

When It Rains, It Drains

**An Overview of
New Stanton Borough's
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 New Stanton Borough?

- **Travels over land**
- **Carried through municipal separate storm sewer system (MS4)**
- **Discharges into nearby creeks or streams (Sewickley Creek)**

Point Source vs. Nonpoint Source

- **POINT source discharge**
 - Travels through a conveyance system
 - Regulated under permit program
- **NONPOINT source discharge**
 - 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**









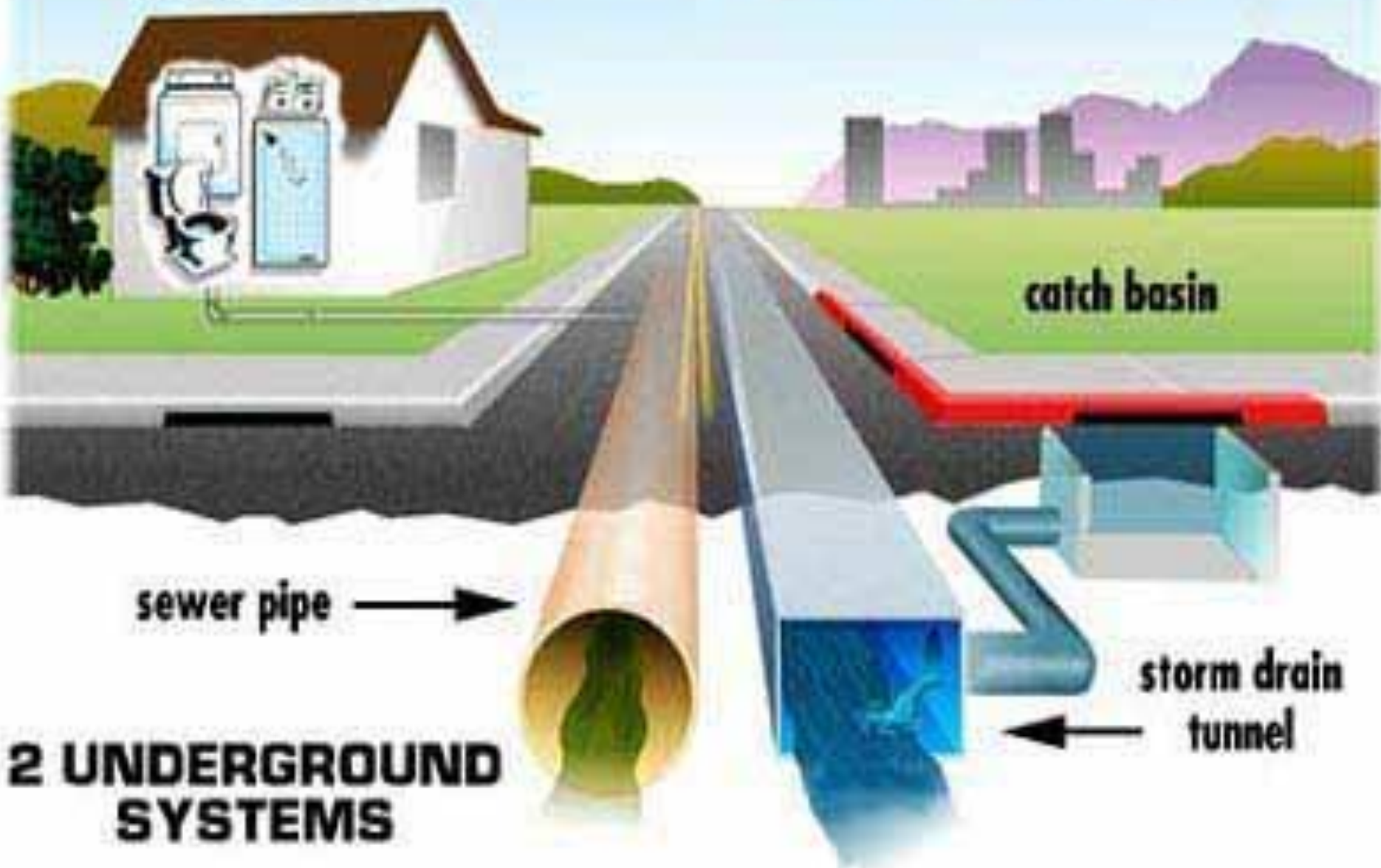


Non-Storm Water Discharges

- **Problem:** Non-storm water discharges contribute to decrease in receiving stream water quality
- **Cause:** Illicit discharges
- **Cause:** Illicit connections



household wastewater
(toilet, sinks, etc.)



Storm Water Pollutants

- Sediment
- Nutrients (N, P)
- Bacteria
- Biochemical Oxygen Demand
- Oil and Grease
- Trace Metals
- Toxic Chemicals (herbicides, pesticides)
- 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 (NPDES Phase II Storm Water Program)

- **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 consisting of six minimum control measures**
- **Track progress toward goals**
- **Report on our progress**

Our Storm Water Program

(Six Minimum Control Measures)

- **Public Education**
- **Public Involvement**
- **Illicit Discharge Detection and Elimination**
- **Construction Site Runoff Management**
- **Post-Construction Storm Water Management**
- **Good Housekeeping and Pollution Prevention**

Public Education and Outreach

- **Distribute educational materials developed by PA DEP and US EPA**
- **How to distribute educational material throughout the community**

Public Involvement/Participation

- **Provide public notice of upcoming meetings, events, etc.**
- **Identify and reach out to local groups**
- **Hold public meeting on the program**
- **Foster and support volunteer programs**
 - **Water Quality Monitoring**
 - **“Dump No Waste” Storm Drain Stenciling**
 - **Stream and Street Clean-Ups**

Illicit Discharge Detection and Elimination

- **Updating existing storm water ordinance with language prohibiting non-storm water discharges**
- **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

- **Update existing storm water ordinance to address construction site storm water management**
- **Continue Coordination with Westmoreland County Conservation District**
 - **Erosion and Sediment Control Program**
 - **NPDES Construction Storm Water Permitting for Regulated Earth Disturbance Activities**
- **Educate construction industry**

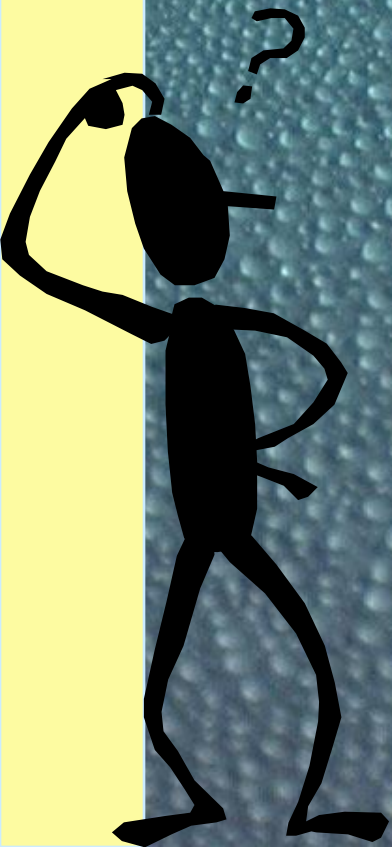
Post-Construction Storm Water Management

- **Updating existing storm water management ordinance to include storm water quality control and infiltration**
- **Ensure proper operation and maintenance of post-construction controls**

Pollution Prevention/ Good Housekeeping

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

**How Will
New Stanton's
Storm Water
Program Benefit
Our Community?**



Expected Benefits of Our Storm Water Program

- **Enhanced fishing**
- **Enhanced opportunities for recreation**
- **Reduced flood damage**
- **Improved drinking water quality and lower treatment costs**
- **Reduced risk of 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 the New Stanton Borough office by calling 724-925-9700**

For More Information. . .

- Visit Pennsylvania DEP website at www.dep.state.pa.us directLINK "stormwater"
- Visit the US EPA website at www.epa.gov/npdes/stormwater
- Look for the Homeowner's Guide to StormWater and other info on our website or at the New Stanton Borough office