

Monitoring and Assessment for Watershed Plans



Identifying, Accessing, and Using Data to Protect and Restore Indiana's Waters

Sponsored by the Indiana Department of Environmental Management, the Conservation Technology Information Center, the U.S. Environmental Protection Agency, and Tetra Tech

October 13th - Martinsville, IN
October 20th - Andrews, IN

Workshop Agenda

- 8:30 – 9:00 **Workshop Registration**
Pick Up Workshop Notebooks and Sign In
- 9:00 – 9:20 **Introductions and Workshop Purpose**
Basic to Intermediate Level Focus on Monitoring and Assessment
Introduction to Indiana's Integrated Monitoring Tools and Resources
- 9:20 – 10:30 **Types of Monitoring and Assessment Data and What They Mean**
Physical, Chemical, Biological, and Basic Morphological Parameters
Indiana's Qualitative Habitat Evaluation Index: Instream Conditions & Riparian Areas
The Value of Land Use and Land Cover Information for Predicting Water Quality
How Topography, Geology, and Soils Impact Hydrology, Stream Type, and Wetlands
Aerial Photography, Mapping, Local Knowledge, and Other Useful Tools
- 10:30 – 10:45 **Break**
Meet, Greet – Get Out of Your Seat!
- 10:45 – 12:00 **Which Data Are Important and Why?**
Screening Your Water Body for Key Problems and Threats
Identifying the Types of Data Needed to Target Your Assessment
The Importance of Scoping and Engaging Other Interested Parties
Identifying and Characterizing Point and Nonpoint Pollution Sources
- 12:00 – 1:00 **Lunch and Networking Opportunity**
Boxed Lunch Provided to Workshop Participants

- 1:00 – 1:45 **Who Has Data, Why Were They Collected, and Where Can I Find It?**
Indiana’s Web-Based Water Monitoring Inventory & Protocols
Overview of IDEM’s Consolidated Assessment & Listing Methodology
State 305(b), 303(d), TMDL, and Other Water Quality Reports
NPDES Facilities, Discharge Monitoring Reports, Permit Compliance Reports
DNR – Lake And River Enhancement (LARE) Diagnostic Studies
Other Watershed Management Programs and Plans
Office of Land Quality & Assessment Branch
United States Geological Survey – Flow Data, Special Reports
Hoosier RiverWatch – Volunteer Monitoring and Other Data
Other Data Sources – Universities, Water Utilities, Health Departments, MS4s, SWCD
- 1:45 – 2:30 **Using Data to Support Watershed Protection and Restoration Decisions**
IDEM’s Watershed Management Program Checklist
Identifying Data Quality Objectives Linked to Your Project’s Goals
Judging Data Value: Quality Controls, Age, Comprehensiveness, Other Factors
Comparing Volunteer Collected Data to IDEM Data
How IDEM Uses Data to Make Water Quality Impairment & Other Decisions
How to Avoid the “Paralysis By Analysis” Syndrome
- 2:30 – 2:45 **Break**
Meet, Greet – Get Out of Your Seat!
- 2:45 – 3:45 **Dealing With Uncertainty in Watershed Assessments**
Determining When Data Gaps Justify Collection of Additional Data
Rapid Visual and Other Assessment Techniques to Fill in Knowledge Gaps
Reality Checks Using Windshield Surveys and Targeted Field Trips
Taking Action: How to Get (Which Things) Moving!
- 3:45 – 4:15 **Key Challenges in Monitoring and Assessment, and How to Address Them**
Facilitated Discussion and Results From Indiana Survey
- 4:15 **Workshop Conclusion**
Please Fill Out Your Evaluation Forms!
Drive Safely, and Don’t Forget to Work on Your Watershed . . .