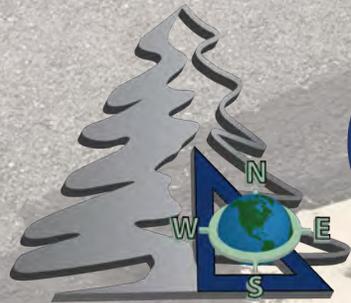




NPDES MS4 Stormwater Management Program

Beth Uhler
MS4 Program Manager

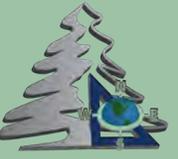


CEG
CEDARVILLE



WESTTOWN TOWNSHIP
Chester County, Pennsylvania, United States

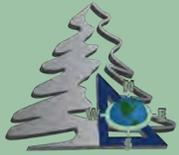
Board of Supervisors Meeting
October 19, 2020



Why is this Program Important?

- **Reduce pollutants into municipal storm sewer systems and streams.**
- **Protect water quality.**
- **It is a state and federal requirement.**

The Township's Program Components



Minimum Control Measures (MCMs)

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

Pollutant Reduction Plan (PRP)

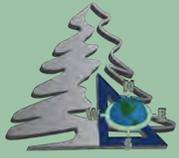
- **Proposed projects to address sediment reduction requirements for stream impairments.**

Total Maximum Daily Load (TMDL) Plan

- **Proposed projects to address sediment and nutrient impairment/TMDL for discharges to Goose Creek.**

Pollutant Control Measures (PCMs)

- **Requirements to address pathogens impairment for discharges to Chester Creek.**



Public Education & Outreach (MCM #1)

SPRING STORMWATER TIPS



CLEAR

Uncover and clean storm drains, gutters, and down spouts to help avoid flooding.



MAINTAIN

Inspect vehicles and other equipment for spills, drips, and leaks.

Plant grass and trees to absorb rain.

Pick up trash and recycle.

Homeowners Guide to Stormwater BMP Maintenance

What You Need to Know to Take Care of Your Property



Pages 1 - 4
Pages 5 - 6
Pages 8 - 22

- 2020 Highlights**
 - ✓ Updated PEOP Program
 - ✓ Updated Target Audience List
- 2021 Goals**
 - ✓ Continue Outreach
 - ✓ Target material to residents regarding drainage concerns

WESTTOWN TOWNSHIP BOARD OF SUPERVISORS REGULAR MEETING
Westtown Township Municipal Building, 1039 Wilmington Pike, Westtown
Monday, October 7, 2019 – 7:30 PM

In attendance were Chair Scott Yaw, Vice Chair Mike Di Domenico, Police Commissioner Rob Pingar, Township Manager Rob Pingar, Public Works Director Mark Gross, Historical Commission and Township Solicitor Stacey Fuller. There were 10 guests.

I. Call to Order
Mr. Yaw called the meeting to order. Mr. Di Domenico was recording the meeting.

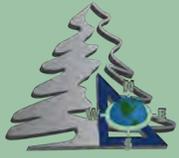
VII. Old Business
A. NPDES
No action.

II. Agenda
Mr. Di Domenico presented the minutes. Mr. Yaw stated that he would request via email. Mr. Yaw stated that he would preceded. He said...



- 2020 Highlights**
 - ✓ This Meeting!
 - ✓ Updated PIPP Program
- 2021 Goals**
 - ✓ Public Meeting
 - ✓ Continue Involvement with Chester Ridley Crum Watersheds Association

Public Involvement and Participation (MCM #2)



Illicit Discharge Detection & Elimination (MCM #3)



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



2020 Highlights

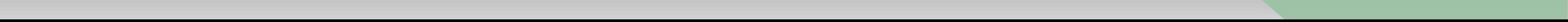
- ✓ Screened 187 Outfalls (100%)
- ✓ Priority Outfall Determination
- ✓ Updated IDD&E Program

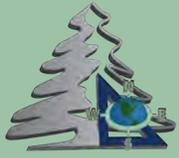
2021 Goals

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

What is a priority area?

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



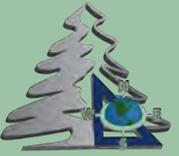


Statewide program for issuing **NPDES Permits for Stormwater Discharges Associated with Construction Activities** through DEP, County Conservation District, and Municipality **PARTIALLY SATISFIES** these permit requirements.

Construction Site Runoff Control (MCM #4)

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

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



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Pottstown, PA 19464
P: 610-705-4500
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WESTTOWN TOWNSHIP - BMP INVENTORY

| BMP # | BMP ID | BMP Type | BMP Address | Responsible Entity | Date Installed | NPDES No. | Latitude | Longitude |
|-------|--------|----------------------------------|-----------------------------------|----------------------------------|----------------|------------------|----------|-----------|
| 1 | 11A | Infiltration Forebay | 900 South Concord Road | Liberty Square Townshouse HOA | 4/13/2011 | PAG2001503090 | 39.9458 | |
| 2 | 2A | Subsurface Infiltration Facility | 750 Westbourne Rd | WCASD - Thornbury Elementary | 6/5/2012 | PAG02001511003-R | | |
| 3 | 2B | Rain Garden/ Bioretention Area | 750 Westbourne Road | WCASD - Thornbury Elementary | 10/23/2014 | PAG020015110 | | |
| 4 | 2C | Water Quality Inlet Insert | 750 Westbourne Road | WCASD - Thornbury Elementary | 10/23/2014 | PAG020015110 | | |
| 5 | 2D-1 | Snout | 750 Westbourne Road | WCASD - Thornbury Elementary | 10/23/2014 | PAG020015110 | | |
| 6 | 2D-2 | Snout | 750 Westbourne Road | WCASD - Thornbury Elementary | 10/23/2014 | PAG020015110 | | |
| 7 | 3 | Subsurface Infiltration Facility | 1470 Johnny's Way | WCASD - Penn Wood Elementary | 4/5/2012 | | | |
| 8 | 7 | Detention Basin | 1568 West Chester Pike | West Chester Jaguar/Land Rover | | | | |
| 9 | 8-1 | Infiltration Basin | Jefferson Center/ Reserve/Gardens | Joseph McCawley | 7/3/2005 | | | |
| 10 | 8-2 | Infiltration Basin | Jefferson Center/ Reserve/Gardens | Joseph McCawley | 7/3/2005 | | | |
| 11 | 9 | Seepage Bed | 1041 Wilmington Pike | Westtown/E Goshen Police Station | | | | |
| 12 | 11B | Detention Basin | 900 South Concord Road | Liberty Square Townshouse HOA | 4/13/2011 | PAG2001503090 | | |
| 13 | 12A-1 | Sediment Forebay | 6 Cavanaugh Ct | St. Simon & Jude Church | | PAG2001503090 | | |

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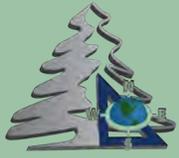
2020 Highlights

- ✓ 81 BMPs (100%)
- ✓ 24 BMPs with violations
- ✓ Updated PCSM BMP Inspection Program

2021 Goals

- ✓ Continue BMP inspection and compliance process





Pollution Prevention & Good Housekeeping (MCM #6)



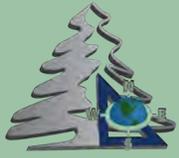
2020 Highlights

- ✓ Municipal Facilities Inspection/Inventory
- ✓ Updated Written Programs
- ✓ Select Staff Training

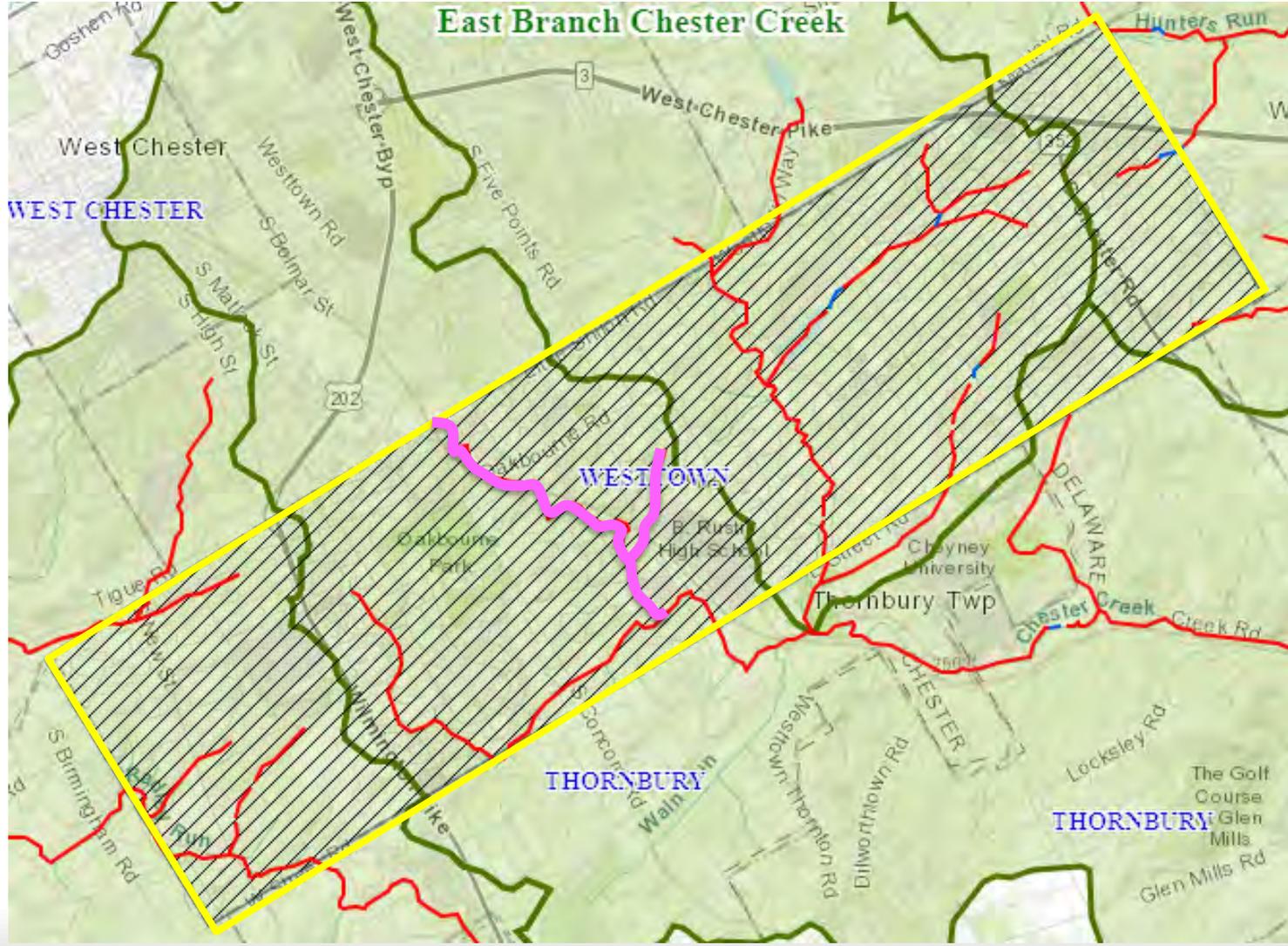
2021 Goals

- ✓ Ongoing Good Housekeeping Practices
- ✓ Staff Training



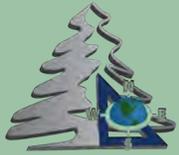


TMDL/Pollutant Reduction Plan



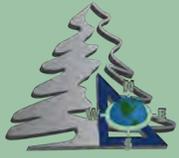
Goose Creek TMDL

All streams impaired for sediment



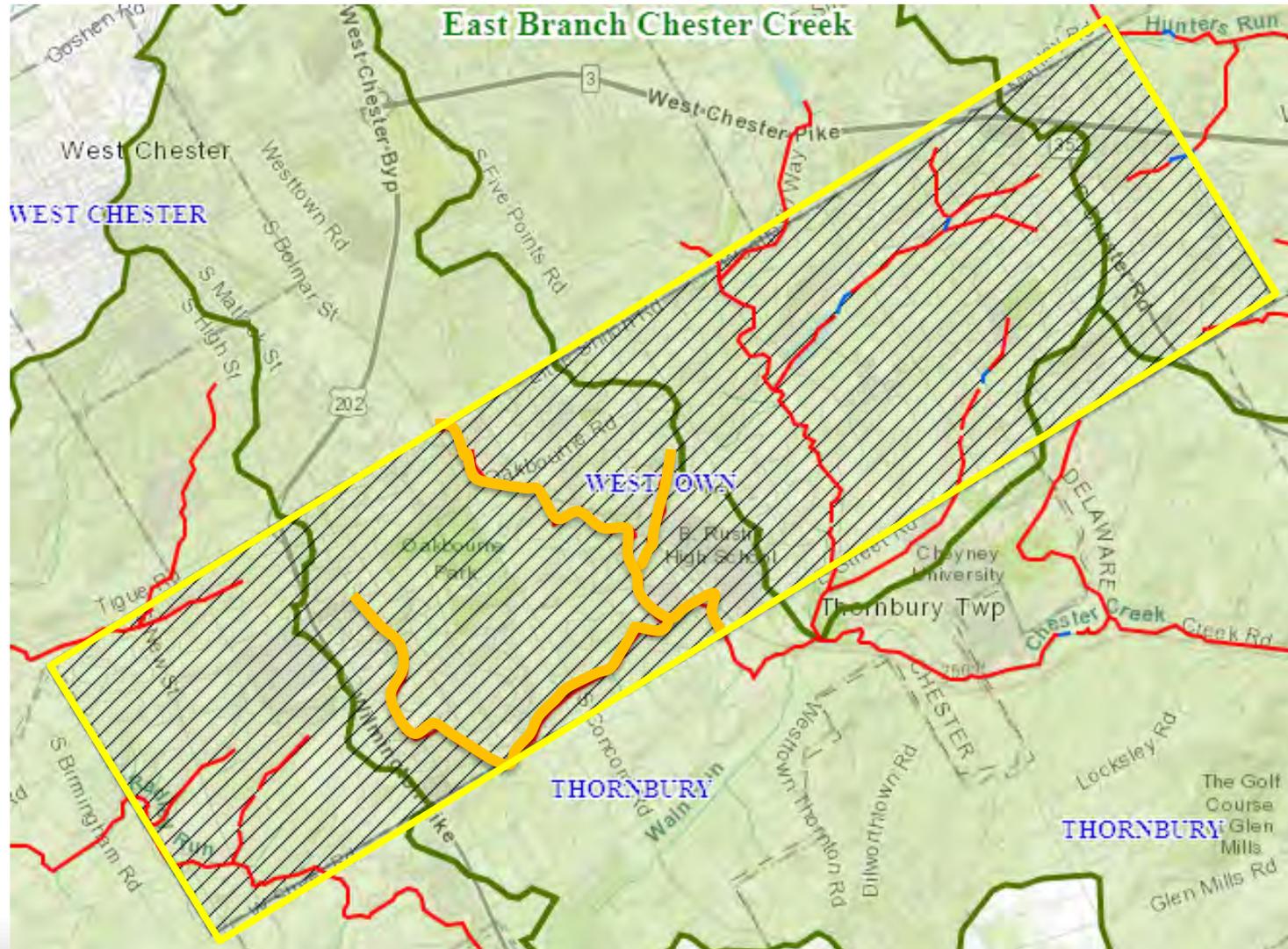
| WESTTOWN TOWNSHIP TMDL/PRP IMPLEMENTATION SCHEDULE | | | | | |
|---|------------------------|---|---|--|-----------------|
| Proposed BMP (2018 preliminary cost estimate) | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |
| | 2020 (PAST) | 2021 | 2022 | 2023 | 2024 |
| Tyson Park Bioswale (installed in 2015) | - | - | - | - | - |
| Thorne Drive Basin Retrofit (\$148,093) | | 1. Proceed with Survey & Design 2. Apply for Funding 3. Construction | - | - | - |
| Sage Road Basin Retrofit (\$71,438) | | 1. Proceed with Survey & Design 2. Apply for Funding 3. Construction | - | - | - |
| Dunvegan Road Basin Retrofit (\$96,486) | | 1. Contact Property Owner | 2. Contact Property Owner | 2. Proceed with Survey & Design 3. Apply for Funding | 4. Construction |
| Wild Goose Farms Basin A Retrofit (\$55,936) | | 1. Contact Property Owner | 2. Proceed with Survey & Design 3. Apply for Funding 4. Construction | | - |
| Wild Goose Farms Basin B Retrofit (\$73,948) | | 1. Contact Property Owner | 2. Proceed with Survey & Design 3. Apply for Funding 4. Construction | | - |
| General Greene Basin A Retrofit (\$88,008) | | 1. Contact Property Owner | 2. Proceed with Survey & Design 3. Apply for Funding | 4. Construction | - |
| General Greene Basin B Retrofit (\$79,256) | | 1. Contact Property Owner | 2. Proceed with Survey & Design 3. Apply for Funding | 4. Construction | - |
| Pleasant Grove Stream Restoration (\$548,514) | | (Feasibility study completed in 2019) 1. Proceed with Survey, Design, & Permitting 2. Apply for Funding | 3. Construction | - | - |
| Radley Run Stream Restoration (\$119,508) | | 1. Contact Property Owner 2. Conduct Feasibility Study | 1. Proceed with Survey, Design, & Permitting | 2. Apply for Funding | 6. Construction |

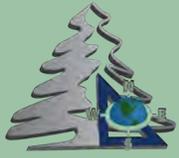




Pollutant Control Measures

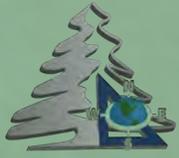
Chester Creek
(Impaired for Pathogens)





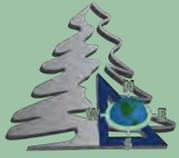
Pollutant Control Measures

| Requirement | Due Date | |
|-------------------------------------|--------------------|---|
| Storm Sewershed Map | September 30, 2021 | ✓ |
| Source Inventory | September 30, 2022 | |
| Source Investigation | September 30, 2023 | |
| Enact Animal Waste Ordinance | September 30, 2023 | |
| Document Progress in Annual Reports | Ongoing | |



What to Expect...

- Continued **Minimum Control Measures**
- **Outfall Screening and Stormwater BMP Inspection**
- Increased emphasis by PA DEP on **Erosion and Sediment Control Program Implementation (MCM #4)** and recordkeeping by MS4s
- Increased emphasis by PA DEP on enforcing **Operations and Maintenance of PCSM BMPs (MCM #5)** and recordkeeping by MS4s
- **Stormwater Ordinance** Updates (by 2022)
- **Pollutant Control Measures (PCMs)** for pathogens in 2022 and 2023
- Design, and construct BMP(s) to achieve **TMDL/Pollutant Reduction Plan** goals by November 30, 2024
- Pollutant reduction requirements **post-2024**
- PA DEP **Inspection**



THANK YOU



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610-705-4500

