



Columbia River Basin Restoration Program Working Group Virtual Meeting

October 31, 2024



AGENDA OVERVIEW

WELCOME, AGENDA REVIEW, & PARTICIPANT INTRODUCTIONS

PARTNER UPDATES FROM AROUND THE BASIN

Nikki Guillot, City of Vancouver, Washington—Project updates on the Waste Incentive Network

Nanette Nelson, University of Montana—Mercury, Fisheries Management & Food Pantries: An unfolding story on Flathead Lake

WORKING GROUP WORKING FOR YOU

Interactive discussion about what you need from the Working Group

BREAK



AGENDA OVERVIEW

COLUMBIA RIVER BASIN EMERGING TOPICS

Funding opportunities, Spokane River PCB TMDL, 6PPD Updates — Catherine Gockel, EPA R10 Geographic Programs Section Manager

Tanya Williams, 6PPD Lead Agency Planner, Washington State Department of Ecology

ENGAGING NEW PARTNERS — *Panel discussion on engaging new partners and finding champions. Moderator: TNC; Panelists: The Freshwater Trust, Salmon Safe, Pollution Prevention Resource Center, Idaho DEQ, Confederated Tribes of the Umatilla Indian Reservation*

BREAK



AGENDA OVERVIEW

TOXICS MONITORING SUBGROUP (TMS) UPDATE

Lisa Kusnierz, EPA Region 10

ROUND ROBIN PARTNER ANNOUNCEMENTS

Open Mic — Round robin, help wanted, celebrations, & ideas needed

MAY 2025 MEETING PLANNING

CLOSING REMARKS & ADJOURN



IF YOU EXPERIENCE TECHNICAL DIFFICULTIES...

Send a message in the chat or email to:

Greg Frey – gfrey@thecounciloak.com

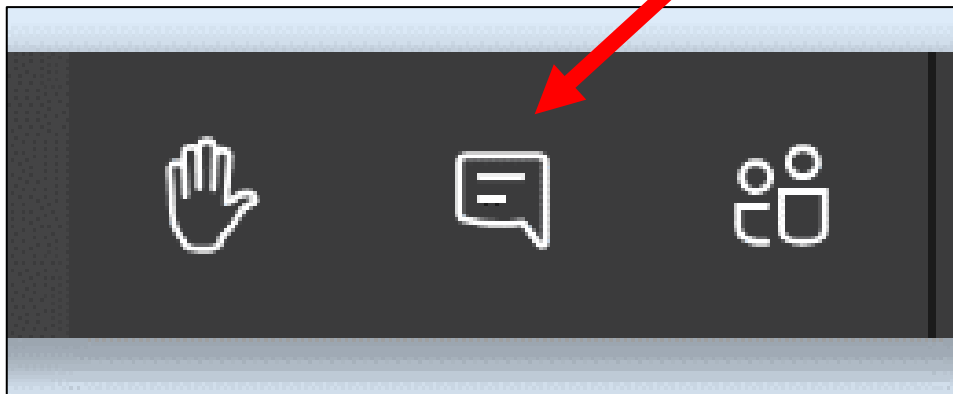
Peter Brumm – Brumm.Peter@epa.gov



INTRODUCTIONS

- Please introduce yourself in the Teams chat
tell us your **name** and **organization**
- **Please keep yourself on mute** unless you are speaking
- For those on the phone, press *6 to mute/un-mute your line

Click to open chat function



PARTNER UPDATES FROM AROUND THE BASIN





CITY OF
Vancouver
WASHINGTON

Partnerships: Waste Incentive Network

Nikki Guillot

Technical Unit Supervisor

Water Resource Protection Program

Public Works Dept

Oct 31, 2024



Waste Incentive Network

- September 2022
- EPA Funded \$341,000
- 4 primary activities
- Set to wrap June 2024
- Extended to Sept 2025



Project Activities



Business Outreach

Distribute info and resources on dangerous waste management and prevention



Coupons

Discount for small businesses to properly dispose of dangerous waste



Multi-family

Guidance for property managers and owners on household hazardous waste



Needs Assessment

Focus groups, surveys to establish needs for residents on proper disposal



Business Outreach

- Website for businesses
- Email to business associations and chamber of commerce
- Facebook post “Got Dangerous Waste?”
- Coupons & Site Visits





Multi-family Engagement

- Establish a Technical Advisory Group to work on waste removal planning
- Local health, solid waste, storm water City staff
- Consultant to conduct focus groups





HHW Needs Assessment

- Focus group with residents & property managers
- Data on options for on-premise, drive-thru, drop-off, collection events
- 82% ranked HHW as “extremely” or “very” important



Focus Group

Concept:
Close to Home

Description:
Household Hazardous Waste (HHW) bins conveniently located next to your multi-family residence's current waste or recycling bins.



Concept:
Drop Points

Description:
Household Hazardous Waste (HHW) bins around town at places you go every week so you can deposit them when you're out running errands.



Concept:
Drive-Thru, Drive Off

Description:
Household Hazardous Waste (HHW) stations where you can drive up and hand over your HHW without getting out of your car.



Concept:
Collection Event

Description:
Residents bring Household Hazardous Waste (HHW) to a city-wide event in a convenient central location where they can drop off items for rewards or prizes.



- Convenience is the top of list for residents
- Understanding the danger to the environment was second
- Batteries and electronics are commonly thrown away
- Communicating thru property managers and mailers preferred



Pollution Prevention for Businesses



Protecting Precious Resources



Resources

- [Pollution Prevention for Businesses](#)
[-The City of Vancouver, WA](#)

Thank You!



Nikki.Guillot@cityofvancouver.us | 360-487-7190 | cityofvancouver.us





Mercury, Fisheries Management, & Food Pantries: An Unfolding Story on Flathead Lake

Nanette Nelson, Flathead Lake Biological Station

Columbia River Basin Restoration Working Group Virtual Fall Meeting
October 31, 2024

Collaborators:

Bob Hall, FLBS

Erin Sexton, FLBS

Tyler Tappenbeck, FLBS

Barry Hansen, CSKT

Collin Eagles-Smith, USGS



Confederated Salish & Kootenai Tribes
of the Flathead Reservation

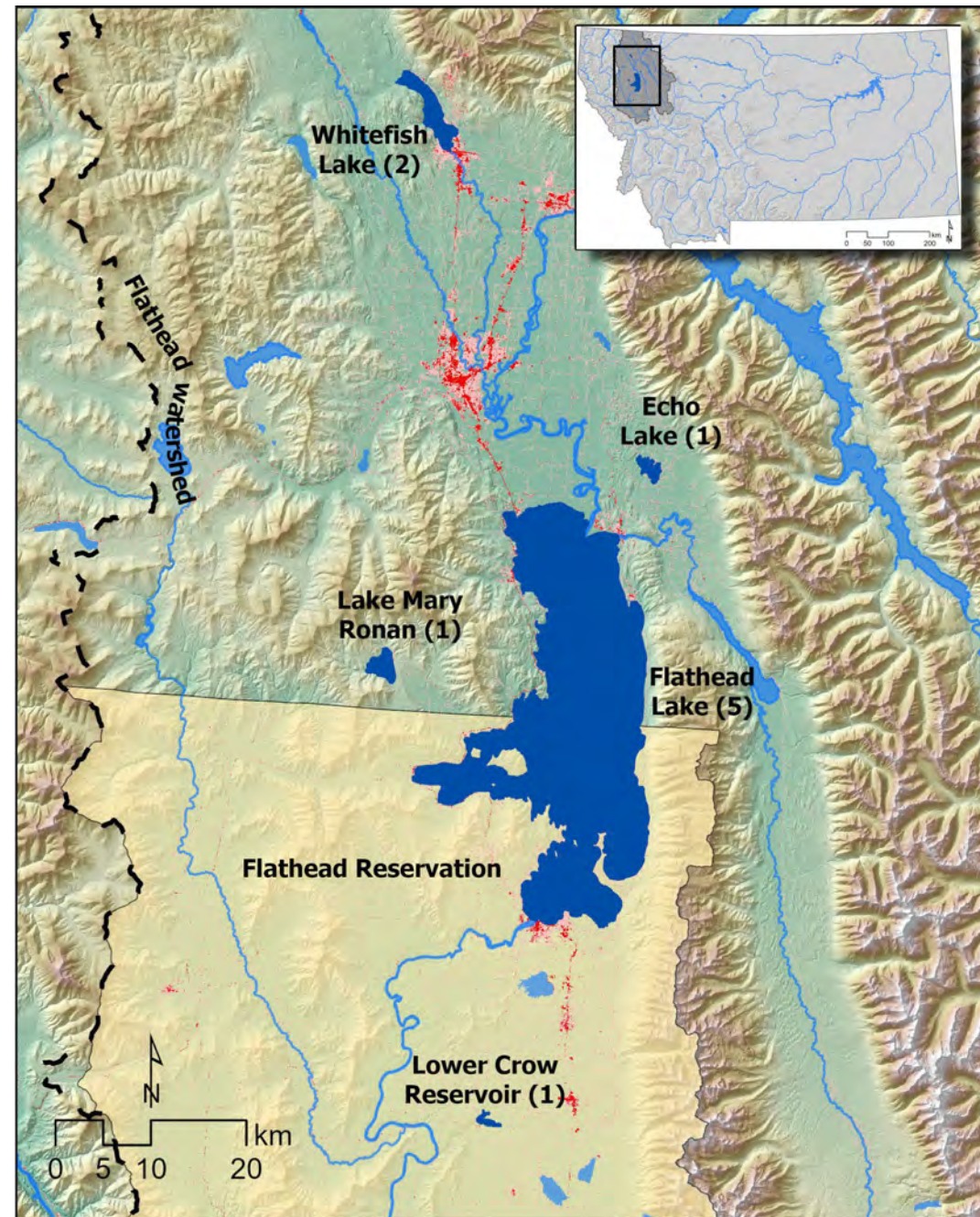


Funding U.S. Environmental Protection Agency
Columbia River Basin Restoration Program



Confederated Salish &
Kootenai Tribes (CSKT
or Tribes)

Manages southern half
of Flathead Lake



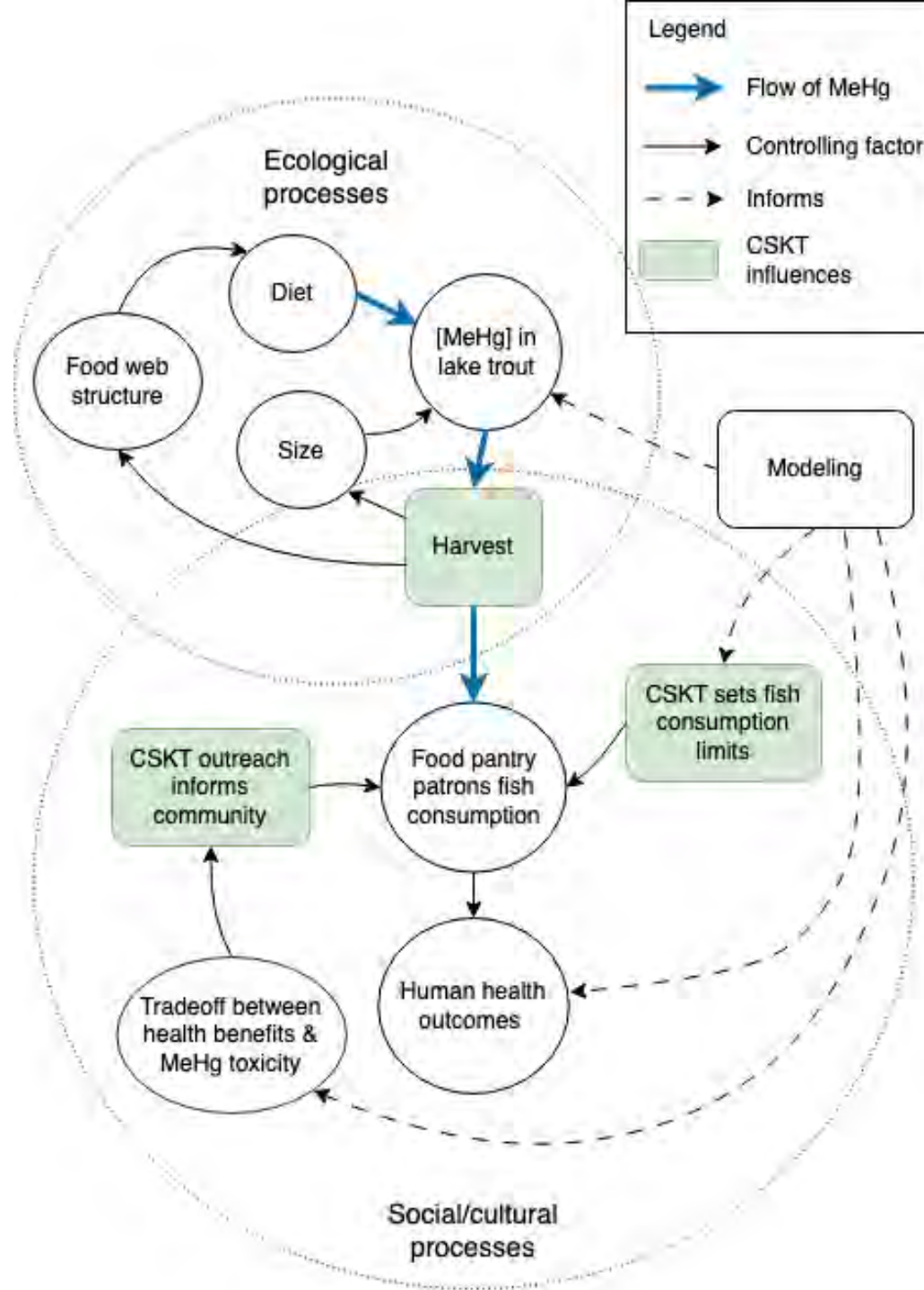
Motivation

- CSKT's decision to suppress non-native lake trout to restore native trout species in Flathead Lake
- Proposed decreases in lake trout abundance will affect Flathead Lake's food web
- Culled fish <24 in. length are processed for sale or donated to local food pantries

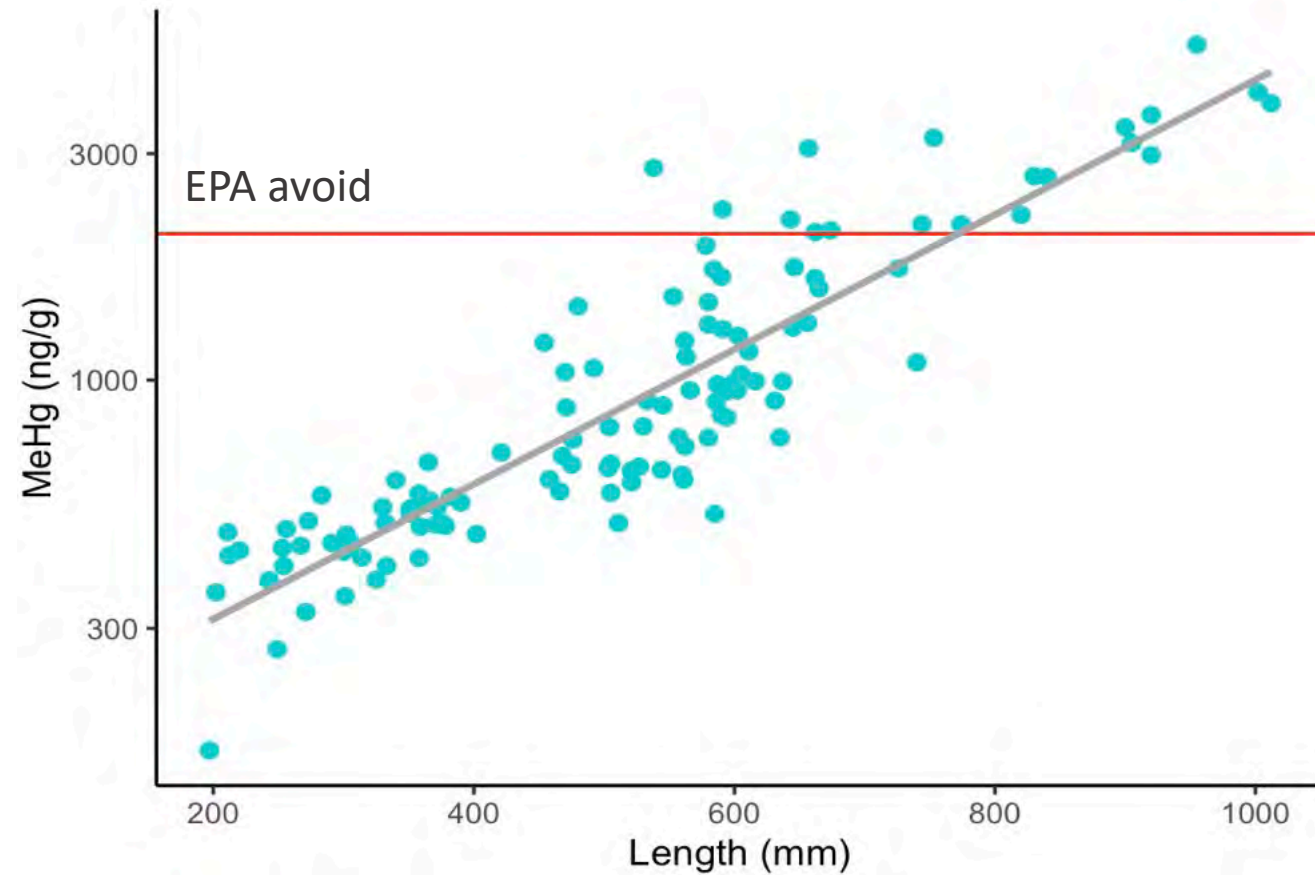
Study Questions

Q1: To what extent do length and trophic level control MeHg concentration in lake trout, lake whitefish and bull trout in Flathead Lake?

Q2: What are the potential health outcomes for Tribal women of childbearing age who eat fish fillets donated to local food pantries?

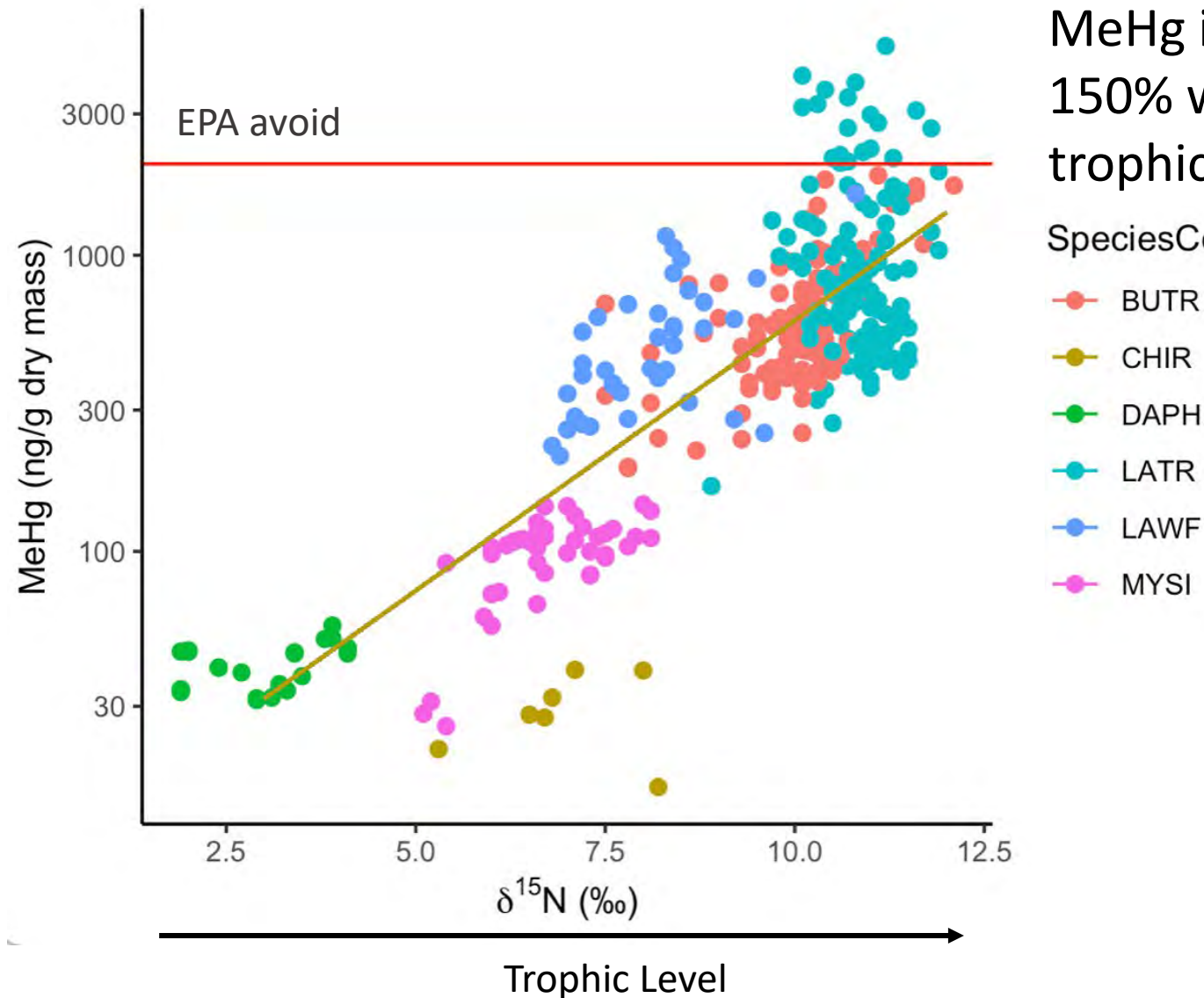


Longer lake trout have more MeHg



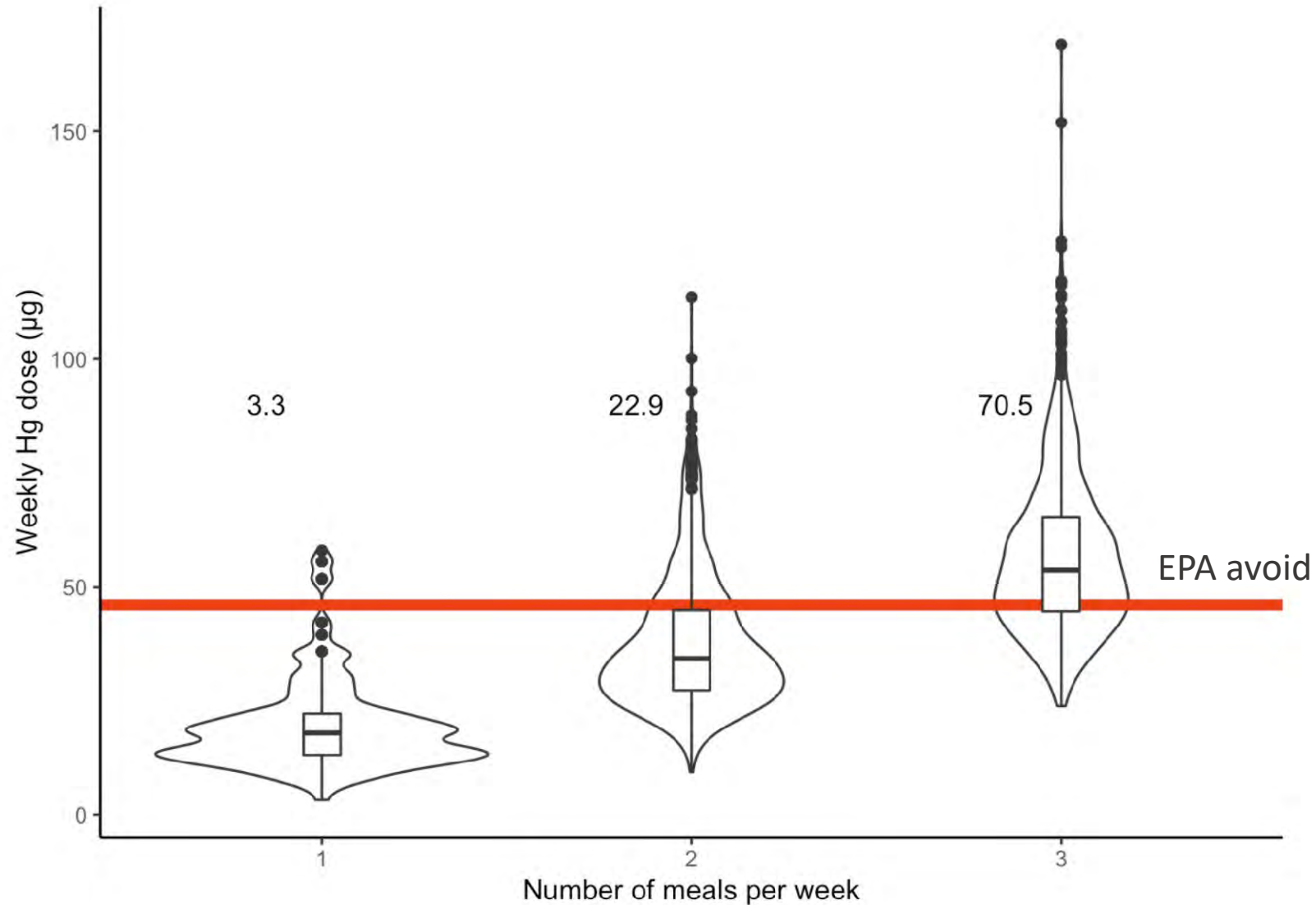
Including length and $\delta^{15}\text{N}$ explains 84% of the variation in MeHg in lake trout

Biomagnification slope estimates the potential for MeHg to magnify in the food web



Slope = 0.42 or
MeHg increases
150% with each
trophic level

Probability of exceeding weekly dose as a function
of numbers of meals eaten of lake trout < 24"



Fish consumption habits were below the recommended 8-12 meals* per month

- **69%** of population ate fish
- Among those who eat fish:
 - **50%** ate 1 meal or fewer per month
 - **45%** ate 2-4 meals per month
 - **5%** ate 5-8 meals per month
 - **0%** ate 9 or more meals per month

*1 meal equals 4 ounces of fish

Take away message on beneficial health outcomes

- Rates of fish consumption were below FDA/EPA guidelines*
- Nutritional benefits that come from eating fish were not maximized.
- Consume an additional serving per week of fish that are lower in Hg such as lake whitefish.

* Unless all fish meals were lake trout from Flathead Lake

WORKING GROUP WORKING FOR YOU



EPA's Columbia River Basin Team



ROBIN PARKER - Columbia River Working Group Lead, Region 10

Robin is the Columbia River Basin Restoration Working Group Coordinator for the EPA. She is located in EPA's Idaho Operations Office in Boise.

MICHELLE WILCOX – Columbia River Grants Team Lead, Region 10

Michelle is located in EPA's Washington Operations Office in Lacey, WA and leads the Columbia River Basin Grant Program in addition to other important water quality work with the State of WA.



PETER MURCHIE – Branch Manager, Region 10

Peter manages the Puget Sound Recovery National Program Office Branch for EPA Region 10, which includes the Columbia River Basin Restoration Program.

CATHERINE GOCKEL – Geographic Programs Section Manager, Region 10

Catherine manages the Geographic Programs Section for EPA Region 10, which includes the Columbia River Basin Restoration Program. She also plays a leadership role in the EPA's work on 6PPD and tire wear particles.





PETER BRUMM - WD/Program Lead, Region 8

Peter is the R8 Columbia River Basin Restoration Program Coordinator who leads R8's efforts to implement CWA Section 123 in Western Montana and Northeastern Wyoming.

LAUREN MCDAID - Project Officer, Tribal Coordination Lead, Region 10

Lauren serves as the Tribal Lead for the Columbia River Basin Team. She started with EPA in June of 2021 as a Pathways Intern and converted in January 2022 to become a Project Officer for the Columbia River Basin Restoration Program in the Idaho Operations Office in Boise.



ASHLEY ZANOLLI – Technical Advisor, Region 10

Ashley supports the Columbia River Basin Restoration Working Group and Toxics Monitoring Subgroup, in addition to important water quality work in the state of OR. She is located in EPA's Portland, Oregon office.

NICOLE TAYLOR - Project Officer, Region 10 (On Detail)

Nicole (Nic) has been the Project Officer for 9 of the Columbia River Grants in addition to Puget Sound Tribal Capacity Grant Program, and the Tribal WIIN 2107 Grant Program. She is currently on a 1-year assignment to the State Revolving Funds Program.



GREG FREY – Facilitator, The Council Oak (contractor)

Greg supports the EPA Columbia River Basin Team as a meeting facilitator, planner, and logistics expert. He has supported the Columbia River Basin Restoration Program since 2020 as a contractor to EPA.

PETER ISMERT - Project Officer, Region 8

Peter is an environmental scientist at EPA Region 8 in Denver and is the grant project officer for the Montana Trout Unlimited and Confederated Salish and Kootenai Tribes.



GREG ANDERSON - Project Officer, Region 8

Greg is an environmental protection specialist at EPA Region 8 in Denver and is the grant project officer for two Columbia River Basin Restoration Program Toxics Reduction Lead grants in Montana.

LISA KUSNIERZ – Monitoring Coordinator, Region 10

Lisa is the Regional Monitoring Coordinator for Region 10 Water Programs and is located in the Idaho Operations Office in Boise. She works with state and tribal water quality monitoring programs and serves in an advisory and coordination role on the Columbia River Toxics Monitoring Subgroup.



MARK JANKOWSKI– Science Advisor, Region 10

Mark is a Toxicologist and Senior Advisor located in EPA's Region 10 Seattle office. He serves in an advisory role on the Columbia River Toxics Monitoring Subgroup.

NICK PEAK - Technical Lead, Region 10

Nick is the Region 10 Agriculture Advisor. He provides leadership in working with the agricultural community and to reduce pesticide and sediment runoff and improve soil health in the Basin.





Columbia River Basin Restoration Program Vision Statement:

“The EPA Columbia River Basin Restoration Program—through the implementation of CWA Section 123—will be a catalyst for basin-wide toxics reduction work efforts, enabling communities to access unimpaired watersheds with healthy fish and wildlife and quantifiable toxics reductions in fish, wildlife and water.”



slido



Vote at: <https://app.sli.do/event/9FC1WU8h9GLQHde1dtMZf9>



**Where in the Basin are you
joining from today?**

① Start presenting to display the poll results on this slide.



Why are you seeking /would you seek connections with others in the Working Group?

① Start presenting to display the poll results on this slide.



What other connections would be helpful?

① Start presenting to display the poll results on this slide.



What expertise would you like to share with others?

① Start presenting to display the poll results on this slide.



What would you like to learn from others?

① Start presenting to display the poll results on this slide.



How would you like EPA to facilitate engagement?

① Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use



**Are there other ways that EPA
can help the Working Group work
for you?**

① Start presenting to display the poll results on this slide.

BREAK



COLUMBIA RIVER BASIN EMERGING TOPICS



Spokane River PCB TMDL

- On October 29th, EPA issued its plan to reduce PCBs in the Spokane River basin in Washington from the Idaho border to the confluence with the Columbia River.
- Reduces the allowable concentration of PCBs discharged into the watershed from the current standard for the State of Washington of 7 picograms per liter to 1.3, the standard **established by the Spokane Tribe of Indians in 2013**.
- PCBs concentrations currently range from about 30 picograms per liter near Post Falls, Idaho to well over 150 through Spokane Valley and into Long Lake (a.k.a. Lake Spokane) in Washington.
- <https://www.epa.gov/newsreleases/epa-issues-final-pcbs-reduction-plan-spokane-river>

Environmental Justice Funding & Tech Assistance Opportunities

- Thriving Community Technical Assistance Centers (TCTAC)
 - R10 Willamette Partnership - <https://nwejc.org/>
 - “Northwest Environmental Justice Center”
 - R10 University of Washington - <https://deohs.washington.edu/cehe/>
 - “UW Center for Environmental Health Equity”
 - R8 MT State University - <https://montana.edu/thrivingcommunities/>
 - “Mountains and Plains Thriving Communities Collaborative (MaPTCC)”
 - National TCTACs
- TCTACs provide:
 - Training and assistance on applying for and managing funding
 - Guidance on community engagement and communication
- Submit a Request for Technical Assistance today!



Environmental Justice Funding & Tech Assistance Opportunities

- Community Change Grants
 - Applications accepted until Nov. 21
- Thriving Community Grant Maker (TCGM) Subawards
 - [R10 Philanthropy Northwest](#) – “Thriving Communities Program”
 - 1st round of applications due 12/15
 - [R8 John Snow Institute \(JSI\)](#) – “MAP EJ Grants Hub”
 - 1st round of applications due 12/12
 - [R8-10 Climate Justice Alliance](#) – “UNITE-EJ”
 - Launch Jan. 2025
 - Plus \$75k noncompetitive awards for severely capacity-constrained orgs
- Closed opportunities
 - Government to Government (G2G) Grants
 - Collaborative Problem-Solving (CPS) Grants
- Email [**Join-epa-ej@lists.epa.gov**](mailto:Join-epa-ej@lists.epa.gov) for EJ alerts

Climate Funding & Tech Assistance

Climate Pollution Reduction Grants (CPRG)

- Large investment of funding and technical assistance
- Supports policies and programs that cut climate pollution
- EPA recently awarded Phase II grants
- General competition (\$4.3B)
 - MT DNRC, OR DEQ, Nez Perce
- Tribal competition (\$300M)
 - Nez Perce



**CLIMATE
POLLUTION
REDUCTION
GRANTS**

U.S. Environmental
Protection Agency

Climate Resilience and Adaptation Funding Toolbox (CRAFT)

- Available to everyone
- Includes:
 - Overview of EPA funding programs
 - Climate risk tools and resources
 - Communication materials



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6PPD and 6PPD-quinone

Updates on Science, Policy, and Action

6PPD and 6PPD-quinone

- 6PPD is a chemical in tires that prevents the rubber from cracking
- 6PPD transforms into 6PPD-quinone (6PPDQ) when exposed to ozone
- Both are emitted in tire wear particles and are found everywhere
- 6PPDQ is acutely toxic to coho salmon

With 6PPD



Without 6PPD



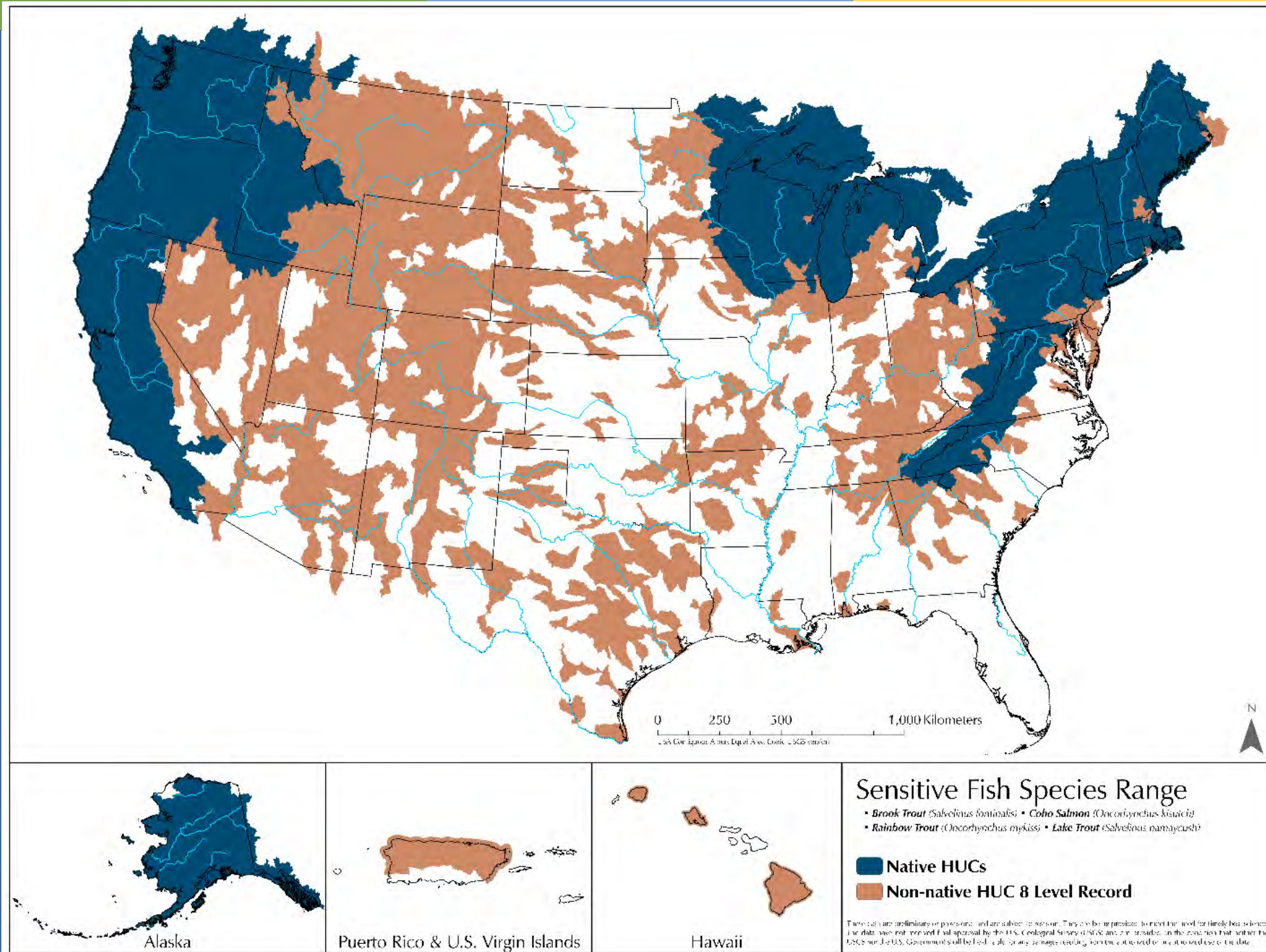
Photo: U.S. Tires Manufacturer's Association



Photo: Clear Creek coho
(courtesy of Wild Fish Conservancy, 2021)

6PPDQ is toxic to:

Coho salmon
Brook trout
Lake trout
Rainbow trout
Steelhead
Coastal
cutthroat trout





Restricting the Use of 6PPD

Safer Products for WA

- 6PPD added as a priority chemical
- Tires added as a priority consumer product
- Recycled tire products being considered as a priority products
- **Next steps:** Public comment period, then issuance of report in June 2025



Photo credit: [Rubberecycle Mulch](#)
Changes made: cropped to square

Artificial Turf Runoff Study



Photo: recycled tires used for artificial turf fields.

- Are toxic chemicals from artificial turf entering the environment through stormwater runoff?
- Data will inform the product replacement program
- Measure 6PPDQ and PFAS
- Various field ages and with different infill types, including crumb rubber
- **Actively looking for participants in Central and Eastern Washington**

6PPDQ impacts on Freshwater Mussels

- 6PPD, 6PPDQ, and potential alternatives
- Effects of chemical exposure on the reproductive cycle of both Fatmucket Mussels (*Lampsilis siliquoidea*) and western mussels
- USGS Columbia Environmental Research Center
- Western mussels supplied by the Confederated Tribes of the Umatilla Indian Reservation (CTUIR)





Preventing 6PPDQ from entering stormwater and surface waters

Aquatic Life Toxics Criteria: 6PPD-quinone

- August 2024: Ecology adopted rule and submitted to the EPA for review and approval.
- Next step: Endangered Species Act consultation (NOAA)

	FW Acute (µg/L)	FW Chronic (µg/L)	SW Acute (µg/L)	SW Chronic (µg/L)
Washington	-	-	-	-
EPA	0.011	-	-	-
Final Rule	0.012 (1-hour)	-	-	-

Reducing stormwater pollution



Photo: A bioretention swale in a residential area.

- Results from laboratory studies
 - Sorbent treatment media (including bioretention soil mixes, compost, granular activated carbon, and biochar) can reduce 6PPDQ
- Research informs **stormwater permits and manuals**

Give input on priority stormwater retrofit locations

WSDOT is prioritizing tribal input provided in the Survey123 when considering where to invest in stormwater retrofit projects

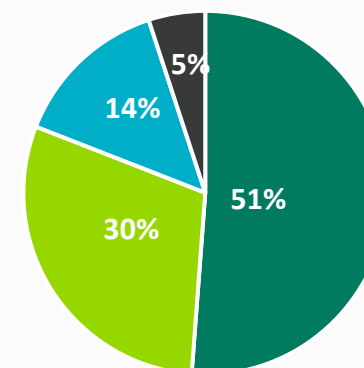
12 of the 29 federally recognized tribes in Washington have participated
The survey remains open for additional participation

Learn more about the survey [here](#)

Access the Survey123 with the link above or the QR code below



**Survey Locations Provided To Date
by Entity**



■ cities & towns ■ tribes ■ counties ■ interest groups & others



Finding 6PPDQ in areas with sensitive aquatic organisms

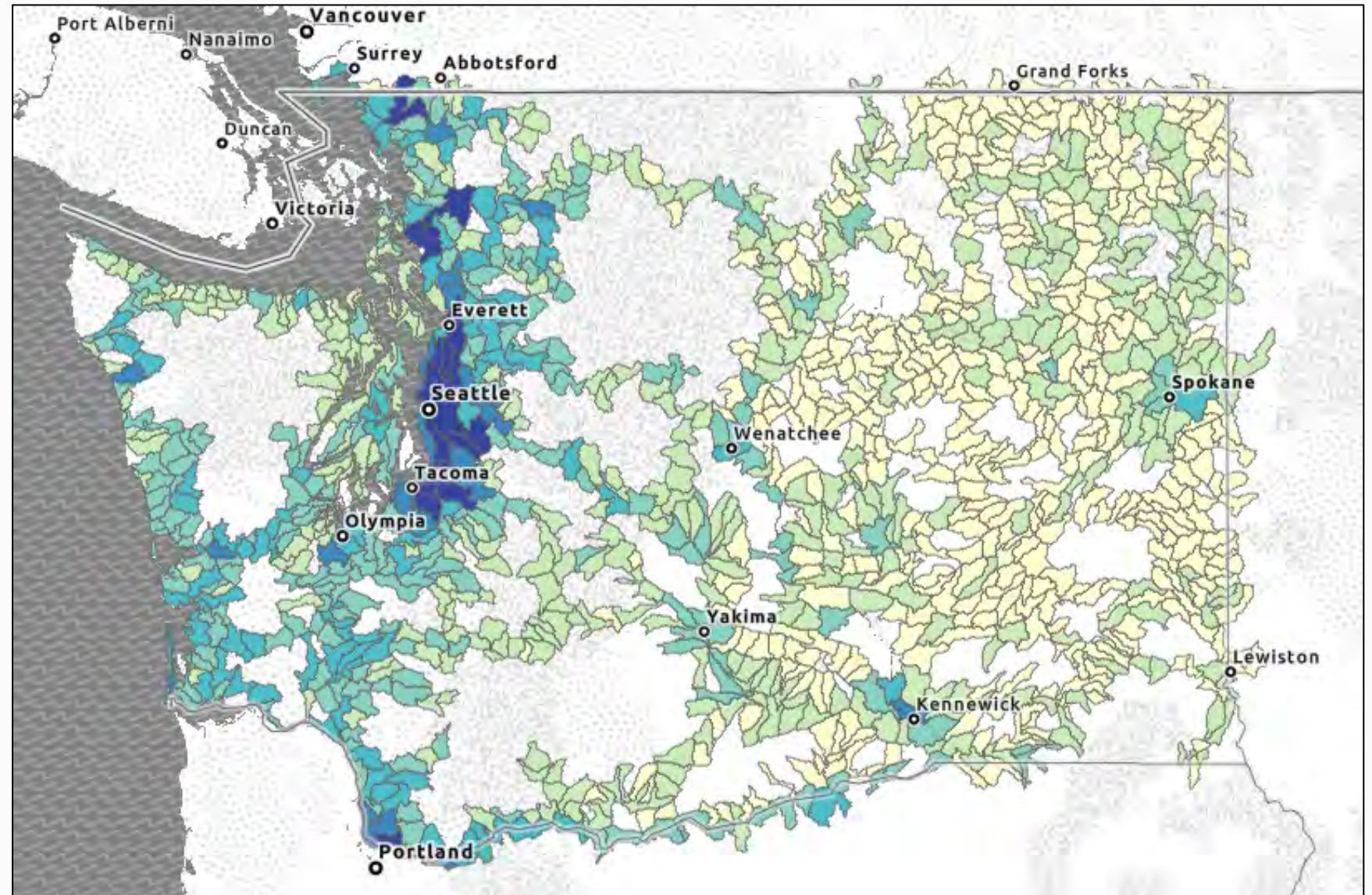
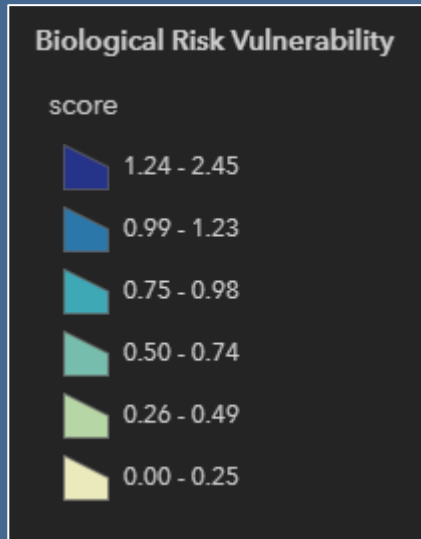
Developing and evaluating measurement methods

- Field Sampling Standard Operating Procedure
- Need training?
 - ATNI Natural Resources Summit



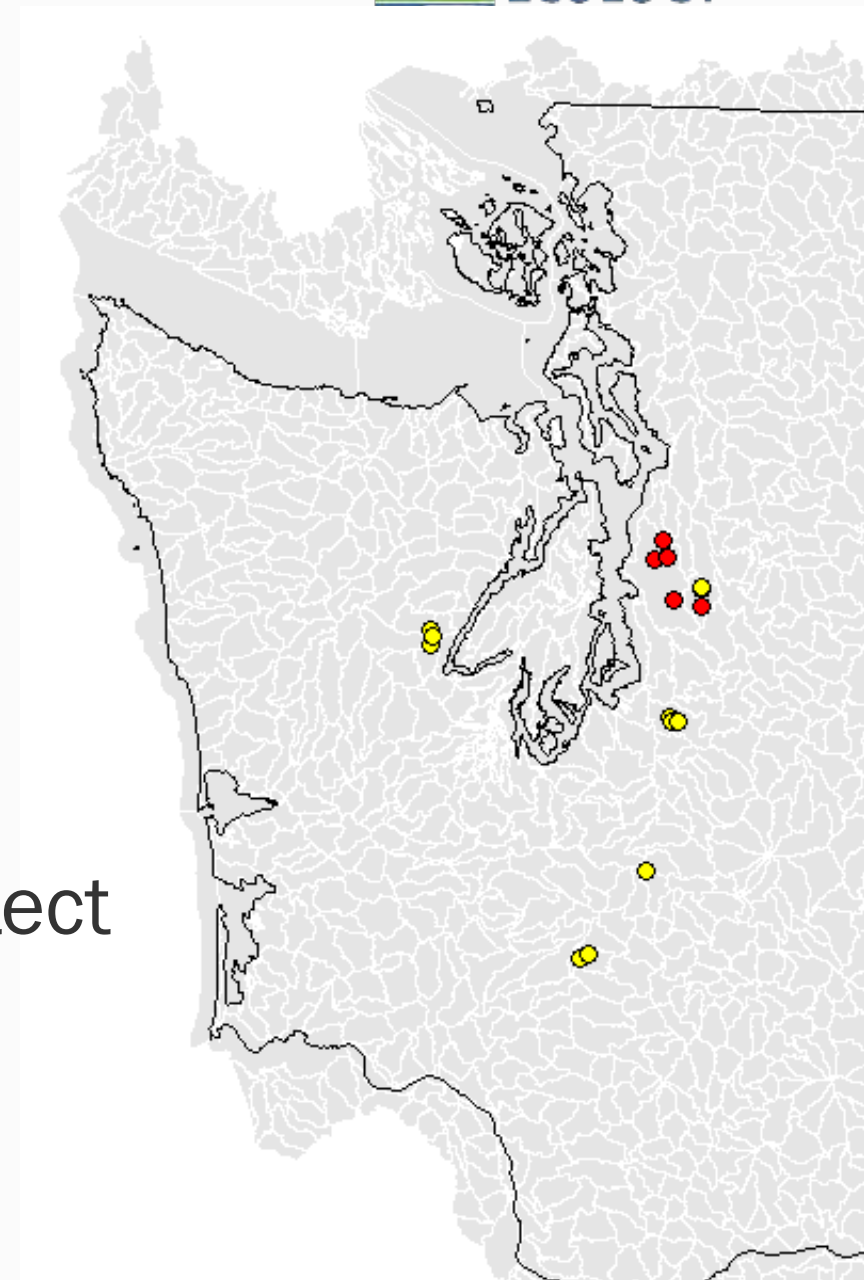
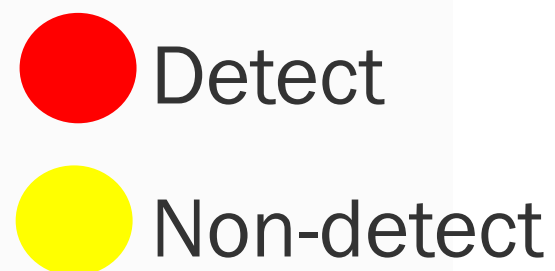
Photos: Ecology field sampling.

Finding 6PPDQ in the environment



Passive sampling results

- 6PPDQ was only detected in the high urban, high traffic lakes

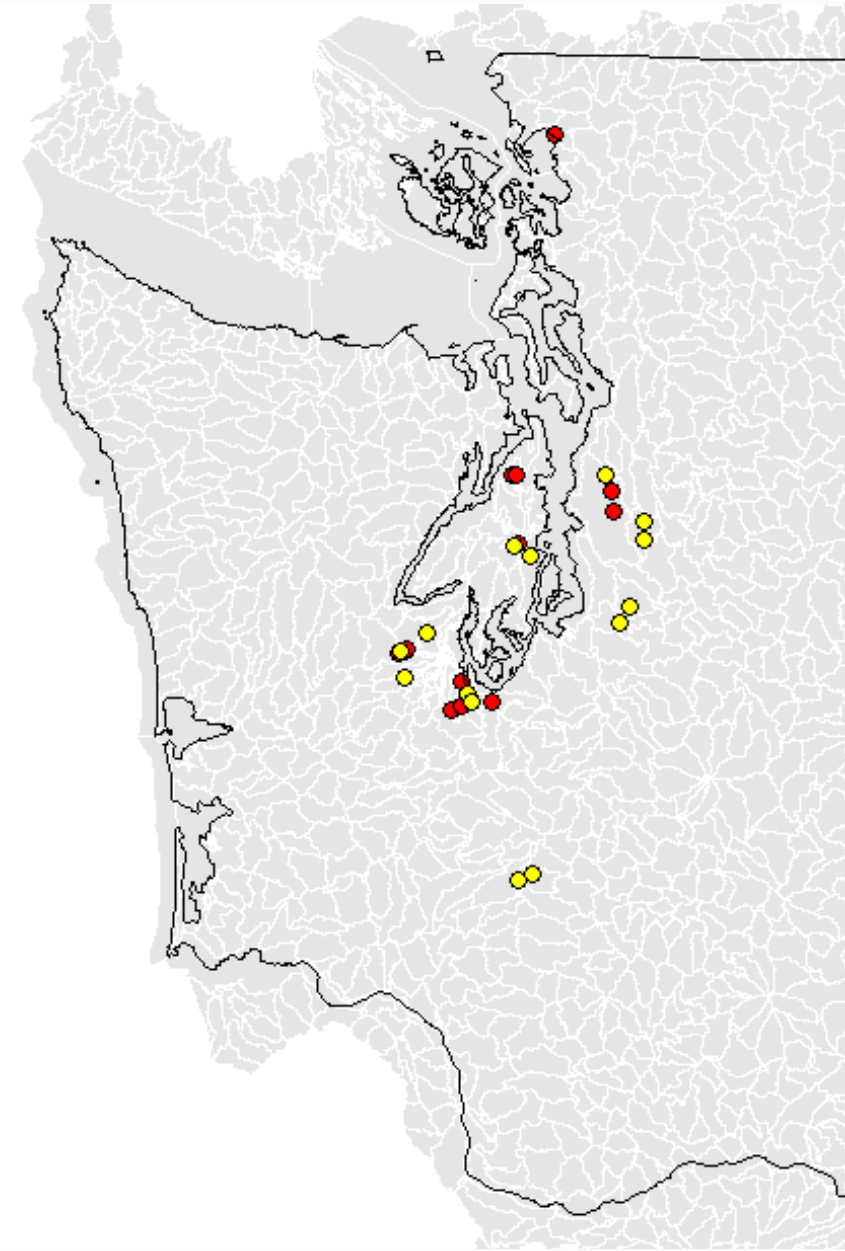


Autosampling and grab results

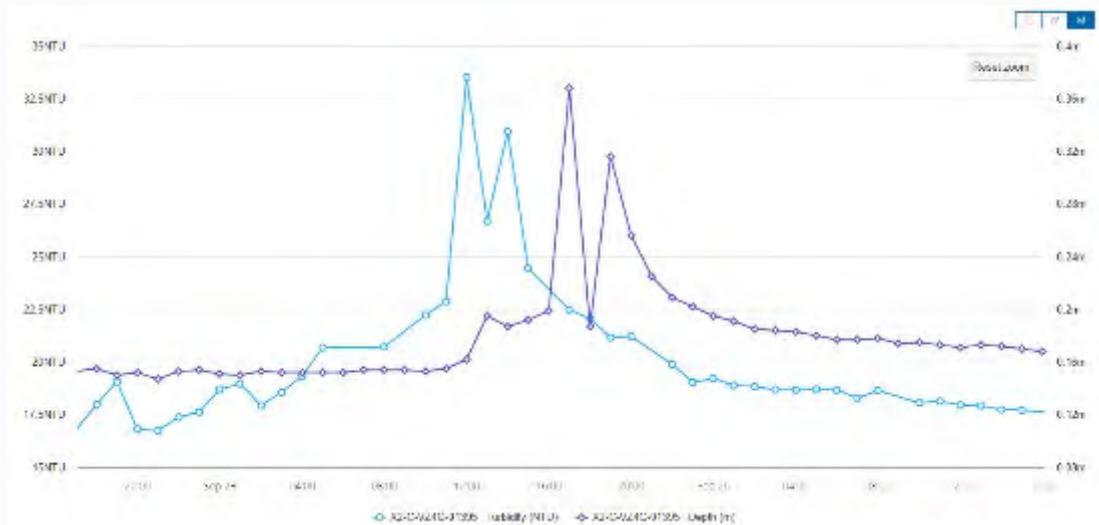


● Detect

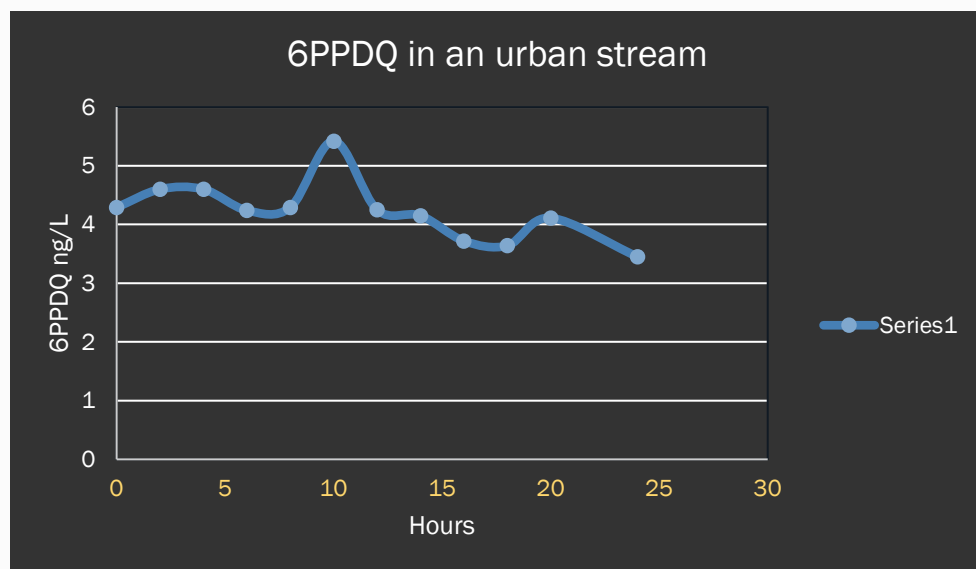
● Non-detect



Automated stream stations



Light rain event





6PPD Engagement Opportunities

ATNI – 6PPD Workshop

- ATNI Natural Resources Summit
- November 18-20, Tulalip Tribe Resort & Casino

Stormwater
Projects

Human Health
and Exposure
Potential

Ecotoxicology

Fish Tissue
Sampling

Safer
Alternatives

Salmon
Recovery
Planning

Sampling and
Monitoring
Training

Stay Informed

- Monthly 6PPD newsletter
 - Research updates
 - Upcoming meetings
- 6PPD Science Network - quarterly
- 6PPD State of the Science meeting
(Fall 2025): Seattle, WA

6PPD and 6PPD-quinone email list



<https://public.govdelivery.com/accounts/WAECY/signup/40161>

6PPD Action Plan

Scan QR code for a direct PDF download of the Data Gaps, Research Needs, and Recommendations to Inform Future 6PPD Action Plan Work



Questions?



ADA Accessibility

The Department of Ecology is committed to providing people with disabilities access to information and services by meeting or exceeding the requirements of the Americans with Disabilities Act (ADA), Section 504 and 508 of the Rehabilitation Act, and Washington State Policy #188.

To request an ADA accommodation, contact Ecology by phone at 360-407-6831 or email at ecyadacoordinator@ecy.wa.gov. For Washington Relay Service or TTY call 711 or 877-833-6341. Visit [Ecology's website](#) for more information.

For more information:

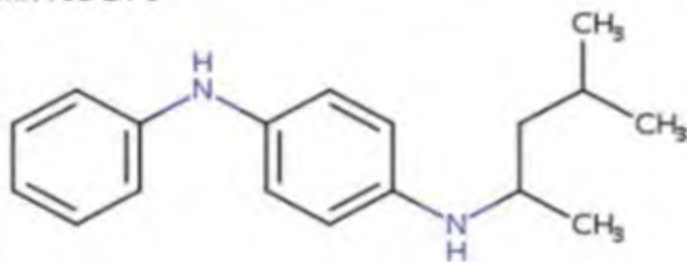
Tanya Williams

6PPD Agency Lead

tanya.williams@ecy.wa.gov

6PPD-quinone

(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine
CASRN 793-24-8

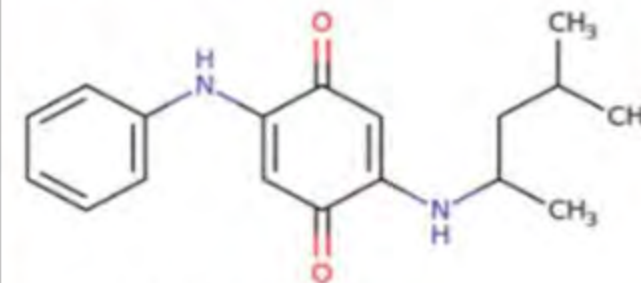


6PPD



ozone

Quinone degradant (6PPD-quinone)



6PPD-Quinone

Catherine Gockel, EPA Region 10



Key EPA Actions to Address 6PPD quinone (non-exhaustive list)

- Responding to a petition under the Toxic Substances Control Act
- Funding research for innovating tire chemistry
- Coordinating with federal partners, Tribes, states, and industry
- Conducting and funding research to address data gaps
- Developed a draft Clean Water Act analytical method
- Published water quality screening values to protect aquatic life
- Providing funding for stormwater treatment including green infrastructure





Active Coordination and Engagement on 6PPD-quinone

- Cross-EPA 6PPD-quinone workgroup
- Puget Sound Federal Leadership Task Force, Treaty Rights at Risk Initiative
- National Science and Technology Council's (NSTC's) Joint Subcommittee on Environment, Innovation and Public Health
- Interstate Technology and Regulatory Council (ITRC) 6PPD-Q Workgroup
- CA Department of Toxic Substances Control (DTSC)
 - Priority Product: Motor vehicle tires containing 6PPD
- WA State Department of Ecology



ENGAGING NEW PARTNERS



BREAK





Image: Greg Shine



Columbia River Basin Restoration Program Toxics Monitoring Subgroup Update

OCTOBER 31, 2024

TOXICS MONITORING SUBGROUP

Purpose: Develop a community of practice to share information on monitoring, and leverage activities within and outside of EPA funded grants.

Three virtual meetings and one workshop each year



CORE TEAM PROJECT UPDATES

- Matrix
- Dashboard
- Screening values

MONITORING MATRIX CONTENT

Project Basics

- Title & Purpose
- Lead entity & contact info
- Geographic scope & mainstem or tributary
- Monitoring start/end dates
- Monitoring type

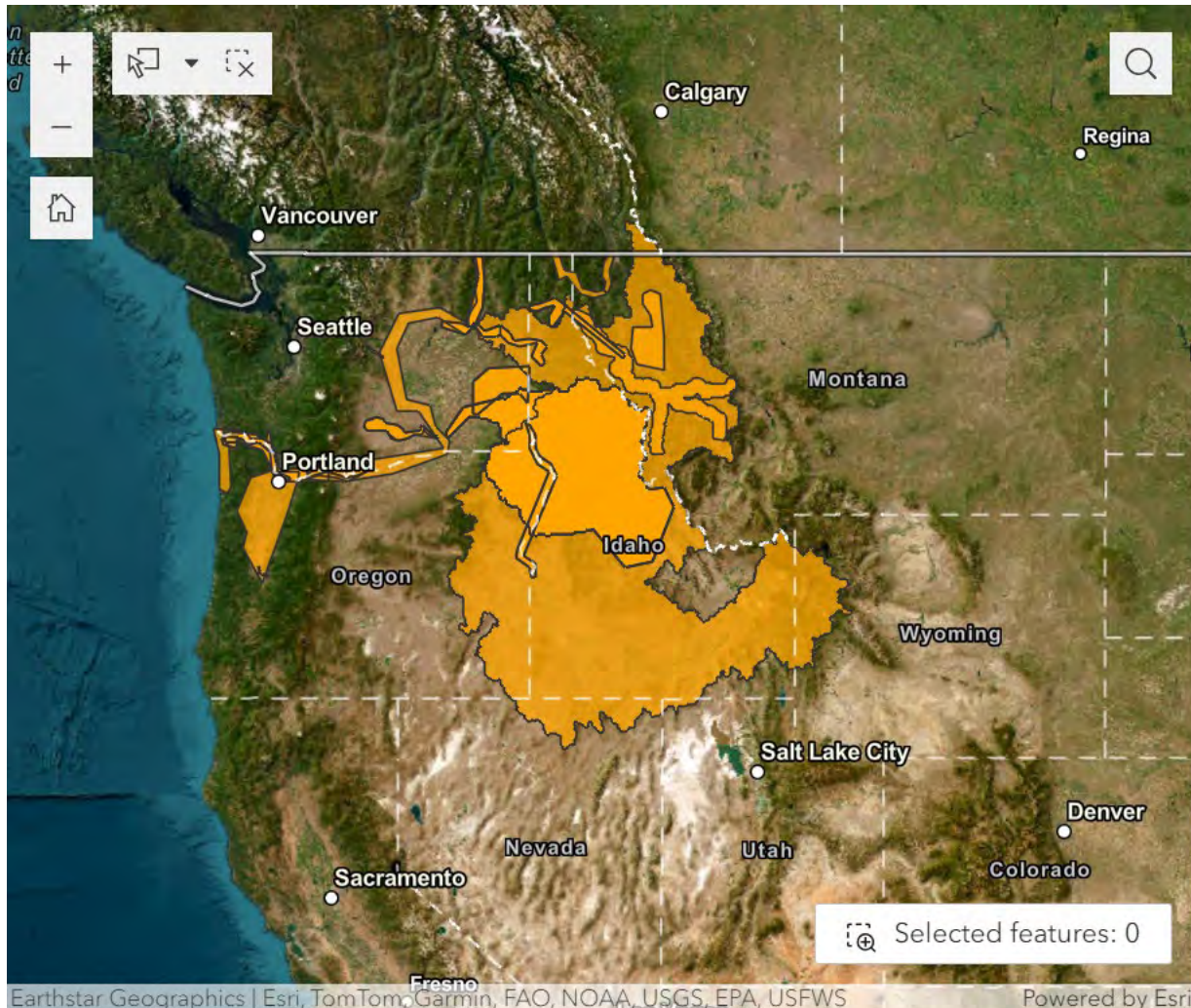
Parameters and Methods

- Parameters monitored
- Sampling site #s & frequency
- Media
- QAPP
- Analytical method – CWA/other or novel?

Looking Forward

- Comparison thresholds?
- Primary source pathway?
- Mitigation solution proposed?

MONITORING PROJECT DASHBOARD TO VISUALIZE MATRIX DATA: FILTERS AND FUNCTIONALITY



- **Monitoring location** (polygons created by monitoring project leads)
- **Parameters monitored** (ex. Hg – metal – tier 1 EPA prioritization – not a persistent organic pollutant)
- **Media sampled** (ex. surface water, sediment, crayfish, fish tissue, etc.)
- **Primary source pathway** being investigated
- **Methodology** (ex. Standard, Clean Water Act (CWA) approved, or novel analytical method)

Example dashboard output when filtering for pesticides

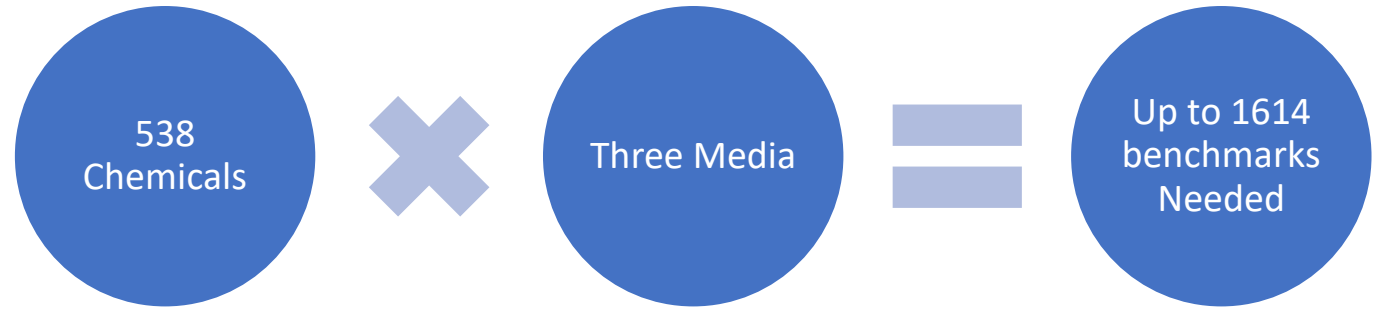


Toxics Matrix Polygons



Unique identifier	Project title	Project purpose	Lead entity	Entity conductin...	Monitoring type	Ge...
44-02J21401	Phase 2 Pilot Implementa...	The primary purpose of t...	Confederated Tribes and ...	Nakama Nation, U.S. Geolo...	statistical/probabilistic	bro
RB-01J72901	Clearwater River (Idaho) ...	Collaborate with partners ...	Nez Perce Tribe	Nez Perce Tribe - Water Re...	fixed-site, targeted	loc
44-02J22501	Upper Columbia River Tox...	Undertake planning and p...	Confederated Tribes of th...	Confederated Tribes of th...	targeted	bro
RB-02J13601	TLC: Tracking Toxics in the...	LCEP's goal for our toxic c...	Lower Columbia Estuary P...	U.S. Geological Survey	targeted	bro

SCREENING VALUE UPDATE



- Need for consensus screening values to aid with interpretation of monitoring data across the basin
- Starting with ecological screening values but crossover with human health is possible
- Program QAPPs have been reviewed: 538 chemicals being monitored
- Currently identifying existing benchmarks to prioritize benchmark selection and development

UPCOMING MEETINGS

Next TMS Meeting

- January, date TBD
- Virtual

TMS Workshop

- ½ day in conjunction with the May 2025 CRBRP Working Group Meeting
- Hybrid

Want to join the TMS distribution list?

- Email us at gs-crbtoxmon@usgs.gov



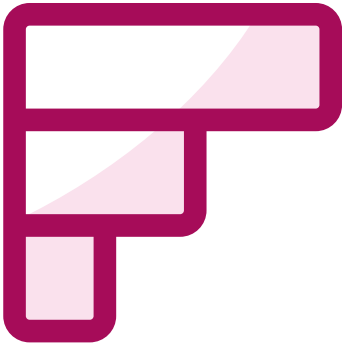
QUESTIONS FOR POLLS

1) Here are some science needs we've heard. Please rank your priorities for next TMS meeting in January:

- Methods recommendations for comparability
- QAPP development
- WQX support
- Tips for lab selection
- Data management best practices

2) What other science needs can TMS help address in 2025?

3) Would you be more interested to attend the spring TMS workshop if we co-host it with the WG meeting?



**Here are some science needs we've heard.
Please rank your priorities for next TMS
meeting in January:**

① Start presenting to display the poll results on this slide.



What other science needs can TMS help address in 2025?

① Start presenting to display the poll results on this slide.



Would you be more interested to attend the spring TMS workshop if we co-host it with the WG meeting?

① Start presenting to display the poll results on this slide.

ROUND ROBIN PARTNER ANNOUNCEMENTS



PLANNING THE MAY 2025 WORKING GROUP MEETING





Would you attend an in-person meeting in Bend or Redmond, OR in May 2025?

ⓘ Start presenting to display the poll results on this slide.



What themes or topics would you like to discuss at the May 2025 Working Group meeting?

① Start presenting to display the poll results on this slide.



What would you like the Working Group to accomplish together as an outcome of the May 2025 meeting?

① Start presenting to display the poll results on this slide.

Thank you for your feedback!

Please complete our
brief meeting
evaluation at
www.slido.com and
enter the code #CRBRP

Or, scan the QR code
below.





Columbia River Basin Restoration Program Working Group Virtual Meeting

October 31, 2024

