

When It Rains, It Drains

**An Overview of
Our Community's New
Storm Water
Management Program**





Clean Water

Let's Talk About. . .

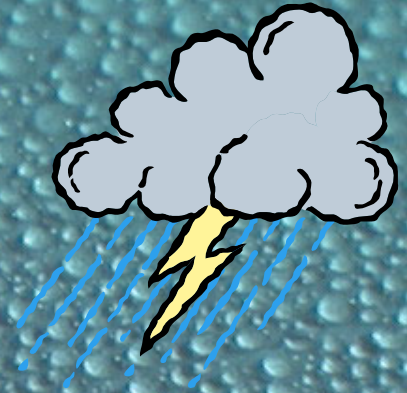
- ❓ What storm water is and why it can be a problem in our community.**
- ❓ What our community is doing to manage storm water and how these activities will benefit us.**

What is Storm Water?

Rain events

Snow melt

Other surface runoff and drainage



Where Does Storm Water Go In Our Community?

- ❑ Travels over land
- ❑ Carried through municipal separate storm sewer system (MS4)
- ❑ Discharges into (insert name of water bodies)

A "Point" of Confusion: Point Source vs. Nonpoint Source

? POINT source

- Travels through a conveyance system
- Regulated under permit program

? NONPOINT source

- Runoff that is not a point source
- Addressed through voluntary programs

Why is Storm Water a Problem?

❑ Problem: Decrease in quality

❑ Problem: Increase in quantity

❑ Cause: Developed and disturbed land











Why is Storm Water a Problem?

❑ **Problem: Non-storm water discharges enter systems**

❑ **Cause: Illicit discharges**

❑ **Cause: Illicit connections**



household wastewater
(toilet, sinks, etc.)

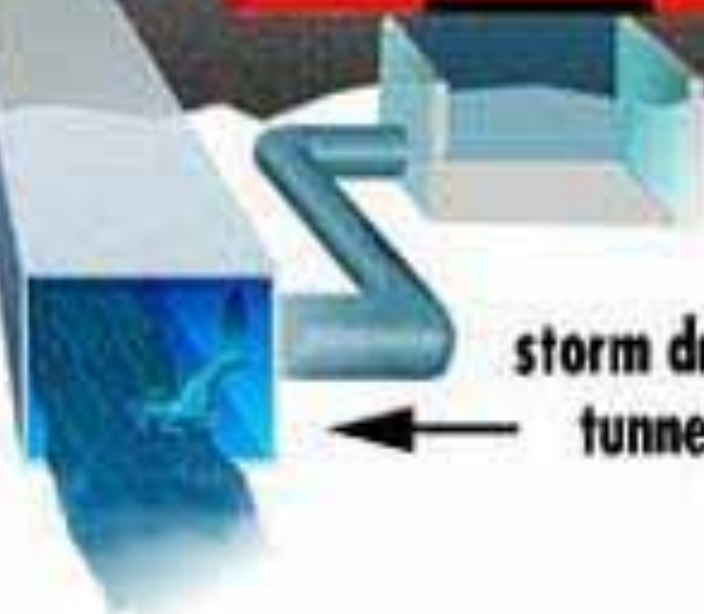


catch basin

sewer pipe →



storm drain
tunnel ←



**2 UNDERGROUND
SYSTEMS**

Storm Water Pollutants

Sediment

Nutrients

Bacteria

Oxygen Demand

Oil and Grease

Trace Metals

Toxic Chemicals

Chlorides

Thermal
Impacts

PA Water Quality and Storm Water Impacts

- ❑ **Total of 83,438 stream miles in PA Assessed**
 - Total of approximately 86,000 miles in PA
- ❑ **24.2% of assessed waters are impaired**
- ❑ **Urban runoff #3 source of impairment**
 - 4,325 miles of rivers and streams
 - 21.4% of all impaired river and stream miles

**Now We Know About
Storm Water and Its
Impacts on Our
Community. . .**

**But What Are We
Doing About It?**

Storm Water Permit Program for Small Communities

- ❑ **New federal regulation requires permit for our community**
- ❑ **PA DEP created state permitting program to meet federal regulation**

What Does Our Permit Require?

- Implement a storm water management program
- Track progress toward goals
- Report on our progress

Our Storm Water Program

☐ Public Education

**☐ Public
Involvement**

**☐ Construction Site
Runoff
Management**

**☐ Post-Construction
Storm Water
Management**

**☐ Illicit Discharge
Detection and
Elimination**

**☐ Good
Housekeeping
and Pollution
Prevention**

Public Education and Outreach

- ❑ **Distribute educational materials developed by PA DEP**
- ❑ **Develop outreach plan for community**

Public Involvement/Participation

- ❑ Provide public notice
- ❑ Create an public involvement plan
- ❑ Hold a public meeting on the program
- ❑ Start a volunteer program
 - Water Quality Monitoring
 - Storm Drain Stenciling
 - Stream Clean-Ups

Illicit Discharge Detection and Elimination

- ❑ Enact DEP's model ordinance or update our existing ordinance**
- ❑ Develop storm sewer system map**
- ❑ Implement program to detect non-storm water in system**
- ❑ Educate community on problems related to dumping in storm sewers**

Construction Site Storm Water Runoff Control

- ❑ Enact DEP's model ordinance or update our existing ordinance

- ❑ Coordinate with County Conservation District
 - Erosion and Sediment Control Program
 - NPDES Construction Storm Water Permitting

- ❑ Educate construction industry

Post-Construction Storm Water Management

- ❑ **Adopt PA DEP's model storm water management ordinance**
- ❑ **Ensure proper operation and maintenance of post-construction controls**

Pollution Prevention/ Good Housekeeping

- ❑ Implement O & M program that focuses on pollution prevention**
- ❑ Train community employees on good housekeeping practices**
- ❑ Educate community on pollution prevention**

**How Will Our
Storm Water
Program Benefit
Our Community?**



Expected Benefits of Our Storm Water Program

- ❑ Enhanced fishing
- ❑ Enhanced opportunities for recreation
- ❑ Reduced flood damage
- ❑ Drinking water benefits
- ❑ Navigational benefits
- ❑ Reduced illness
- ❑ Enhanced aesthetic value

How Can You Get Involved?

- ? Pass on information about the storm water program to other community residents**
- ? Report any storm water issues to (insert name of appropriate contact)**

For More Information. . .

? (Insert appropriate names, phone numbers, email addresses, web sites, etc.)