



Turtle Creek Watershed Association

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**Need an Informative
Program
for Your Group?**

Let's Design a Program for Your Group, or Choose 1 of These 3

Strictly environmental? No. Each program looks at the real world relationships among economics, health and safety, recreation, community competitiveness, and our local water quality and quantity issues.

Turtle Creek Watershed Association

What in the world is a watershed? And I'm not sure I ever heard of the Turtle Creek Watershed Association - have you?

Stormwater-related Issues and Their "Hidden" Costs

Few of us think much about stormwater. It collects in gutters and along curbs, goes down pipes, and disappears. Or does it?

Abandoned Mine Drainage (AMD) Orange Streams & Milky Water: Sources and Solutions

With few resources to attack the problem, we need to understand the facts and get creative about the solutions.

Turtle Creek Watershed Association

Do I live in a watershed?
Do I care about what happens in a watershed?
I don't live near a stream, fish, hike, or canoe - how does any of this affect me?



- Answers to basic questions about watersheds in general and TCWA specifically

- Interactive model shows watershed features and concepts to kids of all ages

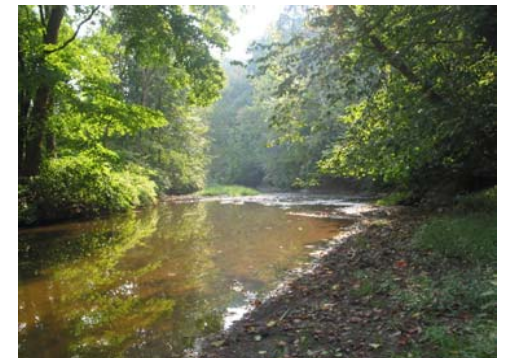
- Basic facts about the watershed itself (147 square miles from Greensburg to the Edgar Thompson Works on the Mon)

- Brief summary of TCWA's 36 year history

- Overview of our four current areas of activity - community outreach, multi-municipal planning, abandoned mine drainage and stream restoration



EnviroScape Model ®



Turtle Creek Gorge



West Fork of Haymaker Run Restoration Project Volunteers

Stormwater-related Issues and Their "Hidden" Costs



Eight fundamental issues:

- Combined sewer overflows and sanitary sewer overflows
- Drinking water source contamination
- Erosion and sedimentation
- Flooding and flood prevention
- Habitat destruction
- Infrastructure maintenance and replacement
- Lowered water tables
- Streambank destabilization

Cause & effect discussion of:

- Expanding development
- Flawed traditional storm water management practices
- Increasing local, county, state, and federal taxes,
 - Rising costs for flooding and flood-related risks and damages
 - Decreased community appeal and property values
 - Direct impacts to our local economies
- New technology available
- Steps you can take



Abandoned Mine Drainage (AMD) Orange Streams & Milky Water: Sources and Solutions

200 year coal mining history:

- Rise of the southwestern Pennsylvania region based upon the mining industry and the complementary iron & steel industries
- Success in both World Wars due in large measure to the contributions of industrialized cities like Pittsburgh

Mining legacy:

- degraded land
- contaminated ground water
- few remediation dollars
- creative challenges

New technology:

- Active treatment options
- Passive treatment options
- Restoring land
- Cleaning water
- Recovering usable products from wastes

Watershed projects:

- Delmont Mine - Turtle Creek
- Export Mine - Turtle Creek
- Irwin Mine - Brush Creek
- Lyons Run Mine - Lyons Run
- Thompson Run

