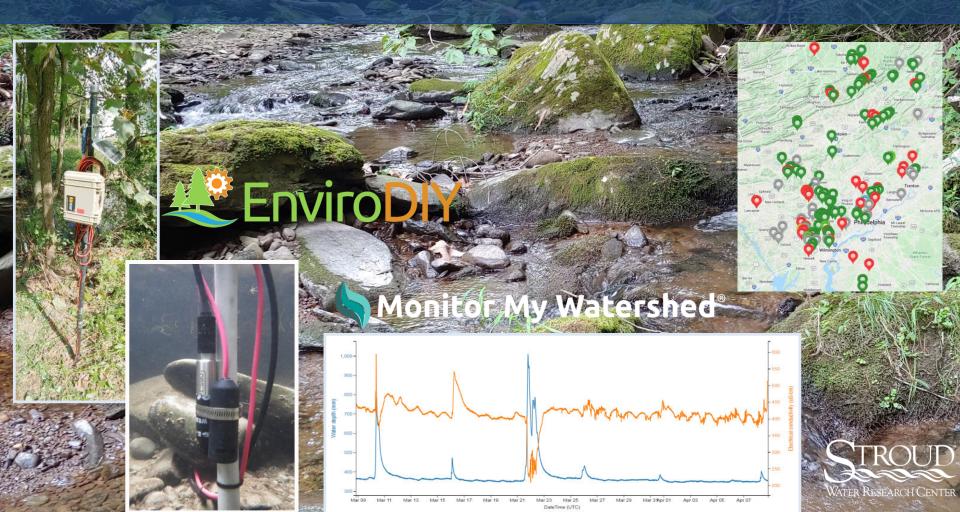
WELCOME!

EnviroDIY and monitoring in the DRB monthly meeting

Online, Thursday, June 15, 2023, 2:30-3:30p



Today's Agenda

- 1. Introduction
- 2. Stroud Updates
- 3. Presentation Depth Perception: Using continuous water depth data to inform recreation, monitoring, and loading, Christa Reeves, Musconetcong Watershed Association
- 4. Discussion
- 5. Conclusion



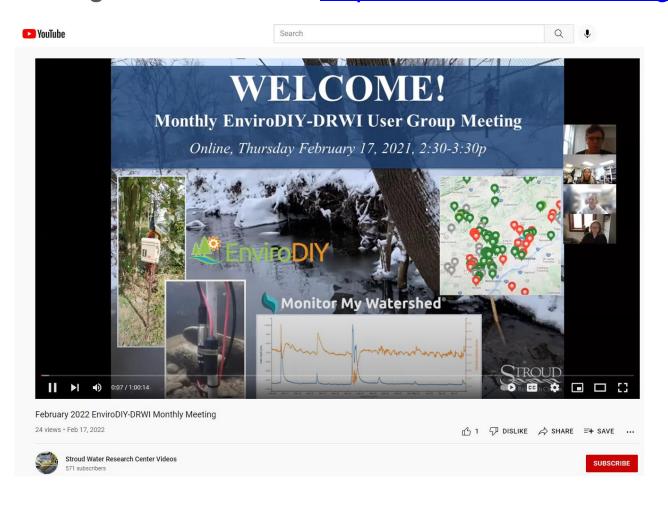
*Meeting is being recorded



*Please mute when not speaking to the group

These Monthly Meetings

Recordings available at: https://wikiwatershed.org/drwi/



These Monthly Meetings

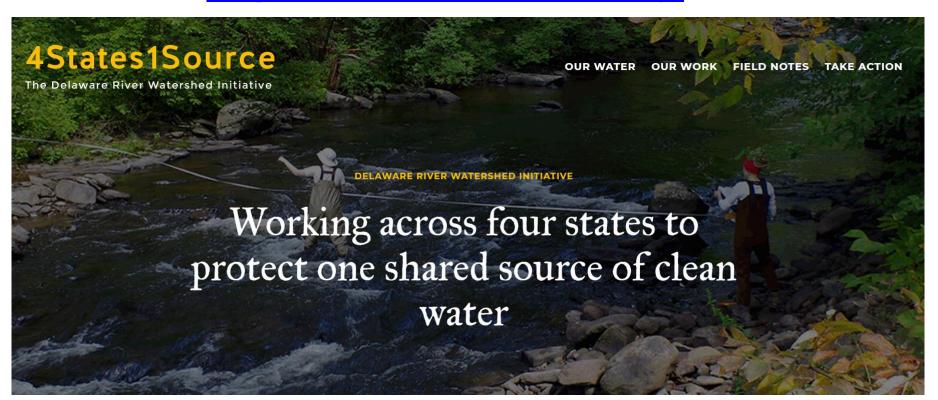
- Every third Thursday of the month
- 2:30-3:30p
- Zoom link will remain the same: https://us02web.zoom.us/j/81881801310?pwd=eUFmbXZLbmRibV cxa1dtNVhzRmNvZz09
- Reminder email one week prior to each month's meeting
 - All are welcome, please share
 - And let us know if others should be added

REMINDER

- Attendees include:
 - Groups working in Delaware River Watershed Initiative (DRWI)
 - Groups working in Delaware River Basin (DRB) but not DRWI
 - Folks from outside the DRB
- Stroud Center support via DRWI and C-SAW

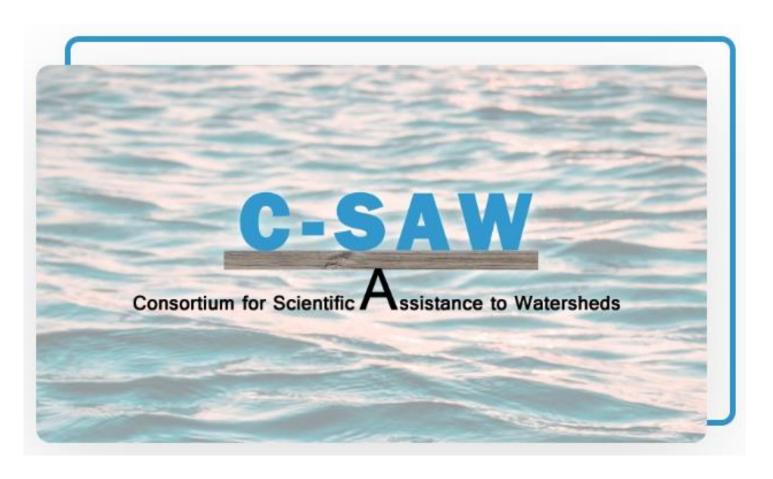
Delaware River Watershed Initiative (DRWI)

https://4states1source.org/



C-SAW

https://www.c-saw.info/



Goals for these monthly meetings

- Time to check-in, ask questions, report issues, network, etc.
- Updates from the Stroud Center
- Presentations
 - Science
 - Monitoring
 - Watershed management

*All of this to support gathering good data and using it purposefully

Stroud Center project personnel

Stroud Center team:

David Bressler



Project facilitator

Rachel Johnson



Research Engineer Technician

Christa Reeves



Northern DRB technician and organization collaborator

Shannon Hicks



Research Engineer, Mayfly and EnviroDIY Inventor/Designer

Stroud Center project personnel

Master Watershed Steward Facilitators:

Carol Armstrong



George Seeds



Master Watershed Steward Program



Stroud Center project personnel

Stroud Center DRWI Leads:

Dr. John Jackson



Senior Research Scientist

Matt Ehrhart



Director of Watershed Restoration

Dr. David Arscott



Executive Director, President Research Scientist

Stroud Center Perspective – EnviroDIY in the DRB

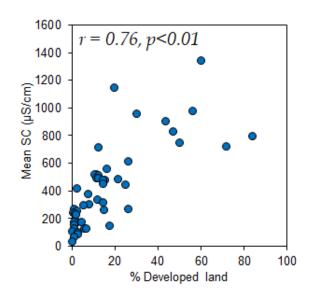
Primary Goal

- Support Station owners, managers, and volunteers
- Use stations for local purposes

Secondary Goal

- Analyze basin-wide data set
- Develop tools to characterize and contextualize watersheds



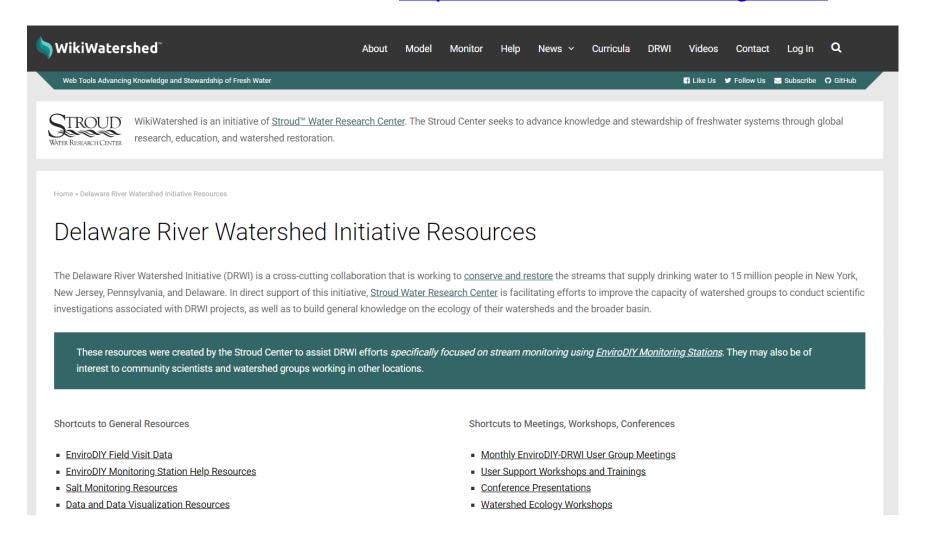


Updates!

 Updates from the Stroud Center on EnviroDIY, science and monitoring, communications, etc.

EnviroDIY and monitoring resources

Guidance materials - https://wikiwatershed.org/drwi/



EnviroDIY Field Visit Data Form entry

https://wikiwatershed.org/drwi/

EnviroDIY Field Visit Data



Enter Field Visit Data

- View field visit data
- View older data (7/18/2017 to 7/24/2018)

EnviroDIY Field Visit Data Sheets (Printable)

- EnviroDIY Field Visit Data sheet (blank)
- EnviroDIY Field Visit Data sheet tutorial

EnviroDIY Monitoring Station Service Requests

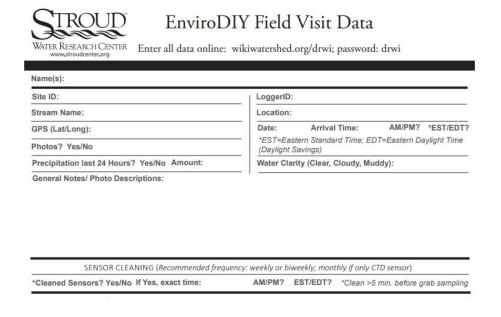
Use this form to report technical issues that require assistance from the Stroud Center team.

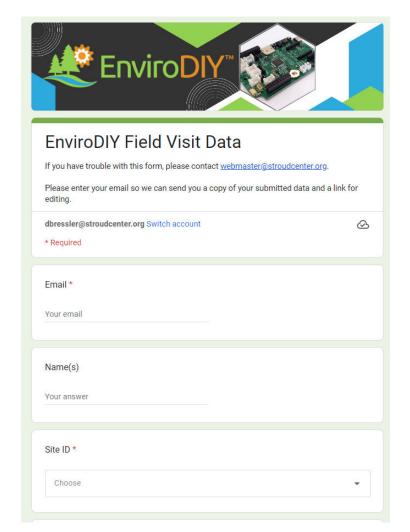
Submit a Service Request

EnviroDIY Field Visit Data Form entry

https://wikiwatershed.org/drwi/

 Fill out any time a station is visited





EnviroDIY Service Request Form

https://wikiwatershed.org/drwi/

EnviroDIY Field Visit Data

Enter Field Visit Data

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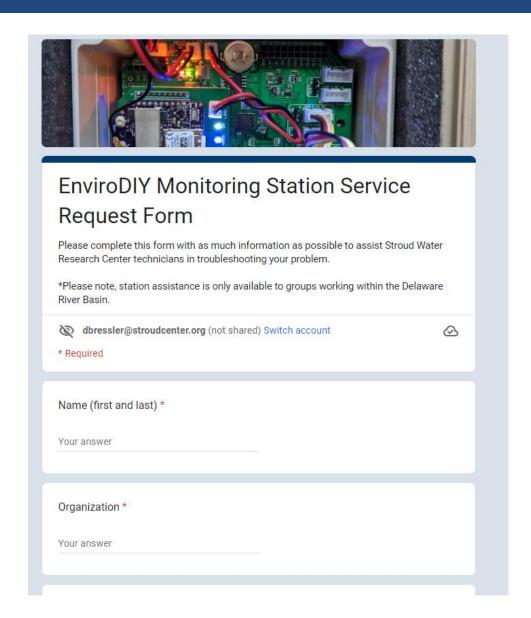


Submit a Service Request

EnviroDIY Service Request Form

Simpler form

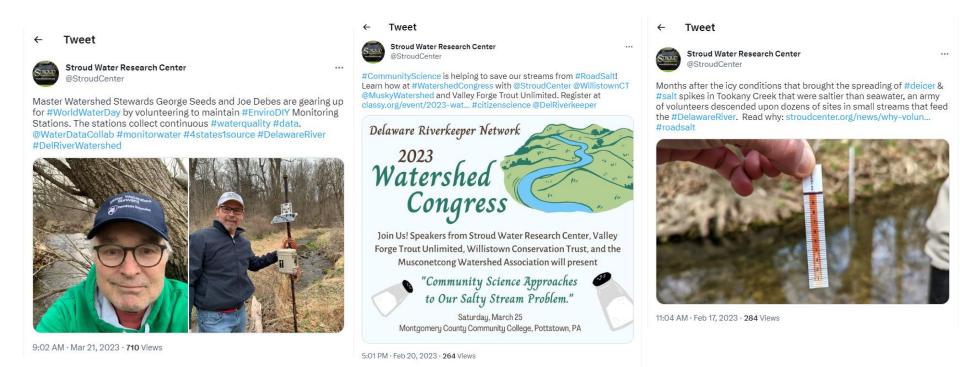
- Required info now is very basic – all other info is optional
- Anyone with assistance needs should complete this
 - To make internal record-keeping easier



Support on Snapshots

- Stroud Center support on synoptic sampling (aka <u>snapshots</u> or blitzes)
 - Salt (chloride and conductivity)
 - Water temperature
- Please be in touch if you would like support in doing this type of monitoring

If you want, send your photos and stories



Email or Text to:

- Diane Huskinson (<u>dhuskinson@stroudcenter.org</u>; 717-383-1179)
- Dave Bressler (<u>dbressler@stroudcenter.org</u>; 410-456-1071)

POWR Conversation Cafe



Putting Water Quality Data to Work, Locally: A Conversation Café May 17, 2023 at 6 PM

POWR, along with our partners from Stroud Water Research Center, Penn State Extension Master Watershed Steward Program, and a small working group of watershed organization leaders invite you to a special Conversation Café to explore challenges and opportunities for meaningfully sharing water quality monitoring data with municipal officials, EACs, and the public for improved land use planning and decision-making.

POWR is excited to host this event to give you the opportunity to talk about your experiences, challenges, questions, and ideas related to sharing, using, and applying the water quality data you have gathered to help inform land use and other local policy, practices, and planning.

This event is FREE but registration is required to receive the Zoom link. **REGISTER NOW**

Recording available – contact Tali MacArthur, tmacarthur@pecpa.org

Tech Updates

- All tech supplies have been restocked!
 - EnviroDIY monitoring station kits
 - Cell boards
 - Mayfly loggers
 - EnviorDIY starter kits
 - Wifi boards
 - Grove headphone jack boards
 - Screw terminal boards.
- Available at EnviroDIY.org Shop and at Amazon
 - *Note some things are only sold on the shop and not Amazon

Coming months

- June 15 Christa Reeves flow data usage with USGS on Musconetcong
- July 20 Updates/progress presentation from local policy/practice workgroup
- Aug 17 Volunteer? 2023 water temperature in DRB?
- Sept 21 John Jackson (Stroud), science of salt pollution and recent advances
- Oct 19 Dave Bressler (Stroud), monitoring of salt pollution and what to do with the data (tie in guidance from local policy/practice workgroup)
- Nov 16 Volunteer? Requested topic?
- Dec 14 Dave Bressler (Stroud), end of year summary and planning for 2024
 - *Meeting is currently Dec 21 suggestion to move it to Dec 14

Updates from Local Policy/Practice Workgroup

 Updates from Ian Brastow, Lopatcong Creek Initiative/New Jersey Highlands Coalition, NJ

Updates from Local Policy/Practice Workgroup

Current leadership:

- Ian Brastow, Lopatcong Creek Initiative/New Jersey Highlands Coalition (NJ)
- David Manning, PA Master Watershed Steward and Schuylkill Water Steward with Green Valleys Watershed Association (PA)
- Christa Reeves, Musconetcong Watershed Association (NJ)
- Alex Jackson, Brodhead Watershed Association (PA)
- Erin Landis, Wissahickon Trails (PA)
- Joe Debes, PA Master Watershed Steward and Stroud Center volunteer (PA)
- Carol Armstrong, PA Master Watershed Steward (PA)
- Tali MacArthur, PA Environmental Council (PEC)/PA Organization for Watersheds and Rivers (POWR)(PA)
- NEW Steve Tricarico, Tulpehocken Creek Watershed Association, member Bern Township planning committee (PA)

• Support:

- David Bressler, Stroud Water Research Center (PA)
- Meetings: 1st Thursdays, 11 am (Zoom, https://zoom.us/j/5889670619)

The Workgroup's Charge

To develop the most effective ways of employing stream monitor data to advise and otherwise influence municipal entities.

Types and Forms of Resource Documents

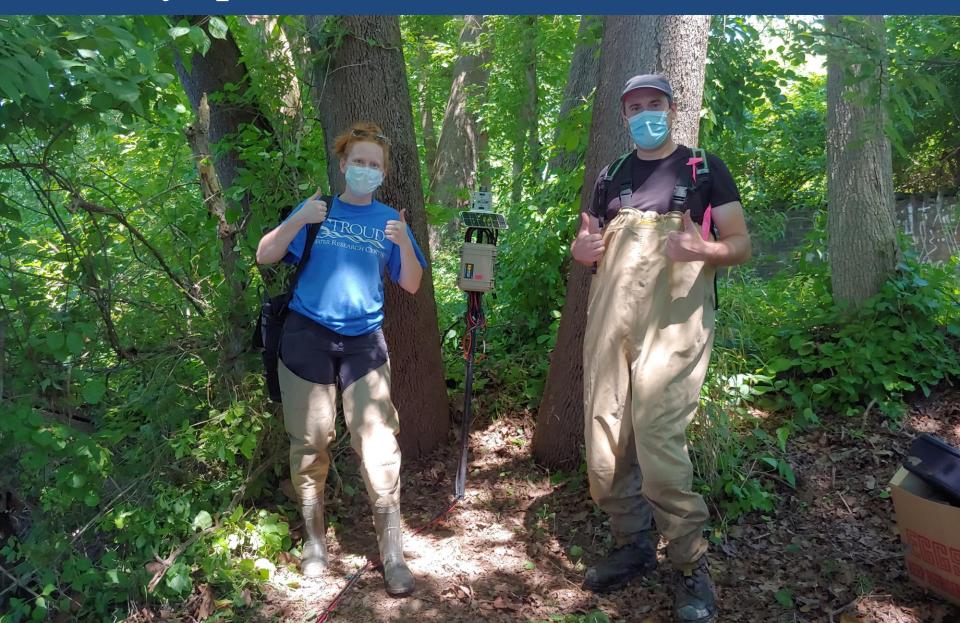
- Four documents that focus on the fundamentals of stream monitoring data and their relation to land use and development:
 - 1. Temperature
 - 2. Depth
 - 3. Conductivity
 - 4. Turbidity (not priority, because of turbidity data/sensor issues)
- One document (5) that provides guidance in identifying and talking to appropriate municipal decision makers.

Updates from Local Policy/Practice Workgroup

Deliverables

- Temperature
 - Guidance Document
 - One-pager
- Conductivity
- Depth
- Turbidity
- "Document 5" Municipal Engagement Guide
 - Additional Ways of Interacting with Municipalities
 - MS4 Permits, strategies for developing relationships and building trust, presentation resources, etc.
- July Update
 - Presenting a detailed update of Deliverables

Any questions before we move on?



Today's presentation

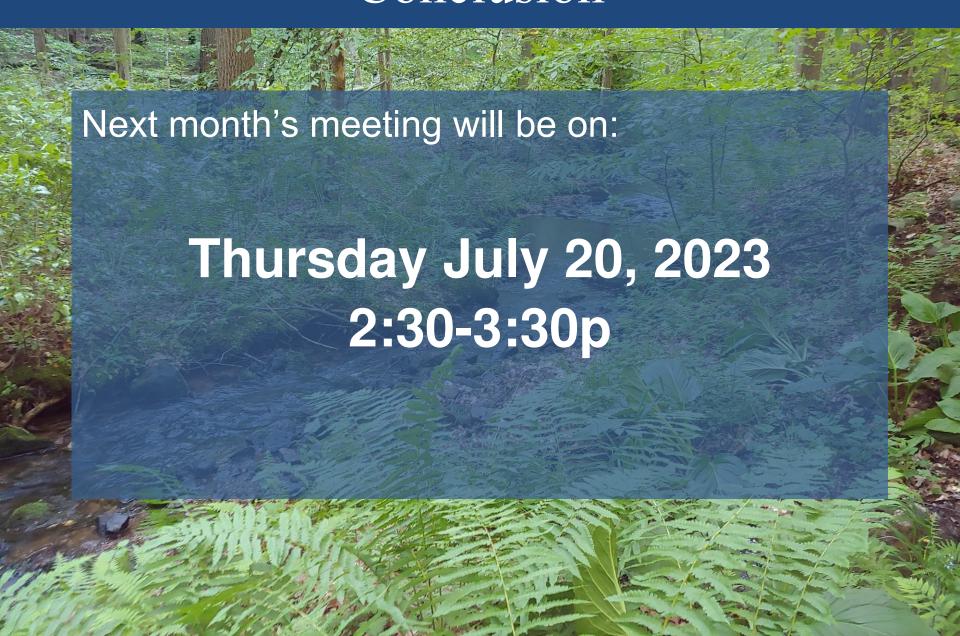
Depth Perception: Using continuous water depth data to inform recreation, monitoring, and loading, Christa Reeves, Musconetcong Watershed Association



Mentors currently available

- Carol Armstrong (MWS), mnem.np@gmail.com, 610-659-7477
- George Seeds (MWS), geoseeds@verizon.net, 484-886-9586
- Rachel Johnson (Stroud Center), <u>rjohnson@stroudcenter.org</u>, 973-557-8995
- Christa Reeves (Musconetcong Watershed Association/Stroud Center), christa@musconetcong.org, 727-520-5849

Conclusion



Onward!

