



US Army Corps
of Engineers

Monitoring Michigan Streams for Sediment Workshop



R.A. MacMullan Conference Center
104 Conservation Drive
Roscommon, MI

2-3 August 2012

Presented By:

U.S. Army Corps of Engineers, Detroit District
Great Lakes Hydraulics and Hydrology Office
With Support from the Great Lakes Commission

Note: Advance registration is required. Please contact Michael Schneider, Great Lakes Commission, at (734) 971-9135 or michaels@glc.org to confirm your participation.

2 August (Thursday)

- 9:30 – 10:00 Introduction
- 516 Program Overview (Jim Selegan, USACE – Detroit District)
 - Introductions
- 10:00 – 10:45 Lecture – Sediment and River Features (Jim Selegan, USACE – Detroit District)
- Where does sediment come from?
 - Why do we care about sediment?
 - Overview of river features
- 10:45 – 11:00 BREAK
- 11:00 – 12:00 Lecture – Surveying Basics (Jim Selegan, USACE – Detroit District)
- Level / Laser Level / Total Station / RTK-GPS
 - End Pins
 - Closing Survey Loop
- 12:00 – 1:00 LUNCH
- 1:00 – 2:30 Exercise – Survey Loop in Parking Lot (Travis Dahl, USACE – Detroit District)
- 2:30 – 3:30 Lecture – Survey X-Sections and Longitudinal Profiles (Jim Selegan, USACE – Detroit District)
- Closing a Survey Loop
 - Choosing an Appropriate Site (Recon)

- 3:30 – 3:45 BREAK
- 3:45 – 4:30 Lecture – Measuring Bed Gradation with a Pebble Count (Jim Selegean,
USACE – Detroit District)
- Where to Measure Gradation (riffle, pool, et c.)
 - Counting Every Sample vs. Random Sample
 - Importance in Long-Term Monitoring
 - Sediment Transport Timeline
- 4:30 – 5:00 Lecture – Map and Documentation (Jim Selegean,
USACE – Detroit District)
- Site Map / Regional Map
 - Witnessing End Pins
- 5:30 – 7:00 DINNER
- ≥7:00 Beverages and Bon Fire

3 August (Friday)

- 7:15 – 8:00 BREAKFAST (for overnight guests staying at the R.A. MacMullan Center)
- 8:00 – 8:45 Drive to Site
- 8:45 – 1:00 Exercise – Practice Measurements in the Field (Travis Dahl,
USACE – Detroit District)
- Identify an Appropriate Site & Reach
 - Survey X-Section and Long-Pro
 - Pebble Count
- (LUNCH will be provided at the field site)
- 1:00 Workshop Ends (fishing begins!)