

What Is *Working at a Watershed Level*?

Working at a Watershed Level is a course developed by a consortium of federal agencies, state and local groups, and private organizations to improve cross-agency watershed training. The course provides a basic but very broad foundation for considering both ecological and socioeconomic issues in watershed work across a wide range of public and private organizations. One of the motivating forces for developing the course was the need for a more cooperative, coordinated approach to watershed management and a common orientation to the science and societal issues involved.

The Interagency Watershed Training Cooperative provided leadership for developing the course. The Cooperative is composed of representatives from the U.S. Environmental Protection Agency (EPA), Natural Resources Conservation Service, U.S. Fish & Wildlife Service, Bureau of Land Management, Bureau of Reclamation, U.S. Forest Service, and U.S. Army Corps of Engineers. The Council of State Governments, International City/County Management Association, Ecological Society of America, and other partners assisted with the final curriculum design and content.

This course is offered primarily through the sponsorship of the Office of Surface Mining. Co-sponsors include Eastern Coal Regional Roundtable; U.S. EPA; Tennessee Valley Authority; Virginia Department of Mines, Minerals, and Energy; Black Diamond Resource Conservation and Development Council; and Tetra Tech, Inc.

Course Objectives

Although it is recognized that public and private organizations will continue to have unique needs and somewhat discrete processes for watershed planning, management and restoration, it is hoped that *Working at a Watershed Level* will help to develop a broad, common framework that can accommodate the wide range of interests involved. Though public agencies and private interests might have slightly different requirements and approaches, they can only benefit by working together in a watershed. The course focuses on mining issues, agriculture, TMDLs, silviculture, and storm water management.

Target Audience

The course is designed for watershed group members, public agency staff, and representatives from the private sector. Teaching tools include presentations from experienced practitioners, regional case studies, an exhibition area, and a workshop notebook. The level of instruction will be appropriate for both new and experienced participants. Trainers from OSM, US EPA, Tetra Tech, and regional watershed organizations will lead the workshop.

Course Content

Working at a Watershed Level is a two-day workshop covering the Clean Water Act, assessment and analysis, planning methodologies, restoration and management approaches, coal mine drainage, agriculture and urban issues, public involvement strategies, and outreach program development.

Agenda

Day 1: Watershed Health, the Clean Water Act, and TMDLs

Watershed Health & Assessments

- Attributes of a Healthy Watershed
- Measurable Watershed Health Indicators
- Best Management Practices Overview

Introduction to the Clean Water Act

- The National Pollutant Discharge Elimination System, Storm Water, CAFOs, & CSOs
- Water Quality Standards: Designated Uses for Surface Waters
- Use-Based Water Quality Criteria
- Antidegradation and Tiered Levels of Protection
- CWA Section 319 – Nonpoint Source Pollution

CWA Section 303(d) Overview

- Data Sources, Listing Approaches, and Use Attainability Analyses
- Total Maximum Daily Loads (TMDLs): Focusing Water Quality Restoration Efforts
- Parts of a TMDL and Process for TMDL Development
- Public Involvement in Assessment, Load Allocation, and Implementation

Day 2: Watershed Assessment, Planning, and Management

Outreach, Education, Stakeholder Involvement

- Six Steps for Effective Outreach
- Engaging and Involving Local Officials
- Facilitation and Decision-Making Approaches

Issue Focus: Urban Impacts on Water Quality

- Hydraulic and Hydrologic Impacts
- Nutrients, Pathogens, Sediment, and Toxics
- Case Study: Managing Urban Runoff

Issue Focus: Contaminated Mine Drainage

- Hydrologic, Chemical, Physical, and Biological Impacts
- Remediation Approaches: Prevention, Treatment, and Remining

Issue Focus: Agricultural Impacts

- Erosion and Sedimentation from Row Crop Lands
- Impacts from Animal Feeding Operations
- Best Management Practices for Agricultural Lands



Registration Form

Please fill out this form, or a copy of it, and mail it to the address below with the \$10 registration fee.

Check-in will begin at 8 a.m. on Monday, May 5, 2003

Working at a Watershed Level Training Workshop

May 5-6, 2003

Holiday Inn, Bristol, Virginia

Name: _____

Title: _____

Organization: _____

Address: _____

Phone: _____ E-mail: _____

Will you be bringing a tabletop or other display? Yes No

Please mail this registration form with the \$10 registration fee to:

Eastern Coal Regional Roundtable

C/O Black Diamond RC&D

383 Highland Drive, Suite 2

Lebanon, VA 24266

Confirmation of your registration will be provided by email or phone. Thanks!

Registration is also available at our Web site: www.watershedtraining.net/.

Click on the Training Workshop called "Working at a Watershed Level".

Confirmation of your registration will be sent via e-mail or phone. Thanks!

Logistics:

Maps and driving directions to the training facility at the Holiday Inn, Bristol, Virginia, can be accessed through our Web site:

www.watershedtraining.net/.

Click on the Training Workshop called "Working at a Watershed Level".

The Holiday Inn in Bristol, Virginia is at Exit 7 on Interstate 81. For information on Bristol,

including accommodations, check this Web site:

www.bristolchamber.org

(Click on the "Visiting Bristol" link. Then click on the "Accommodations" link on the right hand side.)

Questions?

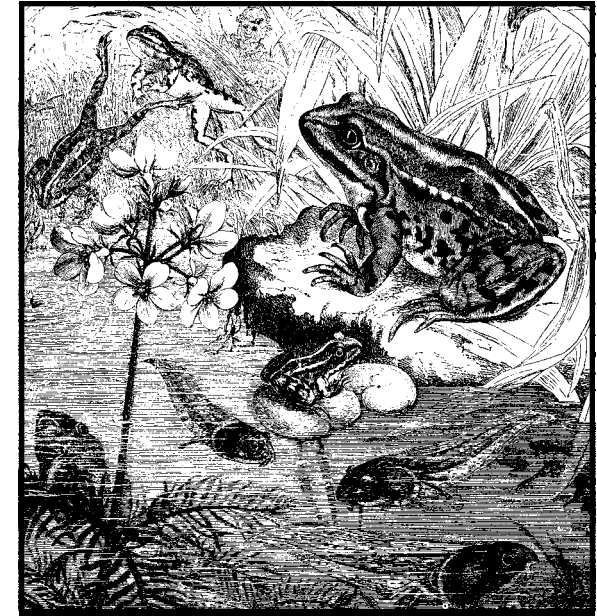
Contact **Barry Toning**, Tetra Tech, Inc.

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Eastern Coal Regional Roundtable
C/O Black Diamond RC&D
383 Highland Drive, Suite 2
Lebanon, VA 24266

Working at a Watershed Level
A Training Course on Watershed
Protection & Restoration



Working at a Watershed Level

A Training Course on
Watershed Protection
and Restoration

May 5-6, 2003

Holiday Inn

Bristol, Virginia

Sponsored by:

Office of Surface Mining

Co-sponsored by:

Eastern Coal Regional Roundtable

U.S. EPA

Tennessee Valley Authority

Virginia Department of Mines, Minerals, and Energy

Black Diamond Resource Conservation and
Development Council

Tetra Tech, Inc.