

Toxic Contaminant Outcomes State of the Workgroup



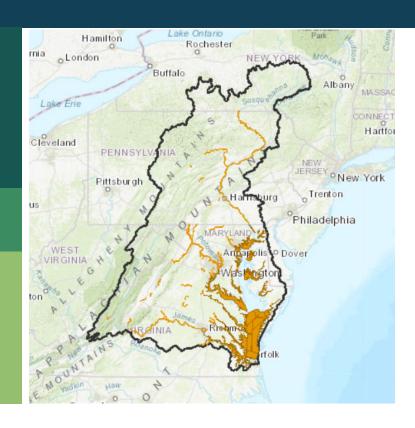
Through the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Program has committed to...

Goal: Ensure that the Bay and its rivers are free of effects of toxic contaminants on living resources and human health

R Outcome: Continually increase our understanding of the impacts of and mitigation options for toxic contaminants through research.

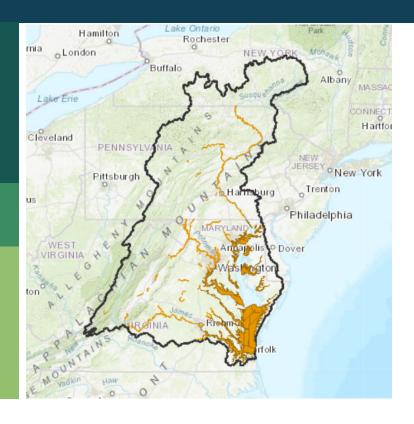
PP Outcome: Continually improve practices and controls that reduce and prevent the effects of toxic contaminants below levels that harm aquatic systems and humans.

MB Help Requests -Research



- Making fair progress, but sometimes hard to gain traction for toxic contaminants;
- Need for effort:
- Consideration of toxic contaminants in 2-year milestones
- Input on next steps for mercury
- Coordinated plans for PFAS

MB Help Requests – Policy Prevention



- •Allocate more staff and financial resources to move PCB TMDLs forward
- •Use existing permit controls (MS4, wastewater) to gain more low-detection data
- •Find co-benefits with N/P/S reductions
- Consider a stronger consortium

MANAGEMENT APPROACHES FOR RESEARCH OUTCOME

MA1: Supply information to make fish and shellfish safe for human consumption

MA2: Understanding the influence of contaminants in degrading the health, and contributing to mortality, of fish and wildlife

MA3: Document the occurrence, concentrations, and sources of contaminants in different landscape settings

MA4: Science to help prioritize options for mitigation to inform policy and prevention

MA5: Gather information on issues of emerging concern

MANAGEMENT APPROACHES FOR POLICY AND PREVENTION OUTCOME

MA1: Regulatory

MA2: Education and Awareness

MA3: Voluntary Programs

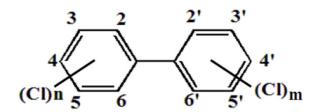
MA4: Science (covered in Research)

MA5: PCB Consortium



Based on what we learned, we planned to ...

- Mercury+PCBs Opportunities for integrated monitoring (MA1)
- PFAS- Nature and extent of in watershed surface waters and fish to better assess resource impacts (MA2)
- Status/occurrence of toxic contaminants in wastewater and streams in urban areas (associations with land use) (MA₃)









Based on what we learned, we planned to ...

- Explore approaches to including toxic contaminants in CB nutrient/sediment BMPs (MA4)
- Support the microplastics action team, expand focus on PFAS to better understand resource impacts (MA₅)







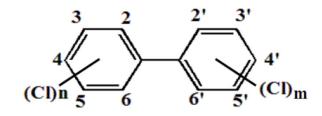
Policy and Prevention (PCBs)

- Explore the consortium idea through a workshop modeled after BUWP meetings
- Begin a PCBs in schools initiative including FLBs
- Endeavor to bring PCBs to CAST



Progress in 2021...

- Mercury Opportunities for integrated monitoring (Jan 21), USGS mercury story map introduction (R+PP MA1)
- •PFAS- Roundtable discussion in February, STAC proposal, planned workshop in spring 22 (R MA2/3/5)
- •Agricultural chemicals and land use, fish health, co-benefits (May-June), interactions with Ag WG (R MA2/3/4)
- Plastic Pollution Action Team update (ERA),
 consideration of folding into TCW (R MA5)









Progress in 2021...

- Mercury and PCBs enhanced monitoring (June-Nov) (R MA1/2/3, PP MA1)
- TC as stressors on stream health with SHWG (R MA2)
- Pooled monitoring initiative for PCBs (CBT) (R MA1/4)
- PCBs in schools/FLBs (April+), release of Bay Backpack website, presentation to BUWP (PP MA3)

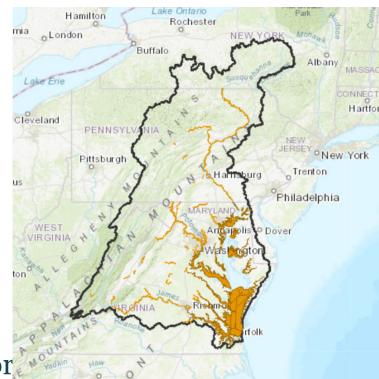


Mentimeter Questions Jamboard Exercise



Planned in 2022 ...

- Update existing and expand story maps for PCBs, mercury, and co-located impairments with TC/nutrients and sediment (c-Stream proposal) (R MA1/3)
- Interactions with SFGIT, fish consumption advisories due to PCBs and mercury, and Fish Habitat Action Team for consideration of toxic contaminants in fish habitat assessments (RMA1/2)







Planned in 2022...

- Interaction with agriculture,
 stormwater, and wastewater source teams
 to promote consideration of TC as part of
 2-year milestones (co-benefits) (R MA4)
- Road salt/chloride ecotoxicity, chloride
 TMDL development tracking (R MA₅)
- PCB TMDLs and restoration activities (PP MA1)
- PCBs in Schools (PP MA3)





SRS Revisions 2022

- Materials due beginning in May 2022
- Logic and Action Plans: What did we complete and what did we learn?
- How does the management strategy shift based on what we learned?
- Revised LAPs to reflect strategy updates
- August 2022 Progress Review with Management Board