

Indiana Water Monitoring Council

Maximizing resources through improved communication,
coordination, data sharing, and collaboration.



Indiana Water Monitoring Council Field Day

This collaborative event is sponsored by the Indiana Water Monitoring Council to provide an opportunity for organizations and individuals to learn about the different methods used by the U.S. Geological Survey (USGS), the Indiana Department of Environmental Management (IDEM), and Indiana Department of Natural Resources (IDNR) Hoosier Riverwatch Program to collect water quality and stream flow data.

When & Where

Date: Wednesday, September 8, 2010

Location: McCloud Nature Park in Hendricks County

Address: 8518 North Hughes Road, North Salem, IN

Park Website: <http://www.hendrickscountyparks.org/aboutMcCloud.html>

Two sessions are available – Participants may attend either in the morning (9:00 – 11:30 a.m.) or in the afternoon (12:30 – 3:00 p.m.). The event is free but participation will be limited to the first 60 people who RSVP. Preference will be given to watershed coordinators and others conducting or planning to conduct water quality monitoring on the local or regional level. To RSVP, please contact Jody Arthur, jarthur@idem.IN.gov.

Details

This is a half-day event with identical sessions in the morning and the afternoon. During one of these sessions, participants will rotate through each station in small groups to ensure everyone the opportunity to actively participate and ask questions. The following topics will be covered:

Station 1	Sampling for Nutrients and <i>E. coli</i> This session will include a demonstration of the sampling methods used by USGS, IDEM and the IDNR Hoosier Riverwatch Program to collect nutrient and <i>E. coli</i> samples. Participants are encouraged to collect their own samples at this time for use in comparing the results obtained by their methods with those obtained by the methods demonstrated. This session will include a discussion of quality control measures in the field and how these and differences in sampling and analytical methods can affect the results obtained.
Station 2	Measuring Stream Flow This session will include demonstrations of the different methods and equipment used by USGS, IDEM, and the IDNR Hoosier Riverwatch Program to measure flow. Participants are encouraged to collect their own flow measurements at this time for use in comparing the results obtained by their methods with those obtained by the methods demonstrated. This session will include a discussion about the importance of flow measurements to understanding water quality results obtained through sampling and how to calculate a stream discharge value with the data collected.
Station 3	Calculating Loads This session will discuss different methods for calculating loads, including the pros and cons of each method relative to different management needs. Participants will be provided links to online resources for the techniques discussed that they can use to develop loads with the data collected during the demonstration sessions.



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Agenda – Morning Session: 9:00 – 11:30 a.m.

9:00 – 9:15 am	Check-In and Welcome		
	Participants will rotate through each station in small groups. Demonstration and discussion at each station will last approximately 40 minutes.		
9:15 – 11:30 am	Sampling for Nutrients and E. coli	Measuring Stream Flow	Calculating Loads

Agenda – Afternoon Session: 12:30 – 3:00 p.m.

12:30 – 12:45 pm	Check-In and Welcome		
	Participants will rotate through each station in small groups. Demonstration and discussion at each station will last approximately 40 minutes.		
12:45 – 3:00 pm	Sampling for Nutrients and E. coli	Measuring Stream Flow	Calculating Loads

Logistics and What to Bring

Restroom facilities are available at McCloud Nature Park Welcome Center. Plenty of parking is available either at the Welcome Center, about a five-minute walk to the stream. This is a streamside event located in a semi-shaded area. Participants are encouraged to dress appropriately for the heat for wading (for those who wish to) and to bring plenty of water to drink. Insect repellent and sunscreen are also recommended. This event will be held rain or shine.

Participants are invited to bring their own sample bottles, test kits, and equipment to collect their own samples and flow measurements. After the event, results from the USGS, IDEM and IDNR Hoosier Riverwatch samples and flow measurements will be posted on the InWMC website allowing participants to compare results obtained with their methods to the sample results and flow measurements obtained from the demonstration.

Please contact Jody Arthur by phone at 317-308-3179 or email at jarthur@idem.IN.gov with any questions.