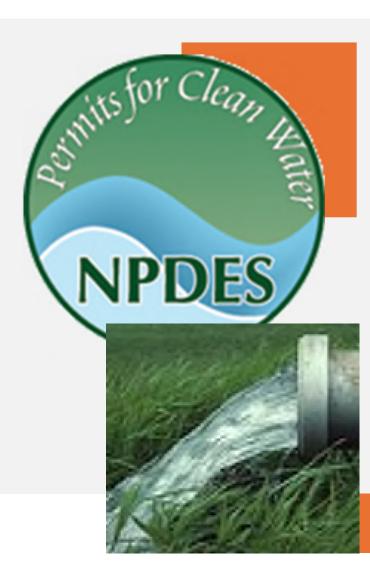


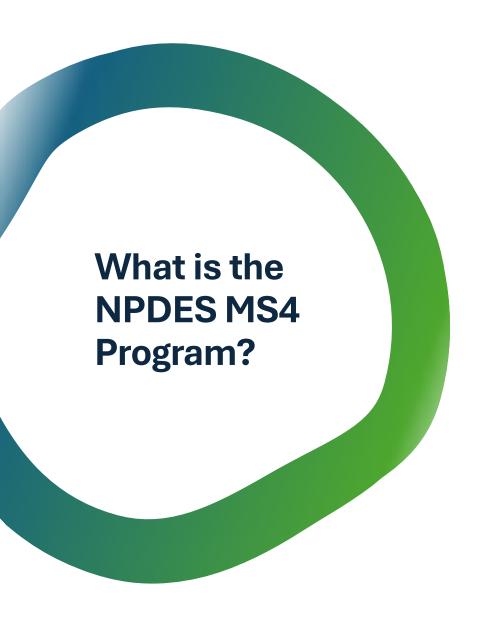
# What is the NPDES MS4 Program?

<u>N</u>ational <u>P</u>ollutant <u>D</u>ischarge <u>E</u>limination
 <u>S</u>ystem

Municipal **S**eparate **S**torm **S**ewer **S**ystem

- Federally Mandated Permit Program (enforced by EPA)
- DEP administers the Program in Pennsylvania
- Ultimate goal for this Program
  - Recognize and increase awareness of stormwater as a point-source pollutant
  - Manage stormwater as you would any other point-source pollutant (like sewage)





- Implement <u>B</u>est <u>M</u>anagement
  <u>P</u>ractices (<u>BMPs</u>) under Six (6)
  <u>M</u>inimum <u>C</u>ontrol <u>M</u>easures (<u>MCMs</u>)
  - 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

## What can residents do to help keep the waterways clean?

#### Car Care

- · Use water friendly soaps when washing your car
- Prevent the water from reaching the stormwater drain
- · Check for leaks frequently and Clean up any spills

### Yard Care

- Clean up after pets
- Consider planting a rain garden and/or more trees
- If you fertilize use sparingly and follow directions
- Rake leaves and grass clippings away from stormwater drains
- Mow high (leave grass blades 3 inches tall)

### Snow

 Pile your snow where it is most likely to soak into the ground not into a stormwater drain

### Miscellaneous

- Properly dispose of hazardous substances
- Report discharges from stormwater outfalls
- Store materials that could pollute stormwater indoors
- Pick up any trash on sidewalks to keep it from entering the stormwater drains



### Signs of Pollution

- Discolored or muddy water
  - Brown, green, or other unusual colors
- Sheen, film or foam
- Odor
  - Strong, acrid
  - Smells of sewage, chemicals or petroleum
  - Fumes
- Garbage, debris
- Dead fish
- Algal blooms
  - Green water
  - Excessive aquatic plant growth



## What is a Pollutant Reduction Plan?

Reduce the sediment load by 10% to **Jericho Creek** over the 5-year permit term.

- Rain Gardens
- Basin Retrofits
- Stream Restoration
- Riparian Buffer Enhancement
- New Stormwater Management Facilities



## Pollutant Reduction Plan Process

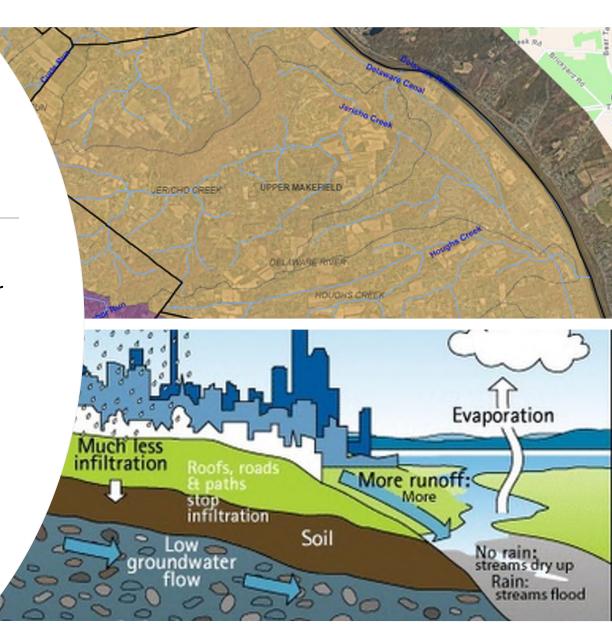
- 1. Map Stormwater Infrastructure (GIS)
- 2. Delineate Storm Sewersheads
- 3. Determine Existing Pollutant Loads
- 4. Identify Potential BMPs
- 5. Desktop Review/ Field Investigations for Site Suitability
- 6. Propose BMPs/ Quantify Pollutant Load Reductions
- 7. Finalize Report
- 8. Public Participation



## Upper Makefield Pollutant Reduction Plan

 Jericho Creek in Upper Makefield is considered impaired by DEP for sediment.

 The Plan was approved by DEP in November 2024, and a project must be completed by 2029.





## **Next Steps**

- 1. Apply for grant funding for a sediment reduction project.
- 2. Implement a restoration project on Jericho Creek.
- 3. Continue compliance with annual MS4 requirements.
- 4. Monitor requirements for next permit cycle.

### For additional Information:

 https://uppermakefield.org/preserva\* stormwater-management/

The goal is "Only Rain Down Your Drain"