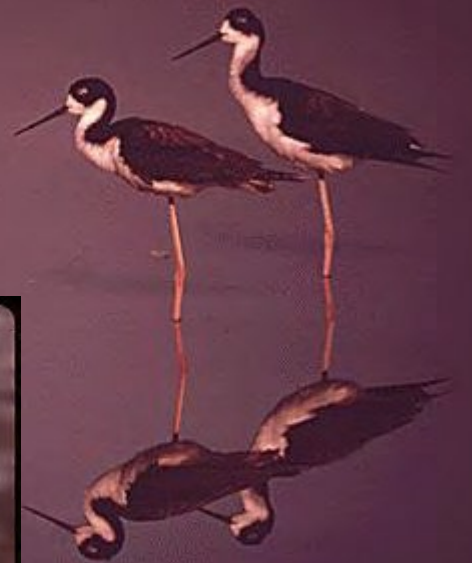


# Storm Water in East Huntingdon Township

An Overview of the East  
Huntingdon Township'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 East Huntingdon Township?

- **Rainfall and/or snowmelt travels over land**
- **Collects in tributaries or is carried through municipal separate storm sewer system (MS4)**
- **Discharges into nearby creeks or streams (Loyalhanna Creek, Ninemile Run, Monastery Run, etc.)**



# Point Source vs. Nonpoint Source

- **POINT source discharge**
  - Travels through a conveyance system
  - Regulated under MS4 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.)



catch basin



sewer pipe →



storm drain  
tunnel ←



**2 UNDERGROUND  
SYSTEMS**



# Storm Water Pollutants

- Sediment
- Trace Metals
- Nutrients (N, P)
- Toxic Chemicals (herbicides, pesticides)
- Bacteria
- Chlorides
- Biochemical Oxygen Demand
- Thermal Impacts
- Oil and Grease



# PA Water Quality and Storm Water Impacts

- **Total of 83,161 stream miles in PA**
  - 68,333 miles (82% of total) assessed for aquatic life support as of Year 2006
- **11,136 stream miles (16.3% of assessed waters) degraded**
- **Urban runoff #3 source of impairment**
  - 1,883 miles of rivers and streams
  - 16.9% of all impaired river and stream miles in PA

Source: 2006 PA State CWA 305(b) Report



**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 MS4 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 and Outreach**
- Illicit Discharge Detection and Elimination**
- Post-Construction Storm Water Management**
- Public Involvement**
- Construction Site Storm Water Management**
- Good Housekeeping and Pollution Prevention**



# **Public Education and Outreach**

- Distribute educational materials developed by PA DEP and US EPA**
- Raise public awareness about storm water**



# 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**

- Adopt storm water ordinance prohibiting non-storm water discharges into MS4**
- Develop MS4 outfall map**
- Implement program to detect non-storm water in the MS4 system**
- Educate community on problems related to dumping in storm sewers**



# **Construction Site Storm Water Runoff Control**

- Adopt storm water ordinance to address construction site storm water management requirements**
- 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**

- Maintain and update storm water management ordinance that addresses storm water quantity and quality control requirements**
- 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 Our  
Storm Water  
Program Benefit  
Our Community?**





# **Expected Benefits of Our Storm Water Program**

- Enhanced fishing/recreation opportunities**
- Reduced flood damage**
- Improved drinking water quality and lower treatment costs**
- Reduced risk of illness**
- Enhanced aesthetic value**



# For More Information. . .

- Visit Pennsylvania DEP website at [www.dep.state.pa.us](http://www.dep.state.pa.us) directLINK "stormwater"
- Contact the East Huntingdon Township Supervisors' Office (724) 887-6141
- Visit the US EPA website at [www.epa.gov/npdes/stormwater](http://www.epa.gov/npdes/stormwater)