When It Rains, It Drains

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

Clean Water
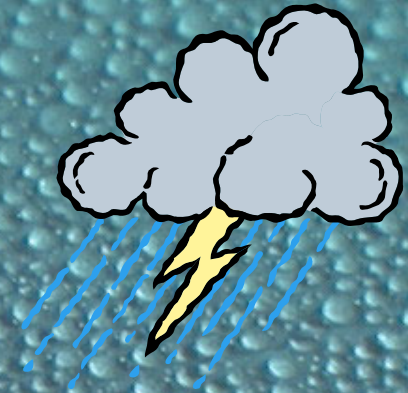
Let's Talk About. . .

- **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 Mill Run, Spring Run, and other tributaries of the Little Juniata & Juniata Rivers.**

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**

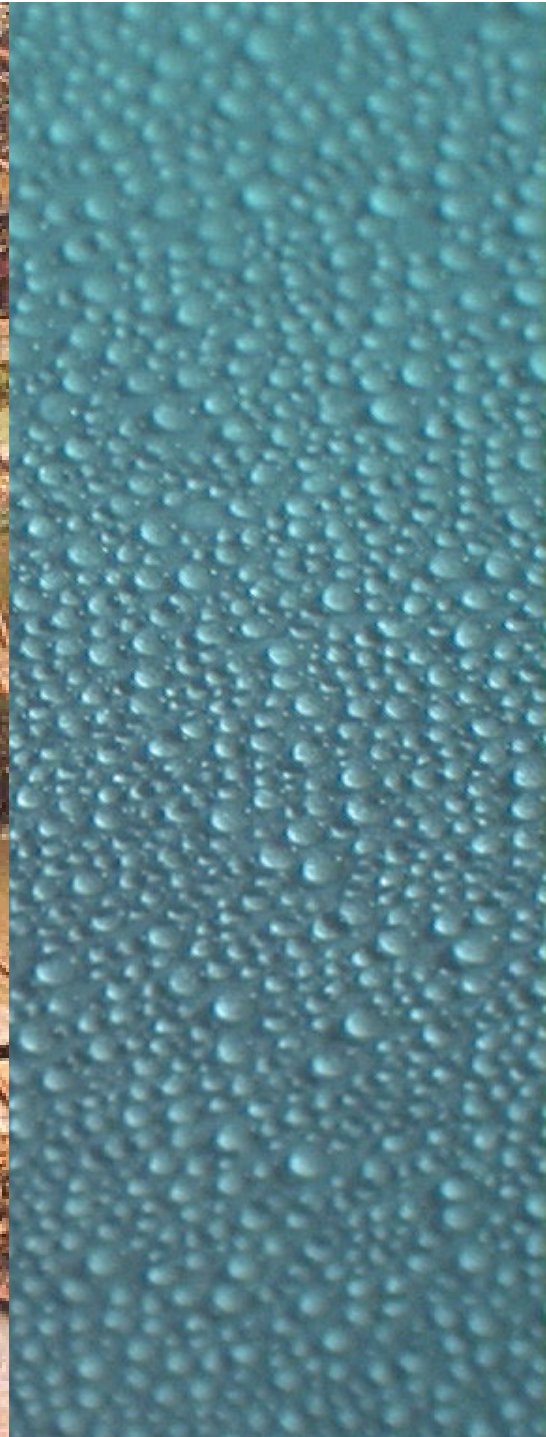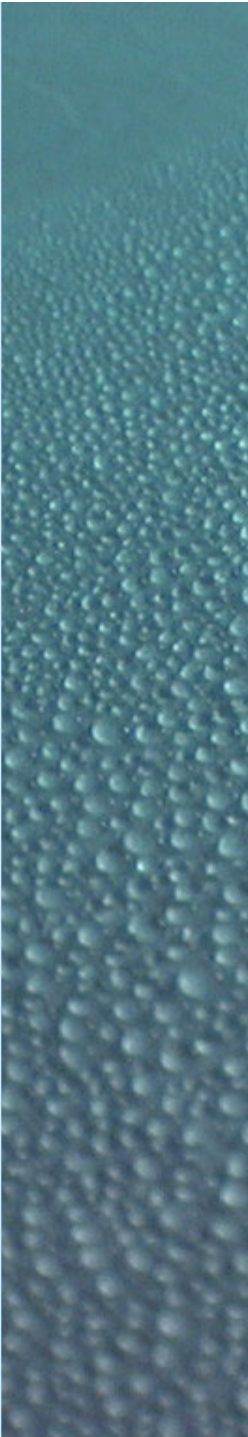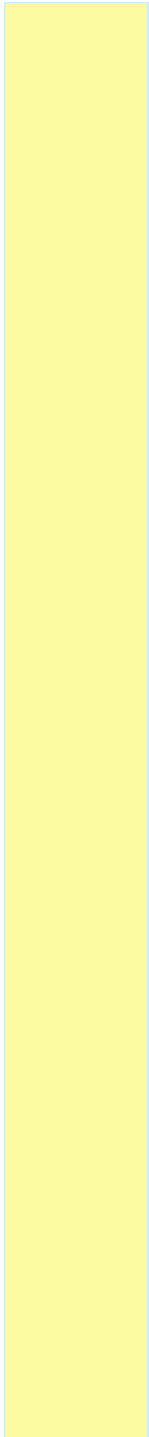- **Cause: Developed and disturbed land**

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 83,161 stream miles in PA**
  - 54% of total assessed

- **18.1% of assessed waters degraded**

- **Urban runoff #3 source of impairment**
  - 1187 miles of rivers and streams
  - 14.5% of all impaired river and stream miles

From 2001 305(b) Report Update

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**

- **Construction Site Runoff Management**

- **Illicit Discharge Detection and Elimination**

- **Public Involvement**

- **Post-Construction Storm Water Management**

- **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:**
  Scott A. Campanaro at 949.2453 or scampanaro@altoonapa.gov

For More Information. . .

- See www.Altoonapa.gov and look under "Stormwater" or call:

  Scott Campanaro at 949.2453 (scampanaro@altoonapa.gov)