September 28, 2020

Krista Brown  
Environmental Protection Compliance Specialist  
Pennsylvania Department of Environmental Protection  
2 East Main Street  
Norristown, PA 19401

RE: Chester County Permit for Stormwater Discharges  
NPDES Permit No. PA1360046  
Progress Report – Partial Year 5 – Year 6 – Partial Year 7

Dear Ms. Brown:

On behalf of the County of Chester, enclosed please find the following:

• Form 3800-FM-BCW0491 9/2017 – Annual MS4 Status Report;
• Exhibit I – Water Quality Information;
  o Exhibit I – Narrative;
  o Exhibit I – Map WQ-2-2015;
• MCM #1 and MCM #2 – multiple BMPs
  o Emails regarding activities Chester County was unable to complete due to Covid-19 restrictions
  o Attachment IA – Public Education and Outreach Plan and Accomplishments with examples (7/1/18 – 6/30/19);
  o Attachment IB – Public Education and Outreach Plan with examples (7/1/18 – 6/30/19);
  o Attachment II – Public Participation and Involvement Plan with examples (7/1/18 – 6/30/19);
  o Attachment IA – Public Education and Outreach Plan and Accomplishments with examples (7/1/19 – 6/30/20);
  o Attachment IB – Public Education and Outreach Plan with examples (7/1/19 – 6/30/20);
  o Attachment II – Public Participation and Involvement Plan with examples (7/1/19 – 6/30/20);
• MCM #6 – BMP #3 – Training
  o Documentation regarding Salt and Snow Management

As noted in the cover letter which accompanied the Year 1 report submitted June 24, 2015, it is Chester County’s intent that the components and actions presented and referred to in the Year 1 Progress Report comprise the County’s Stormwater Pollution Prevention Program (SWPPP) and Standard Operating Procedure (SOP).

The table included as Exhibit I (with narrative and map) is unchanged from the Year 1 Progress Report and is included herein for ease of referencing. Attachments IA, IB, and II are updates to previously submitted documents.

Chester County’s inventory of regulated outfalls was updated with its application for coverage under a new permit submitted on October 30, 2018.
This submittal represents the County's best understanding of Partial Year 5, Year 6, and Partial Year 7 requirements as they apply to the County's system and responsibilities. Please let us know if there is anything further you need us to provide. Thank you.

Very truly yours,

[Signature]

David J. Athey, P.E.
Principal Water Resources Engineer

cc: Janet Bowers – Chester County Facilities Department
John Dargay – Chester County Facilities Department
SeungAh Byun – Chester County Water Resources Authority
Cory Trego – Chester County Water Resources Authority
Chris Strohmaier – Chester County Conservation District
Rick Weisbond – Chester County Geographic Information Systems
# Annual Municipal Separate Storm Sewer System (MS4) Status Report

**For the Period:** July 1, 2018 to June 30, 2020

## General Information

<table>
<thead>
<tr>
<th>Permittee Name:</th>
<th>County of Chester</th>
<th>NPDES Permit No.:</th>
<th>PA1 130546</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mailing Address:</td>
<td>313 Market Street Suite 5402 P.O. Box 2748</td>
<td>Effective Date:</td>
<td>May 1, 2014</td>
</tr>
<tr>
<td>City, State, Zip:</td>
<td>West Chester, PA 19380-0991</td>
<td>Expiration Date:</td>
<td>April 30, 2019</td>
</tr>
<tr>
<td>MS4 Contact Person:</td>
<td>John Dargay</td>
<td>Renewal Due Date:</td>
<td>November 1, 2018</td>
</tr>
<tr>
<td>Title:</td>
<td>Project Manager III</td>
<td>Municipality:</td>
<td>N/A</td>
</tr>
<tr>
<td>Phone:</td>
<td>610-344-4315</td>
<td>County:</td>
<td>Chester</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:jdargay@chesco.org">jdargay@chesco.org</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Co-Permitees (if applicable): N/A

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  
- [x] No

Identify all surface waters that receive stormwater discharges from the permittee’s MS4 and provide the requested information (see instructions).

<table>
<thead>
<tr>
<th>Receiving Water Name</th>
<th>Ch. 93 Class.</th>
<th>Impaired?</th>
<th>Cause(s)</th>
<th>TMDL?</th>
<th>WLA?</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Exhibit I</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>MCM</th>
<th>Entity Responsible</th>
<th>Contact Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1 Public Education and Outreach on Storm Water Impacts</td>
<td>Chester County</td>
<td>John Dargay</td>
<td>610-344-4315</td>
</tr>
<tr>
<td>#2 Public Involvement/Participation</td>
<td>Chester County</td>
<td>John Dargay</td>
<td>610-344-4315</td>
</tr>
<tr>
<td>#3 Illicit Discharge Detection and Elimination (IDD&amp;E)</td>
<td>Chester County</td>
<td>John Dargay</td>
<td>610-344-4315</td>
</tr>
<tr>
<td>#4 Construction Site Storm Water Runoff Control</td>
<td>Chester County</td>
<td>John Dargay</td>
<td>610-344-4315</td>
</tr>
<tr>
<td>#5 Post-Construction Storm Water Management in New Development and Redevelopment</td>
<td>Chester County</td>
<td>John Dargay</td>
<td>610-344-4315</td>
</tr>
<tr>
<td>#6 Pollution Prevention / Good Housekeeping</td>
<td>Chester County</td>
<td>John Dargay</td>
<td>610-344-4315</td>
</tr>
</tbody>
</table>

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: 5/14/20  Were updates made?  ☒ Yes  ☐ No

3. What were the plans and goals for public education and outreach for the reporting period?
   Please see Attachment IA.

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:
   Please see Attachment IB.

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: 5/14/20  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?
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Date of latest annual review of educational materials: 5/14/20</td>
<td>Were updates made? ☑ Yes ☐ No</td>
</tr>
<tr>
<td>3. Do you have a municipal website? ☑ Yes ☐ No (URL: <a href="https://www.chesco.org/2891/Stormwater-Program">https://www.chesco.org/2891/Stormwater-Program</a>)</td>
<td></td>
</tr>
</tbody>
</table>
If Yes, what MS4-related material does it contain?
Chester County’s "Only Rain in the Drain" commitment, excerpts from County Board of Commissioners’ Priorities and Goals related to management of stormwater / flooding and improving water quality, "What is Stormwater?", "How Does Stormwater Pollution Reach Our Streams?", "How Can You Help Protect our Local Streams?", an overview of Chester County’s Stormwater Pollution Prevention Program, a link to Chester County Water Resources Authority website containing numerous brochures and publications, and links to DEP and EPA websites. Also included is a phone number to report concerns and the presentation made at the March 26, 2018 public meeting.

4. Describe any other method(s) used during the reporting period to provide information on stormwater to the public:
   Please see Attachment IA.

5. Identify specific plans for the publication of stormwater materials for the upcoming year:
   Please see Attachment IB.

**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).

Please see Attachment IA.

**MCM #1 Comments:**
None.

**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: 5/14/20 Were updates made? □ Yes □ No

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

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

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

3. If an ordinance, SOP or plan was developed or amended during the reporting period, provide the following information:
<table>
<thead>
<tr>
<th>Ordinance / SOP / Plan Name</th>
<th>Date of Public Notice</th>
<th>Date of Public Hearing</th>
<th>Date Enacted or Submitted to DEP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

- 5 -
**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: November 7, 2019

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.

   Trash clean-ups were promoted and input was sought at each of the meetings listed above. Also please see Attachment IA.

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.

   Please see Attachment II.

**MCM #2 Comments:**

None.

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**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: 5/14/20

   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): October 30, 2018 (application for new permit)

3. Total No. of Outfalls in MS4: 60    Total No. of Outfalls Mapped: 60

4. Total No. of Observation Points: 0    Total No. of Observation Points Mapped: 0

5. During the reporting period, have you identified any existing outfalls that have not been previously reported to DEP in an NOI, application or annual report, or are any new MS4 outfalls proposed for the next reporting period?
   - Yes ☐ No ☒

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

1. Have you completed a map(s) that includes all components of BMP #3? ☑ Yes ☐ No
   If Yes and you are a new permittee and have not submitted the map(s) previously, attach the map(s) to this report.
   If No, date by which permittee expects map(s) to be completed:
2. If Yes to #1, is the map(s) on the same map(s) as for outfalls and receiving waters? ☑ Yes ☐ No
3. Date of last update or revision to map(s): October 30, 2018 (application for new permit)

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. 84%
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: 1996 (attached to Year 1 report)
2. If Yes to #1, is the ordinance or SOP consistent with DEP’s 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) with respect to authorized non-stormwater discharges? ☐ Yes ☑ No
   If Yes to #2 and the ordinance or SOP has not been submitted to DEP previously, attach the ordinance or SOP.
3. Were there any violations of the ordinance or SOP during the reporting period? ☐ Yes ☒ No
   
   If Yes to #3, complete the table below (attach additional sheets as necessary).
   
<table>
<thead>
<tr>
<th>Violation Date</th>
<th>Nature of Violation</th>
<th>Responsible Party</th>
<th>Enforcement Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

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? New hire orientation handout included information on how citizens can reduce their contributions of pollutants to receiving waterways. Much of this information is also included on the County's stormwater webpage.

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:

In regards to BMP #4, it was indicated that 84% of outfalls were screened during the permit term. Several outfalls were inaccessible due to seasonal vegetation. However, in each of these cases, the pipes which formed these outfalls have just one inlet associated with their system or in one case, from a detention basin. In all of these cases, the systems are solely on and surrounded by County property which precludes illicit connections. Furthermore, as was explained in the County's application for coverage under the next permit cycle, several ends of pipe previously classified as outfalls are being re-classified as not outfalls based on more recent guidance from DEP. Based on the above, the County concludes that there were no dry weather discharges from 100% of its regulated outfalls.

The County has prepared an SOP (Year 1 report) which includes Ordinance #1-96. This ordinance prohibits dumping, vehicular maintenance, destruction of natural features, etc., on County properties.

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
- [x] 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
- [x] Not Applicable (no building permit applications received)

**BMP #3:** Enact, implement and enforce an ordinance or SOP to require the implementation and maintenance of E&S control BMPs, including sanctions for non-compliance, as applicable.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that requires implementation and maintenance of E&S control BMPs?  
   - [ ] Yes
   - [x] No
   
   If Yes, indicate the date of the ordinance or SOP:

2. If Yes to #1, is the ordinance or SOP consistent with DEP’s 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)?  
   - [ ] Yes
   - [ ] No

3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

**BMP #4:** Review Erosion and Sediment (E&S) control plans to ensure that such plans adequately consider water quality impacts and meet regulatory requirements.

Specify the number of E&S Plans you reviewed during the reporting period:

**BMP #5:** Conduct inspections regarding installation and maintenance of E&S control measures during earth disturbance activities. Maintain records of site inspections, including dates and inspection results, in accordance with the record retention requirements in this permit.

Specify the number of E&S inspections you completed during the reporting period:

**BMP #6:** Conduct enforcement when installation and maintenance of E&S control measures during earth disturbance activities does not comply with permit and/or regulatory requirements.

Specify the number of enforcement actions you took during the reporting period for improper E&S:

**BMP #7:** Develop and implement requirements for construction site operators to control waste at construction sites that may cause adverse impacts to water quality. The permittee shall provide education on these requirements to construction site operators.

Specify the method(s) by which you are educating construction site operators on controlling waste at construction sites:

**BMP #8:** Develop and implement procedures for the receipt and consideration of public inquiries, concerns, and information submitted by the public to the permittee regarding local construction activities.

1. A tracking system has been established for receipt of public inquiries and complaints.  
   - [ ] Yes
   - [ ] No

2. Specify the number of inquiries and complaints received during the reporting period:

**MCM #4 Comments:**
The implementation and maintenance of E&S measures on County properties is provided by construction plan reviews and inspections by the Chester County Conservation District.
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: 6/24/15 (Year 1 report)

2. If Yes to #1, is the ordinance or SOP consistent with DEP’s 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100)?  ☒ Yes  ☐ No

3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

**BMP #2:** Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment. Measures should also be included to encourage retrofitting LID into existing development. Enact ordinances consistent with LID practices and repeal sections of ordinances that conflict with LID practices.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that encourages and expands the use of LID in new development and redevelopment?  ☒ Yes  ☐ No

   If Yes, indicate the date of the ordinance or SOP: 6/24/15 (Year 1 report)

2. If Yes to #1, is the ordinance or SOP consistent with DEP’s 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100)?  ☒ Yes  ☐ No

3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

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

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

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

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

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

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

**BMP #4:** Require the implementation of a combination of structural and/or non-structural BMPs that are appropriate to the local community, that minimize water quality impacts, and that are designed to maintain pre-development runoff conditions.

1. Specify the number of PCSM Plans reviewed during the reporting period for projects disturbing greater than or equal to one acre (including projects less than one acre that are part of a larger common plan of development or sale):

2. Has a tracking system been established and maintained to record qualifying projects and their associated BMPs?

   ☐ Yes  ☐ No
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).

<table>
<thead>
<tr>
<th>BMP No.</th>
<th>BMP Name</th>
<th>DA (ac)</th>
<th>Entity Responsible for O&amp;M</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Date Installed</th>
<th>O&amp;M Requirements</th>
<th>NPDES Permit No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CP-A</td>
<td>Facilities</td>
<td>39.905765</td>
<td>-151.322309</td>
<td>2011</td>
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<td>PAG0200151004</td>
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<tr>
<td>2</td>
<td>CP-B</td>
<td>Facilities</td>
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<td>2011</td>
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<td>PAG0200151004</td>
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<tr>
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<td>DC-A</td>
<td>Facilities</td>
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<tr>
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<td>Facilities</td>
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<td>-75.584736</td>
<td>n/a</td>
<td>Periodic Inspections</td>
<td>n/a</td>
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<td>GSC-B</td>
<td>Facilities</td>
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<td>n/a</td>
<td>Periodic Inspections</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>OS-A</td>
<td>Facilities</td>
<td>39.904941</td>
<td>-75.661211</td>
<td>2011</td>
<td>Periodic Inspections</td>
<td>PAG0200151004</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>OS-B</td>
<td>Facilities</td>
<td>39.905905</td>
<td>-75.66362</td>
<td>2011</td>
<td>Periodic Inspections</td>
<td>PAG0200151004</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>PH-A</td>
<td>Facilities</td>
<td>39.900487</td>
<td>-75.659586</td>
<td>n/a</td>
<td>Periodic Inspections</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>PH-B</td>
<td>Facilities</td>
<td>39.90224</td>
<td>-75.657355</td>
<td>n/a</td>
<td>Periodic Inspections</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>XL_A</td>
<td>Facilities</td>
<td>40.032692</td>
<td>-75.620849</td>
<td>n/a</td>
<td>Periodic Inspections</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>XPS-A</td>
<td>Facilities</td>
<td>40.034755</td>
<td>-75.605377</td>
<td>2012</td>
<td>Periodic Inspections</td>
<td>PAG02001507010-R</td>
<td></td>
</tr>
</tbody>
</table>
### 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:

Chester County has no authority to regulate land development, construction or stormwater management and thus has no ordinance to enforce; the County is responsible only for construction and stormwater management conducted by the County on County property. The County’s SOP indicates that the County will comply with post-construction stormwater management requirements of CCCD and the municipality where the project is located, including applicable requirements related to the use of BMPs, green infrastructure, and BMP O&M agreements and inspections. Because all municipalities are implementing the DEP approved Chester County Act 167 ordinance, all activities conducted by the County in compliance with municipal requirements will be generally consistent with the requirements of the DEP model ordinance.

### 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? 5/14/20

3. When was it last updated? September 13, 2012 (NOI submittal)

#### 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: 5/14/20

#### 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: | 5/14/20 | Date of latest training: | November 2019 |
3. Training topics covered:
   Salt and snow management

4. Name(s) of training presenter(s):
   Please see attachments

5. Names of training attendees:
   Please see attachments

**MCM #6 Comments:**
None.

**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.*

<table>
<thead>
<tr>
<th>Task</th>
<th>Date Completed</th>
<th>Attached</th>
<th>Anticipated Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm Sewershed Map(s)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Source Inventory</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigation of Suspected Sources</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ordinance/SOP for Controlling Animal Wastes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PCM Comments:**
Not applicable for Chester County.

**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).

<table>
<thead>
<tr>
<th>Type of Plan</th>
<th>Submission Date</th>
<th>DEP Approval Date</th>
<th>Surface Waters Addressed by Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chesapeake Bay PRP (Appendix D)</td>
<td></td>
<td></td>
<td>Chesapeake Bay</td>
</tr>
<tr>
<td>Impaired Waters PRP (Appendix E)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMDL Plan (Appendix F)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combined Chesapeake Bay / Impaired Waters PRP</td>
<td></td>
<td></td>
<td>Chesapeake Bay,</td>
</tr>
<tr>
<td>Combined PRP / TMDL Plan</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joint Plan <em>(if checked, list the name of the MS4 group or names of all entities participating in the joint plan below)</em></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Joint Plan Participants:
2. Identify the pollutants of concern and pollutant load reduction requirements under the permit (see instructions).

<table>
<thead>
<tr>
<th>Type of Plan</th>
<th>TSS Load Reduction (lbs/yr)</th>
<th>TP Load Reduction (lbs/yr)</th>
<th>TN Load Reduction (lbs/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Chesapeake Bay PRP (Appendix D)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Impaired Waters PRP (Appendix E)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ TMDL Plan (Appendix F)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Combined Chesapeake Bay / Impaired Waters PRP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Combined PRP / TMDL Plan</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

4. Have any modifications to the plan(s) occurred since DEP approval? □ Yes □ No
   
   If Yes to #4, was the updated plan(s) submitted to DEP? □ Yes □ No
   
   If Yes to #4, did you comply with the public participation requirements of the applicable appendix? □ Yes □ No
   
   If Yes to #4, describe the plan modifications.

5. Summary of progress achieved during reporting period.

6. Anticipated activities for next reporting period.

PRP/TMDL Plan Comments:
Not applicable for Chester County.
**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).

<table>
<thead>
<tr>
<th>BMP No.</th>
<th>BMP Name</th>
<th>DA (ac)</th>
<th>% Imp.</th>
<th>BMP Extent</th>
<th>Units</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Date Installed or Implemented</th>
<th>Planning Area?</th>
<th>Ch. 102?</th>
<th>Annual Sediment Load Reduction (lbs/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A for Chester County</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**BMP INVENTORY FOR PRP/TMDL PLAN IMPLEMENTATION**

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

| BMP No. | BMP Name | DA (ac) | % Imp. | BMP Extent | Units | Latitude | Longitude | Date Installed | Annual Sediment Load Reduction (lbs/yr) | Date of Latest Inspection | Satisfactory? |
|---------|----------|---------|--------|------------|-------|----------|-----------|---------------|----------------------------------------|--------------------------|              |
| N/A     | N/A for Chester County |        |        |            |       |          |           |               |                                        |                          |              |

- 18 -
### 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).

<table>
<thead>
<tr>
<th>Janet L. Bowers</th>
<th>Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Responsible Official</td>
<td></td>
</tr>
<tr>
<td>610-344-6220</td>
<td></td>
</tr>
<tr>
<td>Telephone No.</td>
<td>Date</td>
</tr>
</tbody>
</table>
EXHIBIT I

WATER QUALITY INFORMATION
## Exhibit I – Permit PA130546 – Chester County, PA

**Water Quality Information – Partial Year 5 - Year 6 - Partial Year 7 Progress Report**

### SCHUYLKILL RIVER WATERSHED

<table>
<thead>
<tr>
<th>Receiving Water Name</th>
<th>Municipality</th>
<th>Outfalls</th>
<th>Ch. 93 Class</th>
<th>Impaired?</th>
<th>Cause(s)</th>
<th>TMDL?</th>
<th>WLA?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schuylkill River</td>
<td>Phoenixville Borough (BRS-01 - BRS-06)</td>
<td>BR-01</td>
<td>BR-02</td>
<td>BR-03</td>
<td>BR-04</td>
<td>BR-05</td>
<td>BR-06</td>
</tr>
<tr>
<td></td>
<td>Spring City Borough (SRT-brs-7 and SRT-pipe-te)</td>
<td>SRT-brs-10</td>
<td>SRT-brs-13</td>
<td>SRT-brs-7</td>
<td>SRT-pipe-p10</td>
<td>SRT-pipe-p5</td>
<td>SRT-pipe-p11</td>
</tr>
<tr>
<td></td>
<td>East Vincent Township (all remaining)</td>
<td>SRT-pipe-p5a</td>
<td>SRT-pipe-p6</td>
<td>SRT-pipe-p9</td>
<td>SRT-pipe-p9a</td>
<td>SRT-pipe-te</td>
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<tr>
<td>Unnamed Tributary to Schuylkill River</td>
<td>East Vincent Township</td>
<td>SRT-brs-15</td>
<td>SRT-brs-16</td>
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<td></td>
<td></td>
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<tr>
<td>Unnamed Tributary to Schuylkill River</td>
<td>East Vincent Township</td>
<td>SRT-pipe-p5</td>
<td>WWF-MF</td>
<td>No</td>
<td>Urban Runoff/Storm Sewers - Cause Unknown</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Story Run</td>
<td>East Pikeland Township</td>
<td>SRT-brs-17/18</td>
<td></td>
<td>HQ-TSF</td>
<td>Yes</td>
<td>Agriculture - Siltation</td>
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### CHESTER CREEK / GOOSE CREEK WATERSHED

<table>
<thead>
<tr>
<th>Receiving Water Name</th>
<th>Municipality</th>
<th>Outfalls</th>
<th>Ch. 93 Class</th>
<th>Impaired?</th>
<th>Cause(s)</th>
<th>TMDL?</th>
<th>WLA?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goose Creek</td>
<td>West Goshen Township</td>
<td>GSC-01</td>
<td>GSC-01.1</td>
<td>GSC-01.2</td>
<td>GSC-02</td>
<td>GSC-03</td>
<td>GSC-03.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GSC-03.2</td>
<td>GSC-03.3</td>
<td>GSC-04</td>
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</tbody>
</table>

### CHRISTINA RIVER / BRANDYWINE CREEK WATERSHED

<table>
<thead>
<tr>
<th>Receiving Water Name</th>
<th>Municipality</th>
<th>Outfalls</th>
<th>Ch. 93 Class</th>
<th>Impaired?</th>
<th>Cause(s)</th>
<th>TMDL?</th>
<th>WLA?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pocopson Creek</td>
<td>Pocopson Township</td>
<td>PH-03</td>
<td>TSF-MF</td>
<td>Yes</td>
<td>Agriculture - Siltation</td>
<td>Yes¹ (sediment)</td>
<td>No</td>
</tr>
<tr>
<td>Unnamed Tributaries to Pocopson Creek</td>
<td>Pocopson Township</td>
<td>CP-02</td>
<td>CP-04</td>
<td>OS-01</td>
<td>OS-02</td>
<td>OS-03</td>
<td>OS-04</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PH-01</td>
<td>PH-02</td>
<td>PH-04</td>
<td>PH-05</td>
<td>PH-07</td>
<td>PH-08</td>
</tr>
<tr>
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<td>PH-09</td>
<td>PH-10</td>
<td>PH-11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unnamed Tributaries to Pocopson Creek</td>
<td>Pocopson Township</td>
<td>CP-03</td>
<td>CP-05</td>
<td>CP-06</td>
<td>CP-07</td>
<td>CP-11</td>
<td>CP-12</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unnamed Tributaries to Brandywine Creek</td>
<td>Pocopson Township</td>
<td>CP-08</td>
<td>CP-09</td>
<td>CP-10</td>
<td></td>
<td>WWF</td>
<td>No</td>
</tr>
<tr>
<td>Brandywine Creek East Branch</td>
<td>Upper Uwchlan Township</td>
<td>ST-01</td>
<td>HQ-TSF-MF</td>
<td>No</td>
<td>None (double check)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valley Creek (West)</td>
<td>West Whiteland Township</td>
<td>XL-01</td>
<td>XL-02</td>
<td>XL-03</td>
<td></td>
<td>CWF-MF</td>
<td>Yes</td>
</tr>
</tbody>
</table>

1. EPA TMDL Subbasin B31 - Total Maximum Daily Loads for Bacteria and Sediment Under High Flow Conditions in the Christina River Basin
2. EPA TMDL Subbasin B15 - Total Maximum Daily Loads for Bacteria and Sediment Under High Flow Conditions in the Christina River Basin
3. EPA TMDL Subbasin B10 - Total Maximum Daily Loads for Nutrient and Low Dissolved Oxygen Under High Flow Conditions in the Christina River Basin
4. EPA TMDL Subbasin B20 - No TMDL established
The table located on page 1 of the MS4 Annual / Progress Report form entitled Water Quality Information requires the permittee to indicate whether or not a TMDL and a WLA have been established for each receiving water body associated with the permittee’s regulated outfalls. For the Chester County MS4 September 2020 Partial Year 5, Year 6, and Partial Year 7 Progress Report, the following rationale was used for making these determinations for regulated outfalls located in the Brandywine Creek watershed. Certain other outfalls located in other watersheds drain to receiving waters that are impaired. For some, TMDLs have been developed for their entire watershed and thus, do not require detailed explanation. These are therefore excluded from this narrative.

Two stormwater (high-flow) TMDLs have been established for the Christina Basin and each covers only a portion of the Brandywine Creek watershed:

- “Total Maximum Daily Loads for Bacteria and Sediment in the Christina River Basin, Pennsylvania, Delaware, and Maryland” (9/7/2006)
- “Revisions to Total Maximum Daily Loads for Nutrient and Low Dissolved Oxygen under High-Flow Conditions, Christina River Basin, Pennsylvania, Delaware, and Maryland” (September 2006)

For the Sediment TMDL:
- Figures 4-3 and 4-4 (pgs 4-13 and 4-14) indicate:
  - the 35 subbasins used for the TMDL modeling
  - the 9 subbasins that had streams listed as impaired by sediment as of 1996 and 1998 (respectively); these are the only subbasins for which high-flow sediment TMDLs were calculated
- Table 4-7 (pg 4-15) indicates:
  - The 9 subbasins for which sediment TMDLs were calculated and the allocations for each of those subbasins (B01, B04, B05, B06, B09, B14, B15, B20, and B31)
  - None of the remaining 26 subbasins have sediment TMDLs

For the Nutrient TMDL:
- Figures 0-1 and 0-2 (pgs 4-2 and 4-3) indicate:
  - The 35 subbasins used for the TMDL modeling
  - The 14 subbasins that had streams listed as impaired for nutrients and low DO as of 1996 and 1998 (respectively); these are the only subbasins for which high-flow nitrogen/phosphorus TMDLs were calculated
- Table 4-3 (pg 4-8) indicates:
  - The 14 subbasins for which Total Nitrogen and Total Phosphorus TMDLs were calculated and the allocations for each of those subbasins (B01, B02, B03, B04, B05, B06, B09, B10, B17, B18, B19, B32, B33, and B34)
  - None of the remaining 21 subbasins have Nitrogen or Phosphorus TMDLs

Collectively:
- The following 18 subbasins have nitrogen/phosphorus and/or sediment TMDL(s): B01, B02, B03, B04, B05, B06, B09, B10, B14, B15, B17, B18, B19, B20, B31, B32, B33, and B34
• The following 17 subbasins do not have any TMDL: B07, B08, B11, B12, B13, B16, B21, B22, B23, B24, B25, B26, B27, B28, B29, B30, and B35

For the Chester County MS4 September 2018 Year 4 and Partial Year 5 Progress Report:

• Those outfalls discharging to streams located within a Christina subbasin for which a high-flow sediment, nitrogen and/or phosphorus TMDL was calculated are listed as having a TMDL
• Those outfalls discharging to streams located within a Christina subbasin for which there is no high-flow sediment, nitrogen or phosphorus TMDL are listed as having NO TMDL

The accompanying map illustrates the following, which indicates which Chester County MS4 outfalls discharge to a receiving water for which a TMDL has been established:

• the municipalities within the Brandywine Creek watershed
• the 35 Christina subbasins
• the 9 subbasins that have a sediment high-flow TMDL
• the 14 subbasins that have nitrogen and phosphorus TMDLs
• the 17 subbasins that have no TMDL
• the location of Chester County’s regulated MS4 outfalls located within the Brandywine Creek watershed
Chester County Outfalls located in Subbasins with Christina River Basin TMDL Allocations

Regulated Outfalls
- CP County Prison: 10 outfalls to Pocopson Creek, and 3 outfalls to Unnamed Trib. to Brandywine Creek
- CG Youth Center: 4 outfalls to Pocopson Creek
- PN Pocopson Home: 11 outfalls to Pocopson Creek
- ET Struble Trail: 1 outfall to East Branch Brandywine Creek
- XL Exton Library: 3 outfalls to Valley Creek

Christina Basin HSPF model subbasins
- Nutrient and Sediment load allocations per 2006 TMDLs
- Nutrient load allocations only per 2006 TMDLs
- Sediment load allocations only per 2006 TMDLs
- Subbasins without nutrient or sediment load allocations

Christina Basin watersheds

Municipal Boundaries
County Boundary

DATA SOURCES:
- Subbasins delineation: GIS files provided by USGS-Exton Office, 6/9/09.
- Subbasins with Christina River Basin TMDL allocations:
  - Regulated Outfalls
  - Christina County Outfalls located in Subbasins with Christina River Basin TMDL Allocations
  - Christina Basin HSPF model subbasins
  - Christina Basin watersheds

DISCLAIMER:
This map was generated using the best information available at the time of publication. This map may not be relied upon as the sole basis of determination of regulatory requirements or responsibilities. The relevant PADEP reports and other documents should be consulted for official designations and associated regulatory information. Should any conflicts exist between this map and the relevant Pennsylvania laws and regulations, the laws and regulations shall prevail.

No part of the document may be reproduced, stored in a retrieval system or transmitted in any form of by any means, electronic, mechanical, photocopying, recording or otherwise, except as expressly permitted by the County of Chester, Pennsylvania.

Chester County Water Resources Authority
www.chesco.org/water
MCM #1 AND #2

MULTIPLE BMPs

PUBLIC EDUCATION AND OUTREACH AND
PUBLIC INVOLVEMENT / PARTICIPATION
FYI

From: Brown, Krista
Sent: Thursday, May 28, 2020 2:00 PM
To: Athey, David
Subject: [EXTERNAL] RE: Chester County NPDES MS4 permit - COVID-19 Impacts

Hi David,
You can just include a print out of this email.

Thanks

Krista

---

Krista Brown | Environmental Protection Compliance Specialist
Department of Environmental Protection | Southeast Regional Office
2 East Main Street | Norristown, PA 19401
Phone: 484.250.5183 | Fax: 484.250.5971
www.depweb.state.pa.us

---

From: Athey, David <david.athey@aecom.com>
Sent: Thursday, May 28, 2020 8:40 AM
To: Brown, Krista <kristbrown@pa.gov>
Cc: trego@chesco.org; Dargay, John <jdargay@chesco.org>; Bowers, Janet L. <jbowers@chesco.org>
Subject: [External] Chester County NPDES MS4 permit - COVID-19 Impacts

ATTENTION: This email message is from an external sender. Do not open links or attachments from unknown sources. To report suspicious email, forward the message as an attachment to CWOPA_SPAM@pa.gov.

Krista: Per our email exchange a couple weeks ago, I wanted to let you know that Chester County will be unable to complete some of its typically-reported MCM 1 and 2 activities due to the pandemic. These include the following:

- Distribution of Stormwater Fact Sheet in County’s New Hire Packet – ongoing but some orientations have been postponed
- Chester County Envirothon – program was in-progress with final project judging scheduled for May 6-7 but cancelled
- Take Your Child to Work Day – planned for April 23 but cancelled
- Annual Volunteer Trash Clean-up – planned for April 22 but cancelled
For the report for the period ending June 30, should we include the above-mentioned items and note they had to be cancelled or omit them altogether? Other MCM 1 and 2 activities have been completed which will reported.

Thanks.

David J. Athey, P.E.
Principal Water Resources Engineer
D 302-781-5958 C 302-353-8848
david.athey@aecom.com

AECOM
4051 Ogletown Road, Suite 300, Newark, DE 19713
T 302-781-5900 F 302-781-5901
www.aecom.com
BMP #1: PUBLIC EDUCATION AND OUTREACH PROGRAM –

Education and Outreach Plan: Driving Forces, Goals and Objectives

1. The 2 main driving forces for the stormwater and water quality outreach campaign are:
   o The number of stream miles that PA DEP designated as impaired, and
   o Supporting the Chester County Commissioners’ priorities to manage stormwater, flooding and improve water quality.

2. The 3 main goals are:
   o Goal #1 – Review and update the Public Education and Outreach Plan
   o Goal #2 – Raise awareness of:
     ▪ stormwater and how people contribute to polluted waters,
     ▪ stormwater’s connection via storm sewer systems to local waters, and
     ▪ the problems created by poor water quality and how people can help.
   o Goal #3 – Implement Public Education and Outreach Plan

3. The objectives to meet the three main goals are as stated below for BMP#2, BMP#3 and BMP#4 and accomplished through the following activities:
   o BMP#2 objective: maintenance of the list of our target audience.
   o BMP#3 objective: to provide web content through completing the activities listed below under BMP#3.
   o BMP#4 objective: to use at least two methods to distribute stormwater information to the target audience through completing the activities listed below under BMP#4.

BMP #2: TARGET AUDIENCES SERVED BY REGULATED MS4 -

1. County of Chester employees (list as maintained by Chester County Human Resources Department); and
2. Visitors of county facilities, with a focus on Chester County Parks, Government Services Center, Justice Center and Pocopson/Prison Campus.
## BMP #3: ANNUALLY PUBLISH A WEBPAGE ABOUT STORMWATER -

### July 1, 2018 through June 30, 2019 – MCM #1 BMP #3 ACCOMPLISHMENTS

#### PLANNED ACTIVITIES

<table>
<thead>
<tr>
<th>Activity</th>
<th>Target Audience</th>
<th>Planned Timeframe</th>
<th>Date Completed</th>
<th># People Reached</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BMP#3:</strong> Chester County webpage, “Chester County’s Stormwater Pollution Prevention Program: Only Rain in the Drain!” (<a href="http://www.chesco.org/stormwater">www.chesco.org/stormwater</a>)&lt;br&gt;This external Facilities and Parks Department webpage focuses specifically on outreach of Chester County’s program to reduce pollution and improve water quality, and how these efforts meet the NPDES MS4 requirements. Information and links include: Basic definitions and background on stormwater, steps citizens can take to protect local streams, a description of the six minimum control measures, a number to call to report a pollution event on county property, and links to PADEP, EPA and Chester County’s latest MS4 Report submitted to PADEP. &lt;br&gt;See attached webpage printout.</td>
<td>Employees, users of county facilities and general public that navigates through the county’s website.</td>
<td>First posted on Facilities website March 30, 2015. Ongoing (through June 30, 2019)</td>
<td>Updates are completed throughout the year, as needed.</td>
<td>From July 1, 2018 to June 30, 2019, there were 240 visitors to the County’s stormwater webpage according to Google analytics.</td>
</tr>
</tbody>
</table>

<p>| <strong>BMP#3:</strong> Chester County Water Resources Authority website:&lt;br&gt;Update and maintain stormwater management educational materials and tools, including a webpage dedicated to Stormwater Management, Act 167 Plans and TMDLs; links to PADEP, EPA; informational brochures including “A Homeowners Guide to Stormwater Management,” “Caring for your Streamside Property,” and “What is a Watershed”. This site is also updated with educational articles, upcoming events, and information on the County’s Act 167 and integrated water resources plan updates. | Municipal staff and officials, municipal and developer engineers, watershed conservation organizations, land conservancies, county agencies, and the general public | Ongoing (through June 30, 2019) | Updates completed throughout the year, as needed. | The Chester County Water Resources Authority website averaged approximately 396 views per month, with a total of 4,757 views over the 12 month reporting period. |</p>
<table>
<thead>
<tr>
<th>Activity</th>
<th>Target Audience</th>
<th>Planned Timeframe</th>
<th>Date Completed</th>
<th># People Reached</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 BMP#3: Government Services Center (GSC) Trash Clean-Up Web Article:</td>
<td>County employees</td>
<td>May 2019</td>
<td>May 15-May 31 2019</td>
<td>Number of county employees reached on the internal website is unknown (approximately 2,700 total Chester County Employees), but the message was posted on the main page of the internal employee website that is often the home page on all county computers.</td>
</tr>
</tbody>
</table>

BMP#4: DISTRIBUTE STORMWATER INFORMATION TO TARGET AUDIENCES USING THREE METHODS –

<table>
<thead>
<tr>
<th>Activity</th>
<th>Target Audience</th>
<th>Planned Timeframe</th>
<th>Date Completed</th>
<th># People Reached</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 BMP#4: Method 1 = Posters</td>
<td>County employees and facility visitor</td>
<td>Ongoing (through June 30, 2019)</td>
<td>Ongoing and replaced as needed.</td>
<td>Continuously maintained stormwater posters on bulletin boards at Chester County facilities and offices and County Parks, highly visible to county employees and facility users. Total number of facility users and employees reached is unknown; however, posters were displayed throughout County-owned buildings, where 2,700 staff are employed.</td>
</tr>
<tr>
<td></td>
<td>BMP#4: Method 2 = Storm Drain Markers Installed</td>
<td>County employees and facility visitors</td>
<td>Ongoing (through June 30, 2019)</td>
<td>Ongoing and are replaced as needed</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------------------</td>
<td>---------------------------------------</td>
<td>----------------------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>2</td>
<td>87 Installed:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 3 markers near storm grates at Exton Library,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 31 markers at the Government Services Center (GSC) in West Chester,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 21 markers at the Chester County Parks and</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 15 markers near storm grates at the Pocopson Home, Youth Center and Prison,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 2 markers at the Data Center at Prison, and</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 15 Installed at Public Safety Campus.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Number of facility users and county employees reached is unknown, however with more than 87 markers installed, approximately 2,100 are reached most days. (The Exton Library has 1200 visitors per day, the GSC has 450 parking spaces and if 90% occupied on any given day, a total of 405 may be reached. The Parks facilities are heavily visited only on weekends, but it is estimated that on average 30 people may be reached at the Parks facilities per day. The Pocopson Home has 258 parking spaces and the Prison Complex has 462 spaces. If 65% occupied on any given day, a total of 468 may be reached per day.)

<table>
<thead>
<tr>
<th></th>
<th>BMP#4: Method 3 = Stormwater Fact Sheet in County’s New Hire Packet</th>
<th>County employees</th>
<th>Ongoing (through June 30, 2019)</th>
<th>Program ongoing through June 30, 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Begun April 20, 2015, new employees are provided with a stormwater factsheet at the monthly New Hire Orientation for Chester County employees (11 times per year). The fact sheet is a 2-sided, full color summary of the county’s stormwater program that discusses practices to prevent pollution and importance of reporting pollution events and how to do that (content is an excerpt of the webpage content, see first activity under BMP#3 above).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>See attached flyer, “Chester County’s Stormwater Prevention Program”</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Stormwater Fact sheets were distributed to all new county employees during their orientation. A total of 388 employees were scheduled for orientation from July 1, 2018 to June 30, 2019.
Attachment IB

As per PA DEP MS4 Annual/Progress Report Form
Reponses to MCM#1 – BMP#1 Question 5 and BMP#3 Question 5

Application PAI130156 - Chester County, PA
NPDES Phase II MS4 Permit
MCM #1 – Public Education and Outreach Plan

For the upcoming period: July 1, 2019 to June 30, 2020

**BMP #1: PUBLIC EDUCATION AND OUTREACH PROGRAM –**

**Education and Outreach Plan: Driving Forces, Goals and Objectives**

1. The 2 main driving forces for the stormwater and water quality outreach campaign *(expected to remain unchanged)*:
   - The number of stream miles that PA DEP designated as impaired, and
   - Supporting the Chester County Commissioners’ priorities to manage stormwater, flooding and improve water quality.

2. The 3 main goals are *(expected to remain unchanged)*:
   - Goal #1 – Review and update the Public Education and Outreach Plan
   - Goal #2 – Raise awareness of:
     - stormwater and how people contribute to polluted waters,
     - stormwater’s connection via storm sewer systems to local waters, and
     - the problems created by poor water quality and how people can help.
   - Goal #3 – Implement Public Education and Outreach Plan

3. The objectives to meet the three main goals are as stated below for BMP#2, BMP#3 and BMP#4 and accomplished through the following activities:
   - BMP#2 objective: maintenance of the list of our target audience.
   - BMP#3 objective: to provide web content through completing the activities similar as stated above for BMP#3. We will continue to work to bring more viewers, particularly employees to the County’s Stormwater Pollution Prevention Program webpage.
   - BMP#4 objective: to use at least two methods to distribute stormwater information to the target audience through completing the activities similar as stated above for BMP#4. We expect to continue to provide information through the same three methods as we currently employ to disseminate our outreach messages.

**BMP #2: TARGET AUDIENCES SERVED BY REGULATED MS4 –**

1) County of Chester employees (list as maintained by Chester County Human Resources Department); and
2) Visitors of county facilities, with a focus on Chester County Parks, Government Services Center, Justice Center and Pocopson/Prison Campus.
Chester County's Stormwater Pollution Prevention Program

Only Rain in the Drain!

Chester County Government is committed to protecting and improving water quality in our streams. All County lands and buildings drain to streams that eventually drain to either the Delaware Bay or Chesapeake Bay. Clean streams are vital to our local communities, natural resources and economy, and will help restore both Bays. Stormwater runoff and its pollution are widespread water quality problems, and have degraded over 55% of the streams within Chester County. Chester County’s Stormwater Pollution Prevention Program has been designed to achieve the following goal:

Improve and protect the water quality of streams, lakes and waterways that receive runoff from County properties by:
- Reducing stormwater runoff volume and pollution that is created on, and discharged from, Chester County lands and facilities.
- Increasing the awareness and involvement of County employees and visitors to County facilities regarding the importance of reducing stormwater pollution, and how they can contribute to protecting our streams, lakes and waterways.

Chester County Board of Commissioners' Priorities & Goals (2017, Excerpt)
- Manage Stormwater & Flooding Citizen Benefit - Managing stormwater reduces the impacts of runoff and flooding, avoiding or lessening damage to infrastructure, harm to the environment and threat to public safety.
- Improve Water Quality Citizen Benefit - Improving and protecting the quality of streams in the County provides clean water, preserves natural habitat and reduces flood issues. The improvement of local streams leads to an improvement in the health of the regional watershed ultimately impacting the Chesapeake and Delaware Bays.

What is Stormwater?
Stormwater is water that originates during rain events and snow/ice melt. It can soak into the soil (infiltrate); be held on the surface and evaporate, or runoff and end up in nearby streams, rivers or other water bodies. This runoff, and the pollution it picks up as it flows, is the main contributor to water quality pollution in Chester County.

How Does Stormwater Pollution Reach Our Streams?
Stormwater runs off roof tops, sidewalks, driveways, roadways, parking lots, yards, etc. Sometimes it flows directly into streams that run through our valleys. In developed areas, this runoff drains to streets, then enters storm drains, flows through underground
stormwater sewer pipes, and eventually discharges to streams. Thus, all particles, trash, cigarette butts, pet waste, lawn chemicals, de-icing salts and chemicals, vehicle fluid droppings, and everything else that accumulates on the pavements and land surfaces are carried by the stormwater into the streams.

Graphic courtesy of Montgomery County, Maryland Department of Environmental Protection

How Can You Help Protect our Local Streams?
County employees and visitors to County facilities can pitch in and help protect the local streams and lakes! Here are a few simple things that, collectively, can make a big difference in keeping our natural waterways and water supply sources clean, safe and healthy:

1. **Nothing but rain in the drain!** Never pour or throw trash, liquids or any substance into a storm drain. These drains are directly connected to the local stream! And it's against the law!!

2. **Cigarette butts, coffee/ drink cups & lids, snack wrappers, plastic drink bottles** - don’t drop these on the ground or in parking lots! Put them in a recycle bin or trash receptacle. None of these evaporate; all wash to the streams. Keep a small bag in your car for trash and dispose of it when you get to a recycle or trash can.

3. **Fix car fluid leaks** - repairing leaks and drops from your car's fluids helps avoid vehicle chemicals from collecting on parking lots and being washed into storm drains, then into streams during rain events. A bit of prevention can help save several fish in the streams.

4. **Pick up pet waste** - pet droppings contain bacteria and parasites as well as nutrients, all of which create water quality problems. Every time it rains, pet waste left to decay can be washed into streams and storm drains. Even when it is not raining, these droppings are unsafe and unhealthy to be left in areas where children play such as parkland and along County trails. Carry disposcable bags and pick up your pet's waste when out on walks or in your yard. Bag it, seal it and deposit it in a trash can or waste receptacle.

5. **Put trash in its place!** Whether at the library, a County office building, a park or a trail, place all trash and waste in trash receptacles. Trash that accumulates in public areas can make it look uncared for and unsafe. It will be carried by stormwater through storm drains and into local creeks and streams.

6. **Participate** in the stream clean up events.

7. **Report Illegal Dumping!** - Spilling, disposing or discharging of any substance into a storm drain is illegal. Call the County at 610-344-6220 if you witness something being poured, dumped, disposed or discharged into or in the immediate vicinity of a storm drain on any County property.

Some additional things you can do at home and in your neighborhood to help reduce pollution and protect streams and waterways:

**Avoid Using Salt for De-icing**
Salt from de-icing is rapidly becoming a widespread water pollution problem. It dissolves and is carried into streams, storm drains and infiltrates into groundwater.
- Consider using non-salt de-icing chemicals. Sand and bird seed are used in place of chemical de-icers.
  Experiment with what works for you.

Enable Google Translate
If salt is essential, store it AWAY FROM storm drains. Cover it to avoid rain from washing the salt into storm drains and streams.

**Automobile Care**
- Wash your vehicles at a commercial facility. Here wash water is treated and must be directed to the sanitary sewer that goes to the local wastewater treatment plant, or captured for proper disposal.
- Consider washing your car on a porous surface such as grass, so the wash water can soak into the soil, be treated by soil particles and microbes, and be filtered before it enters the groundwater.

**Maintenance - Keep it Clean!**
- Never pour or throw things down storm drains. They are directly connected to the local stream!
- Protect sidewalks, curbs, streets and gutters before making repairs or performing minor maintenance.
- Place a container under the oil pan, brake line or other auto part, which is, or may leak heavily.
- Place pads, cardboard, newspaper of kitty litter when using chemicals to catch spills.
- Store used transmission, brake or other fluids, and recycle used oil and antifreeze in a secure location where they can’t spill or wash into a storm drain. Then recycle the fluids at a service station.
- Place only lightly soiled absorbent materials in the trash.

**Fats, Oils & Grease**
- Scrape food from dishes into waste cans before rinsing to greatly reduce the amount of grease and food particles entering the drain.

**Support Your Local Watershed Conservation Organization**
Join and participate in their stream protection activities and educational programs.

**Check Out Online Brochures**
For more information on how to protect our streams and water quality, and improve environmental stewardship of our streams, check out a variety of our publications.

**Program Overview**
Chester County's Stormwater Pollution Prevention Program is a comprehensive response to reducing the County's impact on streams and waters of the County. These actions are intended to eliminate or minimize impacts from County operations and facilities on the water quality of our streams and waterways.

The County's Stormwater Pollution Prevention Program has six (6) elements, called minimum control measures, or MCMs, that when implemented together, reduce pollutants generated and discharged from County properties.
1. Public Education & Outreach
   - Provide programs, educational materials and activities to increase the awareness and understanding of employees and visitors to County facilities of the impacts of stormwater pollution and the importance of protecting the water quality of streams.
   - March 26, 2018 - Presentation - Stormwater & You!
   - April 3, 2018 - Go Green Chesco Event

2. Public Participation
   - Provide, develop and implement opportunities for citizens to be involved with program development and implementation.

3. Illicit Discharge Detection & Elimination
   - Routinely inspect, identify and eliminate any discharges entering the County's storm sewer system that are not compromised solely of stormwater.

4. Construction Site Runoff Control
   - Ensure all County-owned construction projects are conducted in accordance with applicable state and municipal erosion, sediment and stormwater control regulations, and that proper runoff controls function as intended during storm events.

5. Post-Construction Runoff Control
   - Ensure that all County-owned facilities are designed and built to incorporate low-impact and "green infrastructure" control features, and to comply with the post-construction stormwater controls required by applicable state and municipal regulations.

6. Pollution Prevention & Good Housekeeping
   - Develop and implement a program with the intent of preventing or reducing pollutant runoff from county operations, including staff training on pollutant prevention measures and techniques.

For More Information
   - To learn more about Chester County's Stormwater Pollution Prevention Program accomplishments, read the most current Annual Report.
   - Visit the U.S. Environmental Protection Agency's Municipal Separate Stormwater System Main Page.
   - Visit the Pennsylvania Department of Environmental Protection's Municipal Stormwater page.

Contact Information
For water and environmental concerns on County property, please contact 610-344-6220.
Hi Cory

Here you go...for time period 7/1/18-6/30/19

WRA Home - 4,757
Stormwater – 240

Let me know if you have any questions.

Sue

Sue Morris, Digital Communications Coordinator
Chester County Commissioners' Office
County of Chester
610-344-6724
Chesco.org | Facebook | Twitter | Instagram

---

From: Trego, Cory T. <ctrego@chesco.org>
Sent: Wednesday, September 25, 2019 4:25 PM
To: Morris, Sue E. <semorris@chesco.org>
Subject: Google Analytics for CCWRA Webpages

Hi Sue,

I am taking over for Dani-Ella Betz in compiling the County's MS4 documentation for public outreach. As a part of our annual report, we need to know the total number of site visits to the CCWRA's webpage (chesco.org/water) and the County's stormwater page (chesco.org/stormwater) for the reporting period of July 1, 2018 to June 30, 2019. Do you have access to those figures for our sites?

Best,

Cory

Cory Trego
Chester County Water Resources Authority
Watershed Resources Planner
Chester County’s Stormwater Pollution Prevention Program

Only Rain in the Drain!

Chester County Government is committed to protecting and improving water quality in our streams. All County lands and buildings drain to streams that eventually drain to either the Delaware Bay or Chesapeake Bay. Clean streams are vital to our local communities, natural resources and economy, and will help restore both Bays. Stormwater runoff and its pollution are widespread water quality problems, and have degraded over 55% of the streams within Chester County. Chester County’s Stormwater Pollution Prevention Program has been designed to achieve the following goal:

**Improve and protect the water quality of streams, lakes and waterways that receive runoff from County properties by:**
- Reducing stormwater runoff volume and pollution that is created on, and discharged from, Chester County lands and facilities.
- Increasing the awareness and involvement of County employees and visitors to County facilities regarding the importance of reducing stormwater pollution, and how they can contribute to protecting our streams, lakes and waterways.

What is Stormwater?

Stormwater is water that originates during rain events and snow/ice melt. It can soak into the soil (infiltrate); evaporate, or runoff and end up in nearby streams. This run off, and the pollution it picks up as it flows, is the main contributor to water quality pollution in Chester County.

How Does Stormwater Pollution Reach Our Streams?

Stormwater runs off roof tops, sidewalks, driveways, roadways, parking lots, yards, etc. Sometimes it flows directly into streams that run through our valleys. In developed areas, this runoff drains to streets, then enters storm drains, flows through underground stormwater sewer pipes, and eventually discharges to streams. Thus, all particles, trash, cigarette butts, pet waste, lawn chemicals, de-icing salts and chemicals, vehicle fluid droppings, and everything else that accumulates on the pavements and land surfaces are carried by the stormwater into the streams.

How Can You Help Protect our Local Streams?

County employees can pitch in and help protect the local streams and lakes! Here are a few simple things that, collectively, can make a big difference in keeping our waterways and water supply sources clean, safe and healthy:
1. **Nothing but rain in the drain!** Never pour or throw trash, liquids or any substance into a storm drain. These drains are directly connected to the local stream! And it's against the law!!

2. **Cigarette butts, coffee/ drink cups & lids, snack wrappers, plastic drink bottles** - don’t drop these on the ground or in parking lots! All wash to the streams. Keep a small bag in your car for trash and dispose of it when you get to a recycle or trash can.

3. **Fix car fluid leaks** - repairing leaks from your car's fluids helps avoid vehicle chemicals from collecting on parking lots and being washed into storm drains, then into streams during rain events.

4. **Pick up pet waste** - pet droppings contain bacteria and parasites as well as nutrients, all of which create water quality problems. Pet waste left to decay can be washed into streams and storm drains.

5. **Put trash in its place!** Whether at the library, a County office building, a park or a trail, place all trash and waste in trash receptacles. It will be carried by stormwater through storm drains and into local creeks and streams.

6. **Participate** in the County-Sponsored Spring Grounds & Streams Clean-Up for employees that prevents litter from entering the County's stormwater sewer system that is connected to Goose Creek.

7. **Report Illegal Dumping!** Spilling, disposing or discharging of any substance into a storm drain is illegal. Call 610-344-6220 to report this to the County if you witness something being discharged into or in the immediate vicinity of a storm drain on any County property.

Some additional things you can do to help reduce pollution and protect streams:

**Avoid Using Salt for De-icing**
Salt from de-icing is rapidly becoming a widespread water pollution problem. It dissolves and is carried into streams, storm drains and infiltrates into groundwater.

**Program Overview**
Chester County's Stormwater Pollution Prevention Program is a comprehensive response to reducing the County's impact on streams and waters of the County. These actions are intended to eliminate or minimize impacts from County operations and facilities on the water quality of our waters. The County's Stormwater Pollution Prevention Program has six (6) elements that when implemented together, reduce pollutants generated and discharged from County properties:

1. **Public Education & Outreach**
2. **Public Participation**
3. **Illicit Discharge Detection & Elimination**
4. **Construction Site Runoff Control**
5. **Post-Construction Runoff Control**
6. **Pollution Prevention & Good Housekeeping**

**For More Information**
To learn more about Chester County's Stormwater Pollution Prevention Program visit www.chesco.org/stormwater.

**Who to Contact?**
For water and environmental concerns on County property, please contact 610-344-6220.
Hi, Corey,

388 people were scheduled for Orientation during that time period.

However, I can’t account for how many of those may have left their jobs before their Orientation.

Thank you,

Barbara E. Mills
Human Resources, County of Chester
313 W. Market St. Suite 4302
West Chester, PA 19380-0991

610-344-6293 - phone
610-344-5489 – fax
Hi Barb,

Can you please help Cory?

Thank you,

Anne

From: Trego, Cory T. <ctrego@chesco.org>
Sent: Wednesday, September 25, 2019 4:44 PM
To: Brogan, Anne <anbrogan@chesco.org>
Subject: New hire orientation numbers for MS4 Reporting

Hi Anne,

I am taking over the compiling information for our annual reporting for the County’s MS4 program. For the past several years, a stormwater handout has been included in the packets given to new county employees at their orientation. We are supposed to track the number of employees that receive that handout as a component of our permit requirements. Can you send me the number of new hires that attended orientation from July 2018-June 2019?

Best,

Cory
Employee Spring Clean-ups Huge Success!

Chester County employees from 12 different departments participated in two Go Green Chesco trash clean-ups...

Read on...

Controller's Office Gives a "Shout Out" to DCIS Staff
DCIS staff assist with financial statement templates
Read on...

Paul Freeman Retires after 43 Years of Service
Read on...
Employee Clean-ups Huge Success!

At the GSC Clean-up, 17 employees filled more than 19 bags of trash, plus removed several large items. At the Conservation District site at Willowdale, eight employees removed five bags of trash. The local waterways are much cleaner thanks to their hard work to remove trash from the creek, stormwater basins and parking lots. This clean-up effort is essential to improving the local water quality because rainwater that flows over the land will carry litter and pollutants to the nearest stream via a stormwater pipe (the pipe is not connected to a treatment plant).

Thanks to:
- Aging (Allison Cloud, Shannon Guy, Deanna Sariol-Clough and Tara Simmons)
- Assessment (Jonathan Schuck)
- Commissioners (Robert Malone)
- DCIS (Jill Galton)
- Conservation District (Pamela King, Zack Krone, Tim Stennheter and Connie Trice)
- Emergency Services (Thaddeus Kavanagh, Veronica Protesto and David Sekkes)
- Finance (Christian Carahan and Cindy Ludwig)
- Human Resources (Rachael Flickenger and Jaime Schubert)
- Health (Michele Steiner)
- Open Space Preservation (Alicia Lyons)
- Prison (Stephanie Wrigley)
- Water Resources Authority (Dami-Elia Betz, Mark Chegwidden, Teresa Greenwell and Craig Thomas)

Go Green Chesco, Water Resources Authority and the Conservation District coordinated the events, and the Department of Facilities and Parks provided bags and gloves, and disposal of the trash. Everyone’s efforts were greatly appreciated and made a significant positive impact toward improving the water quality of the local watersheds.
WHEN YOUR CAR'S LEAKING OIL ON

THE STREET, REMEMBER IT'S NOT JUST

LEAKING OIL ON THE STREET.

Leaking oil goes from car to street. And is washed from the street into the storm drain and into our lakes, streams and into coastal waters including the Chesapeake Bay. Now imagine the number of cars in the area and you can imagine the amount of oil that finds its way from leaky gaskets into our water. So please, fix oil leaks.

If you have questions regarding storm water, please contact your municipality or Pennsylvania Department of Environmental Protection's Regional Office. For general questions, you may also contact DEP's Bureau of Water Management at 1 (877) 777-9816 or visit www.dep.state.pa.us. Thanks to the Washington State Water Quality Consortium for permission to adapt and use this poster.
WHEN YOUR PET GOES ON THE LAWN,

REMEMBER IT DOESN'T JUST

GO ON THE LAWN.

When our pets leave those little surprises, rain washes all that pet waste and bacteria into our storm drains. And then pollutes our waterways. So what to do? Simple. Dispose of it properly (preferably in the toilet). Then that little surprise gets treated like it should.

If you have questions regarding storm water, please contact your municipality or Pennsylvania Department of Environmental Protection's Regional Office. For general questions, you may also contact DEP's Bureau of Water Management at (717) 772-3645 or visit www.dep.state.pa.us. Thanks to the Washington Water Quality Association for permission to adapt and use this poster.
Attachment II

Application PAI130156 - Chester County, PA
NPDES Phase II MS4 Permit

MCM #2
Public Participation and Involvement Plan and Accomplishments
(Partial Year 5 & Partial Year 6 – July 1, 2018 through June 30, 2019)

BMP #1: PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM –
Public Involvement and Participation Plan: Driving Forces, Goals and Objectives

1. The 2 main driving forces for the involvement and participation campaign are:
   o The number of stream miles that PA DEP designated as impaired, and
   o Supporting the Chester County Commissioners’ priorities to manage stormwater, flooding and improve water quality.

2. The main goals are:
   o Goal #1 – Create opportunities for the target audience (employees and/or visitors of county facilities) to participate in the decision-making process and involvement activities related to the MS4 permit.
   o Goal #2 – Employ methods that will allow routine communication to employees and/or visitors of county facilities and provide a method where suspected illicit discharges at county facilities can be reported.
   o Goal #3 – Make the County of Chester’s periodic reports available to the public.

3. The objectives to meet the three main goals are as stated below for BMP#3 and accomplished through the following activities:
   o Goal #1 objective: Hold one annual trash clean-up and one employee meeting annually to solicit input. Additional opportunities will be sought when available.
   o Goal #2 objective: Use the internal employee website, The County Insider, to communicate with employees and physical bulletin boards in county facilities to communicate with visitors of county facilities.
   o Goal #3 objective: Make the County of Chester’s periodic reports available via the website www.chesco.org/stormwater, and at the Department of Facilities and Parks.

BMP #2: ORDINANCE OR SOP (See MS4 Annual /Progress Report)
## BMP #3: PUBLIC INVOLVEMENT AND PARTICIPATION ACTIVITIES –

### YEAR 1 – MCM #2

### PUBLIC PARTICIPATION AND INVOLVEMENT ACCOMPLISHMENTS

<table>
<thead>
<tr>
<th>Activity &amp; Results</th>
<th>Target Audience</th>
<th>Planned Timeframe</th>
<th>Date Completed</th>
<th># People Reached</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td>County Employees</td>
<td>April 2019</td>
<td>April 2, 2019</td>
<td>Advertised event and reached 2,700 GSC employees via email sent by Human Resources Department as part of the Wellness Calendar of Events, posted information and pdf of flyer on County employee internal website, and posted flyers around the GSC building. Facilities Dept. provided gloves, bags and trash pick-up and disposal. Human Resources Dept. provided Wellness incentive. <strong>2019</strong>: 21 employees from 10 departments participated.</td>
</tr>
<tr>
<td>Annual Volunteer Trash Clean-up: Government Services Center (GSC)</td>
<td>County Employees</td>
<td>April 2019</td>
<td>April 2, 2019</td>
<td><strong>2019</strong>: 18 bags of trash removed from site.</td>
</tr>
<tr>
<td>Trash-clean up at GSC stormwater basins and GSC parking lot/adjacent areas. Employees received an introduction to the County’s MS4 permit requirements, an overview of stormwater management at the GSC, and information of the Goose Creek/Chester Creek Watersheds. <strong>See attached 2019 flyer, attendance sheet, and photo.</strong></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>County Employees</td>
<td>April 2019</td>
<td>April 2, 2019</td>
<td>Advertised event and reached 2,700 GSC employees via email sent by Human Resources Department as part of the Wellness Calendar of Events, posted information and pdf of flyer on County employee internal website. Facilities Dept. provided gloves, bags and trash pick-up and disposal. Human Resources Dept. provided Wellness incentive. <strong>2019</strong>: 9 participants representing 6 departments</td>
</tr>
<tr>
<td>Annual Volunteer Trash Clean-up: Chester County Conservation District</td>
<td>County Employees</td>
<td>April 2019</td>
<td>April 2, 2019</td>
<td><strong>2019</strong>: 9 bags of trash removed from site.</td>
</tr>
<tr>
<td>County employees picked up trash in the retention basin at the complex where the CCCD office is located in Kennett Square. <strong>See attached attendance sheet.</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>3</strong></td>
<td>County Employees</td>
<td>April 2019</td>
<td>April 2, 2019</td>
<td>Advertised event and reached 2,700 GSC employees via email sent by Human Resources Department as part of the Wellness Calendar of Events, posted information and pdf of flyer on County employee internal website. Facilities Dept. provided gloves, bags and trash pick-up and disposal. Human Resources Dept. provided Wellness incentive. <strong>2019</strong>: 11 participant representing 4 departments</td>
</tr>
<tr>
<td>Annual Volunteer Trash Clean-up: 313 Market Street/Justice Center- (NEW)</td>
<td>County Employees</td>
<td>April 2019</td>
<td>April 2, 2019</td>
<td><strong>2019</strong>: 11 bags of trash removed.</td>
</tr>
<tr>
<td>County employees removed trash from the parking lots, sidewalks, and streets near the County buildings at 313 Market Street and the Justice Center <strong>See attached attendance sheet.</strong></td>
<td></td>
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</tr>
</tbody>
</table>
### PUBLIC PARTICIPATION AND INVOLVEMENT ACCOMPLISHMENTS

<table>
<thead>
<tr>
<th>Activity &amp; Results</th>
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</thead>
</table>
| **4** Annual Trash Clean-up: Exton Library (NEW)  
County employees removed trash from the parking lots, sidewalks, stormwater infrastructure, and the riparian area along Valley Creek. Employees received an overview of the County’s MS4 permit and information on the importance of stormwater management.  
*See attached attendance sheet.*  
2019: Four bags of trash removed | County Employees | April 2019 | April 10, 2019 | Advertised event and reached 2,700 GSC employees via email sent by Human Resources Department as part of the Wellness Calendar of Events, posted information and pdf of flyer on County employee internal website. Facilities Dept. provided gloves, bags and trash pick-up and disposal. Human Resources Dept. provided Wellness incentive.  
2019: 5 participants representing 2 departments |

| **5** Go Green Chesco –  
Go Green Chesco is an employee-driven group working to promote sustainable practices within County facilities. Go Green Chesco helps promote the various MS4 events such as the trash clean-up and the Stormwater & You program. They provided feedback and input on various sustainable practices desired at county facilities including reducing pollution to our waterways. | County Employees | Ongoing | Ongoing meetings held quarterly | Quarterly meetings open to all 2,700 employees. |
## PUBLIC PARTICIPATION AND INVOLVEMENT ACCOMPLISHMENTS

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<thead>
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<th>Activity &amp; Results</th>
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<tbody>
<tr>
<td>6 Stormwater &amp; You: Shaping the County’s Pollution Reduction Program – Annual employee/public meeting to discuss the County’s stormwater program and solicit input from the employees in attendance.</td>
<td>County employees</td>
<td>Once annually</td>
<td>See 2019-2020 Report</td>
<td>Will be advertised through the Human Resources Wellness Events newsletter emailed to 2700 employees and posted on the internal HR website. Flyers will also be posted at County facilities and on internal employee website.</td>
</tr>
<tr>
<td>7 Chester County Envirothon - Chester County Conservation District and Chester County Facilities and Parks Department organize and conduct tournament to involve students in activities to encourage environmental and watershed stewardship. See attached study session tally.</td>
<td>Chester County elementary, middle and high schools participated and visited the county park.</td>
<td>Annually in April and May</td>
<td>April 9-10, 2019 April 15-16, 2019</td>
<td>Advertised through email, letters mailed to Chester County schools, and information posted on the CCCD and CC Parks websites. 2019: 75 students and 18 adults attended for a total attendance of 93.</td>
</tr>
<tr>
<td>10 County NPDES MS4 Annual/Periodic Reports: Posted on the Chester County Facilities’ webpage under “Stormwater Program”. Provides the number where employees can call if they observe a pollution event on county property. The current Report is also available upon request.</td>
<td>County employees and visitors of county facilities</td>
<td>Ongoing</td>
<td>Ongoing</td>
<td>No requests received.</td>
</tr>
</tbody>
</table>
Join Chester County Employees to Clean-up our Grounds and Enhance Local Creeks!

At this Go Green Chesco event, volunteer alongside other employees to improve the water quality of local creeks. Our parking lots and grounds where we work are directly connected to a nearby creek. By picking up litter, you will directly enhance water quality and stream habitats in Chester County!

Gloves and bags will be supplied. Wear a long-sleeved shirt, long pants and old shoes or boots that can get dirty (and muddy for those willing).

County of Chester Employees who Volunteer for the Clean-up can earn 1 WELLNESS PUZZLE PIECE + 10 WELLNESS INCENTIVE POINTS!
Pre-registration required through the HR Wellness Program. Specify location desired.

Go Green Chesco Stream & Grounds Clean-Up
Tuesday, April 2, 2019 (Rain Date April 4)
Please check your email the day prior to the Clean-Up to find out whether the event will take place as scheduled.

Location: GSC - 3:00 pm to End of Work Day
Meet at the side entrance of the GSC (right side of the building by the clinic). Co-sponsored by the Chester County Water Resources Authority and Chester County Department of Facilities and Parks.

Location: Willowdale - 3:00 pm to End of Work Day
Meet in the grass courtyard of the Willowdale Town Center, 688 Unionville Road, Kennett Square. Co-sponsored by the Chester County Conservation District.

Location: 313/Justice Center NEW! - 3:00 pm to End of Work Day
Meet at the front entrance of 313 Building. Co-sponsored by the Employee Engagement Committee

Location: Chester County Library at Exton - NEW!
This Event will be Wednesday, April 10, 2019 (Rain Date April 12)
4:00 pm - 5:30 pm (flexible start time)
Meet by the picnic tables along the back/staff parking lot. Co-Sponsored by the CC Library at Exton.
2019 GoGreen Chesco Annual Streams and Grounds Cleanup Events April 2nd and April 10th

- Welcome
  - Go Green Chesco: Next meeting Wednesday, April 24th at 3:00 PM
- Introductions
- Purpose for event:
  - Reduce pollution from GSC property into local waterways by removing trash from parking lots, stormwater infiltration basin, adjacent creek
    - Over the past 11 years we have collected 183 bags of trash from GCS campus
    - Aligns with Commissioners’ strategic priorities, which include management of environmental assets
  - Fulfill county’s separate storm sewer system (MS4) permit requirements of public involvement and participation
- Background on Stormwater runoff
  - What is stormwater?
    - Water that originates during rain and snow events
      - Three options: Infiltration into ground, evaporation/transpiration from land surface or through vegetation, or runoff on the surface to nearby streams and water bodies
      - Stormwater management tries to minimize amount of precipitation that becomes surface runoff
  - Stormwater runoff is the main contributor to water quality impairment in Chester County- increased impervious surface area (roofs, sidewalks, roads, parking lots, etc.) leads to greater runoff volumes
    - GSC Property about 21 acres, with nearly 15 acres impervious
      - Generates approximately 405,000 gallon of runoff from a one inch rain event
      - Same area would generate approximately 11,250 gallons if undisturbed forest
    - Increased runoff leads to:
      - Less ground water recharge, more frequent flooding, degraded water quality
    - What can we do to reduce impacts of stormwater?
      - Don’t dispose of any trash or liquid waste into these drains as they flow into streams- keep parking lots clean because they flow into creeks
      - Reduce leaking car fluids
      - Report illegal dumping-If you see someone dumping, say something; using as a learning opportunity

- Stormwater Runoff at GSC
  - Parking area sloped to ensure that all runoff is captured in stormwater drainage system
  - This flow is routed to two stormwater detention basins
- These basins collect water from storm events and to mitigate the release to an UNT of Goose Creek, a tributary to Chester
  - Supplies ~1.8 mgd of public drinking water: Main public water intake located in Middletown township, Delaware County
  - 127 stream miles in watershed, 73 miles of first order (57%)
- Safety
- Encourage get off of the parking lot to collect trash from infiltration basin and riparian areas
- Bring trash back to start area. If a bag is too heavy, tie the bag shut and leave it along the curb. Facilities will be by to pick up the trash later. Group photo with trash collected at the end of the event
Stream and Grounds Clean Up

Government Services Center
Tuesday, April 02, 2019

One Piece at a Time.

Attendance List

<table>
<thead>
<tr>
<th>Print Name (As on pay check)</th>
<th>Department</th>
<th>Please Sign In</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caroline Fritschle</td>
<td>Open Space Preservation</td>
<td></td>
</tr>
<tr>
<td>Jill Gallen</td>
<td>Dept Of Computing Info Service</td>
<td></td>
</tr>
<tr>
<td>Mason Gilbert</td>
<td>Open Space Preservation</td>
<td></td>
</tr>
<tr>
<td>Margaret Hodgkiss-Lilly</td>
<td>Open Space Preservation</td>
<td></td>
</tr>
<tr>
<td>Cynthia Ludwig</td>
<td>Finance</td>
<td></td>
</tr>
<tr>
<td>Susan Manwiller</td>
<td>Open Space Preservation</td>
<td></td>
</tr>
<tr>
<td>Evan Martin</td>
<td>Open Space Preservation</td>
<td></td>
</tr>
<tr>
<td>Alicia Pusey</td>
<td>Open Space Preservation</td>
<td></td>
</tr>
<tr>
<td>Eric Quinn</td>
<td>Planning</td>
<td></td>
</tr>
<tr>
<td>Kelly Raum</td>
<td>Environmental Health Protection</td>
<td></td>
</tr>
<tr>
<td>Deanna Sariol-Clough</td>
<td>Office Of Aging Services</td>
<td></td>
</tr>
<tr>
<td>Jonathan Schuck</td>
<td>Assessment</td>
<td></td>
</tr>
<tr>
<td>Geoffrey Shellington</td>
<td>Open Space Preservation</td>
<td></td>
</tr>
<tr>
<td>Michele Steiner</td>
<td>Nursing</td>
<td></td>
</tr>
<tr>
<td>Craig Thomas</td>
<td>Water Resources Authority</td>
<td></td>
</tr>
<tr>
<td>Judith Thomas</td>
<td>Open Space Preservation</td>
<td></td>
</tr>
<tr>
<td>Brianne Zanin</td>
<td>Open Space Preservation</td>
<td></td>
</tr>
<tr>
<td>Rachael Griffith</td>
<td>CCPC</td>
<td></td>
</tr>
<tr>
<td>Teresa Greenawatt</td>
<td>CCWRA</td>
<td></td>
</tr>
</tbody>
</table>

Please return to Rachael Flickenger
Stream and Grounds Clean Up

Government Services Center
Tuesday, April 02, 2019

One Piece at a Time.

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<tbody>
<tr>
<td>Rachael Flickenger</td>
<td>HR</td>
<td></td>
</tr>
<tr>
<td>Cory Tropp</td>
<td>WRA</td>
<td></td>
</tr>
</tbody>
</table>

Please return to Rachael Flickenger
Stream and Grounds Clean Up

313 W Market & Justice Center
Tuesday, April 02, 2019

One Piece at a Time.

Attendance List

<table>
<thead>
<tr>
<th>Print Name (As on pay check)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Kimberly Bainbridge</td>
<td>Court Administration</td>
<td></td>
</tr>
<tr>
<td>Alexis Barsamian</td>
<td>Clerk Of Courts</td>
<td></td>
</tr>
<tr>
<td>Christian Callahan</td>
<td>Finance</td>
<td></td>
</tr>
<tr>
<td>Judith Govatos</td>
<td>Recorder Of Deeds</td>
<td></td>
</tr>
<tr>
<td>Michael Lusk</td>
<td>Clerk Of Courts</td>
<td></td>
</tr>
<tr>
<td>Robert Malone</td>
<td>Commissioners</td>
<td></td>
</tr>
<tr>
<td>Sondra McBrearty</td>
<td>Clerk Of Courts</td>
<td></td>
</tr>
<tr>
<td>Kayla Murphy</td>
<td>Recorder Of Deeds</td>
<td></td>
</tr>
<tr>
<td>Mary Rzucidlo</td>
<td>District Justices Admin</td>
<td></td>
</tr>
</tbody>
</table>

Please return to Rachael Flickenger
Stream and Grounds Clean Up

Willowdale
Tuesday, April 02, 2019

Attendance List

<table>
<thead>
<tr>
<th>Print Name (As on pay check)</th>
<th>Department</th>
<th>Please Sign In</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caitlin Betts</td>
<td>Chester Cty Conservation Dist</td>
<td></td>
</tr>
<tr>
<td>Laurell Bostdorf</td>
<td>Chester Cty Conservation Dist</td>
<td></td>
</tr>
<tr>
<td>Tammy Cairns</td>
<td>Chester Cty Conservation Dist</td>
<td></td>
</tr>
<tr>
<td>Lori Caldwell</td>
<td>Parks Springton Manor</td>
<td></td>
</tr>
<tr>
<td>Alice Cloud</td>
<td>Office Of Aging Services</td>
<td></td>
</tr>
<tr>
<td>Annette Ives</td>
<td>Chester Cty Conservation Dist</td>
<td></td>
</tr>
<tr>
<td>Lisa Walsh</td>
<td>Chester Cty Conservation Dist</td>
<td></td>
</tr>
<tr>
<td>Stefanie Wrigley</td>
<td>Chester County Prison</td>
<td></td>
</tr>
<tr>
<td>Corinne Trice</td>
<td>Chester Cty Conservation</td>
<td></td>
</tr>
<tr>
<td>Cap Lynn Ciswell</td>
<td>OCC Conservation</td>
<td></td>
</tr>
<tr>
<td>Dan Milose</td>
<td>OCC Conservation Dist</td>
<td></td>
</tr>
</tbody>
</table>

Please return to Corinne Trice
<table>
<thead>
<tr>
<th>Print Name (as on pay check)</th>
<th>Department</th>
<th>Chester County Library</th>
<th>Print Name (as on pay check)</th>
<th>Department</th>
<th>Chester County Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cory Trigg</td>
<td>WRA</td>
<td></td>
<td>Travis Altman</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lois Paul</td>
<td>Margaret Shinif</td>
<td></td>
<td>Tony J.</td>
<td></td>
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</tr>
</tbody>
</table>

**Chester County Library**

**Wednesday, April 10, 2019**

Please return to Pam Bennett.
<table>
<thead>
<tr>
<th>School Name</th>
<th>Level</th>
<th>Coach</th>
<th>Date</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
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</table>

**Study Sessions**

**Enrollment 2019**
BMP #1: PUBLIC EDUCATION AND OUTREACH PROGRAM –

Education and Outreach Plan: Driving Forces, Goals and Objectives

1. The 2 main driving forces for the stormwater and water quality outreach campaign are:
   o The number of stream miles that PA DEP designated as impaired, and
   o Supporting the Chester County Commissioners’ priorities to manage stormwater, flooding and improve water quality.

2. The 3 main goals are:
   o Goal #1 – Review and update the Public Education and Outreach Plan
   o Goal #2 – Raise awareness of:
     - stormwater and how people contribute to polluted waters,
     - stormwater’s connection via storm sewer systems to local waters, and
     - the problems created by poor water quality and how people can help.
   o Goal #3 – Implement Public Education and Outreach Plan

3. The objectives to meet the three main goals are as stated below for BMP#2, BMP#3 and BMP#4 and accomplished through the following activities:
   o BMP#2 objective: maintenance of the list of our target audience.
   o BMP#3 objective: to provide web content through completing the activities listed below under BMP#3.
   o BMP#4 objective: to use at least two methods to distribute stormwater information to the target audience through completing the activities listed below under BMP#4.

BMP #2: TARGET AUDIENCES SERVED BY REGULATED MS4 -

1. County of Chester employees (list as maintained by Chester County Human Resources Department); and
2. Visitors of county facilities, with a focus on Chester County Parks, Government Services Center, Justice Center and Pocopson/Prison Campus.
### BMP #3: Annually Publish a Webpage About Stormwater -

**July 1, 2019 through June 30, 2020 – MCM #1 BMP #3 Accomplishments**

<table>
<thead>
<tr>
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<th>Planned Timeframe</th>
<th>Date Completed</th>
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</thead>
<tbody>
<tr>
<td><strong>1</strong> BMP #3: Chester County webpage, “Chester County’s Stormwater Pollution Prevention Program: Only Rain in the Drain” (<a href="http://www.chesco.org/stormwater">www.chesco.org/stormwater</a>): This external Facilities and Parks Department webpage focuses specifically on outreach of Chester County’s program to reduce pollution and improve water quality, and how these efforts meet the NPDES MS4 requirements. Information and links include: Basic definitions and background on stormwater, steps citizens can take to protect local streams, a description of the six minimum control measures, a number to call to report a pollution event on county property, and links to PADEP, EPA and Chester County’s latest MS4 Report submitted to PADEP. See attached webpage printout.</td>
<td>Employees, users of county facilities and general public that navigates through the county’s website.</td>
<td>First posted on Facilities website March 30, 2015. Ongoing (through June 30, 2020)</td>
<td>Updates are completed throughout the year, as needed.</td>
<td>From July 1, 2019 to June 30, 2020, there were 165 visitors to the County’s stormwater webpage according to Google analytics.</td>
</tr>
</tbody>
</table>

| **2** BMP #3: Chester County Water Resources Authority website: Update and maintain stormwater management educational materials and tools, including a webpage dedicated to Stormwater Management, Act 167 Plans and TMDLs; links to PADEP, EPA; informational brochures including “A Homeowners Guide to Stormwater Management,” “Caring for your Streamside Property,” and “What is a Watershed”. This site is also updated with educational articles, upcoming events, and information on the County’s Act 167 and integrated water resources plan updates. See attached spreadsheet. | Municipal staff and officials, municipal and developer engineers, watershed conservation organizations, land conservancies, county agencies, and the general public | Ongoing (through June 30, 2020) | Updates completed throughout the year, as needed. | The Chester County Water Resources Authority website averaged approximately 794 views per month, with a total of 9539 views over the 12 month reporting period. The “Improving Stormwater Management” webpage was one of the most visited pages throughout the year, with a total of 822 views throughout the year. |
### BMP #3: Government Services Center (GSC) Trash Clean-Up Web Article

Post an article for approximately two weeks on internal Chester County employee website on the accomplishments of the employees and the purpose for holding the Annual Trash Clean-up and how the parking lots are directly connected to the basin and adjacent stream.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>BMP#3:</td>
<td>County employees</td>
<td>May 2020</td>
<td>Planned for April 22(^{nd}) 2020, but canceled due to COVID-19 Pandemic</td>
<td>The annual clean-up events at the GCS and other County properties was planned for April 22, but was canceled due to the COVID-19 pandemic. This event could not be rescheduled for later in the spring because the clean-up must occur before leaf-out.</td>
</tr>
</tbody>
</table>

### BMP #4: Distribute Stormwater Information to Target Audiences Using Three Methods –

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BMP#4: Method 1 = Posters</td>
<td>County employees and facility visitor</td>
<td>Ongoing (through June 30, 2020)</td>
<td>Ongoing and replaced as needed.</td>
<td>Continuously maintained stormwater posters on bulletin boards at Chester County facilities and offices and County Parks, highly visible to county employees and facility users. Total number of facility users and employees reached is unknown; however, posters were displayed throughout County-owned buildings, where 2,700 staff are employed.</td>
</tr>
</tbody>
</table>

Posters attached.
<table>
<thead>
<tr>
<th>Method</th>
<th>Installed (Number)</th>
<th>County employees and facility visitors</th>
<th>Ongoing (through June 30, 2020)</th>
<th>Ongoing and are replaced as needed</th>
<th>Number of facility users and county employees reached is unknown, however with more than 87 markers installed, approximately 2,100 are reached most days. (The Exton Library has 1200 visitors per day, the GSC has 450 parking spaces and if 90% occupied on any given day, a total of 405 may be reached. The Parks facilities are heavily visited only on weekends, but it is estimated that on average 30 people may be reached at the Parks facilities per day. The Pocopson Home has 258 parking spaces and the Prison Complex has 462 spaces. If 65% occupied on any given day, a total of 468 may be reached per day.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMP#2</td>
<td>87</td>
<td>County employees and facility visitors</td>
<td>Ongoing (through June 30, 2020)</td>
<td>Ongoing and are replaced as needed</td>
<td>Number of facility users and county employees reached is unknown, however with more than 87 markers installed, approximately 2,100 are reached most days. (The Exton Library has 1200 visitors per day, the GSC has 450 parking spaces and if 90% occupied on any given day, a total of 405 may be reached. The Parks facilities are heavily visited only on weekends, but it is estimated that on average 30 people may be reached at the Parks facilities per day. The Pocopson Home has 258 parking spaces and the Prison Complex has 462 spaces. If 65% occupied on any given day, a total of 468 may be reached per day.)</td>
</tr>
<tr>
<td>BMP#3</td>
<td>87</td>
<td>County employees</td>
<td>Ongoing (through June 30, 2020)</td>
<td>Program ongoing through June 30, 2020</td>
<td>Stormwater Fact sheets were distributed to all new county employees during their orientation. A total of 272 employees attended the new employee orientation from July 1, 2019 to February 29, 2020. An additional 51 employees received an electronic version of the fact sheet during their online training.</td>
</tr>
</tbody>
</table>

See attached flyer, “Chester County’s Stormwater Prevention Program.”
Attachment IB

As per PA DEP MS4 Annual/Progress Report Form
Reponses to MCM#1 – BMP#1 Question 5 and BMP#3 Question 5

Application PA130156 - Chester County, PA
NPDES Phase II MS4 Permit
MCM #1 – Public Education and Outreach Plan

For the upcoming period: July 1, 2020 to June 30, 2021

BMP #1: PUBLIC EDUCATION AND OUTREACH PROGRAM –

Education and Outreach Plan: Driving Forces, Goals and Objectives

1. The 2 main driving forces for the stormwater and water quality outreach campaign (expected to remain unchanged):
   - The number of stream miles that PA DEP designated as impaired, and
   - Supporting the Chester County Commissioners’ priorities to manage stormwater, flooding and improve water quality.

2. The 3 main goals are (expected to remain unchanged):
   - Goal #1 – Review and update the Public Education and Outreach Plan
   - Goal #2 – Raise awareness of:
     - stormwater and how people contribute to polluted waters,
     - stormwater’s connection via storm sewer systems to local waters, and
     - the problems created by poor water quality and how people can help.
   - Goal #3 – Implement Public Education and Outreach Plan

3. The objectives to meet the three main goals are as stated below for BMP#2, BMP#3 and BMP#4 and accomplished through the following activities:
   - BMP#2 objective: maintenance of the list of our target audience.
   - BMP#3 objective: to provide web content through completing the activities similar as stated above for BMP#3. We will continue to work to bring more viewers, particularly employees to the County’s Stormwater Pollution Prevention Program webpage.
   - BMP#4 objective: to use at least two methods to distribute stormwater information to the target audience through completing the activities similar as stated above for BMP#4. We expect to continue to provide information through the same three methods as we currently employ to disseminate our outreach messages.

BMP #2: TARGET AUDIENCES SERVED BY REGULATED MS4 –

1) County of Chester employees (list as maintained by Chester County Human Resources Department); and
2) Visitors of county facilities, with a focus on Chester County Parks, Government Services Center, Justice Center and Pocopson/Prison Campus.
Chester County's Stormwater Pollution Prevention Program

Only Rain in the Drain!

Chester County Government is committed to protecting and improving water quality in our streams. All County lands and buildings drain to streams that eventually drain to either the Delaware Bay or Chesapeake Bay. Clean streams are vital to our local communities, natural resources and economy, and will help restore both Bays. Stormwater runoff and its pollution are widespread water quality problems, and have degraded over 55% of the streams within Chester County. Chester County’s Stormwater Pollution Prevention Program has been designed to achieve the following goal:

Improve and protect the water quality of streams, lakes and waterways that receive runoff from County properties by:
- Reducing stormwater runoff volume and pollution that is created on, and discharged from, Chester County lands and facilities.
- Increasing the awareness and involvement of County employees and visitors to County facilities regarding the importance of reducing stormwater pollution, and how they can contribute to protecting our streams, lakes and waterways.

Chester County Board of Commissioners' Priorities & Goals (2017, Excerpt)
- **Manage Stormwater & Flooding Citizen Benefit** - Managing stormwater reduces the impacts of runoff and flooding, avoiding or lessening damage to infrastructure, harm to the environment and threat to public safety.
- **Improve Water Quality Citizen Benefit** - Improving and protecting the quality of streams in the County provides clean water, preserves natural habitat and reduces flood issues. The improvement of local streams leads to an improvement in the health of the regional watershed ultimately impacting the Chesapeake and Delaware Bays.

What is Stormwater?
Stormwater is water that originates during rain events and snow/ice melt. It can soak into the soil (infiltrate); be held on the surface and evaporate, or runoff and end up in nearby streams, rivers or other water bodies. This runoff, and the pollution it picks up as it flows, is the main contributor to water quality pollution in Chester County.

How Does Stormwater Pollution Reach Our Streams?
Stormwater runs off roof tops, sidewalks, driveways, roadways, parking lots, yards, etc. Sometimes it flows directly into streams that run through our valleys. In developed areas, this runoff drains to streets, then enters storm drains, flows through underground
stormwater sewer pipes, and eventually discharges to streams. Thus, all particles, trash, cigarette butts, pet waste, lawn chemicals, de-icing salts and chemicals, vehicle fluid droppings, and everything else that accumulates on the pavements and land surfaces are carried by the stormwater into the streams.

Graphic courtesy of Montgomery County, Maryland Department of Environmental Protection

How Can You Help Protect our Local Streams?
County employees and visitors to County facilities can pitch in and help protect the local streams and lakes! Here are a few simple things that, collectively, can make a big difference in keeping our natural waterways and water supply sources clean, safe and healthy:

1. **Nothing but rain in the drain!** Never pour or throw trash, liquids or any substance into a storm drain. These drains are directly connected to the local stream! And it’s against the law!!

2. **Cigarette butts, coffee/ drink cups & lids, snack wrappers, plastic drink bottles** - don't drop these on the ground or in parking lots! Put them in a recycle bin or trash receptacle. None of these evaporate; all wash to the streams. Keep a small bag in your car for trash and dispose of it when you get to a recycle or trash can.

3. **Fix car fluid leaks** - repairing leaks and drops from your car's fluids helps avoid vehicle chemicals from collecting on parking lots and being washed into storm drains, then into streams during rain events. A bit of prevention can help save several fish in the streams.

4. **Pick up pet waste** - pet droppings contain bacteria and parasites as well as nutrients, all of which create water quality problems. Every time it rains, pet waste left to decay can be washed into streams and storm drains. Even when it is not raining, these droppings are unsafe and unhealthy to be left in areas where children play, such as parks and along County trails. Carry disposable bags and pick up your pet's waste when out on walks or in your yard. Bag it, seal it and deposit it in a trash can or waste receptacle.

5. **Put trash in its place!** Whether at the library, a County office building, a park or a trail, place all trash and waste in trash receptacles. Trash that accumulates in public areas can make it look uncared for and unsafe. It will be carried by stormwater through storm drains and into local creeks and streams.

6. **Participate** in the stream clean up events.

7. **Report Illegal Dumping!** - Spilling, disposing or discharging of any substance into a storm drain is illegal. Call the County at 610-344-6220 if you witness something being poured, dumped, disposed or discharged into or in the immediate vicinity of a storm drain on any County property.

Some additional things you can do at home and in your neighborhood to help reduce pollution and protect streams and waterways:

**Avoid Using Salt for De-icing**
Salt from de-icing is rapidly becoming a widespread water pollution problem. It dissolves and is carried into streams, storm drains and infiltrates into groundwater.

- Consider using non-salt de-icing chemicals. Sand and bird seed are used in place of chemical de-icers. Experiment with what works for you.
If salt is essential, store it AWAY FROM storm drains. Cover it to avoid rain from washing the salt into storm drains and streams.

**Automobile Care**
- Wash your vehicles at a commercial facility. Here wash water is treated and must be directed to the sanitary sewer that goes to the local wastewater treatment plant, or captured for proper disposal.
- Consider washing your car on a porous surface such as grass, so the wash water can soak into the soil, be treated by soil particles and microbes, and be filtered before it enters the groundwater.

**Maintenance - Keep it Clean!**
- Never pour or throw things down storm drains. They are directly connected to the local stream!
- Protect sidewalks, curbs, streets and gutters before making repairs or performing minor maintenance.
- Place a container under the oil pan, brake line or other auto part, which is, or may leak heavily.
- Place pads, cardboard, newspaper of kitty litter when using chemicals to catch spills.
- Store used transmission, brake or other fluids, and recycle used oil and antifreeze in a secure location where they can't spill or wash into a storm drain. Then recycle the fluids at a service station.
- Place only lightly soiled absorbent materials in the trash.

**Fats, Oils & Grease**
- Scrape food from dishes into waste cans before rinsing to greatly reduce the amount of grease and food particles entering the drain.

**Support Your Local Watershed Conservation Organization**
Join and participate in their stream protection activities and educational programs.

**Check Out Online Brochures**
For more information on how to protect our streams and water quality, and improve environmental stewardship of our streams, check out a variety of our publications.

**Program Overview**
Chester County's Stormwater Pollution Prevention Program is a comprehensive response to reducing the County's impact on streams and waters of the County. These actions are intended to eliminate or minimize impacts from County operations and facilities on the water quality of our streams and waterways.

The County's Stormwater Pollution Prevention Program has six (6) elements, called minimum control measures, or MCMs, that when implemented together, reduce pollutants generated and discharged from County properties:
1. Public Education & Outreach
   - Provide programs, educational materials and activities to increase the awareness and understanding of employees and visitors to County facilities of the impacts of stormwater pollution and the importance of protecting the water quality of streams.
   - March 26, 2018 - Presentation - Stormwater & You!
   - April 3, 2018 - Go Green Chesco Event

2. Public Participation
   - Provide, develop and implement opportunities for citizens to be involved with program development and implementation.

3. Illicit Discharge Detection & Elimination
   - Routinely inspect, identify and eliminate any discharges entering the County’s storm sewer system that are not compromised solely of stormwater.

4. Construction Site Runoff Control
   - Ensure all County-owned construction projects are conducted in accordance with applicable state and municipal erosion, sediment and stormwater control regulations, and that proper runoff controls function as intended during storm events.

5. Post-Construction Runoff Control
   - Ensure that all County-owned facilities are designed and built to incorporate low-impact and "green infrastructure" control features, and to comply with the post-construction stormwater controls required by applicable state and municipal regulations.

6. Pollution Prevention & Good Housekeeping
   - Develop and implement a program with the intent of preventing or reducing pollutant runoff from county operations, including staff training on pollutant prevention measures and techniques.

For More Information
   - To learn more about Chester County’s Stormwater Pollution Prevention Program accomplishments, read the most current Annual Report.
   - Visit the U.S. Environmental Protection Agency’s Municipal Separate Stormwater System Main Page.
   - Visit the Pennsylvania Department of Environmental Protection’s Municipal Stormwater page.

Contact Information
For water and environmental concerns on County property, please contact 610-344-6220.
Chester County’s Stormwater Pollution Prevention Program

Only Rain in the Drain!

Chester County Government is committed to protecting and improving water quality in our streams. All County lands and buildings drain to streams that eventually drain to either the Delaware Bay or Chesapeake Bay. Clean streams are vital to our local communities, natural resources and economy, and will help restore both Bays. Stormwater runoff and its pollution are widespread water quality problems, and have degraded over 55% of the streams within Chester County. Chester County’s Stormwater Pollution Prevention Program has been designed to achieve the following goal:

**Improve and protect the water quality of streams, lakes and waterways that receive runoff from County properties by:**
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- Increasing the awareness and involvement of County employees and visitors to County facilities regarding the importance of reducing stormwater pollution, and how they can contribute to protecting our streams, lakes and waterways.

**What is Stormwater?**

**Stormwater** is water that originates during rain events and snow/ice melt. It can soak into the soil (infiltrate); evaporate, or runoff and end up in nearby streams. This run off, and the pollution it picks up as it flows, is the main contributor to water quality pollution in Chester County.

**How Does Stormwater Pollution Reach Our Streams?**

Stormwater runs off roof tops, sidewalks, driveways, roadways, parking lots, yards, etc. Sometimes it flows directly into streams that run through our valleys. In developed areas, this runoff drains to streets, then enters storm drains, flows through underground stormwater sewer pipes, and eventually discharges to streams. Thus, all particles, trash, cigarette butts, pet waste, lawn chemicals, de-icing salts and chemicals, vehicle fluid droppings, and everything else that accumulates on the pavements and land surfaces are carried by the stormwater into the streams.

**How Can You Help Protect our Local Streams?**

County employees can pitch in and help protect the local streams and lakes! Here are a few simple things that, collectively, can make a big difference in keeping our waterways and water supply sources clean, safe and healthy:

**CHESTER COUNTY BOARD OF COMMISSIONERS’ PRIORITIES AND GOALS (2017, EXCERPT)**

- **Manage Stormwater & Flooding:** Citizen Benefit - Managing stormwater reduces the impacts of runoff and flooding, avoiding or lessening damage to infrastructure, harm to the environment and threat to public safety.
- **Improve Water Quality:** Citizen Benefit - Improving and protecting the quality of streams in the County provides clean water, preserves natural habitat and reduces flood issues. The improvement of local streams leads to an improvement in the health of the regional watershed ultimately impacting the Chesapeake and Delaware Bays.

Graphic courtesy of Montgomery County, Maryland Department of Environmental Protection.
1. **Nothing but rain in the drain!** Never pour or throw trash, liquids or any substance into a storm drain. These drains are directly connected to the local stream! And it’s against the law!!

2. **Cigarette butts, coffee/ drink cups & lids, snack wrappers, plastic drink bottles** - don't drop these on the ground or in parking lots! All wash to the streams. Keep a small bag in your car for trash and dispose of it when you get to a recycle or trash can.

3. **Fix car fluid leaks** - repairing leaks from your car's fluids helps avoid vehicle chemicals from collecting on parking lots and being washed into storm drains, then into streams during rain events.

4. **Pick up pet waste** - pet droppings contain bacteria and parasites as well as nutrients, all of which create water quality problems. Pet waste left to decay can be washed into streams and storm drains.

5. **Put trash in its place!** Whether at the library, a County office building, a park or a trail, place all trash and waste in trash receptacles. It will be carried by stormwater through storm drains and into local creeks and streams.

6. **Participate** in the County-Sponsored Spring Grounds & Streams Clean-Up for employees that prevents litter from entering the County's stormwater sewer system that is connected to Goose Creek.

7. **Report Illegal Dumping!** Spilling, disposing or discharging of any substance into a storm drain is illegal. Call 610-344-6220 to report this to the County if you witness something being discharged into or in the immediate vicinity of a storm drain on any County property.

Some additional things you can do to help reduce pollution and protect streams:

**Avoid Using Salt for De-icing**
Salt from de-icing is rapidly becoming a widespread water pollution problem. It dissolves and is carried into streams, storm drains and infiltrates into groundwater.

**Automobile Care**
Wash your vehicles at a commercial facility. Here wash water is treated and must be directed to the sanitary sewer that goes to the local wastewater treatment plant, or captured for proper disposal.

**Maintenance – Keep it Clean!**
Never pour or throw things down storm drains. They are directly connected to the local stream.

**Support Your Local Watershed Conservation Organization**

**Program Overview**
Chester County's Stormwater Pollution Prevention Program is a comprehensive response to reducing the County’s impact on streams and waters of the County. These actions are intended to eliminate or minimize impacts from County operations and facilities on the water quality of our waters. The County's Stormwater Pollution Prevention Program has six (6) elements that when implemented together, reduce pollutants generated and discharged from County properties:

1. **Public Education & Outreach**
2. **Public Participation**
3. **Illicit Discharge Detection & Elimination**
4. **Construction Site Runoff Control**
5. **Post-Construction Runoff Control**
6. **Pollution Prevention & Good Housekeeping**

**For More Information**
To learn more about Chester County's Stormwater Pollution Prevention Program visit www.chesco.org/stormwater.

**Who to Contact?**
For water and environmental concerns on County property, please contact 610-344-6220.
Hi, Cory,

272 people attended Orientation from July 2019 through February 2020.

And approximately 51 people who started between March 2020 and June 2020 will be completing their Orientation through video conference soon.

Thank you,

Barbara E. Mills
Human Resources, County of Chester
313 W. Market St. Suite 4302
West Chester, PA 19380-0991

610-344-6293 - phone
610-344-5489 – fax
I am collecting material for the County’s annual stormwater permit report. Each year we distribute a stormwater flyer to new employees at their orientations. Can you send me the number of employees who were scheduled for the new hire orientation from July 2019 to June 2020? Do you know if new hires in March-June were given electronic versions of the new hire packets?

Thank you,

Cory

Cory Trego
Chester County Water Resources Authority
Watershed Resources Planner
610-344-5400
Hi Cory -- see below...

From: Trego, Cory T. <ctrego@chesco.org>
Sent: Wednesday, July 8, 2020 4:03 PM
To: Morris, Sue E. <smorris@chesco.org>
Subject: Google Analytics Stats for Chesco.org/stormwater

Hi Sue,

I am compiling data for Chester County’s annual stormwater permit submission. Can you send me the Google Analytics data for the number of visitors to chesco.org/stormwater from July 1, 2019 to June 30, 2020?

Thank you!

Cory

Cory Trego
Chester County Water Resources Authority
Watershed Resources Planner
610-344-5400
WHEN YOUR CAR'S LEAKING OIL ON THE STREET, REMEMBER IT'S NOT JUST LEAKING OIL ON THE STREET.

Leaking oil goes from car to street. And is washed from the street into the storm drain and into our lakes, streams and into coastal waters including the Chesapeake Bay. Now imagine the number of cars in the area and you can imagine the amount of oil that finds its way from leaky gaskets into our water. So please, fix oil leaks.

If you have questions regarding storm water, please contact your municipality or Pennsylvania Department of Environmental Protection's Regional Office. For general questions, you may also contact DEP's Bureau of Water Management at (717) 772-8661 or visit www.dep.state.pa.us. Thanks to the Washington Water Quality Consortium for generating & distributing this poster.
WHEN YOUR PET GOES ON THE LAWN,

REMEMBER IT DOESN'T JUST

GO ON THE LAWN.

When our pets leave those little surprises, rain washes all that pet waste and bacteria into our storm drains. And then pollutes our waterways. So what to do? Simple. Dispose of it properly (preferably in the toilet). Then that little surprise gets treated like it should.

If you have questions regarding storm water, please contact your municipality or Pennsylvania Department of Environmental Protection's Regional Office. For general questions, you may also contact DEP's Bureau of Stormwater Management at (717) 772-3560 or visit www.dep.state.pa.us.

Thanks to the Washington State Water Quality Coalition for permission to adapt and use this poster.
Attachment II

Application PAI130156 - Chester County, PA
NPDES Phase II MS4 Permit

MCM #2
Public Participation and Involvement Plan and Accomplishments
(Partial Year 5 & Partial Year 6 – July 1, 2019 through June 30, 2020)

BMP #1: PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM –
Public Involvement and Participation Plan: Driving Forces, Goals and Objectives

1. The 2 main driving forces for the involvement and participation campaign are:
   - The number of stream miles that PA DEP designated as impaired, and
   - Supporting the Chester County Commissioners’ priorities to manage stormwater, flooding and improve water quality.

2. The main goals are:
   - Goal #1 – Create opportunities for the target audience (employees and/or visitors of county facilities) to participate in the decision-making process and involvement activities related to the MS4 permit.
   - Goal #2 – Employ methods that will allow routine communication to employees and/or visitors of county facilities and provide a method where suspected illicit discharges at county facilities can be reported.
   - Goal #3 – Make the County of Chester’s periodic reports available to the public.

3. The objectives to meet the three main goals are as stated below for BMP#3 and accomplished through the following activities:
   - Goal #1 objective: Hold one annual trash clean-up and one employee meeting annually to solicit input. Additional opportunities will be sought when available.
   - Goal #2 objective: Use the internal employee website, The County Insider, to communicate with employees and physical bulletin boards in county facilities to communicate with visitors of county facilities.
   - Goal #3 objective: Make the County of Chester’s periodic reports available via the website www.chesco.org/stormwater, and at the Department of Facilities and Parks.

BMP #2: ORDINANCE OR SOP (See MS4 Annual /Progress Report)
### BMP #3: PUBLIC INVOLVEMENT AND PARTICIPATION ACTIVITIES –

**July 1, 2019-June 30, 2020 – MCM #2**

**PUBLIC PARTICIPATION AND INVOLVEMENT ACCOMPLISHMENTS**

<table>
<thead>
<tr>
<th>Activity &amp; Results</th>
<th>Target Audience</th>
<th>Planned Timeframe</th>
<th>Date Completed</th>
<th># People Reached</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> Annual Volunteer Trash Clean-up: Government Services Center (GSC) Trash-clean up at GSC stormwater basins and GSC parking lot/adjacent areas. Employees received an introduction to the County’s MS4 permit requirements, an overview of stormwater management at the GSC, and information of the Goose Creek/Chester Creek Watersheds.</td>
<td>County Employees</td>
<td>April 22, 2020</td>
<td>Canceled due to COVID-19 Pandemic</td>
<td>The CCWRA and Chester County Facilities Department host an annual grounds cleanup at different County properties. This event has grown each year, and last year two new locations (Exton Library and Justice Center) were added. CCWRA staff coordinated with members of Go-Green Chesco and the Department of Computing and Information Services (DCIS) to schedule the event and to discuss advertising the event on the County’s employee webpage, the County Insider. The event was scheduled for April 22nd to coincide with the County’s Earth Day activities, but was canceled due to the Covid-19 pandemic. This event will not be rescheduled during the current permit cycle because the clean-up must occur before leaf-out to allow for effective cleanup along the riparian corridor.</td>
</tr>
<tr>
<td><strong>2</strong> Go Green Chesco – Go Green Chesco is an employee-driven group working to promote sustainable practices within County facilities. Go Green Chesco helps promote the various MS4 events such as the trash clean-up and the Stormwater &amp; You program. They provided feedback and input on various sustainable practices desired at county facilities including reducing pollution to our waterways.</td>
<td>County Employees</td>
<td>Ongoing</td>
<td>Ongoing meetings held quarterly</td>
<td>Quarterly meetings open to all 2,700 employees.</td>
</tr>
<tr>
<td>Activity &amp; Results</td>
<td>Target Audience</td>
<td>Planned Timeframe</td>
<td>Date Completed</td>
<td>Accomplishments</td>
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<td><strong>Stormwater &amp; You: Shaping the County’s Pollution Reduction Program</strong> – Annual employee/public meeting to discuss the County’s stormwater program and solicit input from the employees in attendance.</td>
<td>County employees</td>
<td>Once annually</td>
<td>November 7, 2019</td>
<td>The County’s annual employee/public meeting was advertised to all 2700 County employees through the Chester County employee’s webpage, the County Insider, and was included in the County’s Wellness Program’s newsletter. Nine County employees attended the meeting. This meeting reviewed the components of the County’s MS4 Program and discussed the impacts of stormwater on our local landscape and local stream ecosystems. Employees were given a tour of the stormwater infrastructure at the Government Services Center and were given the opportunity to comment on the County’s MS4 program. November 2019: 9 employees from 6 departments participated.</td>
</tr>
<tr>
<td><strong>Chester County Envirothon</strong> – Chester County Conservation District and Chester County Open Space and Parks Department organize and conduct the annual Envirothon to involve students in activities to encourage environmental and watershed stewardship. See attached summary document, coaches letter, and vocabulary list.</td>
<td>Chester County elementary, middle and high schools participated and visited the county park.</td>
<td>Annually in April and May</td>
<td>Program was in progress, but transition to a virtual program in May due to COVID-19.</td>
<td>An informational meeting for coaches and teachers was held on January 14th at the Government Services Center. Attendees were given an overview of the program, briefed on this year’s topic (water resources), and were provided with a presentation by Chester Water Authority on the water treatment process. Thirty coaches and mentors attended this meeting. A vocabulary list was compiled by the CCWRA and CCCD and was distributed to teams in February. The program was transitioned to a virtual event with 5 high schools and 12 students participating. Spring 2020: 30 teachers and mentors attended the initial training meeting; 12 students from 5 high schools competed in the virtual program.</td>
</tr>
<tr>
<td>Activity &amp; Results</td>
<td>Target Audience</td>
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<tr>
<td>Take Your Child to Work Day – Chester County Water Resources Authority staff host an activity to help the children of employees learn more about the importance of stormwater runoff and ways they can help to improve their local water quality.</td>
<td>Employees and their children</td>
<td>Annually each spring</td>
<td>Planned for April 23, but canceled due to COVID-19 Pandemic</td>
<td>CCWRA Staff planned to lead an event titled &quot;Rain to Drain: The Importance of Managing Stormwater&quot; at the County's annual Take Your Child To Work Day. This event would provide interactive ways for kids and their parents to learn about stormwater, water quality, and activities and actions that could do to reduce their stormwater footprint and improve water quality. This event was canceled due to the COVID-19 pandemic.</td>
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</tbody>
</table>

| County NPDES MS4 Annual/Periodic Reports – Posted on the Chester County Facilities' webpage under "Stormwater Program". Provides the number where employees can call if they observe a pollution event on county property. The current Report is also available upon request. | County employees and visitors of county facilities | Ongoing | Ongoing | No requests received. |
Down by the Stream: Stormwater Impacts on Stream Ecosystems

1. Needs:
   a. Aerial photos of GSC
   b. Watersheds Maps
   c. Map of Chester Creek Watershed
   d. 2016 Impaired Streams Map
   e. Photos of bad streambank erosion

2. Presentation outline
   a. Discuss the purpose of the event
      i. To provide an overview of how stormwater impacts stream ecosystems
      ii. To introduce County's efforts to reduce their impact through the MS4 program and to solicit input from County employees
      iii. Learn about the stormwater features at the GSC through a walking tour, and discuss the impact of these structures on improving water quality in local waterways
   b. What do you think of when you think of pollution?
   c. What is a watershed?
      i. Highlight that everyone lives within a watershed: all land area drains to some waterway
      ii. Show Chester County Watersheds map
         1. 26 watersheds in Chester County: majority of these begin within the County and flow into our neighboring counties
         2. Every action we take here in the headwaters has an impact downstream
   d. Use the Enviro scape to give a quick demonstration of non-point source pollutions and to illustrate concepts of a watershed
      i. Discuss Point source pollution and non-point source pollution and use the model to demonstrate
      ii. What is stormwater?
         1. Water that originates during rain and snow events
            a. Three options: Infiltration into ground, evaporation/ transpiration from land surface or through vegetation, or runoff on the surface to nearby streams and water bodies
            b. Stormwater management tries to minimize amount of precipitation that becomes surface runoff
      iii. Discuss the importance of managing runoff:
         1. In Chester County, runoff is not treated at a wastewater treatment plant; typically flows either directly into a receiving stream or into a stormwater system
         2. Runoff is most effectively treated on site via passive treatment systems, such as detention basins, rain gardens, and infiltration basins, etc.
   e. Show aerial image of GSC and estimate percentage of impervious cover
   f. Background on Stormwater runoff
      i. Stormwater runoff is the main contributor to water quality impairment in Chester County- increased impervious surface area (roofs, sidewalks, roads, parking lots, etc.) leads to greater runoff volumes
ii. Today we will explore the ground of the GSC, discuss the stormwater runoff in the context of this site, and discuss ways the County is working to reduce stormwater runoff and pollution from its properties

3. **Step 1: Storm Drain**
   a. **Stormwater Runoff at GSC**
      i. Parking area sloped to ensure that all runoff is captured in stormwater drainage system
      ii. Captured in these storm drains strategically located throughout the property to catch and convey all runoff
      iii. Note issues with storm drains: clogging, vehicle fluids, trash from parking lots, and chlorides draining to creek
      iv. Point out storm drain marker
   b. **What is the County’s role with their own facilities?**
      i. National Pollutant Discharge Elimination System (NPDES) permit program was created by the Clean Water Act in 1972
      ii. EPA authorized states to administer their own programs
      iii. In PA, the DEP administers this program, but the EPA retains oversight responsibilities
      iv. Outfalls of Municipalities and other local governments are managed under the Municipal Separate Storm Sewer System (MS4) Program
   v. **Issued an NPDES permit**
      1. As a component of the permit, municipalities and local governments must develop a stormwater management program
      2. **Contains 6 Minimum control measures:**
         a. **Public Outreach and Education**
            i. Maintain stormwater webpage
            ii. Distribute posters and other graphics, such as new employee handout
            iii. Installed storm drain markers
         b. **Public Participation/Involvement**
            i. Trash clean up days
            ii. Environthon
            iii. Events such as this with GoGreen Chesco
         c. **Illicit discharge detection and elimination**
         d. **Construction Site Runoff Control**
         e. **Post-construction Runoff Control**
         f. **Pollution Prevention/Good housekeeping**

4. **Step 2: Stormwater Basin in Front of GSC**
   a. All flow from storm drains is routed to two stormwater detention basins, this first and largest of which is shown here
   b. **GSC Property about 21 acres, with nearly 15 acres impervious**
      i. Generates approximately 405,000 gallon of runoff from a one inch rain event
      ii. Same area would generate approximately 11,250 gallons if undisturbed forest because water would be captured by tree canopy and evaporated, or infiltrate into the ground
         1. **By increasing impervious surface area, we:**
            a. Reduce the amount of water infiltrating into the ground, which results in less ground water recharge and more surface runoff
b. This results in more frequent flooding and degraded water quality and degraded stream conditions

c. Stormwater Runoff at GSC
   iii. These basin are meant to moderate the flow of water the Goose Creek, a tributary to Chester Creek, by controlling the volume of water that can be released
      1. Point out the erosion at the outflow pipe
         a. Note how in urban and suburban areas, one of the leading causes of stream degradation is streambank erosion caused by excess stormwater flows
         b. Discuss how it is important to ensure that developed parcels do not result in peak flow rates that exceed current values of the property, and the importance of using stormwater infrastructure to capture and infiltrate and evaporate stormwater
         c. Note the importance of maintaining these structures, and the variety of designs that are now used, including naturalized basin designs
            i. Note how they look unkempt, but the help to increase infiltration and evaporation
            ii. Native vs. non-native plants
      2. Point out outlet to Goose Creek
         a. Note the importance of energy dissipation structures to prevent erosion, which would cause excess sediment to enter the stream.
      3. Common misperception that big polluters are the culprit, but in many suburban areas, changes in land use, pet waste, lawn fertilizers, vehicular fluids all help to contribute to degraded stream conditions
      4. What can we do to reduce impacts of stormwater?
         a. Don't dispose of any trash or liquid waste into these drains as they flow into streams- keep parking lots clean because they flow into creeks
         b. Reduce leaking car fluids
         c. Report Illegal dumping-If you see someone dumping, say something; using as a learning opportunity

5. Stop 3: Bridge over UNT to Goose Creek
   a. Note that 67% of streams in Chester County are listed as impaired by the DEP
      i. Impairments include siltation, nutrients, urban runoff/storm sewers, habitat alterations, water flow variability
   b. These basins collect water from storm events and to mitigate the release to an UNT of Goose Creek, a tributary to Chester
      i. Listed as Recreation and Aquatic life impaired from storm sewers and urban runoff, habitat modification, water flow variability, and siltation.
      ii. Supplies ~1.8 mgd of public drinking water: Main public water intake located in Middletown township, Delaware County
      iii. 127 stream miles in watershed, 73 miles of first order (57%)
   c. Discuss DEP's classifications: WWF, CWF, EV, HQ and impact of impairments
   d. Note sedimentation is one of the leading causes of impairment in urban areas
i. Caused by excess runoff in stream channels causing erosion and scour

e. Discuss sampling and impacts on water quality
   i. Sedimentation and stream erosion:
      1. Pebble counts and embeddedness
         a. Impact on benthics
      2. Importance of IBI scores and note that USGS in collaboration with
         CCWRA monitors 18 sites annually throughout the county using a
         County-specific IBI score to monitor long-term water quality trends
      3. Impact on fish species
         a. Cold water fisheries and thermal impacts of stormwater
            i. Species composition: loss of sensitive species like trout
            ii. Trout streams produce a $47,000 per mile in PA to local
                economy annually due to recreation benefits, property
                values
   f. Discuss the importance of BMPs, like riparian buffers, stormwater basins, and other
      practices to reduce impacts to water quality
      i. Point out buffer present at GSC and discuss benefits: pollutant filtration, flood
         retention, increased stability, habitat- food for fish and benthics

6. **Stop 4: Basin 2**
   a. More naturalized, but point out the number of invasive plants: Phragmites, Japanese
      kimes
   b. Note the impact of these invasive: competitive dominance results in monocultures
   c. Ideal basin would be planted with a variety of native species to increase ecological
      niches and maximize pollution filtration benefits
Healthy Lifestyle
Well-Being Program
November 2019

Visit the Wellness Page

Monopoly
November 11

Please Remember to Thank Veterans

To register for Wellness Events

Email Wellness at Wellness@chesco.org subject to include "Event Name", Date, and Location; in the body include "Event Name", date and location. Please cc Supervisor.

Reasons to register:
- If Wellness Event is cancelled all employees registered are contacted and notified of status
- Allows Wellness Team to manage room size
- Allows Wellness Team to judge popularity of Wellness Events
November 2019

Recipes of the Month

How to Roast a Turkey: http://www.eatingwell.com/article/15173/how-to-roast-a-turkey/
Double Nut & Date Tassies: http://www.eatingwell.com/recipe/249977/double-nut-date-tassies/

Accounts Payable

Come listen to Lisa Rhodes of the Controller’s Office about the Accounts Payable process in the County of Chester. Lisa will go over tips and potential problems to make processing accounts payable payments go smoothly for everyone. Q&A will be held at the end.

Presenter: Lisa Rhodes - Controller's Office Staff

313 West Market Street, 4th Floor - HR Training Room 2
Date: 11/18/2019  Time: 12:00 PM – 1:00 PM

Worth one Puzzle Piece and 10 Wellness Incentive Points for 2021 Incentive

Go Green Chesco
Down By The Stream

Outside the GSC, join us at the water’s edge where we will discuss the impacts of development and stormwater management on local stream conditions. Together, we will review the importance of the County’s MS4 program and discuss the role stormwater management plays in maintaining healthy streams.

Registration is required and the number of participants is limited. Please first obtain your supervisor’s approval prior to registering.

Government Services Center Meet outside the GSC front entrance (Rain location suite 149)
Go Green Chesco - Down By The Stream

Outside the GSC, join us at the water's edge where we will discuss the impacts of development and stormwater management on local stream conditions. Together, we will review the importance of the County's MS4 program, and discuss the role stormwater management plays in maintaining healthy streams.

Registration is required and the number of participants is limited. Please first obtain your supervisor's approval prior to registering.

Government Services Center Meet outside the GSC front entrance (Rain location suite 149)

Date: 11/7/2019           Time: 12:00 PM – 1:00 PM
Chester County’s Stormwater Pollution Prevention Program

Only Rain in the Drain!

Chester County Government is committed to protecting and improving water quality in our streams. All County lands and buildings drain to streams that eventually drain to either the Delaware Bay or Chesapeake Bay. Clean streams are vital to our local communities, natural resources and economy, and will help restore both Bays. Stormwater runoff and its pollution are widespread water quality problems, and have degraded over 55% of the streams within Chester County. Chester County’s Stormwater Pollution Prevention Program has been designed to achieve the following goal:

**Improve and protect the water quality of streams, lakes and waterways that receive runoff from County properties by:**
- Reducing stormwater runoff volume and pollution that is created on, and discharged from, Chester County lands and facilities.
- Increasing the awareness and involvement of County employees and visitors to County facilities regarding the importance of reducing stormwater pollution, and how they can contribute to protecting our streams, lakes and waterways.

**What is Stormwater?**
Stormwater is water that originates during rain events and snow/ice melt. It can soak into the soil (infiltrate); evaporate, or runoff and end up in nearby streams. This run off, and the pollution it picks up as it flows, is the main contributor to water quality pollution in Chester County.

**How Does Stormwater Pollution Reach Our Streams?**
Stormwater runs off roof tops, sidewalks, driveways, roadways, parking lots, yards, etc. Sometimes it flows directly into streams that run through our valleys. In developed areas, this runoff drains to streets, then enters storm drains, flows through underground stormwater sewer pipes, and eventually discharges to streams. Thus, all particles, trash, cigarette butts, pet waste, lawn chemicals, de-icing salts and chemicals, vehicle fluid droppings, and everything else that accumulates on the pavements and land surfaces are carried by the stormwater into the streams.

**How Can You Help Protect our Local Streams?**
County employees can pitch in and help protect the local streams and lakes! Here are a few simple things that, collectively, can make a big difference in keeping our waterways and water supply sources clean, safe and healthy:
1. **Nothing but rain in the drain!** Never pour or throw trash, liquids or any substance into a storm drain. These drains are directly connected to the local stream! And it's against the law!!

2. **Cigarette butts, coffee/ drink cups & lids, snack wrappers, plastic drink bottles** - don't drop these on the ground or in parking lots! All wash to the streams. Keep a small bag in your car for trash and dispose of it when you get to a recycle or trash can.

3. **Fix car fluid leaks** - repairing leaks from your car's fluids helps avoid vehicle chemicals from collecting on parking lots and being washed into storm drains, then into streams during rain events.

4. **Pick up pet waste** - pet droppings contain bacteria and parasites as well as nutrients, all of which create water quality problems. Pet waste left to decay can be washed into streams and storm drains.

5. **Put trash in its place!** Whether at the library, a County office building, a park or a trail, place all trash and waste in trash receptacles. It will be carried by stormwater through storm drains and into local creeks and streams.

6. **Participate** with other employees in the County-Sponsored Spring Stream & Grounds Clean-Up that prevents litter from entering the County's stormwater sewer system that is connected to Goose Creek.

7. **Report Illegal Dumping!** Spilling, disposing or discharging of any substance into a storm drain is illegal. Call 610-344-6220 to report this to the County if you witness something being discharged into or in the immediate vicinity of a storm drain on any County property.

**Some additional things you can do to help reduce pollution and protect streams:**

**Avoid Using Salt for De-icing**
Salt from de-icing is rapidly becoming a widespread water pollution problem. It dissolves and is carried into streams, storm drains and infiltrates into groundwater.

![No Dumping! Drains to Creek](image)

**Automobile Care**
Wash your vehicles at a commercial facility. Here wash water is treated and must be directed to the sanitary sewer that goes to the local wastewater treatment plant, or captured for proper disposal.

**Maintenance – Keep it Clean!**
Never pour or throw things down storm drains. They are directly connected to the local stream.

**Support Your Local Watershed Conservation Organization**

**Program Overview**
Chester County’s Stormwater Pollution Prevention Program is a comprehensive response to reducing the County’s impact on streams and waters of the County. These actions are intended to eliminate or minimize impacts from County operations and facilities on the water quality of our waters. The County’s Stormwater Pollution Prevention Program has six (6) elements that when implemented together, reduce pollutants generated and discharged from County properties:

1. **Public Education & Outreach**
2. **Public Participation**
3. **Illicit Discharge Detection & Elimination**
4. **Construction Site Runoff Control**
5. **Post-Construction Runoff Control**
6. **Pollution Prevention & Good Housekeeping**

**For More Information**
To learn more about Chester County’s Stormwater Pollution Prevention Program visit www.chesco.org/stormwater.

**Who to Contact?**
For water and environmental concerns on County property, please contact 610-344-6220.
# Down By The Stream

**Thursday, November 07, 2019**

Government Services Center

Attendance List

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<thead>
<tr>
<th>Print Name (As on pay check)</th>
<th>Department</th>
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<td>Eric Mishal</td>
<td>Population Health</td>
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<td>Vera Muchow</td>
<td>Children, Youth And Families</td>
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<td>Randall Scott</td>
<td>Mental Hlth/Intel &amp; Dev Disabl</td>
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<td>Cory Trego</td>
<td>Water Resources Authority</td>
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<td>Gaye Lynn Coxwell</td>
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September 16, 2019

Dear Envirothon Coaches:

Hello from the Chester County Envirothon! The committee is looking forward to working with you this new school year. Please review the following announcements for Envirothon 2020:

➢ It is time to mark your calendar and organize for ET 2020!

The Chester County Envirothon Coaches and Organizational Meeting is scheduled for Tuesday, January 14, 2020. It will be held at the Government Services Center (GSC) at 601 Westtown Road in West Chester between 9:00 a.m. - 11:00 a.m. in conference room 171.

Please add the following Envirothon 2020 key event dates to your calendar:
• Tuesday, January 14, 2019: Coaches and Organizational Meeting, GSC, Room 171, 9:00 a.m. - 11:00 a.m.
• Friday, February 14, 2020: Registration & T-shirt order deadline
• Wednesday, MAY 6, 2020: Elementary Level Envirothon (grades 3-5)
• Thursday, MAY 7, 2020: Middle School Level (grades 6-8) & Senior Level Envirothon (grades 9-12)

➢ The Current Issue for the 2020 Envirothon is “Water Resources Management: Local Control & Local Solutions”

➢ Please visit the following websites frequently for the newest information about Envirothon 2020:

   National: www.envirothon.org
   Pennsylvania: www.envirothonpa.org
   Chester County: www.chesco.org/conservation

Thank all of you for your support and interest in the Envirothon. Please call Gaye Lynn Criswell or Annette Ives with any questions or concerns at (610) 925-4920.

Yours in conservation education,

Gaye Lynn Criswell
Chester County Envirothon Coordinator
2020 Vocabulary List

State and Federal Legislation

1. Pennsylvania Constitution, Article 1, Section 27: The people have a right to clean air, pure water, and to preservation of the natural, scenic, historic, and esthetic values of the environment. Pennsylvania's public natural resources are the common property of all the people, including generations yet to come. As trustee of these resources, the Commonwealth shall conserve and maintain them for the benefit of all the people.

2. The Flood Control Act (1936) – Federal law that authorized projects such as dams, levees, dikes, and other flood control measures by the United States Army Corps of Engineers and other Federal Agencies.

3. Pennsylvania Clean Streams Law (1937) – State law to preserve and improve the purity of the waters of the Commonwealth for the protection of public health, animal and aquatic life, and for industrial consumption, and recreation, among other objectives.

4. Pennsylvania Municipalities Planning Code (1968) - Pennsylvania law that allows municipalities, individually or jointly, to plan their development and to govern the same by zoning, subdivision and land development ordinances, and other planning elements.

5. The Clean Water Act (1972) – Federal law that regulates pollutant discharges from point sources, requires, development of surface water quality criteria, provides funding from construction of sewage treatment plants, authorizes states to develop controls for non-point source pollution and ground water protection strategies.

6. The Safe Drinking Water Act (1974) – Federal law that authorizes EPA to set standards for maximum levels of contaminants in drinking water, to regulate underground injection wells, to designate areas that rely on a single aquifer for their water supply, and to establish a nationwide program that encourages states to develop programs to protect public water supply wells.

7. The Resource Conservation and Recovery Act (1976) – Federal law that regulates the storage, transportation, treatment, and disposal of solid and hazardous wastes to prevent contaminants from leaching into groundwater from municipal landfills, underground storage tanks, surface impoundments, and hazardous waste disposal facilities.

8. The Toxic Substances Control Act (1976) – Federal law that authorizes EPA to control the manufacture, use, storage, distribution, or disposal of toxic chemicals.


10. The Dam Safety Encroachments Act (1978) – Pennsylvania law that authorizes DEP to regulate the construction, operation, and maintenance of dams and other water obstructions.

11. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) (1980) – Federal law that authorizes EPA to clean up contamination caused by chemical spills or hazardous waste sites that could or do pose threats to the environment. Amendments in 1986 authorize citizens to sue violators and establish "community right –to-know" programs.
12. The Federal Insecticide, Fungicide, and Rodenticide Act (1996) – Federal law that authorizes EPA to control the use of pesticides that have the ability to leach into groundwater.

13. Water Resources Planning Act of 2002 – Pennsylvania law that provides guidelines for future water resource planning that will influence the future allocation of ground-and surface water resources.

Acronyms:

CCCD - Chester County Conservation District
CCHD - Chester County Health Department
CCWRA - Chester County Water Resources Authority
MCL - Maximum contaminant level
NPDES - National Pollutant Discharge Elimination System
NPS - Nonpoint source
NRCS - USDA Natural Resources Conservation Service
PADCNR - Pennsylvania Department of Conservation and Natural Resources
PADEP - Pennsylvania Department of Environmental Protection
PAFBC - Pennsylvania Fish and Boat Commission
PUC - Pennsylvania Public Utilities Commission
USDA - U.S. Department of Agriculture
USEPA - U.S. Environmental Protection Agency
USGS - U.S. Geological Survey

General Terms:

1. Aquifer – an underground layer of water-bearing permeable rock, sand, or gravel.
2. Bacteria - Single celled organisms having no cellular nucleus. Pathogenic bacteria are capable of causing disease. Coliform bacteria are prolific in the intestines of warm blooded animals and are used as an indicator of fecal waste pollution.
3. Base flow – sustained flow of a stream in the absence of direct runoff from the surrounding landscape. Natural base flow is sustained largely by groundwater discharges.
4. Bedrock – The solid rock that lies beneath soil, loose sediments, and other unconsolidated materials.
5. Best Management Practice (BMP) – conservation practices that are implemented to prevent or reduce non-point source pollution to help improve water quality.
6. Basin Water Supply (BWS) – The amount of streamflow that would naturally occur in a basin in the absence of developed water uses.
7. Commercial Water Use – water used for industry, offices, hotels, restaurants, schools, and institutions.
8. Confining bed – an impervious layer of rock below or above a stratum containing water.
9. Consumptive Use – water withdrawn and removed from its sources due to evaporation, transpiration by plants, or use by people or livestock.
10. Cover crop – a crop that is planted to protect soil from erosion and to manage soil fertility and quality
11. Critical Water Planning Area (CWPA) – a watershed or hydrologic unit where existing or future water demands exceed or threatens to exceed the safe amount of available water resources.
12. Discharge – the volume of water that passes a location within a set period of time. This is usually expressed in cubic feet per second.
13. Domestic water use - water used for household purposes, such as drinking, food preparation, bathing, washing clothes, dishes, and dogs, flushing toilets, and watering lawns and gardens
14. Drainage basin – the land area where precipitation will flow into a common point on a stream, rivers, lake, or reservoir.
15. Effluent – water that flows from a sewage treatment plant after it has been treated
16. Erosion – the process by which soils, gravel, sand, or rock is worn away by wind, water, or other natural means.
17. Eutrophic - Habitats, particularly soils and water, that are rich in nutrients and plant growth. Eutrophic waters generally have high sedimentation at their bottoms. The lower levels of eutrophic waters have very low levels of dissolved oxygen.
18. Evaporation – the process of liquid becoming water vapor, including vaporization from water surfaces, land surfaces, and snow surfaces.
19. Evapotranspiration – The total loss of water to the atmosphere by evaporation from land and water surface and by transpiration from plants.
20. Exceptional Value (EV) waters - A Pennsylvania water quality classification given to streams in Pennsylvania that have the cleanest and highest quality of water, or that provide unique and valuable resources.
21. FEMA - the Federal Emergency Management Agency (FEMA) is an agency of the United States Department of Homeland Security created in 1978, whose primary purpose is to coordinate the response to a disaster that has occurred in the United States and that overwhelms the resources of local and state authorities.
22. First Order Stream - Upper-most perennial tributary in a watershed that has not yet confluenced with another perennial stream. The confluence of two first order streams forms a "second" order stream.
23. Flood Insurance Rate Map (FIRM) – a flood map of a community created by FEMA and used by the National Flood Insurance Program to assess flood risk
24. Flood – the temporary overflow of water onto land adjacent to a river, stream lake, or ocean that is typically not covered by water
25. Floodplain – the areas adjacent to a water body that is covered by water during a flood.
26. Floodway – the channel of a river or stream and the parts of the floodplain that adjoin that channel that are required to efficiently carry the discharge of flood waters from a river or stream.
27. Gaining stream – a stream that receives groundwater inputs, usually resulting in well-sustained flows
28. Groundwater – Water that occurs in the subsurface and fills or saturates the porous openings, fractures and fissures of under-ground soils and rock units.
29. Groundwater Recharge – water that returns from the surface to the ground, for instance rain to a stream to the bedrock.
30. Groundwater Withdrawal – water that is removed from the ground, through such means as a well or pipe
31. Harmful Algal Blooms – occur when colonies of algae that produce biotoxins grow quickly in waterbodies, such as rivers, lakes, or estuaries

32. Headwater – a tributary of a stream or river that is located close to its source or origin

33. High Quality (HQ) waters - A Pennsylvania water quality classification given to streams in Pennsylvania that meet specific and high quality chemistry or biological conditions.

34. Hydrologic Cycle – Also called the Water Cycle and describes the continuous movement of water on, above and below the surface of the Earth; including: Evaporation; Precipitation - (rain, snow, sleet, or hail, water vapors cool to form clouds and precipitation); Transpiration (release of water through the leaves of plants)

35. Impervious Surface – any ground cover that prevents the infiltration of water

36. Infiltration – leaching or seepage of water from surface to groundwater

37. Intermittent Stream - A defined channel in which surface water is absent during a portion of the year, as ground water levels drop below the channel bottom.

38. Irrigation – the controlled application of water for agricultural purposes through manmade systems to supply water requirements not satisfied by rainfall

39. Karst terrain – terrain characterized by the dissolving of soluble bedrock, such as limestone or dolomite, resulting in the formation of sinkholes and caves.

40. Leaching – the process by which soluble material in the soil, such as salts, nutrients, and pesticides, are washed into a lower layer of soil or are dissolved and carried away by water

41. Loading - The total amount (generally measured in pounds or kilograms per acre per year) of material (sediment, nutrients, oxygen-demanding material, or other chemicals or compounds) brought into a lake, stream or water body by inflowing streams, runoff, direct discharge through pipes, ground water, the air (aerial or atmospheric deposition) and other sources over a specific period of time (often annually).

42. Losing stream – a stream that loses water as it flows downstream because of infiltration into the ground. Losing streams contribute to recharging groundwater

43. Maximum Contaminant Level (MCL) – the legal limit of the amount of a substance that is allowed in public water systems under the Safe Drinking Water Act

44. MTBE – (methyl-tertiary-butyl ether) an organic compound that is an additive to gasoline and enters the groundwater from a spill or from pipe emissions captured in the atmosphere and returned to earth in the form of rain

45. National Pollutant Discharge Elimination System (NPDES) - Created in 1972 under the Clean Water Act to authorize discharges to local receiving waters only pursuant to government permits, in an effort to reduce point source and nonpoint source pollutants.

46. Net Withdrawal – the total volume of water withdrawn from a system after accounting for the volume of water that is discharged back into the system

47. Nitrates – a compound that forms when nitrogen combines with oxygen or ozone. Nitrate is a common nutrient used as fertilizer (applied as sodium nitrate or potassium nitrate) is a contaminant commonly found in streams and groundwater (can be from on-lot septic, manure applications, lawn fertilizers)

48. Non-Point Source Pollution (NPS) – pollution that results from many sources and cannot be located to a single discharge point, such as stormwater runoff

49. Non-withdrawal Uses – Uses for water, such as hydroelectric generation, that do not result in withdrawing any water from the system

50. Nutrients - Elements or compounds essential to growth and development of living things (e.g., nitrogen, potassium, phosphorus).

51. Nutrient management – the process of managing the amount, source, timing and method of applying nutrients to optimize soil productivity for farming while minimizing
52. Ogallala aquifer – a large shallow aquifer located in the Great Plains of the United States
53. Outfall – the place where a sewer, drain, or stream discharges; or the outlet or structure through which treated water or effluent discharges into a receiving water body
54. Parent material – the geologic material from which soil horizons form
55. Perennial Streams - A defined channel containing surface water throughout the year.
56. Phosphorous (element symbol = P) – a highly reactive, poisonous nonmetallic element used in fertilizers and is a contaminant found in groundwater
57. Point Source Pollutant – anything that makes the water dirty and can be identified or located from one place or site, for instance, a single pipe that is discharging dirty water to a waterway.
58. Pollution – anything that makes the water dirty
59. Potable water – water that is fit to drink
60. Porous – having small spaces or holes through which liquid may pass
61. Precipitation – water deposited on the earth as rain, snow, hail, sleet, dew, or frost
62. Recharge - The replenishment of ground water through the infiltration of rainfall, other surface waters, or land application of water or treated wastewater.
63. Riparian zones – the area next to a river or stream
64. Riparian buffer – a vegetated areas near a stream or river that helps to shade and partially protect the stream from the impacts of adjacent land uses
65. Riverine – relating to or found along a river or inland non-tidal flowing waterbodies.
66. Runoff – the water that flows over the land’s surface to a water body
67. Safe Yield – the amount of water that can be withdrawn from a water resource over a period of time without impairing the long term utility of a water resource.
68. Saturated zone – subsurface zone in which all of the pores and rock fractures are filled with water. This underlies the unsaturated zone.
69. Sediment – loose sand, clay, and other particles that may be transported and suspended in water and settle in areas of low velocity. Sediment can come from soil erosion along stream banks or from areas with disturbed soils.
70. Septic System – process to remove rotten waste, typically referred to facilities constructed or used to remove generated waste (human)
71. Sink Hole – opening in the ground with direct access to the ground water
72. SNAPS – acronym for five common non-point source pollutants – Sediment, Nutrients, Animal Waste, Pesticides, and Salts
73. Soil organic matter – the fraction of the soil that consists of plant or animals tissues in various stages of decay
74. Source Water Protection Plan – a voluntary planning effort a community or water supplier can take to prevent contamination of source water that supplies a public water system
75. Spring - A point where ground water emerges (or seeps out) onto the surface of the ground, often forming the beginning of a stream.
76. Stream - Includes all rivers, creeks, brooks, tributaries and other flowing surface waters within a natural channel.
77. Stormwater Management – the management and control of surface runoff from precipitation events to reduce impacts to water quality
78. Surface Water – where the water comes out of the ground and flows overland, like a wetland, stream, pond, lake, river, bay
79. Total Maximum Daily Load (TMDL) – a regulatory term in the Clean Water Act that defines the maximum amount of a pollutant that an impaired body of water can receive and still meet water quality standards

80. Transpiration – the process by which plants absorb water through their roots and then release water vapor through their leaves and stems

81. Turbidity - Murkiness or cloudiness of water, indicating the presence of suspended sediments, dissolved solids, natural or man-made chemicals, algae, etc.

82. Unsaturated zone – subsurface zone in which pores and rock fractures are not completed filled with water

83. Urbanization – the process of making an area more urban, such as clearing natural land for development.

84. Water Conservation – the practice of using water efficiently to reduce unnecessary water usage

85. Water use Efficiency

86. Watershed – any area of land where precipitation collects and drains off into a common outlet, such as into a river, bay, or other body of water.

87. Water Table- The upper-most level of saturation of pore space or fractures by subsurface water in an aquifer.

88. Wetland – Low-lying areas inundated or saturated by water at a frequency and duration sufficient to support wetland vegetation (e.g. wetlands include such areas as swamps, marshes and wet meadows). Withdrawal Uses

89. Well yield- the rate at which a well provides water, usually in gallons per minute.
From: Criswell, Gaye L.
Sent: Monday, June 1, 2020 7:34 AM
To: Trego, Cory T.
Subject: RE: Envirothon Coaches Meeting Attendance List?
Attachments: summary 2020 Envirothon.docx

Good Morning Cory,

The coaches meeting on January 14, 2020 had an attendance of 30.

The good news – we had a Virtual Envirothon the week of May 18 – May 22, 2020. Each day was a Virtual Challenge and we had a total of 12 students participate!! We had 6 Senior HS – (6 coaches) participate.

I’ve attached the summary as this went out on Friday, May 29, 2020.

Hope all is well!

Stay healthy!

Gaye Lynn Criswell
Outreach Coordinator
Chester County Conservation District
688 Unionville Rd, Suite 200
Kennett Square, PA 19348
www.chesco.org/conservation
610-925-4920 x108

From: Trego, Cory T. <ctrego@chesco.org>
Sent: Wednesday, May 27, 2020 6:03 PM
To: Criswell, Gaye L. <gcriswell@chesco.org>
Subject: Envirothon Coaches Meeting Attendance List?

Hi Gaye Lynn,

We are in the process of compiling our stats for the County’s annual MS4 report. Unfortunately some of our events (trash clean-up, take your child to work day) were canceled due to Covid-19, but we are compiling the work that had been completed towards those events as evidence that we were working to complete our permit requirements. We typically submit the participation numbers for the Envirothon, but since the program could not be completed, can you send me an attendance list from the January 14th coaches meeting?

I hope that you are doing well!
2020 Chester County Envirothon Virtually Lives On

In a world where many events were postponed or cancelled, Chester County Envirothon persevered by partnering with the Pennsylvania Envirothon to bring the first ever Virtual Chester County Envirothon. The PA Envirothon provided virtual daily high school challenges and individual school students participated in a themed online test. An average of 300 students from the state participated each day.

The themed quizzes were sent out each day and were administered by the student’s Envirothon Coach. They had a set amount of time that they worked individually to complete the test. The individual task was accomplished by all the preparation each student made throughout the year with their team and Envirothon coaches.

Our Chester County students had to work on these challenges individually and are the true pioneers of their time. Their “Can Do” attitude is recognized with great respect from all of us at the Chester County Conservation District and Open Space and Park Department. These students studied all year long and are used to working through the environmental challenges of the Envirothon in teams of five. Taking advantage of this opportunity on their own is a great achievement in itself!

 Twelve students from five High Schools participated. The five high schools were: Avon Grove High School; Conestoga High School; Great Valley High School; Henderson High School; and The Academy of WFCS. We would like to thank the coaches, students, and all involved for preparing these students throughout the school year for this unusual event.

The PA Envirothon recognized the top 10 scores each day with a gift card. Chester County’s Ashley Chen of Conestoga High School was in the top 10 for two events Aquatic Ecology and Forestry where she gained a perfect score of 100. Chester County awarded each of the fifteen participants with a Virtual Envirothon Certificate and Envirothon T-shirts and the top scorers of each station for Chester County also received a gift certificate. A Thank-you to all of our sponsors that helped with this year’s virtual Chester County Envirothon.

Our top scorers are as follows:

Day One – Dirty Monday – Soils and Land Use – Susan Deering-Avon Grove High School

Day Two – Trending Tuesday – Water Resources Management – tie Conestoga High School Ashley Chen and Great Valley High School-Jack Schlegel

Day Three – Wildlife Wednesday – 4 way tie – Conestoga High School- Ashley Chen + Great Valley High School-Shreeniket Bendre + The Academy of WFCS- Joey Della Penna and Olivia Della Penna

Day Four – Thirsty Thursday – Aquatic Ecology Challenge – Conestoga High School – Ashley Chen score of 100 points!

Day Five – Forestry Friday – Forestry – Conestoga High School – Ashley Chen – score of 100 points!
"Take Your Child to Work Day"

Thursday, April 23, 2020 is "Take Your Child to Work Day" at the County of Chester.

Below is a list of optional activities for children (ages 6-16) who will accompany their parents/grandparents/guardians to work. The activities are divided among County buildings during the first half of the day - 8:30 to 12:30 p.m. in the West Chester area. If your schedule allows - and with supervisor permission - you may attend activities at any of the buildings. The afternoon will be set aside for the original purpose of Take Your Child to Work Day, which is to allow children to visit their parent’s/grandparent’s/guardian’s place of work and get a glimpse of a typical work day.

GOVERNMENT SERVICES CENTER (GSC)

8:30 - 9:00 am  WELCOME RECEPTION  GSC
Light refreshments served.

9:00 - 10:00  PENN STATE EXTENSION  GSC
"Growing Good Health"
Agriculture Literacy starts with knowing where your food comes from. In this interactive demo from Penn State Extension our Master Gardener Coordinator will show how easy it is to start your own vegetables from seed and our Food Families & Health Educator will give you some healthy & delicious recipe ideas to take home. We'll talk about the importance of plants for the planet and our own health.
**Each child will leave with a seedling and a recipe on how to use it when it grows-up.**

9:00 - 10:00  MHIDD  LIMIT 25 CHILDREN  GSC
"The Monster in all of us."
Join the department of MH/IDD as we explore "the monster in all of us." Come learn about what happens when your monster (amygdala) is activated. We will discuss when your monster is helpful and when your monster needs help calming down. Children will leave with an understanding of the fight, flight, and freeze response as well as create their own sock puppet monster.

9:00 - 10:00  CHESTER COUNTY LIBRARY  LIMIT 40 CHILDREN  GSC
"Book Bingo"
Come and hear what the Chester County Library has in store for kids. Play 'Book Bingo' to win books and prizes!

9:00 - 10:00  EMERGENCY SERVICES  LIMIT 24 (12 CHILDREN/12 ADULTS)  GSC
"Calling 9-1-1"
The 9-1-1 center public education team will provide an interactive environment about how to best handle calling for emergencies. A tour of the 9-1-1 center will be provided.
10:00 - 11:00  
**EMERGENCY SERVICES (AGES 6-12 ONLY)**  
"What happens when an ambulance comes?"

What happens after you call 9-1-1? Why do emergency responders have partners? What happens when an ambulance comes and what does an ambulance look inside? During this action packed session, you will be tasked with finding and staying with a partner, being part of an emergency scenario, going inside a real ambulance and making your own first aid kit!

GSC  
Room 042

10:00 - 11:00  
**PARKS and OPEN SPACE PRESERVATION**  
"Born to Be Wild"

Wild animals don’t just live in far off lands or in deep forests. They live close to us in our yards and parks. Learn about the mammals, birds and reptiles found in Chester County. Study the characteristics of animals as well as the habitat and behaviors of local wildlife. Animal mounts and specimens will be available for you to see up close. The park ranger will discuss the relationship between the land, water and who lives there.

GSC  
Room 351W  
Cafeteria West

10:00 - 11:00  
**HEALTH DEPARTMENT LIMIT 25 (AGES 6-10 ONLY)**  
"Mindful Eating Using MyPlate"

Children will learn what a balanced meal looks like using the MyPlate Resources. How to tell when your body needs fuel, and the importance of giving your body proper nutrition.

GSC  
Room 250

10:15 - 11:00  
**ARCHIVES & RECORDS SERVICES LIMIT 10 (AGES 10-16 ONLY)**  
"Immigrants in Chester County History"

Archives and Records Services preserves the historic records of County government and makes them available to researchers (the oldest record is from 1681). Visitors will see records from the 1700s to the early 1900s and learn how serving in the Civil War helped immigrant men become citizens, which immigrants were most likely to be stone masons, and why Phoenixville was compared to the “wild, wild west.” The visit will include a tour of the storage area, a brief discussion on how the County takes care of records, and a demonstration of the County’s overhead book scanner.

GSC  
Room 080  
(Basement)

11:00 – 12:00  
**PENN STATE EXTENSION**  
"Growing Good Health"

Agriculture Literacy starts with knowing where your food comes from. In this interactive demo from Penn State Extension our Master Gardener Coordinator will show how easy it is to start your own vegetables from seed and our Food Families & Health Educator will give you some healthy & delicious recipe ideas to take home. We’ll talk about the importance of plants for the planet and our own health. **Each child will leave with a seedling and a recipe on how to use it when it grows-up.**

GSC  
Room 339
11:00 - 12:00  
**CHESTER COUNTY LIBRARY**  **LIMIT 40 CHILDREN**  
"Book Bingo"

Come and hear what the Chester County Library has in store for kids. Play 'Book Bingo' to win books and prizes!

11:00 - 12:00  
**WATER RESOURCES**  **LIMIT 25 CHILDREN**  
"Rain to drain: the importance of managing stormwater"

From the water we drink to the streams and lakes in which we play, clean water impacts all Chester County residents. In this session we will explore ways to keep stormwater runoff clean to improve the health of our streams. You will learn about the importance of the County's water resources and we will demonstrate how our actions impact our local water quality.

11:00 - 12:00  
**MHIDD**  **LIMIT 25 CHILDREN**  
"The Monster in all of us."

Join the department of MH/DD as we explore "the monster in all of us." Come learn about what happens when your monster (amygdala) is activated. We will discuss when your monster is helpful and when your monster needs help calming down. Children will leave with an understanding of the fight, flight, and freeze response as well as create their own sock puppet monster.

11:00 - 12:00  
**PLANNING**  
What better way to celebrate Earth week than to talk about one of Chester County's most beautiful and important resources, trees. This presentation will focus on the positive impact woodlands can have on our environment, our health, and our happiness. We will include interactive activities and the children will leave with something they can plant in their own backyards to celebrate Earth day.

11:00 - 12:00  
**EMERGENCY SERVICES**  **LIMIT 24 (12 CHILDREN/12 ADULTS)**  
"Calling 9-1-1"

The 9-1-1 center public education team will provide an interactive environment about how to best handle calling for emergencies. A tour of the 9-1-1 center will be provided.
8:30 - 9:00 am  
**WELCOME RECEPTION**  
Light refreshments served.

8:30 – 9:30  
**SHERIFF'S TOUR/ MCGRUFF THE CRIME FIGHTER  LIMIT 15 (AGES 6-8 ONLY)**  
Justice Center  
(Main Lobby)  
The Sheriff's tour will consist of presentations/demonstrations of metal detectors and x-ray machines, a visit to the prisoner cells, and an overview of the role of the Sheriff and her department.

9:30– 10:30  
**DEPUTY SHERIFF K-9 DEMONSTRATION  LIMIT 30**  
Justice Center  
(Deputy Sheriff Squad Rm, located in the Basement)  
The Sheriff's Department will give a demonstration showing how the department's K-9 unit dogs are trained to identify explosive devices.

9:30 – 10:30  
**DETECTIVES**  
*Crime Scene and Polygraphs*  
Justice Center  
Room 3300  
Join the Chester County Detectives for a presentation on crime scene forensics. Learn about fingerprints and how evidence involved in a crime is identified and collected.

9:30 – 10:30  
**SHERIFF'S TOUR/ MCGRUFF THE CRIME FIGHTER  LIMIT 15 (AGES 6-8 ONLY)**  
Justice Center  
(Main Lobby)  
The Sheriff's tour will consist of presentations/demonstrations of metal detectors and x-ray machines, a visit to the prisoner cells, and an overview of the role of the Sheriff and her department.

9:00–10:00  
**RECYCLING**  
*Less Litter Lunch Challenge*  
313 West Market St.  
HR Training Rm 2  
(4th Floor)  
Do you know how to "recycle right" and reduce your trash? Let's find out!

10:00 - 11:00  
**PARKS and OPEN SPACE PRESERVATION  LIMIT 24 CHILDREN**  
313 West Market St.  
Cafeteria  
(5th Floor)  
"Casting and Camping"  
Park Rangers will demonstrate how to cast a fishing rod (no hooks) and teach children and adults alike the basics of camping and hiking. Try out all the gear you need and learn everything there is to know before you go fishing, hiking, and camping with your family.
MCM #6

BMP #3

TRAINING
John, Dave,
Below is the list of Parks Maintenance staff who attended the Salt and Snow training offered by PennDOT. Hoping this will qualify towards our staff training requirements for County’s MS4 permit.
Thanks!
Jan

From: Bowers, Janet L. <jbowers@chesco.org>
Sent: Monday, February 3, 2020 1:16 PM
To: Dargay, John; Athey, David; Trego, Cory T.
Subject: FW: Salt and Snow Management Training Registration

Jan, below are the staff who attended the salt and snow management training.

Jerry

From: Battisto, Gerald R.
Sent: Monday, February 03, 2020 9:56 AM
To: Bowers, Janet L.
Subject: FW: Salt and Snow Management Training Registration

Jan, below are the staff who attended the salt and snow management training.

Jerry

From: Battisto, Gerald R.
Sent: Thursday, November 14, 2019 1:43 PM
To: Storm, Barbarajean R
Subject: RE: Salt and Snow Management Training Registration

Barbarajean, I had difficulty entering the following additional names for registration. Do you need emails and or can I try again?

Including myself:
Mike Boninu
Dana Lysle
Eric Nurenberg
Bob Able
Wes McCoy
John Vandenberg
Greg Pennell

Thanks,
Jerry

From: Storm, Barbarajean R [mailto:bastorm@pa.gov]
Sent: Thursday, November 14, 2019 9:09 AM
To: Battisto, Gerald R.
Subject: [EXTERNAL] - RE: Salt and Snow Management Training Registration

Hi Jerry,

It was nice talking to you. I was able to create an account for you, with special permissions to add others to classes. See the attached document.

All user names are lower case letters. Please go to the website to change your password to something that you can remember. Your user name is gbattisto and temporary password is Password1

Under the banner is a place on the left hand side marked LTAP Programs. The second tab under this sections talks more about the Roads Scholar Program.

Barbarajean R. Storm
Administrative Assistant
PA Department of Transportation | Bureau of Planning and Research
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400 North Street, 6th Floor | Harrisburg, PA 17120-0064
Phone: 717.783.2446 | FAX 717.783.9152
bastorm@pa.gov | www.penndot.gov

From: Battisto, Gerald R. <gbattisto@chesco.org>
Sent: Thursday, November 14, 2019 8:57 AM
To: Storm, Barbarajean R <bastorm@pa.gov>
Subject: Salt and Snow Management Training Registration

Barbara, nice talking to you this morning. Once I have the complete list of staff requesting registration, I will send it to you.

Thanks,
Jerry

Gerald Battisto
South Region Leader
Hibernia/Nottingham/Wolf’s Hollow County Parks
gbattisto@chesco.org
484-880-7908

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