Pooled Monitoring Forum: Restoration Research to make Science and Regulatory Connections
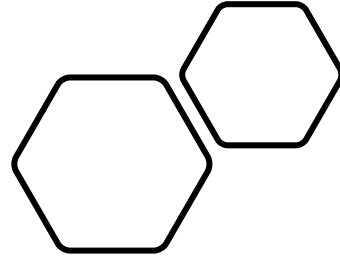
June 16, 2022, from 9 AM to 3 PM

Zoom/tech leads are Whitney Vong and Lindsay Brubaker (wvong@cbtrust.org, 410-974-2941 xt 122 and lbrubaker@cbtrust.org, 410-974-2941 xt 112)
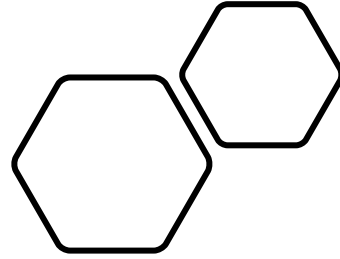
Pooled Monitoring Forum Agenda

9 to 9:15 am	Morning Session with <u>opening remarks from **Senator Sarah Elfreth**</u>, Maryland, Anne Arundel County District 30
9:15 to 11:05 am	**Erich Hester** (Virginia Polytechnic Institute and State University), **Arthur Parola** (University of Louisville Research Foundation, Inc.), **Jon Butcher**, Tetra Tech, Inc., and **Theresa Thompson** (Virginia Tech)
11:05 am to 12:05 pm	**PANEL - How are we using the Pooled Monitoring Initiative research?** Senator Sarah Elfreth (Maryland, Anne Arundel County District 30), Jessica Martinsen (USEPA), Ari Engelberg (MD DNR), Amy Stevens (Montgomery County, MD), Mike Galvin (Maryland Stream Restoration Association), & Sarah Koser (Chesapeake Bay Trust)
12:05 to 1:00 pm	Lunch Break
1 to 3:00 pm	**Claire Welty & Andy Miller** (University of Maryland Baltimore County), **Sujay Kaushal (**University of Maryland, College Park), **Mark Southerland (**Tetra Tech, Inc.), **Keith Eshleman** (University of Maryland Center for Environmental Science); upcoming research projects and call for sites/data & closing remarks

Meeting Materials

- Agenda, attendance list, and presentations are at: https://drive.google.com/drive/folders/1dFGF8FPumWIzjR9jhtBxa7lrg4y7AuoN?usp=sharing

- This meeting is being recorded and both the recording and presentations will be posted on the Pooled Monitoring Initiative website after the meeting at: https://cbtrust.org/grants/restoration-research/

Morning Session

- **Welcome, charge for the day, and Pooled Monitoring Program overview, Sadie Drescher** Vice President of Restoration Programs, Chesapeake Bay Trust

- **Senator Sarah Elfreth**, Maryland, Anne Arundel County District 30, Welcome and opening remarks

Pooled Monitoring Program - Science answers key restoration questions

- Desire to support the best, most cost-effective practices at the most optimal sites, but differences of opinion sometimes exist, and questions about the performance and function of some of these practices persist

- Pool resources to answer restoration questions posed by regulatory community & practitioners

  - **Partnerships and collaborations** – we are all a part of this effort!

- Increase power, objectiveness, and ability to know what works

- Bring science back to those that can use the research/data

Kelsey Wood (UMD) measuring groundwater for "Tree Trade-Offs in Stream Restoration Projects: Impact on Riparian Groundwater Quality" project (PI is Sujay Kaushal)

Pooled Monitoring Initiative Provides Solutions

➤ Regulators prioritize their concerns with input from practitioners

➤ Funders "pool" resources

➤ Top restoration questions issued in the Restoration Research Request for Proposals (RFP) in FY15 administered by the Chesapeake Bay Trust

➤ Scientific teams research these questions and deliver answers back to the regulators

➤ RFP open to any organization – looking for best groups to answer your questions

➤ Results used in decisions, policy, practices, etc.

Claire Welty (UMBC) quantifying the cumulative effects of stream restoration and environmental site design on nitrate loads in nested urban watersheds using a high-frequency sensor network(Baltimore County, MD)
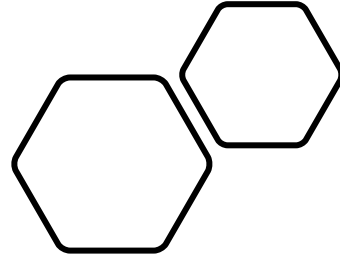
Restoration Research Award Program

- Supported 38 projects since FY 15 at >$7M

- Guided by the Pooled Monitoring Advisory Committee

- Uses scientific reviewers across the world to vet applications

- Runs all applications through a "management review"

- Projects are managed as contracts

- Questions are cycled off/on the RFP each year

- All awards, progress, and program products are online at: https://cbtrust.org/grants/restoration-research/

Keith Eshleman (UMCES) Plum Branch stormwater monitoring station (Ellicott City, Howard County, MD)

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