARLISLE, PA 17015	21-08-0575-187	R-SF NEW DWLG UNIT, 1 SINGLE FAMILY DET DWELLING, #STORIES=2, #BATHS=2.5, # BDRMS=4, BSMNT=FIN 0 SF/NON FIN 950 SF
26-87	6/30/2026	DP CARLISLE LLC	1825 HARRISBURG PIKE, CARLISLE, PA 17015	21-07-0465-007	C – EXPAND / IMPROVE, RENOVATE 10,274 SF OF EXISTING HOTEL

*No permits with earth disturbance > 1 acre

 # notifications to CCCD = 0

4b - Township Engineer's Summary of Construction Stormwater Inspections 7/1/2025 to 6/30/2026

Ehrhart, Carrol F

To: Carrol Ehrhart
Subject: MS4 Active Construction Project Inspections

Importance: High

Per the requirements of MS-4, please see the active construction sites I inspected during the past year.

This e-mail is to advise you that during the period from 7/1/2025 to 6/30/2026, I conducted inspections of active construction projects in the Township for the purpose of determining compliance with erosion and sedimentation control requirements. Among the sites inspected are:

- TPF#22-23 Meadowbrook Farms Phase 10
- TPF#22-01 Cumberland Preserve – Phase 1
- TPF#23-24 Cumberland Preserve - Phase 2
- TPF#07-15 Cumberland Knoll Phase 1
- TPF#23-19 The Grange Phase 1
- TPF# 23-19 The Grange Phase 2
- TPF # 23-19 The Grange Phase 3
- TPF#22-11 Pine Hill Industrial Park Lot #3
- TPF #22- 11 Pine Hill Industrial Park Lot 1
- TPF# 18-15 Carlisle Steel-96 South Middlesex Road
- TPF # 24-14 Claremont Road Final Land Development Plan for RV STORAGE FACILITY
- TPF#18-02 Jack Williams Tire Land Development Plan
- PAX-1 Premier Data Center
- TPF# 25-13 Preliminary/Final Land Development Plan for Cumberland Knoll PPL Laydown
- TPF#26-5 Final Land Development Plan for PA Digital 1 (PAX-1) Phase 1 A
- TPF#25-25 Preliminary Land Development Plan for PA Digital 1 (PAX-1) Phase 1B
- TPF#24-09 WAWA Food Markets Subdivision and Land Development Plan
- TPF#25-24 Krall Residential Stormwater Management Plan 260 Old Stonehouse Road

Gerald "Bud" Grove, P.E.,P.L.S.
Middlesex Township Engineer
bgrove@middlesextwp.com
Office 717-249-4409, Ext.139; Mobile 717-241-8478

MCM #5 – POST-CONSTRUCTION STORMWATER MANAGEMENT ATTACHMENTS

5a - Township Engineer’s Report on PCSM Functionality

Ehrhart, Carrol F

To: Zachary Zook
Cc: Carrol Ehrhart
Subject: FW: MS4 Reporting Requirements

Importance: High

Zach,
Per the requirements of MS-4, please see the post-construction stormwater management sites (MCM-5) inspected during the past year.

This e-mail is to advise you that during the period from 7/1/2025 to 6/30/2026, I conducted inspections of active construction projects in the Township for the purpose of determining stormwater management functionality. Among the sites inspected are,

- TPF#22-01 Cumberland Preserve – Phase 1
- TPF#22-11 Pine Hill Industrial Park Lot #3
- TPF#18-02 Jack Williams Tire Land Development Plan
- TPF# 25-13 Preliminary/Final Land Development Plan for Cumberland Knoll PPL Laydown
- TPF# 23-13 Letort Estates Land Development Plan
- TPF# 17-13 PA Sicklerville Land Development (Popeye and Burger King Restaurant Sites)
- TPF#22-19 Rutters Store #54 Land Development Plan
- TPF# 13-06 Cumberland Range Phase 1
- TPF# 19-19 Final Land Development Plan for Master Manufacturers

Gerald "Bud" Grove, P.E.,P.L.S.
Middlesex Township Engineer
bgrove@middlesextwp.com
Office 717-249-4409, Ext.139; Mobile 717-241-8478

MCM #6 – POLLUTION PREVENTION AND GOOD HOUSEKEEPING ATTACHMENTS

6a - MS4 Training Log 2025-2026

Date	**Public Works MS4 Annual Training Log** Description	Employee #
10/16/25	MS4 training – MCM6 – Good housekeeping – walk around mock inspection of facilities – prepared and presented by Skelly and Loy	20,21,22,23,24,25,27, Tracy
3/18/26	PA One Call – locator training class	21,24
3/19/26	Studied for Pesticide and Pool Certification	24
4/01/26	Studied for Pesticide and Pool Certification	24
5/13/26	Studied for Pesticide Core Certification	24
5/14/26	Studied for Pesticide Core Certification	24
5/20/26	Studied for Pesticide Core Certification	24
5/21/26	Took the Pesticide Core Exam – York County PS Ext. – (passed)	24
6/18/26	PA One Call Safety Days - safety training	20,21,24

Employee # Key

20 – Scott Shepler
21 – Chad Davis
22 – Kevin Sheriff
23 – John Hackman
24 – Josh Travitz
25 – Jordan Hurley
27 – Zachary Zook

6b - Middlesex Staff Training 10/16/2025



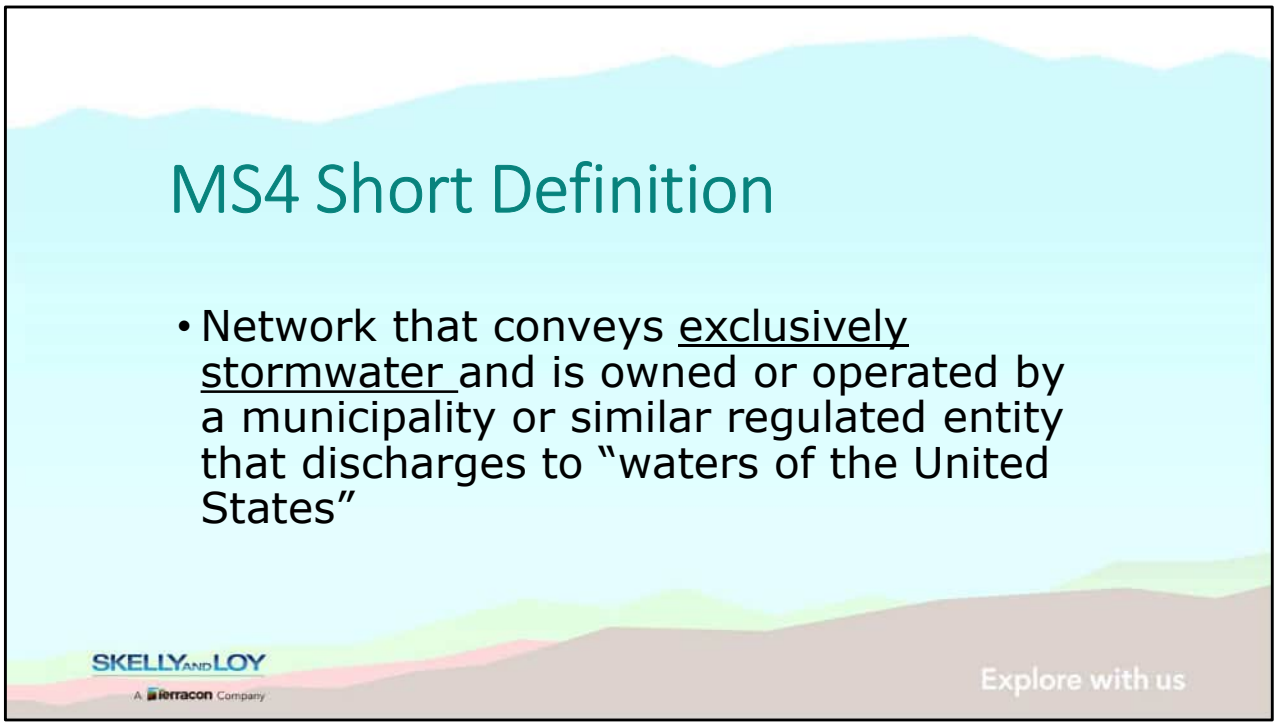
Thank you for inviting us to provide training today on the MS4 permit. We are going to provide a presentation on Middlesex Township's MS4 permit followed by a visit outside to view different types of municipal operations and the associated good housekeeping practices.



We will spend the next 20-30 minutes covering Middlesex Township's MS4 permit with particular emphasis on MCM #6, which is Pollution Prevention/Good Housekeeping for Municipal Operations. We are going to identify some common municipal operations and if good housekeeping is being practiced based on the pictures shown on the slide. We will end the presentation with roles of responsibilities of municipal staff before summarizing what was discussed. Please feel free to ask questions as they arise anytime during the presentation.



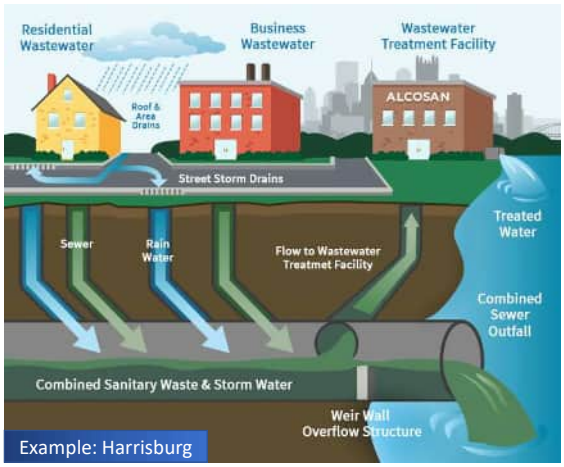
What is an MS4? It stands for the One M and Four S's at the beginning of each word – Municipal Separate Storm Sewer System.

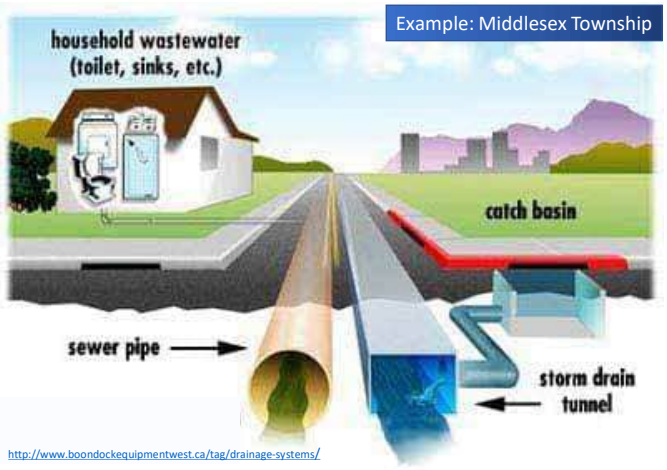


The basic definition of an MS4 is a network that conveys exclusively stormwater and is owned or operated by a municipality or similar regulated entity that discharges to "waters of the United States".

Combined vs. Separate

…a Combined Sewer Overflow (CSO) is not possible from a Separate Storm Sewer System





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A Ferracon Company

Explore with us

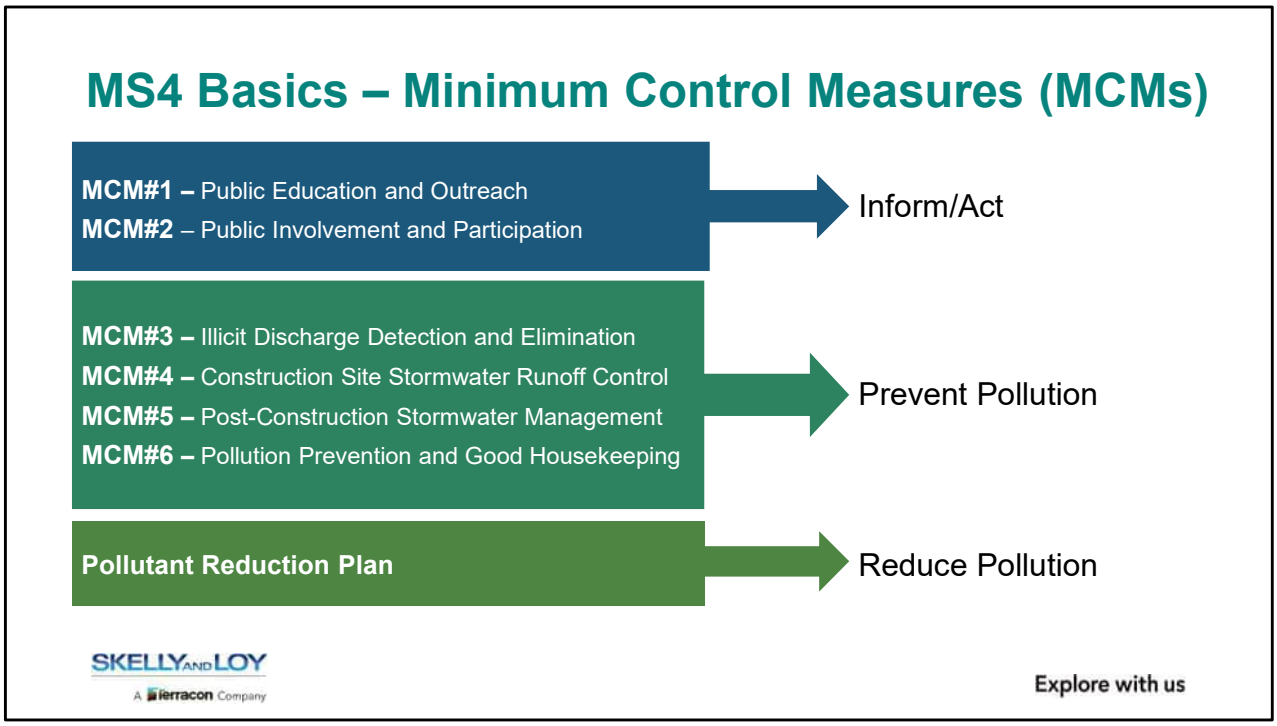
There are two types of storm sewer systems. The picture on the left shows a Combined System. Stormwater and sanitary wastewater flow through the same pipes. Many older towns have this type of system. Rivers and streams were the early sewers. Waste was dumped into them. The streams were simply enclosed and both types of water were conveyed to the next larger watercourse. Wastewater treatment plants then started to treat the water.

You can see the problem…more development increases runoff and when it rains, there is simply not enough capacity at the treatment plant. When that happens, untreated sewage is diverted away from the plant and discharges directly to receiving streams and rivers. The discharge is called a Combined Sewer Overflow or CSO.

(Click) Harrisburg is a local example.

The other kind is a separate storm sewer system. This is where sanitary and stormwater are piped separately. Historically, there has been no treatment to remove pollution associated with stormwater-only systems.

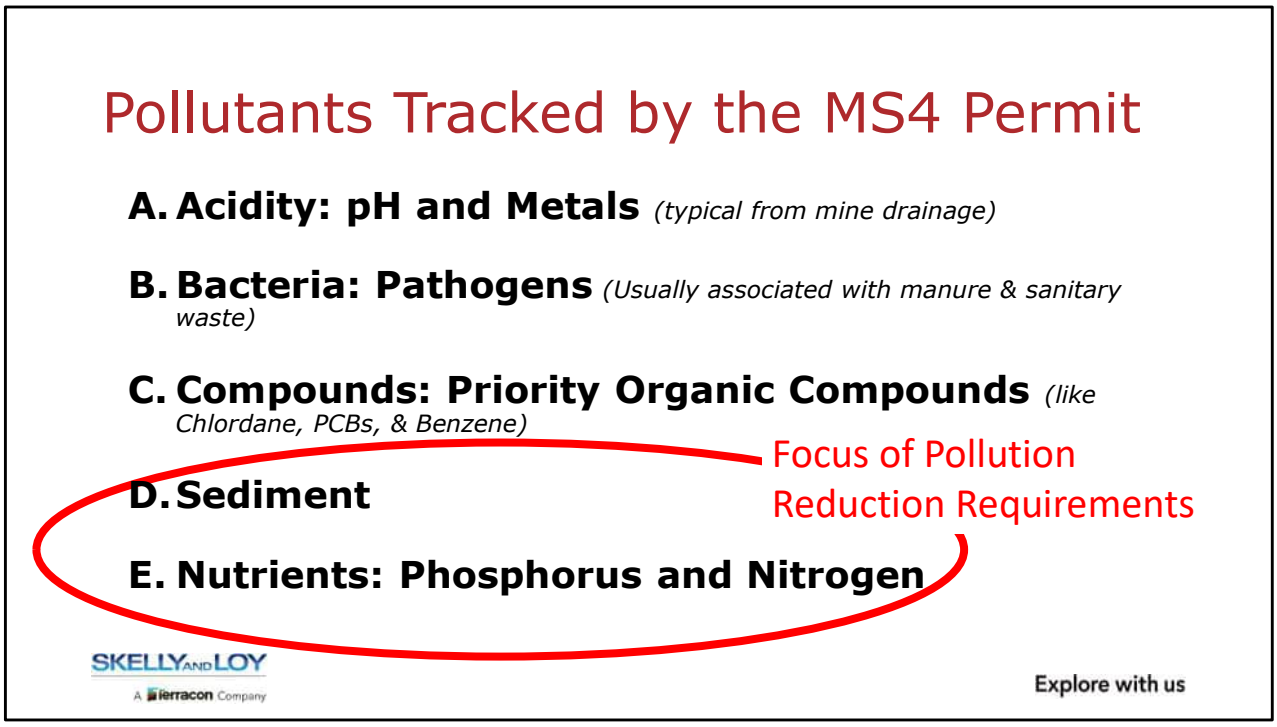
(Click) Middlesex Township is an example.



The Permit has six components called Minimum Control Measures (MCMs), plus a requirement to plan projects to prevent pollution. The MCMs and Pollution Reduction Plan fulfill three major objectives:

- Inform and Act
- Prevent Pollution
- Reduce Pollution that cannot be prevented

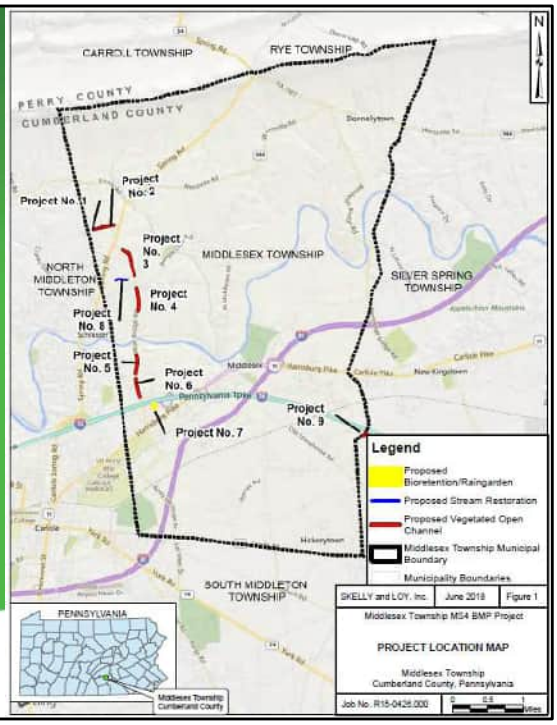
The first two MCMs are like a marketing plan; they inform and invite action. The goal of **MCM #1**, Public Education and Outreach, is to educate a target audience about the negative impacts of stormwater pollution, causes of pollution, and beneficial pollution prevention practices. **MCM #2**, Public Involvement and Participation, is the invitation to the target audience to personally act to prevent or reduce pollution. **MCM #3** requires monitoring to identify and halt non-water discharges from the storm sewer system. **MCM #4** focuses on prevention of escaping mud or construction-related discharges from construction sites, while **MCM #5** focuses on ensuring that stormwater control measures that sequester and treat pollution are well maintained and functional. **MCM #6** provides the framework to make sure staff knows the importance of pollution prevention; understands their roles in the MS4 program; and performs and documents their activities supporting pollution reduction and prevention. The **Pollution Reduction Plan** is the roadmap for installing projects to capture and treat pollution from public property in the regulated parts of the Township.



These pollutants are tracked by the MS4 Permit.

(click) Sediment and Nutrients are the focus of pollution reduction. This is because these two categories of pollution can be reduced through stormwater management. The others require additional mitigation strategies.

Pollutant Reduction Plan Projects



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A Ferracon Company

Zach Zook's Maintenance Team constructed several Pollutant Reduction Plan (PRP) Projects. Funding for the projects is supplemented via the $631,000 Mariner II Pipeline Grant the Township was awarded in 2018.



1

Project 4 Wolfs' Bridge Rd. north of West Middlesex Drive looking south

Photo from north end of project. Note the well vegetated and stable roadside channel that was installed in 2023-2024.



2

Project 4 Wolfs' Bridge Rd. north of West Middlesex Drive looking south

New inlet northwest of the intersection.



3

Project 4 Wolfs' Bridge Rd. north of West Middlesex Drive looking south

New inlet southwest of the intersection. Former condition was a crushed pipe, no endwall and significant erosion. It was unsafe and contributing pollution.

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4

Project 4 Wolfs' Bridge Rd. south of West Middlesex Drive looking north.

View from the southwest corner of the intersection



5

Project 4 Wolfs' Bridge Rd. south of West Middlesex Drive looking north

A new open channel was created to filter stormwater pollutants and convey stormwater. The channel is directly above an underground pipe that conveys the majority of roadway runoff.



6

Project 4 Wolfs' Bridge Rd. south of West Middlesex Drive looking north

East side of Wolfs Bridge Road. Inlet is a drop structure. Runoff in the pipe drops vertically in the inlet box dissipating runoff energy. A flat pipe continues to the discharging endwall.

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7

Project 4 Wolfs' Bridge Rd. south of West Middlesex Drive looking north.

Southern terminus of this 2024-2025 reporting period; west side . Inlet mid picture is a drop structure. Apron includes energy dissipater.



8

Project 2 east side of Sheaffer Road looking north during construction

Southern terminus of this 2024-2025 reporting period. This work ties into the established work from the previous reporting period.



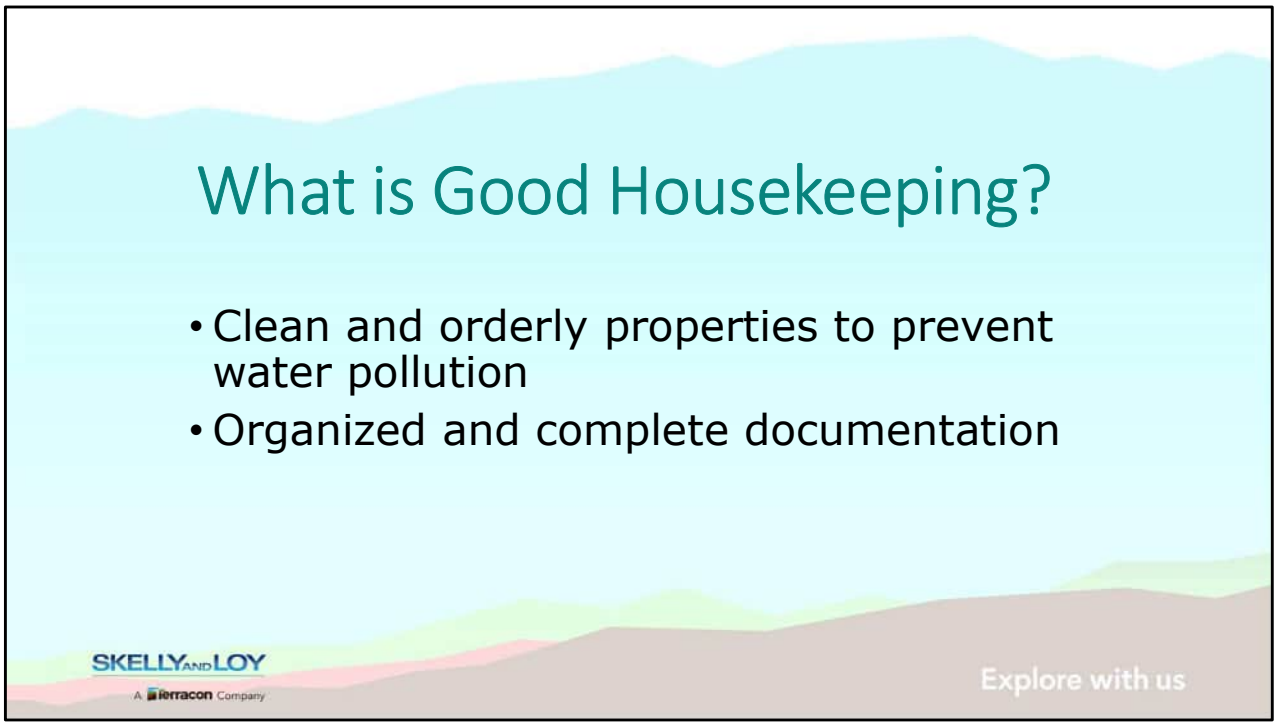
9

Project 4 Wolfs' Bridge Rd. south of West Middlesex Drive looking north.

Southern terminus of this 2024-2025 reporting period; east side.

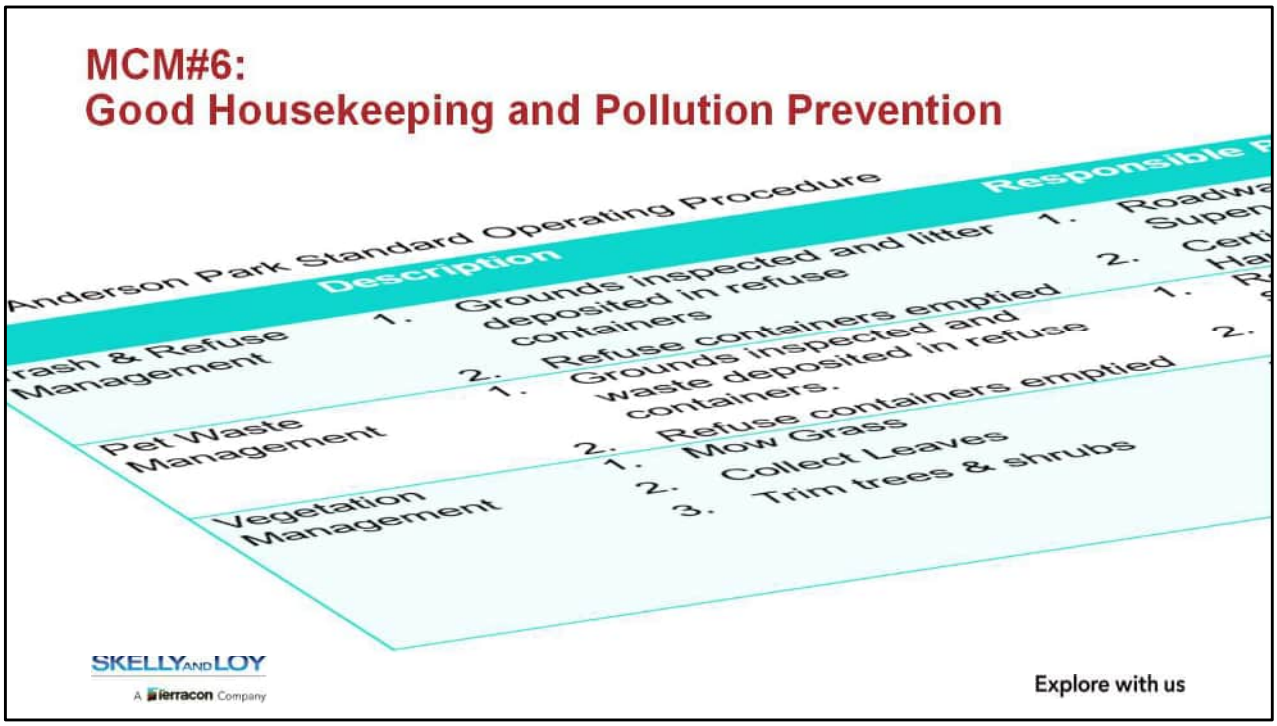
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The goal of MCM#6 Good Housekeeping/Pollution Prevention for Municipal Operations is to ensure maintenance facilities discharge clean stormwater. Pollutant releases are prevented from entering the stormwater system and streams, rivers, lakes, and wetland through proactive management of potential pollutants and pollution-causing activities.

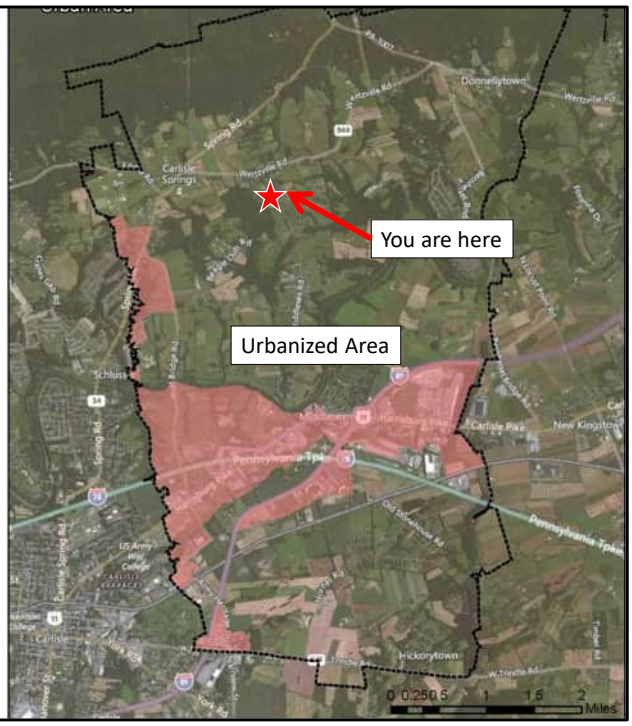
Good Housekeeping has two major components. It is both pollution prevention and keeping records of those activities.



MCM#6 focuses on the Township's operations and procedures to prevent and reduce pollution emanating from Township-owned property.

Middlesex Township Urbanized Area

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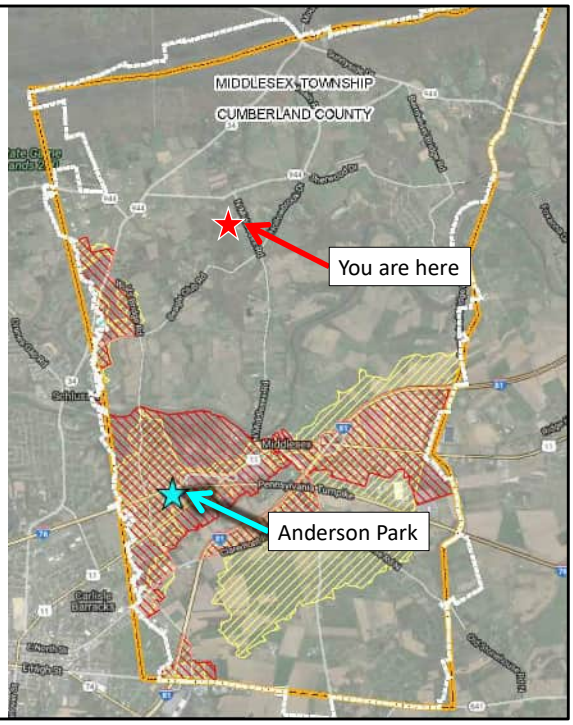


Remember at the beginning we said MS4 is all about Clean Water, Stormwater, Urban Water? The Urbanized areas regulated by the MS4 permit are delineated by the US Census Bureau in the latest 10-year Census. The designation is largely based on population density, but the US Census Bureau has incorporated a couple other criteria related to impervious surface.

Middlesex Township Regulated MS4

Urbanized Area
+ Contributory Drainage

Regulated MS4



Yellow Hatch Area is Contributing Drainage and expands the Regulated MS4 Area

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The regulated area also includes adjacent land that flows into the urban area before reaching a stream, shown in yellow. Anderson Park is the only Township-owned property that is in the regulated MS4.

Good Housekeeping Activities

- Manage litter
- Collect pet waste
- Close refuse and recycling container lids
- Manage Vegetation
  - Mowing
  - Leaf and Debris Cleanup





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Explore with us

Anderson Park is the only site that is REGULATED. However, the Township wants all Township-owned properties to be kept ship-shape and clean, including the Township building with its maintenance and police operations. So what does the SOP say to Middlesex Maintenance Crew?

1. Zach Zook, as the Roadmaster, has the responsibility to make sure you do the jobs listed on the slide.
2. The SOP lists the MINIMUM frequency for completion of jobs.
3. Examples:
   A. Collect and deposit trash and pet waste in trash bins 1x month…year round
   B. Mowing 1x week…during the growing season
   C. Leaf collection 2x in November
   D. Trimming Trees and pick up debris, as needed
4. It provides other direction. For example, when you mow, you will direct clippings away from stormwater conveyance. So that means don't put clippings in gutters or inlets. If you do…you will need to sweep up, collect and dispose of the clippings because clippings are not pure water, so they are considered a pollutant. And of course they can cause other problems too, like blocking inlets and causing ponding water on roadways.
5. The SOP states that trash will be emptied and disposed by a certified hauler.

Fix or Tell

- **Fix** - Issues that can be easily resolved by personnel.





- **Tell** - Issues that cannot be easily resolved by personnel should be reported to management.

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When completing Good Housekeeping activities, you may notice issues that need to be fixed. It is important to know what you should resolve on your own and what you should report to management. Generally, you should undertake issues that you can resolve on your own and report issues that need more manpower, supplies, or is the responsibility of someone else. Be sure to clearly explain what the issue is to help management understand the situation and determine the best solution.

Fix or Tell

FIX	TELL
Minimal work effort - less than 50 minutes (ex. sweep mulch migrating towards an inlet)	Significant work effort - more than 50 minutes (ex. reorganize/clean entire storage shed)
Parts/material are available (ex. place secondary containment pallet under drum) and cost less than $50	Parts/material are NOT available (ex. need to order a new pump hose) or cost more than $50
Resolve by cleaning or removing debris/trash (ex. remove debris from inlet grate)	Stormwater basins, raingardens, and swales - debris causing damage or blocking water (ex. trash clogging basin outlet)
Part of typical job duty (ex. empty trash can)	Not typical job duty (ex. repair oil-water separator indicator light)
Vehicle/equipment leaks that can be stopped & cleaned up (ex. close valve, place absorbent)	Leaks requiring vehicle/equipment repair (ex. truck leaking oil)
Organizing supplies and equipment in a building. Picking up trash.	Major building issues (ex. holes in salt storage roof, bulging walls)

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Here are some general guidelines to follow when determining if an issue should be fixed right away or personnel tell management for follow up action. [Review table.]

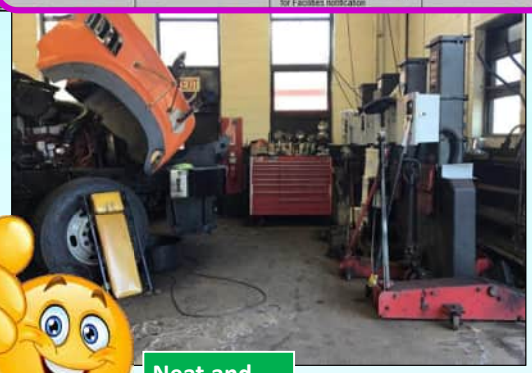


The next slides are examples of common Good Housekeeping practices for different municipal operations. We want you to choose if the picture shows:

1. Satisfactory compliance;
2. Requires maintenance or repair; or
3. Shows a situation that management should be notified about.

MAINTENANCE GARAGE

ITEM	ACCEPTABLE APPEARANCE	INVENTORY	ROUTINE REQUIRED ACTION	CONDITION REPORT (Satisfactory / Deficiencies / Malfunctioning)	Yes	No
General Area	• Clean and tidy • Walls and floors clean • Mechanics rags located in their designated area ready for use or properly disposed • Generally organized appearance • Free of animals and insects • Intact gutters and downspouts		• Replace burned-out light bulbs • Clean or replace dirty or damaged protective sleeves and emergency contact list, as required • Collect dirty mechanics rags and litter. Dispose in trash receptacle • Empty trash receptacle • Report evidence of animals to foreman • Report damaged gutters to foreman for Facilities notification	• Is lighting functioning? • Are walls and floors clean? • Are doors closed? • Are gutters and downspouts intact?	☐ ☐ ☐ ☐	☐ ☐ ☐ ☐







Neat and Organized

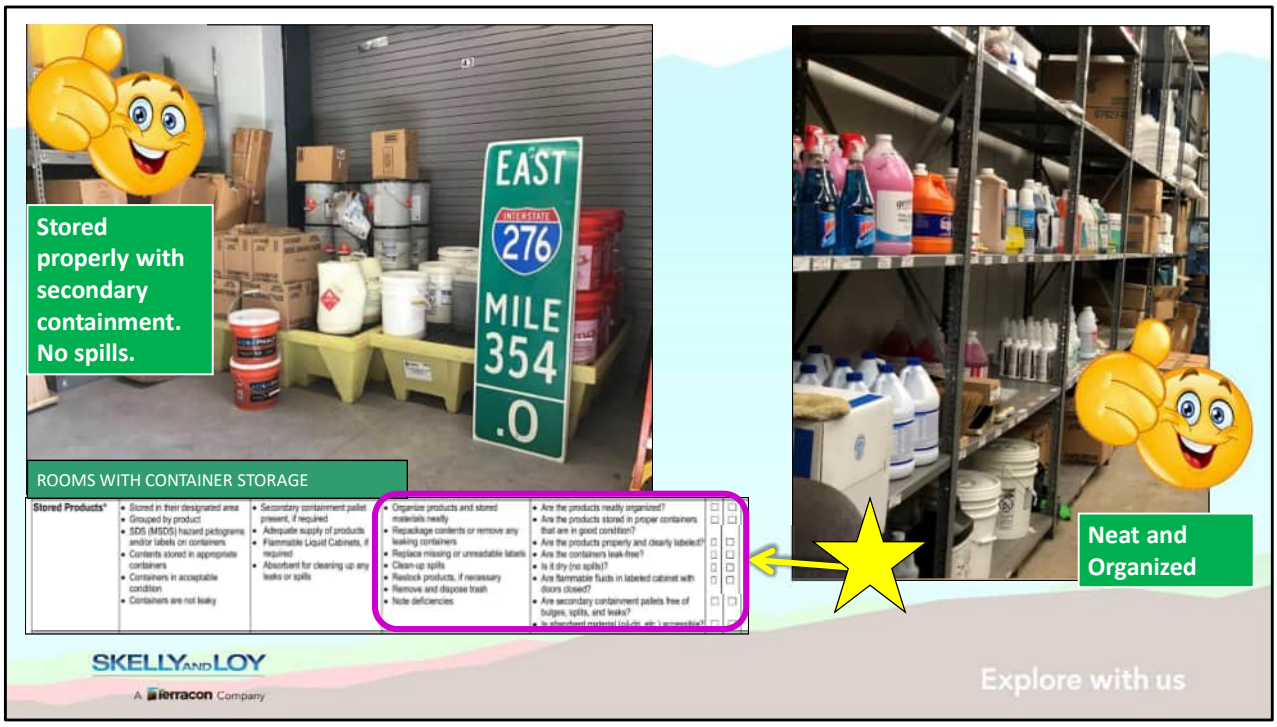


Disorganized and cluttered

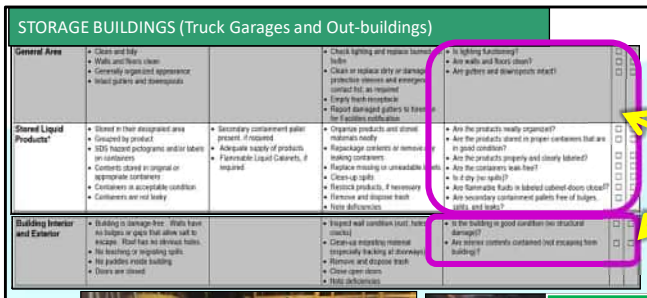


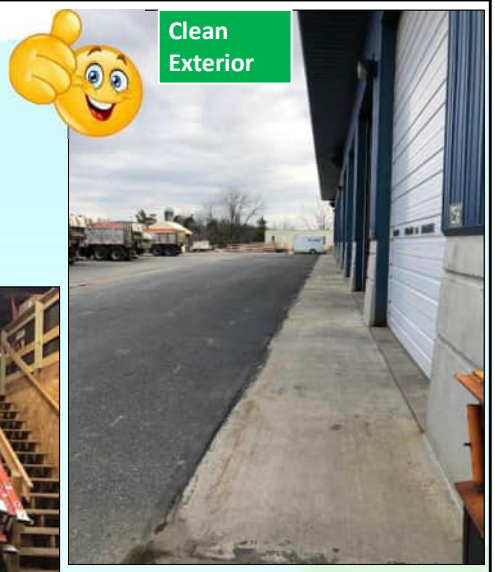
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Stored properly with secondary containment. No spills.
EAST
INTERSTATE
276
MILE
354
.0
ROOMS WITH CONTAINER STORAGE
Stored Products*
Neat and Organized
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STORAGE BUILDINGS (Truck Garages and Out-buildings)





Clean Exterior



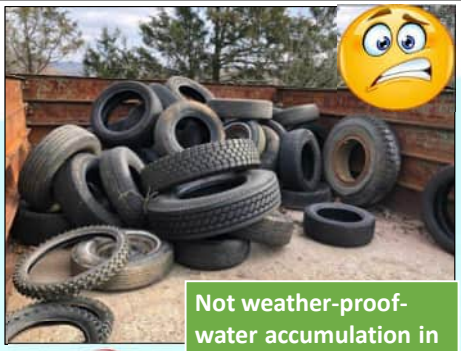
Chemicals Stored on Secondary Containers



Neat and Tidy

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Not weather-proof- water accumulation in tire casings



Weather-proof



Dry storage

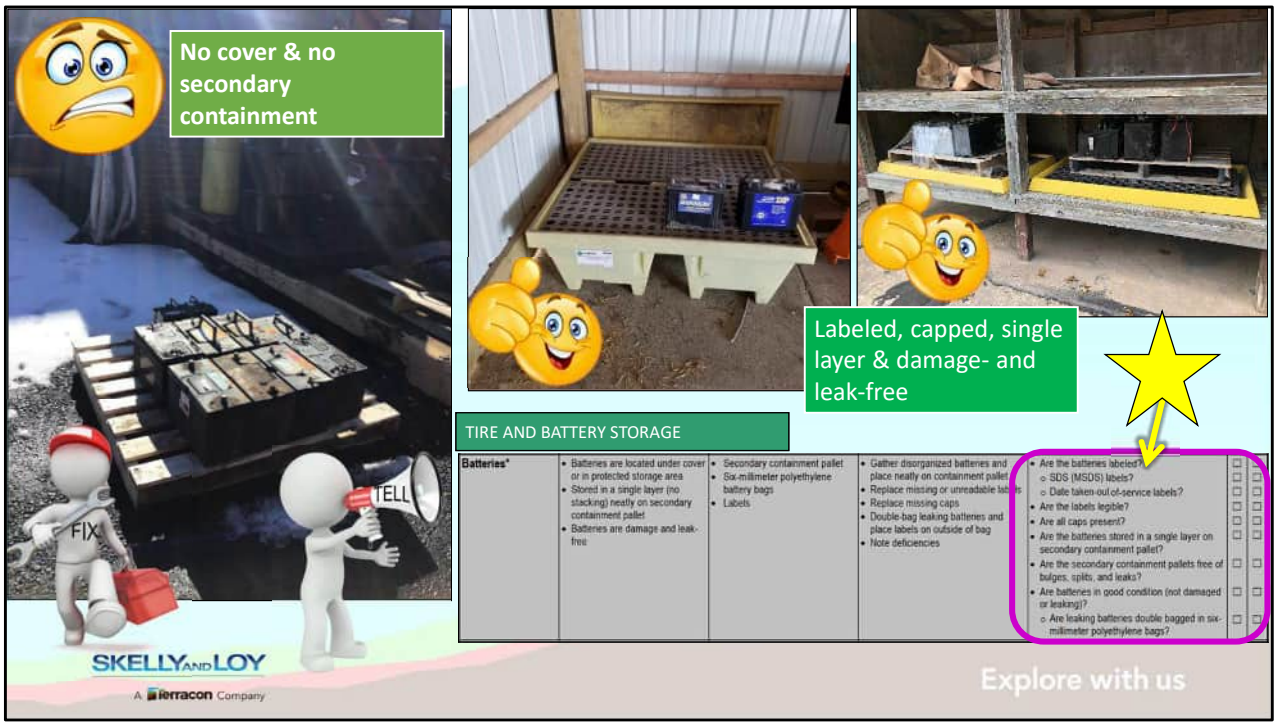


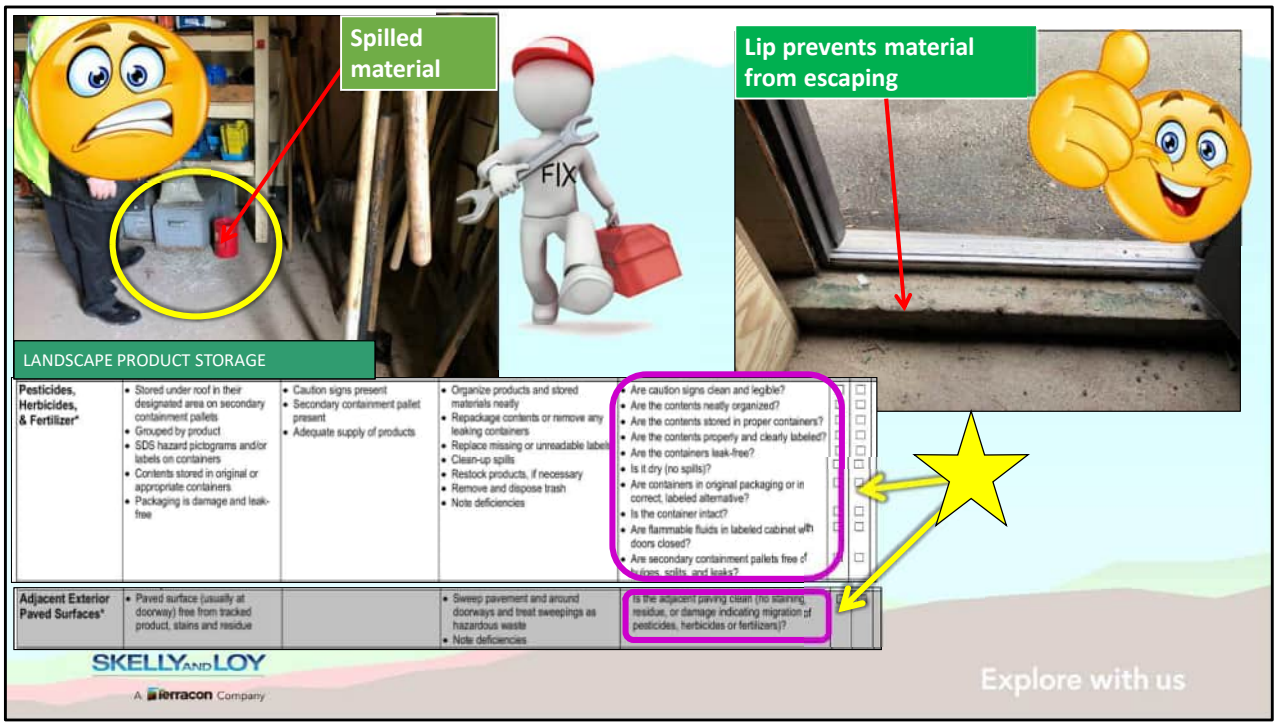
TIRE AND BATTERY STORAGE

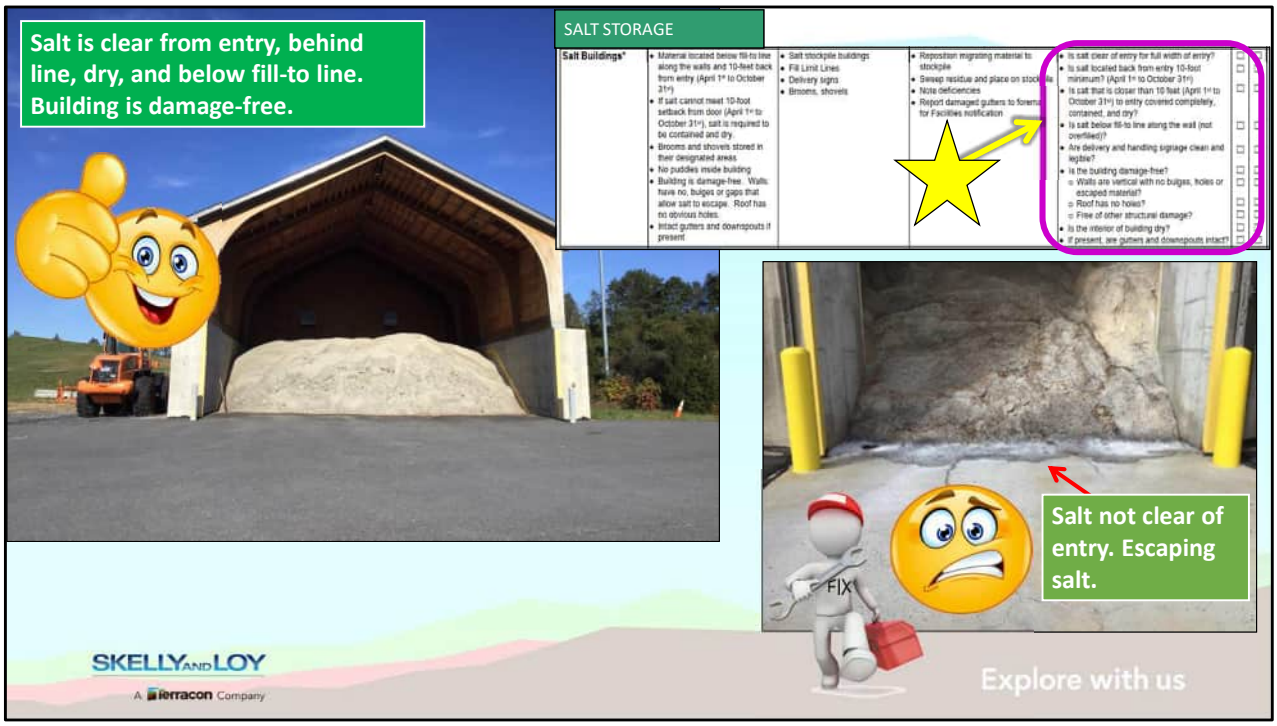
Tires*	• Tires under cover or in protected storage area • Stacked neatly • Tires not stacked higher than 6 tires high. • Area is dry (no standing water or water accumulating in the tire casings)		• Stack tires neatly with no more than 6 tires in a stack • Note deficiencies	• Does the tire storage area have capacity (not full)? • Is the area dry (no standing water or water accumulating in the tire casings)?	☐ ☐ ☐ ☐

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No cover & no secondary containment
FIX
TELL
SKELLY AND LOY
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Labeled, capped, single layer & damage- and leak-free
TIRE AND BATTERY STORAGE
Batteries*
Batteries are located under cover or in protected storage area
Stored in a single layer (no stacking) neatly on secondary containment pallet
Batteries are damage and leak-free
Secondary containment pallet
Six-millimeter polyethylene battery bags
Labels
Gather disorganized batteries and place neatly on containment pallet
Replace missing or unreadable labels
Replace missing caps
Double-bag leaking batteries and place labels on outside of bag
Note deficiencies
Are the batteries labeled?
SDS (MSDS) labels?
Date taken-out-of-service labels?
Are the labels legible?
Are all caps present?
Are the batteries stored in a single layer on secondary containment pallet?
Are the secondary containment pallets free of bulges, splits, and leaks?
Are batteries in good condition (not damaged or leaking)?
Are leaking batteries double bagged in six-millimeter polyethylene bags?
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Spilled material
FIX
Lip prevents material from escaping
LANDSCAPE PRODUCT STORAGE
Pesticides, Herbicides, & Fertilizer*
Stored under roof in their designated area on secondary containment pallets
Grouped by product
SDS hazard pictograms and/or labels on containers
Contents stored in original or appropriate containers
Packaging is damage and leak-free
Caution signs present
Secondary containment pallet present
Adequate supply of products
Organize products and stored materials neatly
Repackage contents or remove any leaking containers
Replace missing or unreadable labels
Clean-up spills
Restock products, if necessary
Remove and dispose trash
Note deficiencies
Are caution signs clean and legible?
Are the contents neatly organized?
Are the contents stored in proper containers?
Are the contents properly and clearly labeled?
Are the containers leak-free?
Is it dry (no spills)?
Are containers in original packaging or in correct, labeled alternative?
Is the container intact?
Are flammable fluids in labeled cabinet with doors closed?
Are secondary containment pallets free of
Adjacent Exterior Paved Surfaces*
Paved surface (usually at doorway) free from tracked product, stains and residue
Sweep pavement and around doorways and treat sweepings as hazardous waste
Note deficiencies
Is the adjacent paving clean (no staining, residue, or damage indicating migration of pesticides, herbicides or fertilizers)?
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Salt is clear from entry, behind line, dry, and below fill-to line. Building is damage-free.
SALT STORAGE
Salt Buildings*
Salt stockpile buildings
Fill Limit Lines
Delivery signs
Brooms, shovels
Salt not clear of entry. Escaping salt.
FIX
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Neat & organized



Disorganized

PARKING LOTS, LOADING AREAS, EQUIPTMENT STORAGE AREAS & OTHER NON-LANDSCAPED/NON-GRASED AREAS

General Area*	• Clean and tidy • Generally organized appearance		• Gather litter and debris in the vicinity and bag for disposal in trash receptacle or dumpster	• Is the area clean and organized?	☐	☐

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Abundance of junk







Overfilled and deteriorated trash barrel

GENERAL SITE ASSESSMENT

General Site	• Clean and tidy • Generally organized appearance • Clean, obstruction free walkways • If present, outlets for charging (sure line) are operable, damage-free, and attached cords are coiled and hung.		• Gather litter and debris in the vicinity and bag for disposal in trash receptacle or dumpster • Neatly organize construction vehicles and materials • Check charging outlets and coil and hang attached cords. • Note deficiencies	• Is the site organized and clean? • Are walkways free of tripping hazards? • Are charging outlets operable if present? • Are electrical cords coiled and hung?

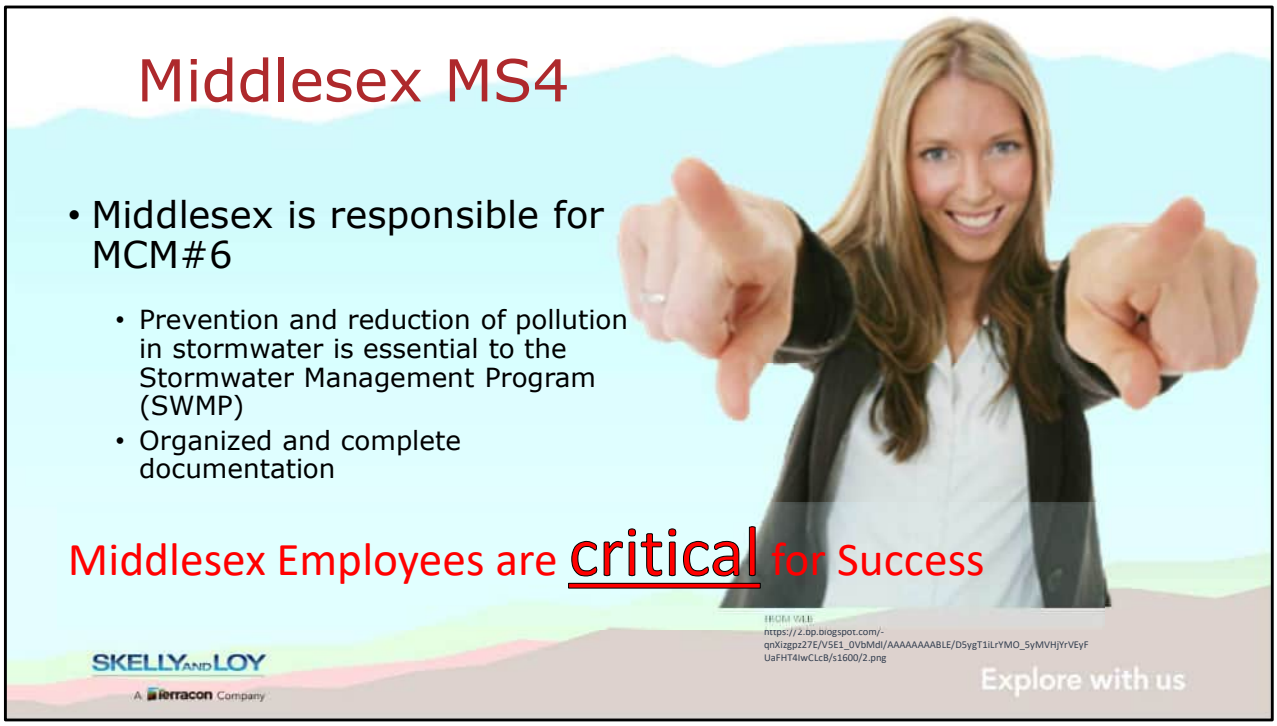


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In the final part of this presentation, we will go over the roles and responsibilities of Middlesex employees.

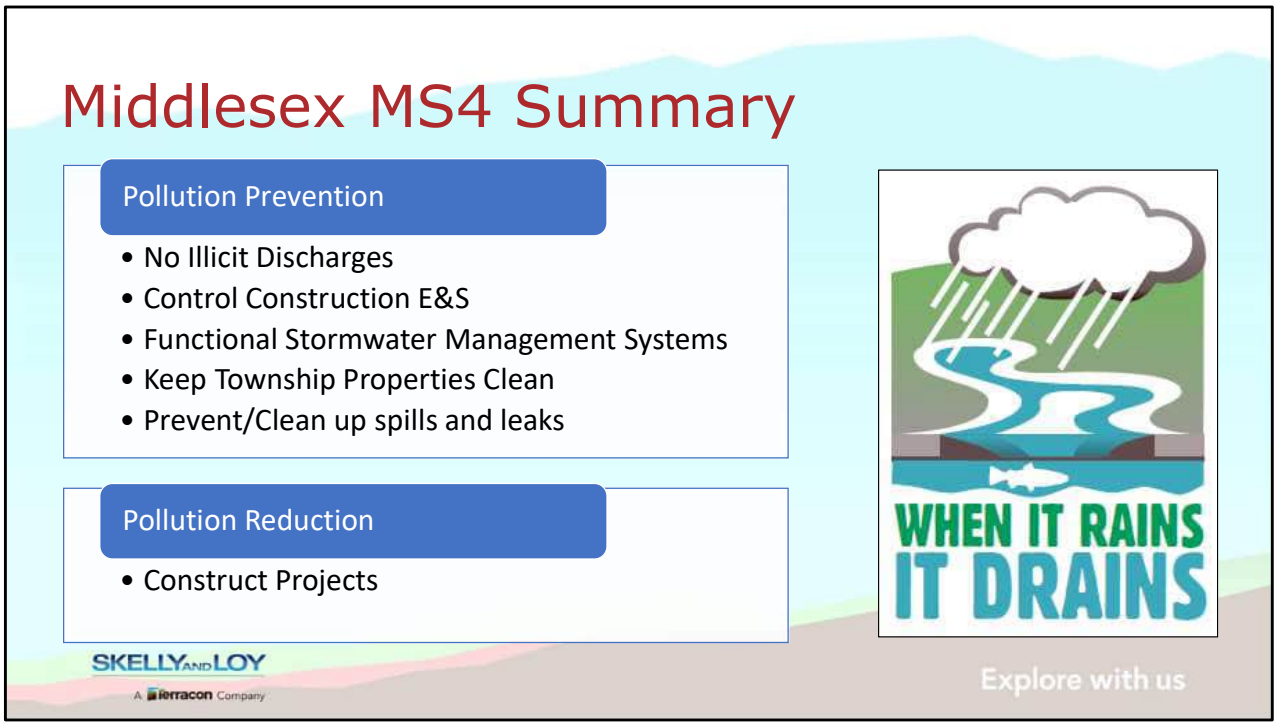


Middlesex is responsible for all the MCMs, including MCM #6.

Challenges:
- Implementing stormwater control measures that prevent pollution in municipal operations
- Documenting the pollution prevention activities

Solutions:
- Prioritizing stormwater control measures based on greatest water quality improvements
- Organized and complete documentation

Middlesex staff will play a critical role in educating the public, identifying pollution, preventing pollution, and/or reducing pollution.



In summary, pollution prevention includes:

- Eliminating intentional or accidental releases of non-stormwater materials into the stormwater system that feeds the streams
- Preventing loose soil from leaving construction sites
- Ensuring stormwater management facilities designed to slow runoff or remove water pollution are functioning well
- Keeping Township properties clean
- Preventing pollution releases during Township's operation and maintenance activities

Pollution Reduction includes:

- Constructing projects to reduce pollution

Questions???




SKELLY AND LOY
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Middlesex Township MS4 Good Housekeeping Scavenger Hunt

October 16, 2025

- [ ] Maintenance Garage does not have fresh oil stains on floor
- [ ] Products stored in proper containers that are in good condition
- [ ] Storage Building floor swept
- [ ] Tires stored inside
- [ ] Batteries stored in single layer on secondary containment pallet away from elements
- [ ] Landscape product properly labeled
- [ ] Salt not escaping from storage area entry point
- [ ] Healthy vegetation adjacent to paved surfaces
- [ ] Facility generally organized and clean
- [ ] Trash and salvage are in refuse containment

Instructors:
Carrol Ehrhart, Skelly and Loy, Inc.
Jennifer Strauss, Skelly and Loy, Inc.

MS4 Refresher and Good Housekeeping
Middlesex Township Staff
October 16, 2025 8:30 AM
Midddlesex Township Building-Carlisle, PA

SKELLY AND LOY
A Terracon Company

No.	FIRST NAME	LAST NAME	DEPARTMENT	SIGNATURE
1	John	Hackman		
2	Josh	Travitz		
3	Chad	Davis		
4	Scott	SHEPLER		
5	Kevin	Sheriff Jr		
6	Jordan	Hirst		
7	Tracy	Heiter		
8	Zach	Zook		
9	GERALD	STEGLEMAN		
10				
11				
12				
13				
14				
15				
16				
17				

6c - Highway Work Log for 2025-2026

Date	**Public Works Monthly Work Report** Description	Employee #
6/30/25	STORMS – closed S. Middlesex, Harmony Hall and Rt 11 for downed power lines	21,22,27
7/1/25	STORMS – checked roads, inlets, pipes – cleaned up limbs on roadway shoulders, ROW's, cleaned up road closure signs	21,23,24,25,27
7/1/25	VEG CONTROL – 2nd round mowing	22
7/1/25	VEG CONTROL – cont'd spraying guiderails and ROW's	23,25
7/1/25	PARKS – mowed and trimmed – worked topsoil around pickleball	20,D,M,J – 21,24
7/2/25	STORMS – finished cleanup from storms, swept areas	21,24
7/2/25	VEG CONTROL – finished spraying guiderails and ROW's	23,25
7/2/25	PARKS – Pickleball court – cont'd working topsoil	21,24 – 23,25
7/2/25	PARKS – mowed and trimmed at Letort Fall, Mun. bldg. and Anderson	D,J,M
7/3/25	PARKS – Pickleball court – finished topsoil work – seed and mulch	21,23,24,25
7/7/25	LINE PAINTING – stop bars at S. Middlesex and Claremont – stop bars, crosswalks on Rt 11	21,23,24,25
7/7/25	PARKS – cleaned up trash at Letort Falls, mowed and trimmed	D,M,J
7/8/25	LINE PAINTING – stop bars in Keystone Arms – stop bars, crosswalks on Rt 11	21,23,24,25
7/8/25	PARKS – mowed and trimmed – Mun bldg..	20,D,J,M
7/8/25	VEG CONTROL – cont'd roadside mowing	22
7/9/25	LINE PAINTING – stop bars, crosswalks on Rt 11 and W Point Dr	21,23,24,25
7/9/25	PARKS – mowed and trimmed – Anderson, Letort Falls	20,D,J,M
7/9/25	VEG CONTROL – cont'd roadside mowing	22
7/10/25	VEG CONTROL – trimmed tree, brush on Circle Dr, S. Middlesex, Harmony Hall	23,24,25
7/10/25	PD – worked on Car 9	22
7/10/25	FD – worked on Car 50	22
7/10/25	PARKS – watered trees, checked trash	20
7/11/25	COMPOST SITE – started turning mulch, pushed up brush	24,25
7/11/25	SHOP – Tk 105 – trailer light issue	22
7/11/25	Picked up supplies	20
7/14/25	VEG CONTROL – JCB mower – hooked up started mowing areas, practice around the park	21,22
7/14/25	PARKS – setup for playground, mowed and trimmed around park	20,D,J,M
7/14/25	STORM SEWER – fixed hole along N Old Stonehouse	23,24
7/14/25	SHOP – Car 45 – service and inspections	22
7/15/25	SIGNAGE – zoning signs on S. Middlesex, bridge signs on W. Middlesex Dr	23,25
7/15/25	VEG CONTROL – JCB boom mowing - southside – Hickorytown, Ridge, Appalachian	21,24 – 23,25
7/15/25	PARKS – mowed and trimmed – Anderson and Mun. bldg.	20,D,J,M
7/15/25	MS4 – pulled weeds at Anderson raingarden	20,D,J,M
7/15/25	SHOP – Car 45 - finished service and inspections	22
7/16/25	VEG CONTROL – cont'd mowing with JCB on Appalachian and Claremont	21,23,24,25

Date	**Public Works Monthly Work Report** Description	Employee #
7/16/25	PD – Car 9 – service and repairs, Car 6 – replaced trim piece	22
7/16/25	PARKS – weed trimmed and pulled weeds	20,D,J,M
7/17/25	PARKS – Playground - setup for last day of Playground events	20, 27
7/17/25	VEG CONTROL – cont'd mowing – Claremont, Stambaugh, S. Middlesex	21,23,24,25
7/18/25	PARKS – worked on garage door at Pit	20,22,24
7/21/25	VEG CONTROL – cont'd mowing until 9AM	21,23,24,25
7/21/25	LINE PAINTING – cont'd working on painting on Rt 11 intersections	21,23,24,25
7/21/25	PARKS – mowed and trimmed	20,D,J,M
7/22/25	Unloaded a wagon load of straw at Pit for projects	20,21,23,24,25 ,27
7/22/25	LINE PAINTING – cont'd painting lines – cleaned machine good at end of day	21,23,24,25
7/22/25	PARKS – mowed trimmed – Anderson, Letort, Mun bldg.	20,D,J,M
7/22/25	VEG CONTROL – cont'd roadside mowing	22
7/23/25	VEG CONTROL – mowed banks and brush with JCB – started above Anderson	21,24
7/23/25	PARKS – painted the gazebo	J,M
7/23/25	VEGCONTROL – highway mowing	22
7/24/25	LINE PAINTING – cont'd painting stop bars and crosswalks	21,23,24,25
7/24/25	VEG CONTROL – 2nd round mowing	22
7/25/25	VEG CONTROL – mowed on Hollowbrook and Sherwood with JCB flagged traffic	21,23,24,25
7/25/25	SHOP – cleanup - grease and fueled equipment – prepared detour signs for Project 4 on Wolfs Bridge	21,22,23,24,25
7/28/25	MS4 – Project 4 – closed road, setup detour, started excavation on east side – set end section to grade	21,23,24,25,27
7/28/25	PARKS – worked on ballfields – infields (7/11)	20,D,M,J
7/28/25	VEG CONTROL – cont'd 2nd round mowing	22
7/29/25	MS4 – Project 4 – east side – set 2 sections of pipe – backfilled - layout for inlet	21,23,24,25,27
7/29/25	VEG CONTROL – cont'd mowing	22
7/29/25	PARKS – mowed and trimmed – Mun bldg. and Anderson	22,D,M,J
7/30/25	MS4 – Project 4 – east side – set lower inlet – sealed around pipes – backfilled	21,23,24,25,27
7/30/25	PARKS – mowed and trimmed	20,D,J,M
7/30/25	VEG CONTROL – cont'd mowing	22
7/31/25	MS4 – set 2 sections of pipe – backfilled	21,23,24,25,27
7/31/25	VEG CONTROL – cont'd roadside mowing	22
7/31/25	PARKS – budget – picked up supplies	20
7/31/25	Tree down - closed Appalachian Dr at N Old Stonehouse – Silver Spring closed Rt 11 end	20,22

Employee # Key

20 – Scott Shepler
21 – Chad Davis
22 – Kevin Sheriff
23 – John Hackman
24 – Josh Travitz
25 – Jordan Hurley
27 – Zachary Zook

Date	**Public Works Monthly Work Report** Description	Employee #
8/1/25	MS4 – Project 4 – set inlet top – grade along shoulder	21,23,24,25
8/1/25	PARKS – checked splash pad, trash and pavilion – picked up more chlorine	20
8/1/25	COMPOST SITE – pushed up brush	21
8/1/25	SHOP – clean up around shop – ordered items for service work	22
8/4/25	MS4 – Project 4 – east side – set 1 piece of pipe – sealed around inlet box – backfilled	21,23,25
8/4/25	PARKS – removed old chain link fence along parking lot – started adding topsoil	20,D,M
8/4/25	VEG CONTROL – cont'd roadside mowing	22
8/5/25	MS4 – Project 4 - set 3 sections of pipe – backfilled	21,23,24,25
8/5/25	SHOP – Tk 107 – check engine light	22
8/5/25	PARKS – finished topsoil work along parking lot – seed, mulch	20,D,M
8/6/25	MS4 – Project 4 - excavate and set inlet box near intersection – set last section of pipe	21,23,24,25,27 -20
8/6/25	PARKS – watered trees, grass seed, checked trash and buildings	20,D,M
8/6/25	SHOP – Tk 107 – pulled exhaust – replaced sensor	22
8/7/25	MS4 – Project 4 – set inlet riser and top – backfilled – started topsoil work	21,23,24,25
8/7/25	PARKS – worked on budget – ordered supplies	20
8/8/25	MS4 – Project 4 - cleaned up signage for weekend – set signs for next week Cleaned up fill piles at compost site	24,25 21,23
8/8/25	SIGNAGE – fixed weight limit sign at Horners/Trindle, picked up zoning hearing signs	24,25
8/8/25	SHOP – Tk 107 – cont'd work on exhaust sensors	22
8/11/25	MS4 – Project 4 - started work on west side of Wolfs Bridge – set end section and 1st pipe	21,23,24,25
8/11/25	PARKS – started work on fence at compost site – began removing old fence	20,D,M
8/11/25	SHOP – Tk 107 - finished installing new sensors/ ford reset ecm	22
8/12/25	MS4 – Project 4 – west side – set pipe and lower inlet box - backfilled	21,23,24,25,27
8/12/25	PD – Car 2 - service and Pa inspections	22
8/12/25	PARKS – cont'd working on replacing fence at compost site	20,D,M
8/13/25	MS4 – Project 4 – set upper pipe from box, worked on sealing around inlet box, backfilled, compacted	21,23,24,25
8/13/25	PARKS – cont'd installing new fence at compost site	20,D,M
8/13/25	VEG CNONTROL – started 3rd round of mowing – southside	22
8/14/25	MS4 – Project 4 – set 3 sections of pipe, backfilled and compacted.	20,21,23,24,25
8/14/25	PARKS – clean up, signage for Letort, met about fall fest layout	20
8/14/25	VEG CONTROL – cont'd mowing	22
8/15/25	MS4 – Project 4 - set inlet top, cleaned up stone, compacted with roller	21,23,24,25
8/15/25	SHOP – cleanup around shop	22
8/15/25	PARKS – big mess at pavilion – cleanup pavilion and splash pad – closed Letort Falls	20
8/18/25	MS4 – Project 4 – set 3 sections of pipe – backfilled and compacted	21,23,24,25
8/18/25	PARKS – cont'd working on fence at compost site	20,D,J,M

Date	**Public Works Monthly Work Report** Description	Employee #
8/19/25	MS4 – Project 4 – west side – excavate for pipe – installed pipe and prep for next inlet box – backfilled and compacted	21,23,24,25
8/19/25	PARKS – finished installing fence along Beagle Club Rd at compost site	20,D,J,M
8/20/25	MS4 – Project 4 - set inlet box and pipe into box, backfilled, prep and cut blacktop across W. Middlesex Dr	21,23,24,25,27
8/20/25	PARKS – mowed and cleanup – checked trash – cleaned up trash at Letort Falls	20,D,M,J
8/20/25	VEG CONTROL – cont'd road mowing	22
8/21/25	MS4 – Project 4 – mortar pipes into inlet box, backfilled around inlet, cut east side of W. Middlesex Dr – clean of tools and equipment	21,23,24,25
8/21/25	SHOP – worked on Tk 104,107	22
8/21/25	MTMA – cut patches for water hookups on Valley Dr	23,25
8/22/25	MS4 – Project 4 - hauled asphalt to Schlusser's, cleaned up fill piles – graded fill behind soccer field	21,23,25
8/22/25	PARKS – checked trash, pavilions, buildings – field usages	20
8/22/25	SHOP – Car 3 – service – repairs	22
8/25/25	MS4 – Project 4 – spread topsoil on east and west side	21,23,25
8/25/25	PARKS – worked on installing fence at Letort Falls, posted new rules	20,D,M,J
8/25/25	PD – Car 3 - cont'd service and repairs	22
8/26/25	MTMA – dug for sewer connections 2 new homes on Valley Dr	21,23,24,25
8/26/25	PARKS – finished install of fence at Letort Falls – mowed and trimmed	20,D,M,J
8/26/25	PD – finished Car 3 - Car 10 – service and repairs	22
8/27/25	MS4 – Project 4 – finished cleaning up fill piles, prepped signs, detour signs, picked pipe, cold patch, staged equipment	21,23,24,25
8/27/25	PARKS – mowed and trimmed, Letort Falls, Anderson, Main park	20,D,M,J
8/27-28/25	MS4 – Project 4 – overnight – closed W. Middlesex Dr – installed inlet and pipe across intersection	20,21,22,23,24,25,27
8/28/25	PD – Car 10 – finished service and repairs	22
8/28/25	SHOP – Tk 113 – repairs to tarp, AC	22

Employee # Key

20 – Scott Shepler
21 – Chad Davis
22 – Kevin Sheriff
23 – John Hackman
24 – Josh Travitz
25 – Jordan Hurley
27 – Zachary Zook

Date	**Public Works Monthly Work Report** Description	Employee #
9/2/25	MS4 – Project 4 – closed W. Middlesex Dr from Wolfs Bridge to Beagle Club - east side of intersection - set inlet on NE corner – installed pipes	21,23,24,25
9/2/25	VEG CONTROL – hit a few spots north and south side	22
9/2/25	PARKS – MUN building – trimmed trees	20,D,M,J
9/3/25	NMT – hauled blacktop to help North Middleton – Shatto Dr	22,23,25
9/3/25	SIGNAGE – fixed Cars only sign – marked one call for Stop sign at Public Safety Dr	21,24
9/3/25	MS4 – Project 4 – picked up pipe – moved boxes to lot at Wolfs Bridge, moved equipment, mortar inside boxes around pipes – started excavation	21,24, MTMA
9/4/25	MS4 – Project 4 – north side of W. Middlesex Dr – installed pipe and started inlet	21,23,24, and Ashley
9/4/25	NMT – hauled blacktop for paving project – Shatto Dr	20,25
9/5/25	MS4 – cleanup around excavation - cold patch across W. Middlesex Dr	20,21,24
9/5/25	NMT – hauled blacktop for paving project – Shatto Dr	23,25
9/8/25	PAVING – Clemson Dr – shoulders – closed road, marked, milled creek side, 25mm Superpave – Schlusser's Paving	21,23,24,25
9/8/25	PARKS – installed Fall Fest signs – cleanup	20, D,M,J
9/9/25	PAVING – Clemson Dr – shoulders – closed road – finished milling and adding shoulders at various locations – adding millings under guiderail - Schlussers Paving	21,23,24,25
9/9/25	PARKS – painting of gazebo, cont'd working on signs and setup for fall fest	20,D,J,M
9/10/25	PAVING – leveling patches and cross pipes on Clemson Dr – Schlusser's Paving	21,23,24,25
9/10/25	PARKS – Pickleball court – worked on adding stone and mulch glue around perimeter	20,D,M,J
9/11/25	MS4 – Project 4 – finished installing pipe and inlets on north side of W. Middlesex Dr	20,21,23,24,25
9/11/25	PAVING – leveling course on Wolfs Bridge Rd north of W. Middlesex Dr – Schlusser's Paving	25,27, Merle
9/12/25	MS4 – Project 4 – cleaned up ditches, compacted stone around inlets	21,23,24,25
9/12/25	PARKS – checked buildings and trash	20
9/15/25	WOLFS BRIDGE RD PAVING – base repair and widening – Schlusser's Paving	21,22,23,24,25 ,27,Merle
9/15/25	PARKS – started setup for Fall Fest	20,D,M,J
9/16/25	WOLFS BRIDGE RD PAVING – leveling course – Schlusser's Paving	21,22,23,24,25 ,27,Merle
9/16/25	PARKS – Fall Fest setup	20,D,M,J
9/17/25	WOLFS BRDIGE RD PAVING – wearing course on northbound lane – Schlusser's Paving	20,21,22,23,24 ,25, Merle
9/17/25	PARKS – Fall Fest setup, picked up mums, bales of straw and signage in park	22,D,M,J
9/18/25	WOLFS BRIDGE RD PAVING – wearing course on southbound lane – Schlusser's Paving	21,22,23,24,25 ,27, Merle
9/18/25	PARKS – picked up pumpkins, cont'd setup of Fall Fest	20
9/19/25	WOLFS BRIDGE RD PAVING – transitions at intersection with W. Middlesex Dr – Schlusser's Paving	21,23,24,25,27
9/19/25	PARKS – Fall Fest – moved tractors, equipment and supplies to park	20,22
9/20/25	FALL FEST	20,22
9/22/25	PAVING – Wolfs Bridge Rd – leveling patches, Country Club Rd – leveling patches	21,22,24,25
9/22/25	PARKS – clean up from Fall Fest	20, D,M,J

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9/23/25	PAVING – Country Club Rd – base repair and leveling patches	21,22,24,25
9/23/25	PARKS – cont'd cleanup of Fall Fest, painting of gazebo, started painting at Twp shop	20,D,M,J
9/24/25	WOLFS BRIDGE PAVING – placed topsoil along shoulders, stone – raked smooth and seeded	24,25
9/24/25	PARKS – cont'd painting around township shop	20,D,M
9/25/25	PAVING – cleaned up trucks and equipment – put away signage	24,25
9/25/25	BUDGET	20,27
9/25/25	PD – service cars	22
9/25/25	MUN – moved cabinets, furniture, painted wall in office	24,25
9/26/25	Fixed stop sign at Mountain Rd, finished painting wall, took tires for disposal	24,25
9/26/25	COMPOST SITE – turned piles	21
9/26/25	LINE PAINTING – stops bars Wolfs Bridge and W. Middlesex Dr	21,24,25
9/26/25	SHOP – Codes truck – fixed tailgate latch	22
9/29/25	MS4 – Project 4 – Wolfs Bridge Rd – placed amended soils along shoulders creating vegetated swales on east and west side	21,23,24,25
9/29/25	PARKS – checked trash, buildings – painted at the Mun. building	20,D,M,J
9/29/25	SHOP – Tk 105 – service	22
9/30/25	MS4 – Project 4 – cont'd placing amended soils along shoulders	21,23,24,25 – 20
9/30/25	PARKS – mowed and trimmed several random spots, ran coax cable in Rec. building, cont'd painting at Mun building	20,D,M,J
9/30/25	SHOP – Tk 99 – service and repairs	22

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10/1/25	MS4 – Project 4 – removed blacktop and added R-4 blast at end sections	21,23,24,25
10/1/25	PARKS – cont'd painting at MUN bldg., mowed some areas	20,D,J,M
10/1/25	SHOP – Tk 99 – service and repairs	22
10/2/25	CCATO convention	20,27
10/2/25	MS4 – Project 4 – finished placing R-4 blasts	21,23,24,25
10/2/25	LINE PAINTING – Vascar lines on Spring Rd	21,23,24,25
10/2/25	SHOP – Tk 99 – finished service and inspection, Tk 107 – service	22
10/3/25	MS4 – hydro-seed on swales, sealed around pipes in inlets	24,25
10/3/25	SHOP – Tk 107 – cont'd service	22
10/3/25	LINE PAINTING – remarked lines on Bernheisel Bridge and S. Middlesex Rd	24,25
10/6/25	Worked on pipe at Sulphur Spring and 944 – seal joints – worked on fixing guiderail	21,24,25
10/6/25	PARKS – trash, painting at MUN building	20,D,M,J
10/6/25	LINE PAINTING – stops bars, crosswalks on Rt 11 at Sunday Blvd	21,24,25
10/6/25	MTMA – small dump – leaking fuel tank	22
10/7/25	Sulphur Spring Rd – worked on pipe and guiderail	21,23,24
10/7/25	PARKS – painting at MUN building	20,D,M,J
10/7/25	SHOP – Tk 110 – leaking hydraulic pump	22
10/7/25	LINE PAINTING – stop bars and crosswalks, turn arrows – Rt 11/Loves	21,23,24
10/8/25	Serviced line painting machine	21,24
10/8/25	Changed air filters, water filter, fixed water leak – Compost, Pit, Rec, Shop, Zoning	23,25
10/8/25	SHOP – cont'd work on Tk 110	22
10/8/25	MTMA – small dump – finished work on truck	22
10/9/25	Cleanup out inlets on Parkway at Fairview Dr	21,23,24,25
10/9/25	MS4 – Project 4 - fixed a few spots on swale and along road edge on Wolfs Bridge	21,23,24,25
10/9/25	PARKS – worked on Christmas ideas for tree lighting – picked up and ordered items	20
10/9/25	SHOP – finished work on Tk 110 – replaced battery in Tk 44	22
10/10/25	SHOP – cleanup around shop – work on Tk 104 spreader	22
10/10/25	Cleanup fill piles – pushed up brush at compost site	25
10/13/25	SHOP – washed and cleaned both 550's and service truck	24,25
10/13/25	SHOP – cleaned up cones and barricades from tack oil spray	24,25
10/13/25	VEG CONTROL – trimmed trees along Parkway Dr	24,25
10/14/25	STORM SEWER – started excavating inlet at 2 Goldenrod to rebuild	21,23,24,25
10/14/25	Salt deliveries - worked on loader in between	22
10/14/25	PARKS – mowed and trimmed grass	20,D,M,J

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10/15/25	STORM SEWER - cont'd work on inlet on Goldenrod, form box and form around pipes	21,23,24,25
10/15/25	Salt deliveries – work on loader	22
10/15/25	PARKS – mowed and trimmed – picked up items for Christmas	20,D,M
10/16/25	MS4 training – MCM6 – Good housekeeping – walk around mock inspection of facilities – prepared and presented by Skelly and Loy	20,21,22,23,24,25,27, Tracy
10/16/25	STORM INLET – cont'd working on forms – backfill around outer edges	21,23,24,25
10/16/25	SHOP – cont'd work on loader	22
10/16/25	MUN – trimmed brush around municipal complex, near detention basins structures	20
10/17/25	STORM INLET – Goldenrod Dr - finished form work,	21,23,24
10/17/25	LINE PAINTING – re marked center line dases on Bernheisel Bridge Rd	21,23
10/20/25	STORM INLET – Country Club and Rt 11 – removed top – replaced block with riser – fixed around pipe - reset top – backfilled	21,23,24,25
10/20/25	PARKS – started installing Christmas lights	20, D,M,J
10/20/25	PD – service and repairs on PD cars – 1 and 2	22
10/21/25	STORM INLET – poured concrete for inlet – pulled forms end of day	21,23,24,25,27
10/21/25	PARKS/Patching – paved path for pickleball and at Pit – patched inlet at Country Club /Rt 11, MTMA patches – Schlusser's Paving	21,23,24,25
10/21/25	SHOP – service and repairs for PD cars - 9	22
10/21/25	PARKS – cont'd work on Christmas lights	20,D,M,J
10/22/25	STORM INLET – set inlet top, backfilled, placed topsoil, seed, mulch	21,23,24,25
10/22/25	COLD PATCH - potholes/shoulder spots	21,24
10/22/25	MTMA – water main break at XPO – drove township dump truck	25
10/22/25	SHOP – PD cars – service – 10 and 3	22
10/22/25	PARKS – cont'd installing Christmas lights	20, Jason
10/23/25	FIRE Extinguisher – gathered extinguishers	20,21,22,25
10/23/25	Sulphur Spring pipe – concrete head wall around pipe	21,23,24
10/23/25	MTMA – water main break at XPO off Roadway Dr	25
10/24/25	Picked up crack sealing material	21,23
10/24/25	COLD PATCH – fixed several spots twp. wide – potholes and shoulders – placed remainder in hole at Wolfs Bridge and Rt 11	21,23
10/24/25	VEG CONTROL – mowed spots	22
10/24/25	MUN – painting garage doors at shop	20
10/27/25	STORM SEWER – began work on inlet at 2 Farview – excavation, removed block for repairs	21,24
10/27/25	LINE PAINTING – finished lines at Loves Fuel Stop	21,24
10/27/25	PD – Car 2 – service and repairs	22
10/27/25	PARKS – worked on Christmas light install and mowing, trimming and trash and building checks	20,J,M

Date	**Public Works Monthly Work Report** Description	Employee #
10/28/25	STORM SEWERS – replaced inlet box	21,23,24
10/28/25	LINE PAINTING – painted stop lines at 81 ramp and Trindle Rd	21,23,24
10/28/25	PARKS – mowed and trimmed – shut down water to upper park area	20,J,M
10/28/25	MTMA – Pa inspection of Colorado – PD – cont'd work on cars	22
10/29/25	STORM SEWER – finished work around inlet box	21,23,24
10/29/25	PARKS – mowed and trimmed – cleanup – planted trees at MUN	20,J,M
10/30/25	MUN – cleanup/ picked items for office/rec	20,24
10/30/25	PARKS – replaced lock on Splash fence	20,24
10/31/25	SNOICECON – began placing salt spreaders on trucks, testing and calibrating	20,21,23,24
10/31/25	PARKS – Splash Pad – winterized pad features and building	23,24
10/31/25	PARKS – moved soda machine indoors, cleanup around rec building	20,21

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11/3/25	CRACK SEALING – started sealing – Summer paving projects	21,23,25
11/3/25	VEG CONTROL – roadside mowing	22
11/3/25	LINE PAINTING – painted stop bar Trindle Rd	21,23,25
11/3/25	PARKS – cleaned up mowers	M,J
11/4/25	CRACK SEALING – cont'd sealing – Sherwood, Meadows, part of Clemson	21,23,24,25
11/4/25	PARKS – mowed and trimmed	20, M
11/4/25	PD – Car 2 – service and repairs	22
11/4/25	VEG CONTROL – cont'd roadside mowing	22
11/5/25	CRACK SEALING – cont'd sealing – finished Clemson, cont'd Wolfs Bridge	21,23,24,25
11/5/25	LINE PAINTING – finished Trindle/81 lines, stop bars	21,23,24,25
11/5/25	VEG CONTROL – cont'd mowing	22
11/5/25	SHOP – worked on tar buggy	22
11/6/25	CRACK SEALING – finished Wolfs Bridge, started Leida	21,23,24,25
11/6/25	PD – cont'd work on Car 2	22
11/6/25	VEG CONTROL – cont'd roadside mowing	22
11/7/25	LINE PAINTING – Country Club and finished Leida	21,23,24,25
11/7/25	VEG CCONTROL – cont'd mowing	22
11/10/25	LINE PAINTING – Alpha Space Control – 2 trucks	21,23
11/11/25	LINE PAINTING – Alpha Space Control – 1 truck	21
11/12/25	Cleaned up trash along Bernheisel Bridge	21,23,24,25
11/12/25	CRACK SEALING – finished sealing Leida, Roadway	21,23,24,25
11/12/25	PARKS – worked on gate – manlift	20,22
11/13/25	Cleaned up tar buggy – took back to Silver Springs	21,24
11/13/25	ROADWAY DR – put millings in turnaround at end	21,23,24,25
11/13/25	Placed R-4 in ditch along Claremont across from Harmony Hall	21,23,24,25
11/13/25	Sherwood Dr – fixed hole at pipe near Ap trail crossing – filled with concrete	23,25
11/14/25	SIGNAGE – fixed signs	23,24
11/14/25	STORM SEWERS – cleaned pipe at Dave Fry's, and ditch across street	21,23,24
11/17/25	STRONG WINDS – checked roads for downed limbs and brush – checked for leaves in inlets	21,23,24,25
11/17/25	Finished grading on Roadway Dr and N. Old Stonehouse Rd	21,23,24,25
11/17/25	PARKS – picked up parts for gate – reset post	20,22
11/18/25	PARKS – worked on gate at Pit	20,22
11/18/25	MUN – started decorating in Mun. bdlg. – setup big tree	21,23,24,25
11/19/25	PARKS – lights at gazebo – checked parks	20,J
11/19/25	Worked on lights around mun. building	21,23,24,25
11/19/25	PARKS – worked on gate	21,22

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11/19/25	VEG CONTROL – trimmed trees along roads	21,23,25
11/19/25	Hauled 2A stone to stockpile	23,25
11/20/25	SNOICECON – installed spreaders on Tk 104, 113	21,23,24,25
11/20/25	CHRISTMAS décor – finished trees and municipal building – trimmed bushes, planted trees at Letort Falls	21,23,24,25
11/20/25	PARKS – finished work on gate at Pit	20,22
11/21/25	SIGNAGE – worked on fixing signs – Deer crossings on N. Old Stonehouse	23,25
11/21/25	COMPOST SITE – turned piles – cleanup around site	21,24
11/24/25	SIGNAGE – installed weight limit signs on Harmony Hall and W. Middlesex Dr	23,24
11/24/25	COLD PATCH – several spots around township	23,24
11/24/25	SHOP – Tk 113 – spreader lights	22
11/25/25	COLD PATCH – finished spots, Roadway, Appa Dr	23,25
11/25/25	ROADWAY DR – streetlights – excavate conduit - broken several spots – started looking at other options for electric	21,23,24,25
11/25/25	Cleanup around shop – started taking decals off old Car 4	23,25
11/26/25	ROADWAY DR – ran new electric wires for streetlights – removed old electric lines	21,24,25
11/26/25	Checked light on mountain at round about, checked lights at Flying J	21,24
11/26/25	Finished Car 4 decal removal – cleanup around shop	23,25
11/26/25	NMT – emissions inspections	22

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12/1/25	SNOICECON – made sure trucks were ready, moved plows around – loaded trucks end of day	22,23
12/1/25	SHOP – moved equipment at shop and Pit, stored some items for winter	22,23
12/1/25	PARKS – fixed tables at Rec. building	22,23
12/2/25	SNOICECON – 4AM – 7:30AM – antiskid routes – reloaded trucks	20,21,22,23,24,25,27
12/2/25	SNOICECON – 8AM-1:30PM – Plow routes – shoulder to shoulder	20,21,22,23,24,25
12/3/25	SNOICECON – dumped off and fueled trucks – started washing	21,23,25
12/3/25	SIGNAGE – fixed signs on Harrisburg Pike, Wolfs Bridge, markers on Wolfs Bridge	23,25
12/4/25	ROADWAY traffic signal – worked on wiring at signal, backfilled ditch	21,23,25
12/4/25	SHOP – Tk 112 – worked on spreader controls	22
12/4/25	SNOICECON – finished washing trucks	23,25
12/4/25	Picked up items for tree lighting	21
12/5/25	PARKS – setup for tree lighting – decorations	20 – 25,27
12/5/25	MTMA – helped on dig on Harmony Hall	25
12/5/25	SHOP – Tk 112 – finished repairs – dumped off truck and washed	22
12/8/25	MTMA – 2nd dig on Harmony Hall	21,23
12/8/25	PARKS – clean up from tree light and Santa breakfast	20,21,23
12/8/25	SHOP – cleanup and p/m on Tk 112	22
12/8/25	Traffic light at Fly J – cleaned of corrosion	21,23
12/9/25	Delineators and snow markers	23,25
12/9/25	PARKS – worked on furnace at Pit	21,24
12/9/25	SHOP – service on Tk 103	22
12/9/25	PARKS – cont'd cleanup of tree lighting	20
12/10/25	MTMA – hauled stone and helped backfill	23,25
12/10/25	PARKS – Pit garage – heat not working – trouble shoot and removed fan motor – had checked and needed replaced	21,24
12/10/25	STREETLIGHTS – 1 circuit of lights not working at roundabout – traced wire – think a guiderail post was driven through wire	21,24
12/10/25	SNOICECON – snow sleet mix – antiskid routes 3:30-6, call in by PD at 10-12	20,21,23,24,25,27
12/11/25	SNOICECON – dumped off trucks – rinsed off salt	21,23,25
12/11/25	SNOICECON – worked on trucks, spreaders – replaced blade on Tk 110	21,24,25
12/12/25	PARKS – replaced motor in heat at Pit	21,24,25
12/12/25	Cleaned off manhole covers on S. Middlesex Rd, worked on damaged guiderail	21,24,25
12/12/25	SHOP – service Hiway pickups	22
12/13/25	SNOICECON – light snow – about 2 inches – antiskid routes – 9PM-12AM	20,21,22,23,24,25,27
12/14/25	SNOICECON – blowing/drifting – 6-8:30AM	23,25,27

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12/14/25	SNOICECON – drifting snow – 11:30am-1:30PM	25
12/14/25	SNOICECON – drifting snow – 4:30-8PM	23,25
12/15/25	SNOICECON – drifting – plowed back areas	20,22,23,24
12/15/25	SNOICECON – dumped off trucks – fueled	20,22,23,24
12/15/25	SNOICECON – light snow – antiskid routes – 4:30-8PM	20,21,22,23,24,25,27
12/16/25	SNOICECON – dumped off trucks – fueled and started washing trucks and equipment	20,21,23,24,25
12/16/25	SHOP – Tk 112/111 – air leaks	22
12/17/25	MUN – started working PD offices – moving items to paint	23,25
12/17/25	PARKS – Rec building – fixed toilet	20,21
12/17/25	Flagger Training – Schlusser's shop	24,27
12/17/25	TRAFFIC SIGNALS – issue at Rt 11/Wolfs Bridge	20,22,24
12/18/25	STREETLIGHTS – Roundabout - excavated electric line – removed posts	20,21,23,24
12/18/25	MTMA – helped with dig on S. Middlesex	25
12/19/25	STREETLIGHTS – Roundabout - made repairs to electric line – tested lights	20,21,23,24,25
12/22/25	PARKS – checked buildings – UV light	21,24
12/22/25	PD – painting in Beth's office	23,25
12/23/25	SNOICECON – light snow – antiskid routes – 6:00-9AM	20,21,22,23,24,25,27
12/23/25	SNOICECON – dumped off trucks – fueled	21,23,24,25
12/24/25	PD – cont'd painting in Beth's office	24,25
12/26/25	SNOICECON – Ice storm – antiskid routes several times – 1:30PM-9:30PM	20,21,22,23,24,25,27
12/27/25	SNOICECON – spot treated icy spots – 4-6AM	27
12/29/25	SNOICECON – dumped off trucks, fueled	21,23
12/29/25	PA one calls – checked guiderails, sign at Flying J	21,23
12/29/25	Cleaned mud off Ridge Dr from developers	22
12/30/25	STRONG WINDS – checked for downed trees and limbs	23,24,25
12/30/25	SNOICECON – antiskid/salt on Sherwood, Deer, and Mountain Rds	25
12/30/25	SNOICECON – washed trucks and equipment	23,24,25
12/31/25	SHOP – replaced outside water hydrant	24,25
12/31/25	MUN – mounted computer in kitchen area for cameras	24,25

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1/1/26	SNOICECON – strong snow squalls	20,21,22,23,25,27
1/2/26	PARKS – checked trash, buildings – cleanup	20
1/5/26	STRONG WINDS – checked roads for tree limbs	21,23,24,25
1/5/26	MUN – took down Christmas tree – setup for Reorg meeting	21,23,24,25
1/5/26	SIGNAGE – fixed sign on Harrisburg Pike	24,25
1/5/26	SNOICECON – dumped off trucks – fueled and started washing	21,23,24,25
1/5/26	PARKS – started cleanup of decorations items – organizing	20
1/5/26	PD – Car 2 – repairs – service	22
1/6/26	SNOICECON – finished washing trucks and equipment	21,24
1/6/26	PD – cont'd painting in offices – finished Beth's, started in Chiefs	23,25
1/6/26	PD – cont'd work on cars	22
1/6/26	PARKS – started looking at budget purchases, field rentals	20
1/7/26	PD – cont'd painting in Chief's office	23,25
1/7/26	SIGNAGE – fixed signs and replaced a few delineators – marked one calls	21,24
1/7/26	PD – cont'd work on PD cars	22
1/7/26	PARKS – took down Christmas lights at park	20,21,24,J
1/8/26	PD – finished painting Chiefs office – trim painting	23,25
1/8/26	PARKS – cont'd cleanup of decorations, organizing and storing	20,21,25
1/9/26	Worked with Automated Your Speed Signs – installed in the Meadows	20,21,24
1/9/26	PD – moved items in Chief's office, hung coat rack	23,25
1/12/26	VEG CONTROL – trimmed trees along roads	20,21,23,24,25
1/12/26	PD – service and repairs to several cars	22
1/13/26	VEG CONTROL – trimmed trees along roads	20,21,23,24,25
1/13/26	PARKS – met with CV baseball about field rental	20
1/13/26	PD – cont'd repairs and service of PD cars	22
1/14/26	VEG CONTROL – finished trimming trees across township	20,21,23,24,25
1/14/26	SHOP – worked on forklift – service and repairs	22
1/15/26	Cleaned up tools and equipment from tree trimming	21,23,25
1/15/26	PD – cont'd painting in offices – PD break rm	23,25
1/15/26	PARKS – clean up, replaced clock, put away remaining Christmas items	20,21
1/15/26	Salt Deliveries	21
1/16/26	PD – cont'd painting in break room	23,24,25
1/16/26	ZONING/ENG – worked on moving Bud's office to old tax office	23,24,25
1/16/26	Salt Deliveries	22
1/18/26	SNOICECON – light snow – about 2" – started salt routes – put plows on – finished by plowing routes – 3:30AM-10AM	21,22,23,24,25,27

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1/20/26	ZONING/ENG – worked in Bud's office – finished setup – started work on moving refrigerator	23,25
1/20/26	SIGNAGE – fixed Only Cars sign	21,24
1/20/26	SNOICECON – started dumping off trucks, fueled, started washing	21,24
1/20/26	PD – service and repairs	22
1/21/26	PD – worked on cabinet in PD break room – picked up refrigerator	23,25
1/21/26	SNOICECON – started checking snow markers	21,24,23,25
1/21/26	SIGNAGE – worked with Iworq to track sign placement	21,24
1/21/26	PD – cont'd work on cars – LB Smith	22
1/22/26	SNOICECON – worked on delineator markers	23,25
1/22/26	SNOICECON – painted indicator lines for storm inlets	21
1/22/26	SNOICECON – prepped trucks – moved snowplows – fueled – checked supplies	20,21,22,23,25
1/22/26	PD – setup refrigerator – installed countertop	23,25
1/23/26	SNOICECON – finished checking markers – finished painting indicators – loaded trucks with salt	20,22,23,24,25
1/25/26	SNOICECON – SNOW – 3-7AM – main roads – plowed(1 pass) - 7-3PM – shoulder to shoulder before sleet mix – 3-11PM – sleet/mix – plowed/salt as needed	20,21,22,23,24,25,27,Scott, Jake,Merle
1/26/26	SNOICECON – checked roads – plowed back shoulders and pushed up intersections – salted as needed	20,21,23,24,25
1/26/26	SHOP – worked on trucks – 110,114	22
1/26/26	FIRE ASSIST – 7380 Wertzville Rd – plowed driveway	21,22
1/27/26	SNOICECON – drifting – plowed/salted	25
1/27/26	SNOICECON – started dumping off trucks, fueling, inspections Cleaned up around Mun bdlg.	21,23,25
1/27/26	PARKS – cleared lots, shoveled walks at Rec bdlg	20,24
1/27/26	SHOP – cont'd work on trucks – 114	22
1/28/26	SNOICECON – washed and cleaned trucks - inspections	20,21,23,24,25
1/28/26	Picked signs run down on Harrisburg Pike	23,25
1/29/26	SNOICECON – finished washing trucks and equipment – took off stored plows – moved equipment back to stored areas – fueled all trucks and equipment	20,21,23,24,25
1/29/26	Cont'd work in Zoning office – fixed wall/mounted keyboard shelf	23,25
1/29/26	Cleanup at Pit	20,24
1/30/26	SIGNAGE – worked on signs on Rt 11 – need to reset bases	23,24,25
1/30/26	MUN – started painting preparation in Robin's old office – fixed marks in wall	23,24,25

Employee # Key

20 – Scott Shepler 21 – Chad Davis 22 – Kevin Sheriff
23 – John Hackman 24 – Josh Travitz 25 – Jordan Hurley 27 – Zachary Zook

Date	**Public Works Monthly Work Report** Description	Employee #
2/2/26	MUN – cont'd painting in Robin's old office	23,24,25
2/2/26	SHOP – forklift – new seat, service	22
2/2/26	PARKS – ball field registration	20
2/3/26	MUN – finished painting and cleaning up in Robin's old office	23,24,25
2/3/26	PD – PD cars – service, repairs	22
2/3/26	PARKS – field registration – Parks Comp Plan	20
2/4/26	SIGNAGE – worked on signs, fixed Cars Only at Flying J – need to go back and fix Do Not Enter	23,24,25
2/4/26	SIGNAGE – worked on ordinance list of signs – Stop/No Parking/ Weight limit/Speed Limit	23,25
2/4/26	SIGNAGE – IWorq – began entering signs	21,24
2/4/26	FD – Car 50 – service, repair and inspection	22
2/5/26	SIGNAGE – worked on ordinance list	23,25
2/5/26	FD – Car 50 - washed and cleaned interior – picked up PD car at LB	24,25
2/5/26	SIGNAGE – cont'd logging signs in IWorq	21,23
2/5/26	PD – service and repairs	22
2/6/26	SIGNAGE – cont'd logging signs	21,23,24,25
2/6/26	SNOICECON – light snow – antiskid routes – 7-30-9:30PM	20,21,22,23,24,25,27
2/7/26	SNOICECON – strong winds – drifts – plowed and salted – 6-11AM	20,21,23,27
2/9/26	SNOICECON – checked roads for slick spots, downed tree limbs	24,25
2/9/26	PESTICIDE TRAINING – PSU Extension – Grantville	21,23
2/9/26	SNOICECON – dumped off trucks, fueled, began washing	20,22,24,25
2/10/26	SNOICECON – finished washing trucks and equipment	
2/10/26	MUN/ZONING – started building shelf unit to store blueprints	23,25
2/10/26	PARKS – meeting for park planning	20
2/10/26	SIGNAGE – cont'd entering signs in IWorq	21,24
2/11/26	PARKS – cleanup and installed shelving in park shop	20,23,24,25
2/11/26	SHOP – Tk 113 – started service and repairs	22
2/11/26	PA One Call Coordination meeting	21,27
2/12/26	SIGNAGE – cont'd entering signs in Iworq	21,24
2/12/26	MUN/ZONING – cont'd work on shelf unit	23,25
2/12/26	SHOP – Tk 113 – service and repairs – found broken snowplow hitch	22
2/13/26	SHOP – Tk 113 – finished service – started repairs to hitch	22
2/13/26	SIGNAGE – cont'd entering signs in IWorq	23,24
2/13/26	Picked up items/supplies for Mun/Hi-way/Parks	21
2/17/26	ZONING – finished painting shelving unit – moved into place	23,25
2/17/26	PD – started cleanout in old conference/storage room – prep to create detective office	23,25

Date	**Public Works Monthly Work Report** Description	Employee #

2/17/26	SIGNAGE – cont'd work in IWorq	21,24
2/17/26	SHOP – Tk 113 – cont'd work on snowplow hitch	22
2/18/26	PD – cont'd work in detective office	23,25
2/18/26	SIGNAGE – Iworq – entered signs	21,24
2/18/26	SHOP – Tk 113 – snowplow hitch	22
2/19/26	SINGAGE - cont'd work in IWorq	21
2/19/26	PD – cont'd working in detective's office	23,25
2/19/26	Returned items to Lowe's & went to Beam's Carpet for PD office flooring	23,25
2/20/26	PD – work on detective's office & lobby	23,25
2/20/26	Unclogged pipe on Sherwood dr	21,23,24,25
2/20/26	SHOP – Tk 111 & old backhoe	22
2/20/26	SINGAGE – cont'd work in IWorq	21,24
2/20/26	PD - Moved desk from pit to PD	23,25
2/20/26	Listed PD old car #4 & MTMA truck on Municibid	21
2/22/26	SNOICECON – Plow & salt 7:75pm – 2/23/26 5:45am	20,21,22,23, 24,25,27
2/23/26	SNOICECON – Plowed drifts & salt where needed	21
2/24/26	SNOICECON – Empty trucks, fueled trucks, rinsed spreaders	23,24,25
2/24/26	SINGAGE – "cars only" sign & sign at Rutters	23,25
2/24/26	SHOP - Tk 110 – plow hitch	22
2/24/26	SHOP – Breakroom – moved furniture and table	23,24,25
2/25/26	Shop – Worked on old backhoe	22
2/25/26	PD – cont'd work in detective's office	23,25
2/25/26	Met with ATS about fiberoptic line	21,24
2/25/26	PA 1 calls	21,24
2/25/26	SINGAGE – cont'd work in IWorq	21,24
2/26/26	SNOICECON – wash & clean trucks	21,23,24,25
2/26/26	MUN – buff floors	25
2/27/26	PD – Cont'd working in detective's office	23,25
2/27/26	Repaired guiderail @ Clemson dr & Wolfs Bridge rd.	21,23,24,25
2/27/26	Signage – Cont'd work in IWorq	21,24
2/27/26	Shop – Worked on old backhoe	22

Employee # Key

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Date	**Public Works Monthly Work Report** Description	Employee #

3/02/26	Dug holes at street lights for ATS fiberoptic	21,23,24,25
3/02/26	Snoicecon – loaded trucks with salt	20,22,23,24, 25
3/02/26	Shop – worked on old Backhoe	22
3/03/26	Snoicecon – Salt routes 4:15am – 6:30am	20,21,22,23, 24,25,27
3/03/26	Called around for asphalt pricing and account status	21
3/03/26	Signage – Picked up new signs and posts and replaced signs	23,25
3/03/26	Compost site – turned newer mulch pile	21
3/04/26	Signage – Fixed speed limit sign on Mill rd.	23,25
3/04/26	Snoicecon – Emptied and started washing trucks and fuel	20,21,23,24
3/04/26	Shop – worked on truck 110	22
3/05/26	Snoicecon – Finished washing trucks and fuel	21,23,24,25
3/05/26	Office – fixed and paint celling in meeting room	23,25
3/05/26	Signage – Cont'd working in IWorq	21,24
3/06/26	Highway - Checked roads and storm inlets after heavy rain	23,24
3/06/26	Highway - Swept roads "Mountain rd. and Sherwood dr.	21,23,24
3/06/26	Highway - Cleaned out storm inlets on Appalachian dr. by turn pike bridge	21,23,24
3/06/26	Pushed tree off road "Appalachian dr"	21,23,24
3/06/26	Office – Cont'd painting celling in meeting room.	23,24
3/06/26	Shop – Cont'd working on old backhoe and chop saw	22
3/09/26	Highway – Cleaned up mud from Wolfs Bridge rd.	23,25
3/09/26	Office – Cont'd painting celling in meeting room	23,25
3/09/26	Cont'd digging holes with ATS for fiberoptic	23,24,25
3/10/26	Cont'd digging holes with ATS for fiberoptic	23,24,25
3/10/26	Shop – PD chiefs' car	22
3/11/26	Cont'd digging holes and installing junction boxes with ATS	23,24,25
3/11/26	Park – Installed poles for banners at main building	20,21
3/11/26	Set up and installed new AED's	21
3/11/26	Shop – Worked on truck 111	22
3/12/26	PD – Finished carpet tiles in detectives office	23,25
3/12/26	Park – Worked on posts and banners at main building	20,24
3/12/26	Compost – Turned mulch piles	25
3/12/26	Signage – Cont'd working in IWorq	23,24
3/13/26	Signage – Cont'd working in IWorq	24,25
3/13/26	Shop – Work on truck 114	22
3/13/26	Shop – Dropped PD car 4 off at body shop	21,22
3/13/26	Signage – Fixed stop sign in The Meadows	24,25

Date	**Public Works Monthly Work Report** Description	Employee #
3/16/26	Shop – Clean up around shop	23,25
3/16/26	Highway – Checked Country Club Rd	20,24
3/16/26	Prepared for possible storm	20,23,24,25
3/16/26	Signage – Cont'd working in IWorq	21,24
3/16/26	Signage – Clean , repair, & replace signs	23,25
3/17/26	Highway – Checked roads after storms	21,23,24,25
3/17/26	Signage – Clean , repair, & replace signs	23,25
3/17/26	Highway – Measured roads for repair	21,24
3/17/26	Highway - Cleaned up downed tree on mountain Rd	21,23,24,25
3/18/26	Signage – Clean , repair, & replace signs	23,25
3/18/26	PA One call locator class	21,24
3/19/26	Signage – Cont'd working in IWorq	23,25
3/19/26	Signage – Clean , repair , & replace signs	23,25
3/19/26	Studied for spray and pool license	24
3/19/26	Shop – Worked on truck 114	22
3/20/26	Snoicecon – Put plows away at pit garage	20,22,23,24, 25
3/20/26	Parks – Worked on baseball fields	20,24
3/20/26	Highway – Cut road for repair on Sherwood Dr	23,24,25
3/21/26	Call in for downed tree on Mountain Rd	24
3/23/26	Snoicecon – Picked up snow markers along road sides	23,24
3/23/26	Cont'd working w/ATS digging holes for junction boxes for fiber optic	21,23,24,25
3/23/26	Worked on old backhoe	22
3/24/26	Cont'd working w/ATS digging holes for junction boxes for fiber optic	21,23,24,25
3/24/26	Shop – worked on old backhoe	22
3/25/26	Cont'd working w/ATS digging holes for junction boxes for fiber optic	21,23,24,25
3/26/26	Cont'd working w/ATS digging holes for junction boxes for fiber optic	21,23,24,25
3/27/26	Highway – Cont'd working in IWorq	24,25
3/27/26	Highway- Measured roads for repair	21
3/30/26	Cont'd working w/ATS digging holes for fiber optic	21,23,24,25
3/30/26	Snoicecon – Removed spreaders and put away	21,23,24,25
3/31/26	Highway – Graded shoulders on W. Middlesex dr	21,23,24,25
3/31/26	Hauled fill from compost site	23,24,25
3/31/26	Added 20' section of pipe to compost fill site	23,24,25

Employee # Key

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24 – Josh Travitz
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Date	**Public Works Monthly Work Report** Description	Employee #
4/01/26	Studied for spray / Pool license	24
4/01/26	Cont'd working in IWorq	21,23,25
4/01/26	Cut down trees at main township office building	21,23,24,25
4/02/26	Highway - Cleaned up downed tree on Ridge dr	21,24,25
4/02/26	Highway – Swept West Middlesex Dr & Meadow Brook farms	21,24,25
4/06/26	Cut Bradford pear trees down main township office building	22,23
4/06/26	Pushed up brush @ compost site	23
4/06/26	Highway – Fixed stop sign	22
4/07/26	Dug out stumps at main Township office building	21,24
4/07/26	Hauled storm inlets & tops removed from housing development at data center	21,23,24,25
4/07/26	Hauled mulch for Cumberland County Prison	23,25
4/08/26	Hauled storm inlets & tops removed from housing development at data center	20,21,23,24, 25
4/08/26	Marked pa 1calls	24
4/09/26	Highway – swept roads @ North Middleton	21
4/09/26	Cont'd removing stumps @ main township office building	23,24,25
4/10/26	Highway - Cont'd sweeping roads @ North Middleton	21
4/10/26	Cont'd removing stumps and planting new trees @ main township building	20,23,24
4/13/26	Cont'd hauling storm inlets & tops removed from old housing development at data center site	21,23,24,25
4/14/26	Traffic Lights – Dirt work on shoulders – fiber install	23,24,25
4/14/26	Landscaping and topsoil work around township building	23,24,25
4/15/26	MS4 project – Dirt work along Wolfs bridge Rd	21,23,24,25
4/15/26	Landscaping around main township office building	23,25
4/15/26	Highway – Repaired street lights along route 11 – lights flashing – found short in wire	21,24
4/16/26	Marked PA 1 Call	21
4/16/26	Traffic Signals – Dirt work along shoulders – fiber install	23,24,25
4/16/26	Highway – Road repair on Sherwood Dr 35'x11'- removed broken up blacktop – subbase and 2A stone - compacted	21,23,24,25
4/16/26	Snoicecon – removed remaining salt spreaders	23,24,25
4/17/26	Traffic lights - Dirt work on Harrisburg Pike for fiber optic	23,25
4/17/26	Cont'd hauling storm inlets & tops removed from old housing development at data center site	23,25
4/20/26	VEG CONTROL - Roadside spraying	23,25
4/21/26	VEG CONTROL - Roadside spraying	23,24,25
4/21/26	Compost site- Pushed up brush	25
4/22/26	Checked 1 calls	23,25
4/22/26	Main township building – top soil work around existing trees – seed, mulch	23,25

Date	**Public Works Monthly Work Report** Description	Employee #
4/22/26	VEG CONTROL - Roadside spraying	23,25
4/22/26	Hauled inlet boxes and tops removed from house development at data center	23,24,25
4/23/26	VEG CONTROL - Roadside spraying	23,25
4/23/26	Park- Spraying	23,25
4/27/26	Park- Spraying	23,25
4/27/26	Traffic Lights - Dirt work on Harrisburg Pike for fiber optic	23,25
4/28/26	Traffic Lights - Dirt work on Harrisburg Pike for fiber optic	23,24,25
4/29/26	Traffic Lights - Dirt work on Harrisburg Pike for fiber optic	23,24,25
4/29/26	MS4 - Fixed shoulder on Wolfs Bridge Rd where vehicle drove off the road	23,24,25
4/29/26	Practice running JCB at compost site "morning"	25
4/29/26	Practice running JCB at compost site	24
4/29/26	Township office - Moved furniture in offices	23,25
4/30/26	Highway- base repair patch on Sherwood Dr	20,22,23,24, 25

Employee # Key

20 – Scott Shepler	21 – Chad Davis	22 – Kevin Sheriff	D-Dave
23 – John Hackman	24 – Josh Travitz	25 – Jordan Hurley	J-Jason
27 – Zachary Zook			M-Mark

Date	**Public Works Monthly Work Report** Description	Employee #
5/01/26	Dirt work on Harrisburg Pike from Fiber optic – topsoil, cleanup	23,24,25
5/01/26	MUN Office- Misc. work – moved furniture, cleanup, moved wires in Eileen's old office	23,24,25
5/01/26	Compost site- pushed up brush & turned mulch piles	25
5/04/26	Highway- Dug and stoned corner of Wolfs Bridge Rd at Harrisburg Pike	21,23,24,25
5/05/26	Highway- Black topped corner of Wolfs Bridge Rd at Harrisburg Pike	20,21,23,24
5/06/26	New truck prebuild @ PA municipal	21,24
5/06/26	Cont'd Working in Iworq	23,25
5/06/26	MUN Office- arranged meeting room for Township meeting	23,25
5/07/26	Highway- Painted "Stop Ahead" and added blinking red lights to stop signs at S. Middlesex Rd & Trindle Rd	21,23,24,25
5/07/26	MUN Office- Moved furniture	23,24,25
5/07/26	Highway- Hauled blacktop for North Middleton	23
5/07/26	PA 1 Calls	21
5/07/26	Splash Pad- Emptied water tank	24/25
5/08/26	Highway- Painted "Stop Ahead" on Claremont Rd	21,24,25
5/08/26	Highway- Hauled black top for North Middleton	23
5/08/26	Shop- Installed screens in down spouts	21,24,25
5/08/26	Splash Pad- Cleaned debris from bottom of tank	24,25
5/11/26	Highway- Hauled black top for North Middleton	23
5/11/26	Highway- Fixed signs on Harrisburg Pike	24,25
5/11/26	PA 1 calls	21
5/11/26	Highway- Cleaned out swales and pipes on Old Stone House Rd, Ridge Dr & Horners Rd.	21,24,25
5/12/26	Highway- Cleaned shoulders on Appalachian Dr for tar & chip	21,23,24,25
5/12/26	Highway- Replaced missing sign on Horners Rd	23,25
5/12/26	PA 1 Calls	21,24
5/13/26	Studied for Pesticide core test	24
5/13/26	Highway- Replaced sign on Ridge Dr	23,25
5/13/26	Highway- Cleaned shoulders for tar & chip "Appalachian Dr"	21,23,24,25
5/13/26	Shop- Washed & cleaned trucks	23,25
5/14/26	Studied for Pesticide core test	24
5/14/26	Pa 1 call coordination meeting	21
5/14/26	Splash pad- Filled tank and prep filtration system	23,24,25
5/15/26	Splash Pad – Filtration system start up	21,23,24,25
5/15/26	Highway- Clean shoulders for tar & chip "Appalachian Dr	21,23,24,25
5/18/26	Highway- Line painting stop bars on "S. Middlesex Rd & Claremont Rd "	21,23,24,25
5/18/26	Highway- Line painting stop bars and crosswalks "Roadway Dr "	21,23,24,25

Date	**Public Works Monthly Work Report** Description	Employee #
5/19/26	Splash Pad – started installing features and controls, diaphragms	21,24
5/19/26	Highway- Road side spraying	23,25
5/19/26	Highway- Line painting stop bars and crosswalks "Roadway Dr & Harrisburg Pike."	21,23,24,25
5/20/26	Highway- Line painting stop bars, crosswalks and turn arrows "Harrisburg Pike & Roadway Dr"	21,23,24,25
5/20/26	Splash Pad - put together feature pump, finished control setup	21,24
5/20/26	Studied for Pesticide core test	24
5/20/26	Highway- Cut up downed tree at "Deer Lane & Wertzville Rd	23,25
5/21/26	Splash Pad - started feature pump – worked on leaks	21,23
5/21/26	Pesticide Core test in York	24
5/21/26	Shop- Made generator extension cords for traffic lights	23
5/21/26	Set up Rec building for meetings	21,23
5/26/26	Splash Pad start up – adjusted features – water leaks, replaced diaphragms	21,23,24,25
5/27/26	Splash Pad start up – cleaned pad – prep for paint touchup	21,24
5/27/26	Highway- Fallen tree - Pushed tree off road on Letort Dr	23,25
5/27/26	Shop- Removed decals on PD car	23
5/27/26	Shop- Installed new water heater in shop	23,25
5/27/26	MUN/ building maintenance- Replaced and checked air/water filters & AEDs in township buildings	25
5/27/26	PA 1 calls	21,24
5/27/26	Highway- Measured Roads for paving and tar & chip	21,24
5/28/26	Office- assembled file/plan boxes	23,24,25
5/28/26	Splash pad- paint and caulk as needed around features	21,23,24,25
5/28/26	Highway- Clean shoulders for tar & chip "Appalachian Dr & Mill Rd"	21,23,24,25
5/29/26	Splash pad – started pump – trouble shoot priming issue	21,22,24
5/29/26	Highway- Checked streetlights on Harrisburg pike	23,25
5/29/26	Worked on setting up the vending machine – issues with power - troubleshoot	21,23,25

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23 – John Hackman	24 – Josh Travitz	25 – Jordan Hurley	J-Jason
27 – Zachary Zook			M-Mark

Date	**Public Works Monthly Work Report** Description	Employee #
6/01/26	Splash pad - checked levels	24,25
6/01/26	Highway- Mark PA 1 Calls for storm sewer replacement projects	21
6/01/26	Streetlights - Worked on Streetlights on Harrisburg Pike	24,25
6/01/26	Shop- Cleaned service truck	25
6/02/26	Splash pad	21,25
6/02/26	Storm sewers - Picked up 3 inlet boxes from Monarch	21/25
6/02/26	Highway- Worked on streetlights on Harrisburg Pike	21,25
6/03/26	Splash Pad	21,25
6/03/26	Storm sewer - Pickup inlet boxes for storm water projects	21,25
6/03/26	Storm sewer - Worked on streetlights on Harrisburg Pike	21,25
6/04/26	Splash pad	20,21,22
6/05/26	Splash pad	21,25
6/05/26	Streetlights - Streetlights on Harrisburg Pike	21,25
6/08/26	Splash pad	21,22
6/09/26	Splash pad	21,24
6/09/26	Streetlights - Streetlights on Harrisburg Pike	23,25
6/09/26	Veg Control - Roadside mowing JCB	21,23,24,25
6/10/26	Veg Control - Roadside mowing JCB	21,23,24,25
6/11/26	Veg Control - Roadside mowing JCB and tractor	20,21,22,23, 24,25
6/11/26	Call in - trees down and generators for traffic lights	21,24
6/12/26	Highway- Storm clean up	20,21,22,24,25
6/14/26	Call in - tree down and generators for traffic lights	20,21,25,27
6/15/26	Highway- Storm clean up	20,21,22,23,25
6/16/26	Highway- Storm clean up	21,22,23,25
6/16/26	Veg Control - Roadside mowing JCB	21,23,25
6/17/26	Veg Control - Roadside mowing JCB	21,23,24,25
6/18/26	PA 1 Call safety day at York Convention Center	20,21,24
6/18/26	Shop- Washed trucks	25
6/19/26	Park- Mowed in park with JCB	21
6/19/26	Studied for Pool category 24 pesticide exam	24
6/19/26	Highway- Replaced batteries in stop light at s. Middlesex Rd & Trindle Rd	24
6/22/26	Park- Mowed in park with JCB	21,24
6/22/26	PA1 Calls	21
6/22/26	Veg Control - Trimmed trees blocking signs	23,25
6/22/26	Storm sewers - Saw cut roads for storm water work	23,25
6/22/26	Signage - Install new 48" stop sign @ S. Middlesex and W. Trindle rd.	23,24,25

Date	**Public Works Monthly Work Report** Description	Employee #
6/23/26	New truck inspection post build – punch list	21
6/23/26	Hauled fill from compost site	23,25
6/24/26	Storm sewer - Picked up pipe for storm sewer work.	23,25
6/24/26	Paving prep - Inspected and cleaned storm inlets in The Meadows	21,23,25
6/25/26	Storm sewer - Storm sewer repair Fairview & Parkway, shot grades, cleaned out old inlet box	20,21,23,25
6/26/26	Highway- Replaced batteries stop sign S. Middlesex	23,25
6/26/26	Signage - installed MPH signs on Country Club Rd	21,24
6/26/26	Hauled old junk tires away for disposal	23,25
6/26/26	Splash Pad – daily maintenance	21,24
6/26/26	Signage - Sign work	23,25
6/29/26	Storm sewer - Storm sewer replacement Fairview Dr & Parkway Dr	20,21,23,24
6/30/26	Storm sewer - Storm sewer replacement Fairview Dr & Parkway Dr	20,21,23,24 ,25
6/30/26	Pa 1 call's – marked and responded	23,25

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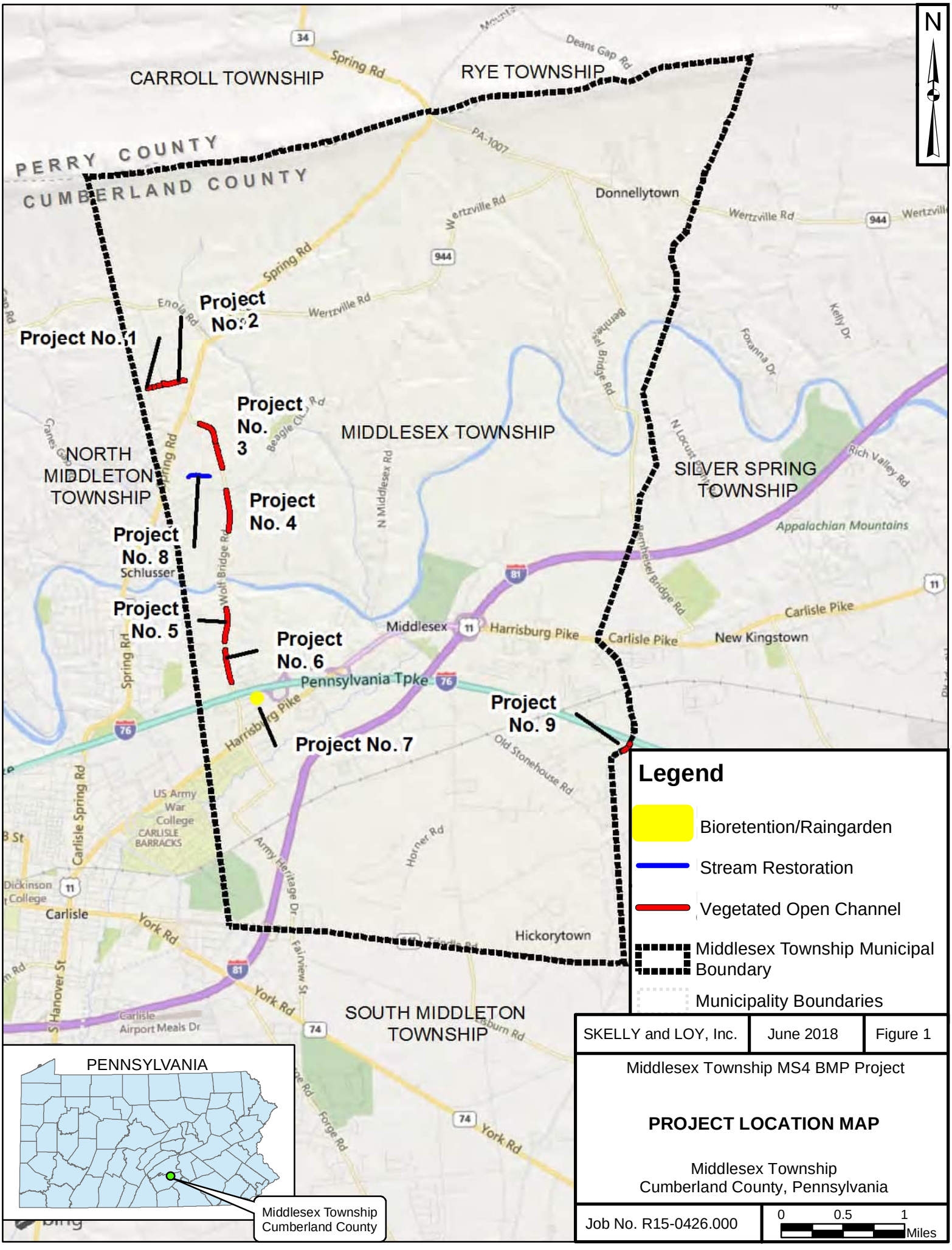
6d - Anderson Park Maintenance Log 2025-2026

Anderson Park Maintenance Log | 2025/2026

DATE	Trash Clean	Pet Waste	Veg. Control	Time(hours)	Employee(s)
7/2/25	X		X	1	J, D, M
7/9/25	X		X	1	ZO, D, J, M
7/15/25	X		X	3	ZO, D, J, M
7/22/25	X		X	1	ZO, D, J, M
7/29/25	X		X	1	ZZ, D, M, J
8/27/25	X		X	1	ZO, D, J, M
9/30/25	X		X	1	ZO, D, J, M
10/14/25	X		X	1	ZO, D, J, M
11/4/25	X		X	1	ZO, M
4/6/26	X		X	1	ZO, D, J, M
4/14/26	X		X	1	D, J, M
4/21/26	X		X	1	D, J, M
4/28/26	X		X	1	D, M
5/12/26	X		X	1	D, J, M
5/18/26	X		X	1	D, J, M
5/27/26	X		X	1	D, J, M
6/1/26	X		X	1	D, J, M
6/8/26	X		X	1	D, J, M
6/16/26	X		X	1	D, J, M
6/22/26	X		X	1	D, J
6/30/26	X		X	1	D, J, M

POLLUTANT CONTROL MEASURES (PCMs) AND POLLUTANT REDUCTION PLANS (PRPs) ATTACHMENTS

7a - Middlesex Township MS4 BMP Project Location Map

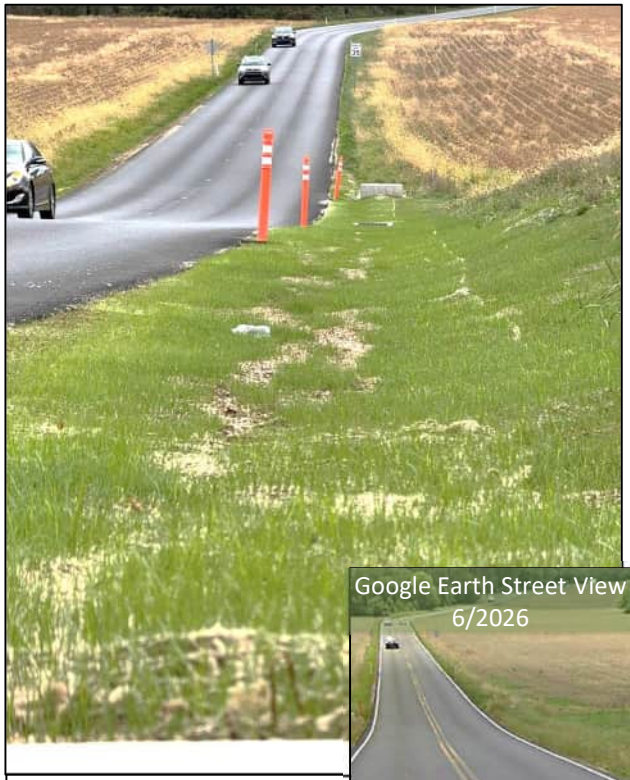

N
CARROLL TOWNSHIP
RYE TOWNSHIP
PERRY COUNTY
CUMBERLAND COUNTY
Donnellytown
Project No. 1
Project No. 2
Project No. 3
Project No. 4
Project No. 5
Project No. 6
Project No. 7
Project No. 8
Schlusser
Project No. 9
MIDDLESEX TOWNSHIP
NORTH MIDDLETON TOWNSHIP
SILVER SPRING TOWNSHIP
SOUTH MIDDLETON TOWNSHIP
Middlesex
New Kingstown
Hickorytown
Carlisle
Appalachian Mountains
US Army War College
CARLISLE BARRACKS
Spring Rd
Wertzville Rd
Harrisburg Pike
Carlisle Pike
Pennsylvania Tpke
York Rd
Old Stonehouse Rd
Wolf Bridge Rd
N Middlesex Rd
Barnitz Island Bridge Rd
Rich Valley Rd
Carlisle Spring Rd
Army Heritage Dr
Horner Rd
Fairview St
S Hanover St
Forge Rd
Enola Rd
Foxanna Dr
Kelly Dr
Deans Gap Rd
PA-1007
Legend
Bioretention/Raingarden
Stream Restoration
Vegetated Open Channel
Middlesex Township Municipal Boundary
Municipality Boundaries
PENNSYLVANIA
Middlesex Township
Cumberland County
SKELLY and LOY, Inc.
June 2018
Figure 1
Middlesex Township MS4 BMP Project
PROJECT LOCATION MAP
Middlesex Township
Cumberland County, Pennsylvania
Job No. R15-0426.000
0 0.5 1
Miles

7b - Photo Log Middlesex Township Pollutant Reduction Plan Constructed Best Management Practices

Photo Log

Middlesex Township Pollutant Reduction Plan

Constructed Best Management Practices



Photograph No. 1

Project 4 Wolfs' Bridge Rd. south of West Middlesex Drive looking south 10/2025.

Note the well vegetated and stable roadside channel that was installed in 2023-2024. Google Earth insert shows even denser vegetation in 2026.



Photograph No. 2

Project 4 Wolfs' Bridge Rd. north of West Middlesex Drive looking south 10/2025.

New inlet northwest of the intersection.



Photograph No. 3

Project 4 Wolfs' Bridge Rd. south of West Middlesex Drive looking north 10/2025.

The roadside swale now has capacity for roadway runoff. Combined with "gray" infrastructure the former erosion that was contributing to pollution has been resolved.

Photo Log

Middlesex Township Pollutant Reduction Plan

Constructed Best Management Practices



Photograph No.

Project 8 - stream restoration of UNT to Wertz Run; NW of Wolfs' Bridge Rd. and West Middlesex Drive.

Pre-construction: Upper reach of the stream channel.



Photograph No. 5

Project 8 - stream restoration of UNT to Wertz Run; NW of Wolfs' Bridge Rd. and West Middlesex Drive.

Pre-construction: Typical stream channel mid-project.



Photograph No. 6

Project 8 - stream restoration of UNT to Wertz Run; NW of Wolfs' Bridge Rd. and West Middlesex Drive.

Pre-construction: Typical near vertical bank erosion within the channel. Note the embedded bottle for scale.

Photo Log

Middlesex Township Pollutant Reduction Plan

Constructed Best Management Practices



Photograph No. 7

Project 8 - stream restoration of UNT to Wertz Run; NW of Wolfs' Bridge Rd. and West Middlesex Drive.

During Construction: Upper Reach similar location ads Photograph 3. Log steps used trees harvested from the site to stabilize the channel.



Photograph No. 8

Project 8 - stream restoration of UNT to Wertz Run; NW of Wolfs' Bridge Rd. and West Middlesex Drive.

During Construction: Mid project similar location as Photograph 4. Some sinuosity was reintroduced and stream banks were regraded to stable slopes.



Photograph No. 9

Project 8 - stream restoration of UNT to Wertz Run; NW of Wolfs' Bridge Rd. and West Middlesex Drive.

During Construction: Boulder steps created step pools that dissipates energy in this steep reach of the project.

Photo Log

Middlesex Township Pollutant Reduction Plan

Constructed Best Management Practices



Photograph No. 10

Project 8 - stream restoration of UNT to Wertz Run; NW of Wolfs' Bridge Rd. and West Middlesex Drive.

Post- Construction: Same view as Photograph 7 during the first growing season.



Photograph No. 11

Project 8 - stream restoration of UNT to Wertz Run; NW of Wolfs' Bridge Rd. and West Middlesex Drive.

Post- Construction: Same view as Photograph 8 during the first growing season.



Photograph No. 12

Project 8 - stream restoration of UNT to Wertz Run; NW of Wolfs' Bridge Rd. and West Middlesex Drive.

Post- Construction: Same view as Photograph 9 during the first growing season.