

Stream Team Meeting Minutes
7:30 PM Wednesday, October 6, 2004

Present: Bill Allen, Neil Borman, Kelley Curran, Roger Edwards, Gene Fox, Michael Hartwig, Todd Hayes, Al Pawlowski, and Chuck Whitmore

Note: Follow-up/To-Do items are in bold type

1. Al Pawlowski, a potential new Stream Team volunteer, attended the meeting. Welcome Al!
2. September Stream Team meeting minutes – approved with the addition of Chuck Whitmore to the attendees list
3. Bill A. gave a presentation to the group on the methods for estimated flow volume and the relationship to stream depth. Highlights of the presentation include:
 - Review of Primrose Brook depth profile updated with most recent information – stream profile with reference to a fixed point (bridge)
 - Computing the total velocity and volume of water going past each fixed reference point
 - Development of rating curves – relationship of depth and volume, comparison of F.X. Browne rating curve vs. GSWA rating curve for Great Brook
 - “Poor-man’s plot” in MS Access using ISCO stream level data illustrating the rise and fall of stream depth.
 - Review of Loantaka Brook flow volumes – calculated using data collected by Stream Team volunteers
 - Using ISCO level data and flow volumes to make points on rating curves
4. Staff gauges at Black Brook, Loantaka Brook and the Passaic River stations have been rendered useless due to recent hurricane-related weather as reported by Gene.
5. The 2nd Annual Volunteer Monitoring Summit, hosted by the Watershed Watch Network Council, was held on October 1-2. The Great Swamp Watershed Association is a member of the Council. Kelley and Stream Team volunteers Neil, Gene, and Roger attended the Summit. The Summit was a success and the recurring theme was Quality Assurance in monitoring programs. Kelley is currently working on a Quality Assurance Project Plan for the GSWA stream monitoring program to be submitted to the NJDEP for approval by the end of the year.
6. Gene and Kelley provided the group with a quick update on the Loantaka Brook restoration project. They have been conducting a geomorphological survey of a stretch of Loantaka Brook in the County Park with the guidance of Bob Limbeck from the Delaware River Basin Commission (under contract to the NJDEP). A total of 1,100 feet of stream has been surveyed and additional field work including cross-

section analysis and pebble count is planned. A restoration workplan will be drafted following completion of field work and will be based on recommendations made by Bob.

7. Bill explained to Kelley the difficulties of conducting manual flow measurements and stream bottom profiles at the Black Brook and Passaic River stations. Issues with Black Brook concern access to the stream during storm conditions. Issues with the Passaic River concern the difficulties in taking measurements with the long probe from the bridge during storm conditions.
8. **Kelley will follow-up with Princeton Hydro on the following:**
 - Possibility of having the staff gauges at Black, Loantaka, and Passaic River stations repaired/replaced by Princeton Hydro through the Ten Towns Committee contract.
 - What is needed for Princeton Hydro to complete their work as far as manual flow measurements (base and storm) and stream bottom profiles
 - Are there any concerns with using bridges as fixed reference points from which to perform manual flow measurements and stream bottom profiles?
9. All were in agreement that it might be best to try to establish teams of volunteers who would be responsible for monitoring activities at one station/stream location. Apparently the program was initially set up like this but there has been some turnover of volunteers affecting this format. Activities have become somewhat of a constraint on volunteers' time. **Kelley will look into the recruitment of additional volunteers.**

Respectfully submitted by: Kelley Curran