Leveraging Participatory Science to Advance Water Quality Reporting and Partnership-Building Part 1



Thursday, May 23rd, 1:00pm – 3:00pm Eastern

Speakers:

- Julie Vastine, Director, Alliance for Aquatic Resource Monitoring (ALLARM) & Chair of National Water Quality Monitoring Council's Volunteer Monitoring Workgroup
- Hilary Snook, Environmental Scientist, USEPA New England Regional Laboratory
- Petra Baldwin, Water Quality Coordinator, Anacostia Riverkeeper
- Mona Dominguez, Director, Alabama Water Watch (AWW)
- April Sevy, Volunteer Education and Citizen Science Coordinator, Missouri Stream Team



Webcast Logistics

- To Ask a Question Type your question into the "Questions" tool box on the right side of your screen and click "Send."
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A Brief History

- •2013 States raise concern
- •Initiation of Ad Hoc working group
- •Tiered program development •CMC



Lake monitoring programs-a real need for citizen science!

- CT- 5,543 Sq. mi & 2,267 lakes/ponds
 10-20 lakes/year
- ME- 35,385 Sq. mi & over 6,000 lakes











































Worcester Cyanobacteria Monitoring Collaborative: Overview, Accomplishments, and Challenges



May 23th 2019 EPA Region 1 Laboratory















<u>Project</u> Background

- **Recreational Focus** Rowing, boating, fishing, and other recreation around District waters are popular, though swimming has been illegal since the 1970s due to water quality concerns.
- Infrastructural Improvements Monitoring helps track whether projects like the Clean Rivers Project tunnels, MS4 improvements, and green infrastructure have led to improved water quality.
- Long term dataset We now have five summers of data to inform the public on water quality trends and advocate for clean waterways for all.







Why monitor E. coli?

- **E. coli** is a bacterium found in the intestines of humans and other warm-blooded animals
- E. coli is used as an **indicator for** harmful bacteria that may be in our waterways and make people sick if they ingest water from the river.

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• Learning Opportunities































Participation Certificate

• If you would like to obtain a participation certificate you can access the PDF in the **Handouts** section of your control panel.



Watershed Academy Webcasts

Part 2 coming July 11th 1:00-3:00 pm!

The slides from today's presentations are posted on the Watershed Academy webpage.

A recording of the webcast will be posted within the next month.

www.epa.gov/watershedacademy



