

Meeting Materials

Materials for Presentation:

- CRBRP Monitoring Project Descriptions
- Map of CRBRP Project Areas to be Monitored
- CRBRP Monitoring Project Contaminants, Media, and Analytical Methods

Additional informational attachments include:

- 2010 Columbia River Basin Toxics Reduction Monitoring Action Plan Items
- Monitoring Literature references
- Columbia River Basin Long Term Monitoring Strategy Development Questions

Overview of Current Columbia River Basin Grant Projects

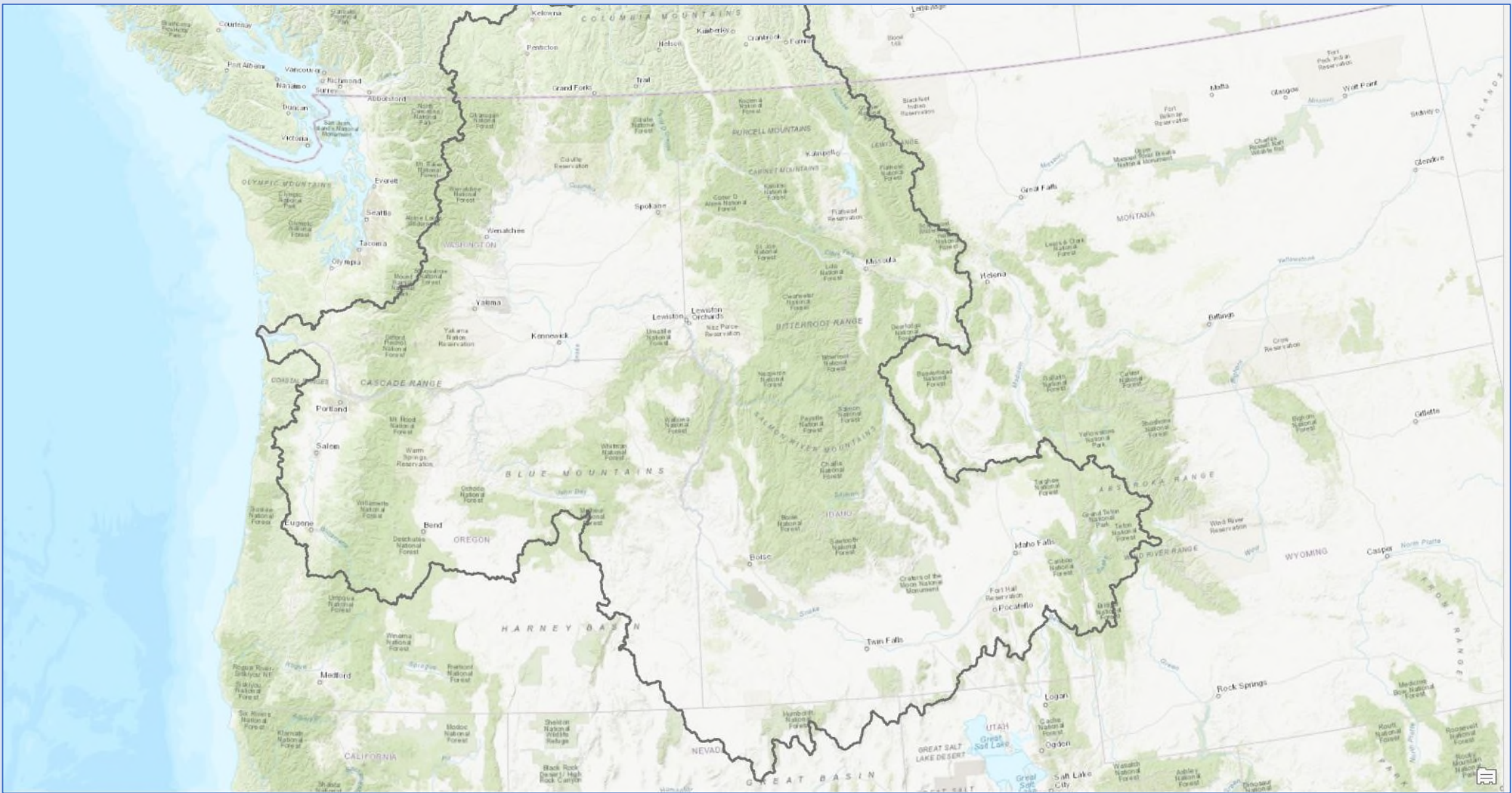
Lon Kissinger: EPA Region 10
Laboratory Services and Applied Science Division

Arthur Preston: MPH Candidate 2021
OHSU-PSU School of Public Health
Environmental Systems and Human Health

Descriptions of Grantees and Projects

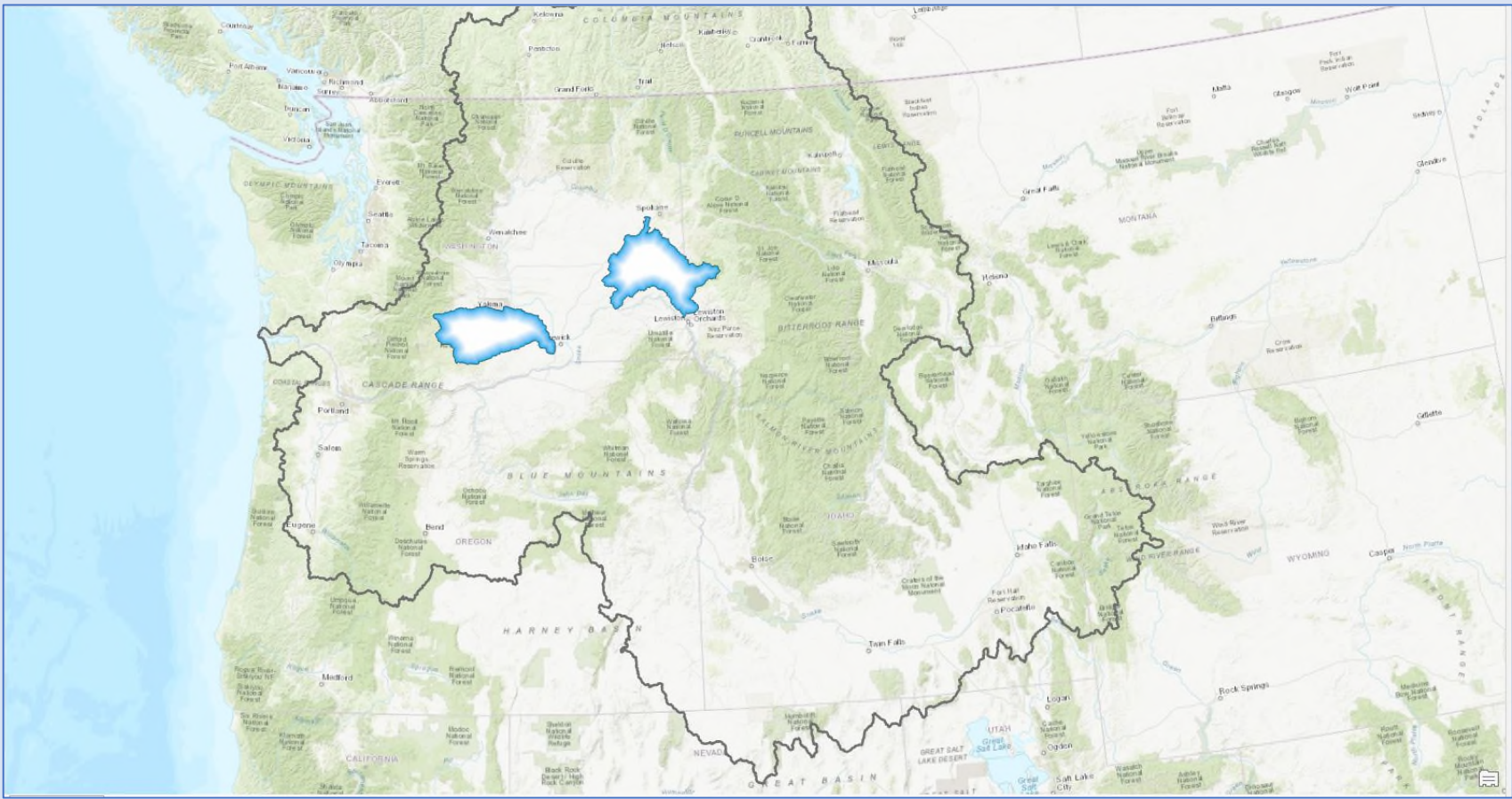
Summary of Current Columbia River Basin Toxics Reduction Workgroup Grantee Monitoring Work	
Nez Perce Tribe in partnership with the University of Idaho and U.S. Fish and Wildlife Service	<p>Work to be completed: Monitor current <i>Clearwater River (Idaho) watershed</i> conditions for toxics/pollutants, including several Columbia River Basin <u>priority</u> Tier I and II toxics in biota (i.e. fish, mussel, lamprey ammocoetes), water, and sediment.</p> <p>Objectives:</p> <ol style="list-style-type: none">1) Supplement Clearwater River watershed data2) Fill data gaps for middle-upper Columbia River Basin3) Provide baseline data for the Clearwater River watershed to inform future monitoring and trend evaluation
Regents of the University of Idaho	<p>Work to be completed: Monitor mercury in crayfish, in two sub-water sheds, the <i>Spokane River and Boise River basins</i>. Local citizens affiliated community group members will collect the organisms. Communicate results to local communities.</p> <p>Objectives:</p> <p>Support the following Columbia River Basin Research Priorities:</p> <ol style="list-style-type: none">1) Increase monitoring data available for mercury, a priority pollutant in the Columbia River Basin, to support status and trends evaluation.2) Facilitate community engagement and education regarding mercury's environmental health risks via community participation in monitoring mercury levels in crayfish, a charismatic invertebrate

Columbia River Basin



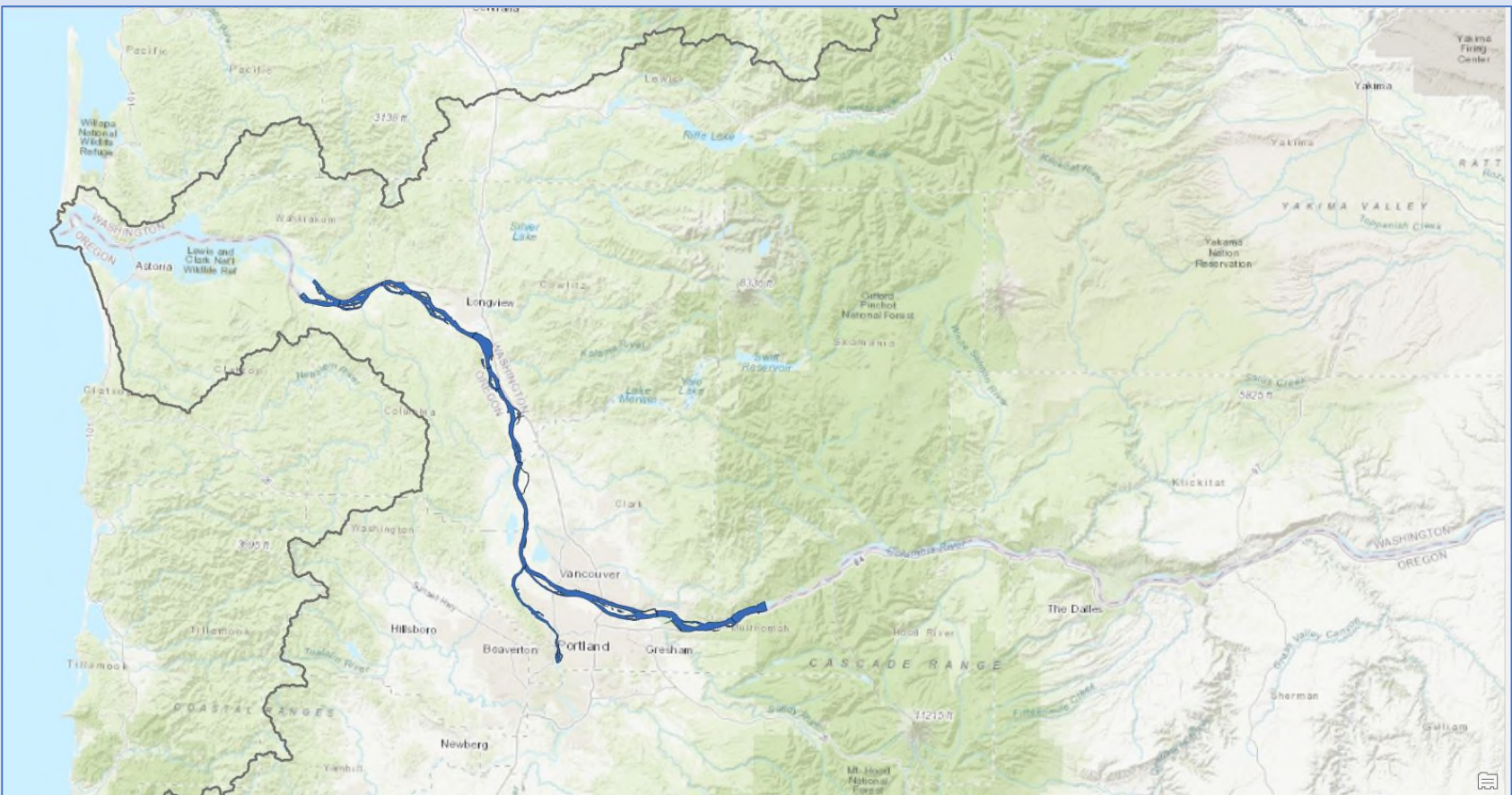
Washington State Department of Agriculture

Monitor pesticides in *eastern Washington* to support education and pesticide collection efforts.



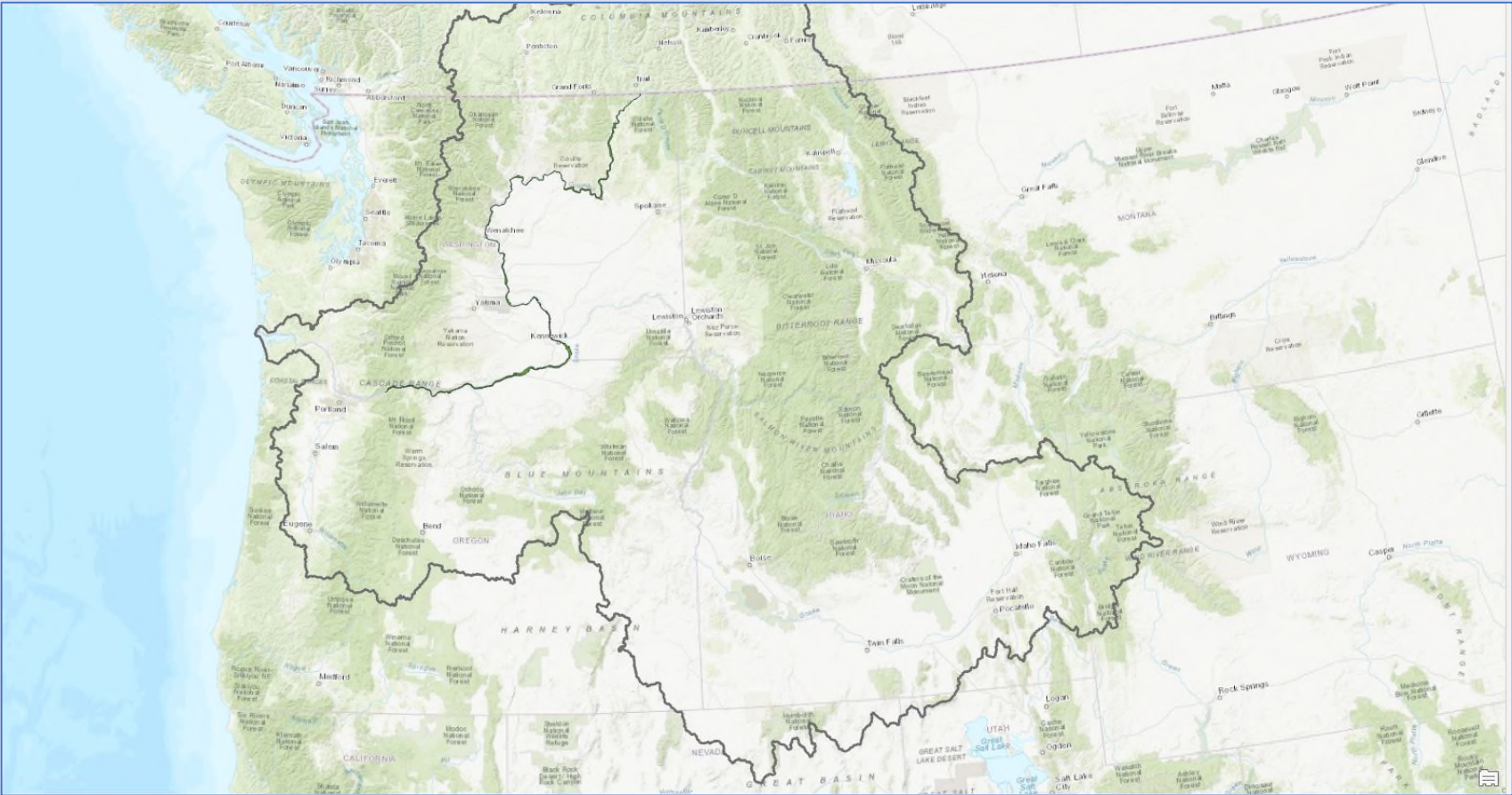
University of WA Tacoma at the Center for Urban Waters

Characterize emerging chemicals of concern in *Columbia River waters* using non-targeted analysis with liquid chromatography/mass spectrometry. Compare levels to adverse effect levels.



Confederated Tribes and Bands of the Yakama Nation

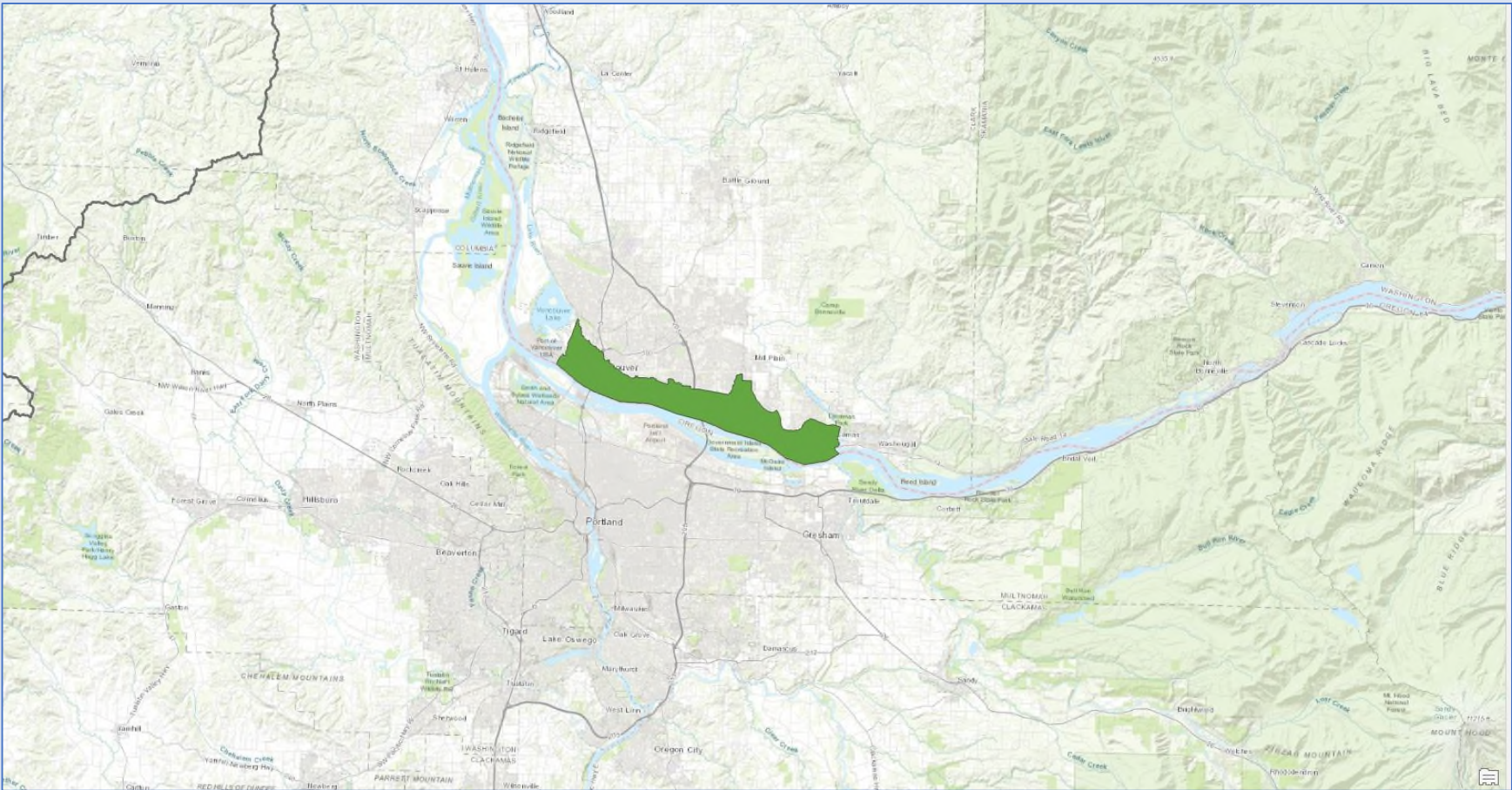
Develop Monitoring Framework/
Community/
Engagement-Outreach
Long-term Monitoring Plan to track toxics status and trends of in fish, water, sediments, and invertebrates in the ***Middle and Upper Columbia River mainstem.***



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City of Vancouver

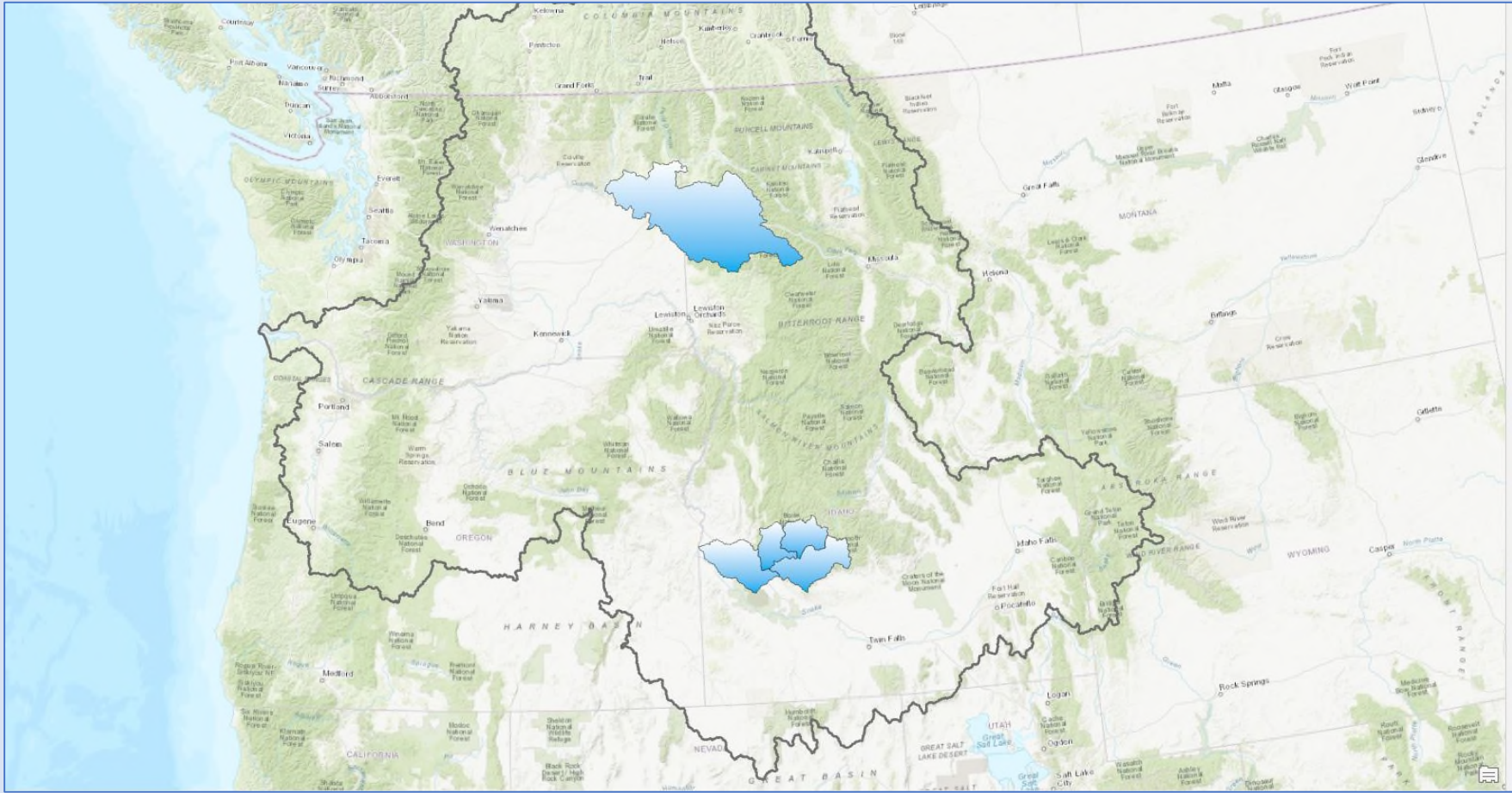
Conduct water quality monitoring in the ***Columbia Slope sub-watershed within Vancouver city limits*** to support storm water control infrastructure development.



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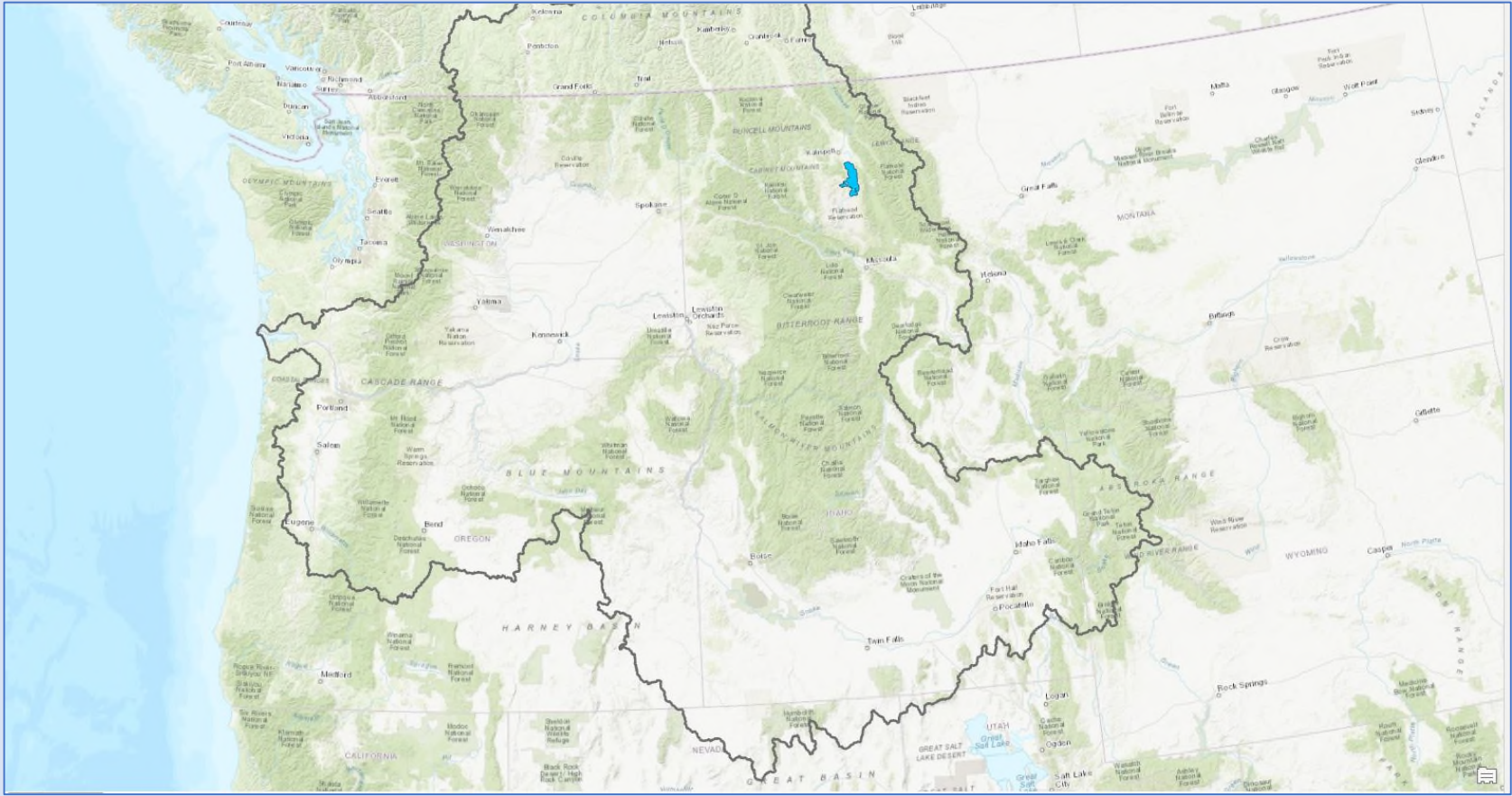
University of Idaho

Monitor mercury in crayfish, in the ***Spokane River and Boise River basins.*** Local citizens affiliated community group members will collect the organisms. Communicate results to local communities.



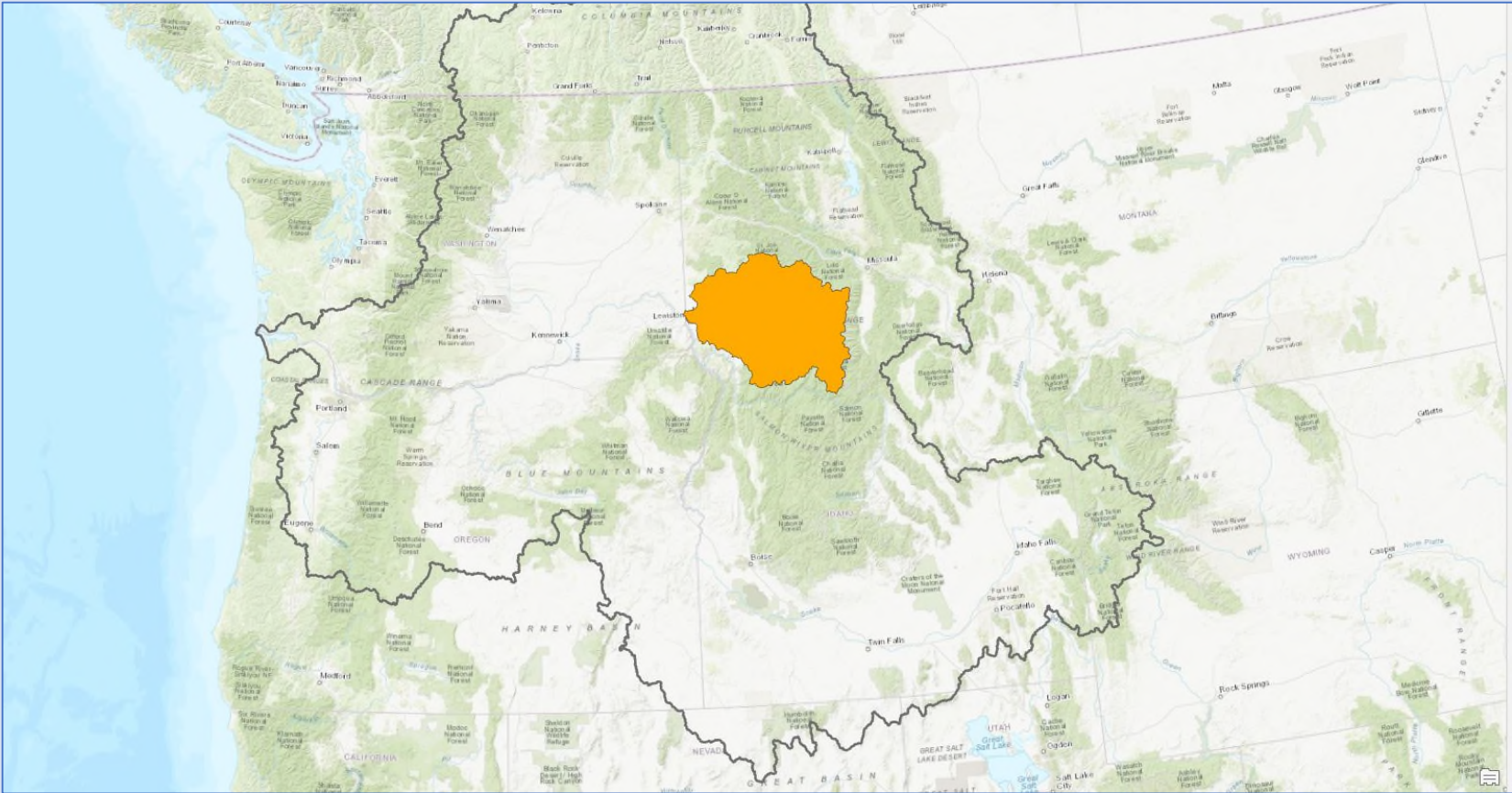
University of Montana

Monitor Flathead Lake mercury bioaccumulation and changes in the food web after culling 75% of lake trout. Characterize mercury levels in mountain whitefish. Survey food panty patron lake trout consumption and awareness of fish consumption advice. Use information to evaluate mountain white consumption advice and to discuss/develop a community engagement plan.

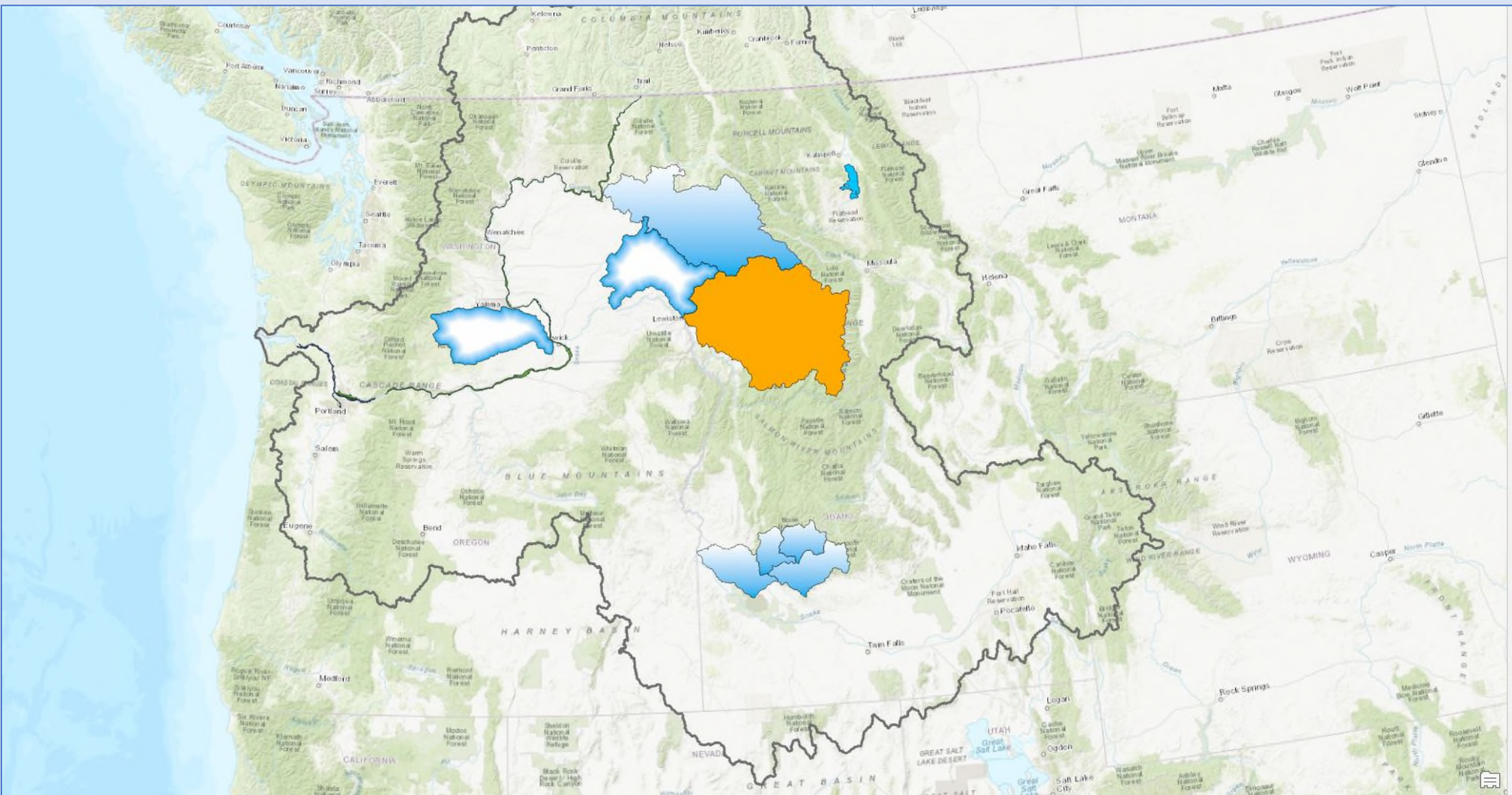


Nez Perce

Monitor current ***Clearwater River (Idaho) watershed*** for toxics/pollutants, including several Columbia River Basin priority Tier I and II toxics in biota (i.e. fish, mussel, lamprey ammocoetes), water, and sediment.



Monitoring Areas for All Grantees



Grantees-Contaminants-Media-Methods:

Chemicals, Grantees, Media

Contaminant(s)	Grantee and Project Specific Sample Matrices															
	Nez Perce Tribe in partnership with the University of Idaho and U.S. Fish and Wildlife Service			Confederated Tribes and Bands of the Yakama Nation in partnership with the WA Dept. of Ecology, U.S. Geological Survey, & Columbia River Intertribal Fish ² Commission			City of Vancouver		WA Department of Agriculture		University of Washington Tacoma at the Center for Urban Waters		Regents of the University of Idaho		University of Montana in partnership with the Confederated Salish Kootenai Tribes, and Salish Kootenai College	
	Water	Sed.	Tissue ¹	Water	Sed.	Tissue	Water	Water	Sed.	Water	Tissue ³	Tissue ⁴				
Mercury Related																
Isotopes, 615N & 613C																
Mercury (total)				?	?	?										
Mercury, Methyl				?	?	?										
Chemicals of Emerging Concern ⁵				?	?	?										
Pesticides (Incomplete, SEE WA Dept. of Agriculture Worksheets)				?	?	?										
DDT/DDD/DDE				?	?	?										

Grantees-Contaminants-Media-Methods:

Chemicals, Media, Methods, Grantees

Contaminant(s)	Matrices/Methods and Grantees Using Them					
	Water		Sediment		Tissue	
	Method	Grantee	Method	Grantee	Method	Grantee
Mercury Related						
Isotopes, δ15N & δ13C						
Mercury (total)	1631	NPT	1631	NPT	1631	NPT, UId
					EPA 7473	UMo
Mercury, Methyl					1630 Mod	NPT, UMo

Grantees-Contaminants-Media-Methods: *WA Dept. of Agriculture Analytes in Sediment and Water*

Pesticides to be Analyzed for in Water by the Washington State Dept. of Agriculture						
Chemical Name	RS_CHAR_NM ¹	RS_CHAR_CAS_NR	MEL_ANALYSIS_CD ²	Extraction Method	Analytical Method	Instrument
1-(3,4-Dichlorophenyl)-3-methylurea	1-(3,4-Dichlorophenyl)-3-methylurea	3567-62-2	CARBAMQ3DI	NA	EPA SW8321BM	LC-MS/MS
Triazine HA Degradate	2-Hydroxyatrazine	2163-68-0	CARBAMQ3DI	NA	EPA SW8321BM	LC-MS/MS
Acephate	Acephate	30560-19-1	CARBAMQ3DI	NA	EPA SW8321BM	LC-MS/MS
Acetamiprid	Acetamiprid	135410-20-7	CARBAMQ3DI	NA	EPA SW8321BM	LC-MS/MS
Acetochlor ESA	Acetochlor ESA	187022-11-3	CARBAMQ3DI	NA	EPA SW8321BM	LC-MS/MS
Afidopyropen	Afidopyropen	915972-17-7	CARBAMQ3DI	NA	EPA SW8321BM	LC-MS/MS
Aldicarb Sulfoxide	Aldicarb Sulfoxide	1646-87-3	CARBAMQ3DI	NA	EPA SW8321BM	LC-MS/MS
Aminocyclopyrachlor	Aminocyclopyrachlor	858956-08-8	CARBAMQ3DI	NA	EPA SW8321BM	LC-MS/MS