



US Army Corps  
of Engineers

## Monitoring Streams for Sediment Workshop



Holiday Inn Conference Room  
800 Jefferson Road  
Rochester, NY 14623

13-14 August 2014

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](mailto:michaels@glc.org) to confirm your participation.

### **13 August (Wednesday)**

- 8:30 – 9:15 Introduction
- 516 Program Overview (Jim Selegean, USACE – Detroit District)
  - Introductions
- 9:15 – 10:30 Lecture – Sediment and River Features (Jim Selegean, USACE – Detroit District)
- Where does sediment come from?
  - Why do we care about sediment?
  - Overview of river features
- 10:30 – 10:45 BREAK
- 10:45 – 12:00 Lecture – Surveying Basics (Jim Selegean, 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 Selegean, 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

### **14 August (Thursday)**

8:00 – 8:30    Drive to Site

8:30 – 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 NOT be provided at the field site)

1:00            Workshop Ends (fishing begins!)