

**YOUR ACTIONS  
CAN HAVE A POSITIVE  
IMPACT  
ON OUR COMMUNITY  
WATERWAYS**



# MS4 STORMWATER PROJECTS UPDATE

## Two projects to help satisfy our DEP MS4 stormwater requirements

**1 Comly Avenue Basin Project:** With the help of the borough's Stormwater Engineers, Remington Vernick (RVE), the borough was awarded a Growing Greener Grant which supplies partial funding (\$230,000) for the Comly Avenue Basin Project. This project has already begun (see next page) and we will continue to apply for grants to help complete the project.

For more information on the Comly Avenue Basin Project project, click [here](#) to read an update from RVE or visit the [Stormwater Commission page](#) on the borough website.

**2 Pine Street & Prospect Avenue Swales:** Borough Council approved moving forward to obtain funding to convert two grassy swales into infiltration trenches, then restoring the area back to grass. For more information, turn to page 4 or click [here](#) to review a presentation from RVE.

## A STEP FORWARD

### The Comly Avenue Basin Project will help satisfy Langhorne Manor's DEP MS4 requirements.

#### Phase 1 of the Comly Avenue Project is complete.

Phase 1 included installation of piping and underground structures on the southeast end of the Comly Avenue and Hulmeville Avenue intersection. The coordination between our Borough Manager and the PennDOT bridge project engineers saved the borough money by completing the work while the road was already open. The installations redirect stormwater runoff away from railroad outfalls and towards Neshaminy Creek. When the full project is complete, the borough will receive MS4 credits towards sediment reduction in the Neshaminy Creek Watershed.

#### Next steps.

The next phases of the project include fully engineering the basin design, and construction of the basin itself in the grassy area between Comly Avenue and the railroad.

#### How will this impact our requirements?

- Dry Extended Detention Basin earns a 60% sediment reduction credit, as per PA DEP
- Drainage Area = Approximately 16 acres
- MS4 proposed credits = Approx. 6,800 lbs/year (65.5% of credits needed for Neshaminy Creek watershed)
- MS4 credits left for the 10% Reduction for Neshaminy Creek watershed =  $10,378 - 6,800 = 3,578$  lbs/year

#### LMB Stormwater Reduction Timeline

**Impaired Watersheds:**  
Neshaminy Creek Watershed (TMDL/PRP) and Mill Creek Watershed (PRP)

**2019:** Approval of the borough's initial plan to meet its sediment/pollutant reduction goals.

**Nov 2024:** Current deadline for the borough to reach 10% sediment reduction for each watershed.

- Neshaminy Creek  
10,378 lbs/year reduction
- Mill Creek  
7,326 lbs/year reduction

**Neshaminy Creek has an additional obligation for 29.9% total sediment reduction (total of 31,031 lbs/yr), recommended by RVE to be completed by 2029.**

**Did you know?** Pennsylvania has a longer and more varied fall foliage season than any other state in the nation – or anywhere in the world.



## WHAT ARE THE NEXT STEPS?

The borough is currently pursuing funding to implement a swale conversion project to address requirements for both the Neshaminy and Mill Creek Watersheds. The project would convert two current grassy swales into grass-covered infiltration trenches.

## Locations

### Neshaminy Creek Watershed

West Prospect Avenue (North side of street, between Station Ave and Hulmeville Ave) – est. 6,774 lbs/year of sediment reduction.

This location was selected in part to preserve large shade trees and avoid utility poles.

### Mill Creek Watershed

Pine Street (East side of street, between 805 Pine Street and Manor Avenue) – est. 9,097 lbs/yr of sediment reduction.

## Acronyms

- + **MS4:** MUNICIPAL SEPARATE STORM SEWER SYSTEM
- + **NPDES:** NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
- + **SWM:** STORMWATER MANAGEMENT
- + **MCM:** MINIMUM CONTROL MEASURES
- + **TMDL:** TOTAL MAXIMUM DAILY LOAD
- + **WLA:** WASTE LOAD ALLOCATION
- + **PRP:** POLLUTION REDUCTION PLAN
- + **PCM:** POLLUTANT CONTROL MEASURES
- + **BMPS:** BEST MANAGEMENT PRACTICES (BASINS, RAIN GARDENS, INFILTRATION TRENCHES, PERMEABLE PAVERS)
- + **E&SC:** EROSION AND SEDIMENT CONTROL
- + **IMPAIRMENTS**
  - SEDIMENT:** TOTAL SUSPENDED SOLIDS (TSS)
  - NUTRIENTS:** TOTAL PHOSPHORUS (TP), TOTAL NITROGEN (TN)
  - POC:** PRIORITY ORGANIC COMPOUNDS (PCBS, PESTICIDES)
  - PCBS:** POLYCHLORINATED BIPHENYLS (OILY LIQUIDS OR SOLIDS, WIDELY USED IN ELECTRICAL EQUIPMENT LIKE CAPACITORS AND TRANSFORMERS)
  - PATHOGENS:** BACTERIA, FECAL COLIFORM IN PARTICULAR (SEWAGE AND PET WASTE)

## A GENTLE REMINDER...

Please refrain from placing discarded holiday trees or any other items in wooded areas or borough greenspace, as this can negatively impact biodiversity and watershed health.





*For more information on our stormwater initiatives, be sure to visit our website!*

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