STREAM SAMPLES: Updates on Delaware Basin Science

THE ACADEMY OF NATURAL SCIENCES of DREXEL UNIVERSITY

ansp.org

September 10, 2014

Summer may be coming to an end, but the Academy's field season is continuing at full speed. As I'm writing we have three crews fanned out across the Delaware Basin examining everything from water chemistry to algae. At the same time, partner organizations are also hard at work measuring, sampling and collecting specimens, all to tell us how well our watershed is working and what we can do to improve it.

This large (and largely unprecedented) effort enlists science and monitoring as central tools for guiding decision-making and protecting water quality. We hope these ANS updates will give you a better idea of the many ways that science is underpinning the Delaware River Watershed Initiative.

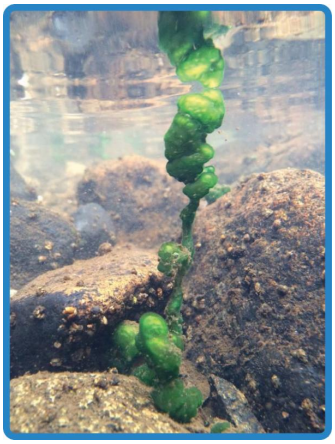
- Roland Wall

The Delaware in Maps

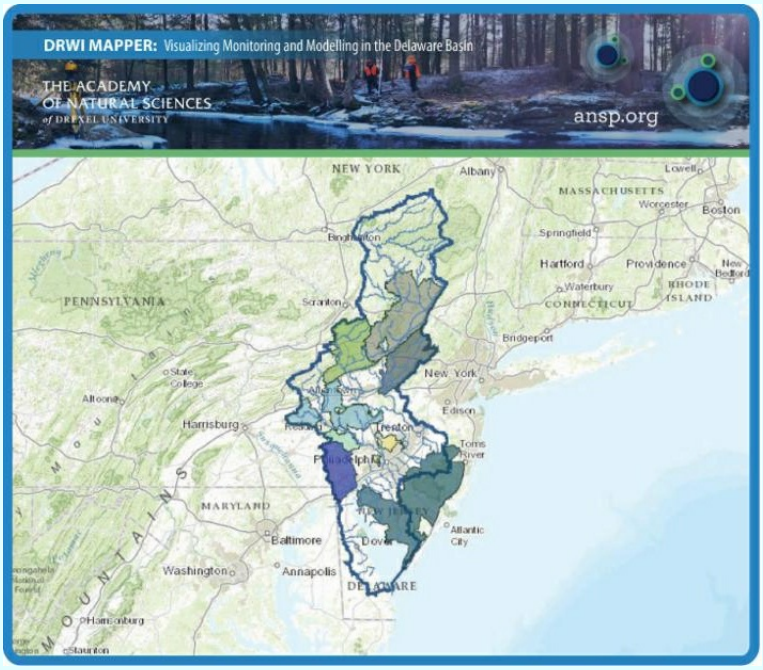
Upcoming Events

Research Steering Committee
Sept. 23, 2014
9 AM - 4 PM
ANS
Contact: Roland Wall

News and Updates



Algae Adieu
ANS' 2014 algae sampling season is nearing its end. By the time they finish, team will have collected algae samples and performed habitat assessments at 80 sites across the clusters.



Introducing DRWI Mapper

We are developing a series of user-friendly web-based mapping applications for visualizing monitoring and modeling outputs associated with the DRWI. Our first application, DRWI Mapper, gives users the ability to navigate the eight geographic clusters where the DRWI is focused, write basic GIS queries, and explore where and what we are collectively monitoring in each of the clusters. Learn more

Tis the Season...

...for bugs

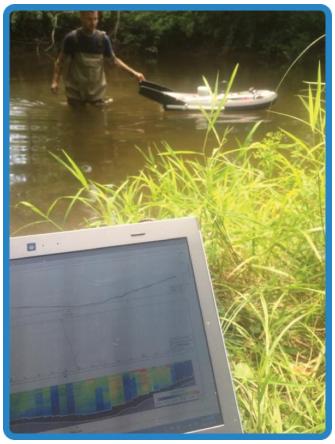
Sampling has begun for the lentic macroinvertebrate research project, and you may see Meg O'Donnell and colleagues out collecting bugs in still waters around the Delaware. This is just one of several research projects that ANS scientists are undertaking in support of the DRWI. Learn more.

Tips and Tricks

Downloads

Hi-Tech Help

We're deploying some sophisticated new instruments in our monitoring. Check out the gear and what it does in our downloadable Monitoring Methods and Instruments (PDF 0.5 MB).



Contact Us

Monitoring:
Kathryn Christopher

Data Access:
Meg O'Donnell

Project Science or Research:
Stefanie Kroll

Don't Trample Where You Sample

When sampling chemical or biological parameters in-stream, take care not to walk in your sampling area. Walking in the stream disturbs the substrate, kicks up sediment, can scour algae, and can crush insects or send them (and fish!) into hiding. If you need to walk in the stream, stay close to the banks when possible, or at least avoid sampling areas.

Best practice is to start downstream and work your way up when sampling algae, fish, and macroinvertebrates, always staying downstream of your collection area. Chemistry readings and water samples should always be collected at the top of your reach or sample area, upstream of where anyone has walked in the stream that day.

Stay Connected

The Academy of Natural Sciences of Drexel University | 215-299-1000
http://www.ansp.org
1900 Benjamin Franklin Parkway
Philadelphia, PA 19103