Overview of Results Fish and Water Column PCBs – Fall 2020

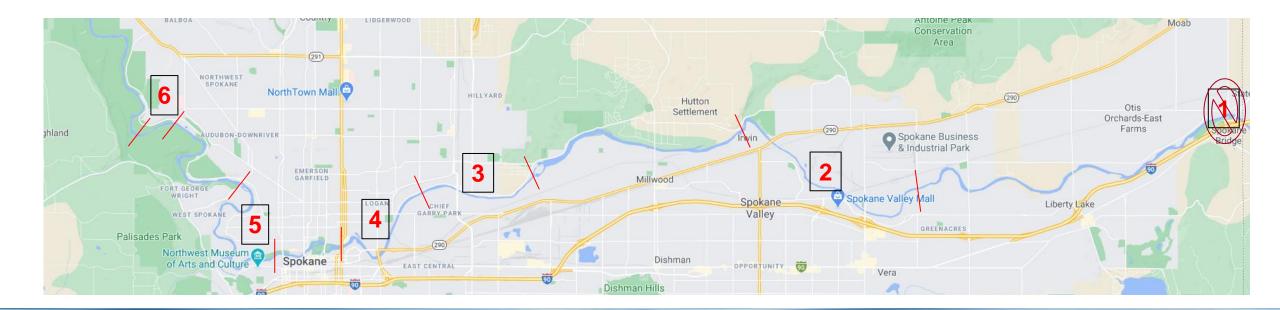
TTWG Meeting March 31, 2021

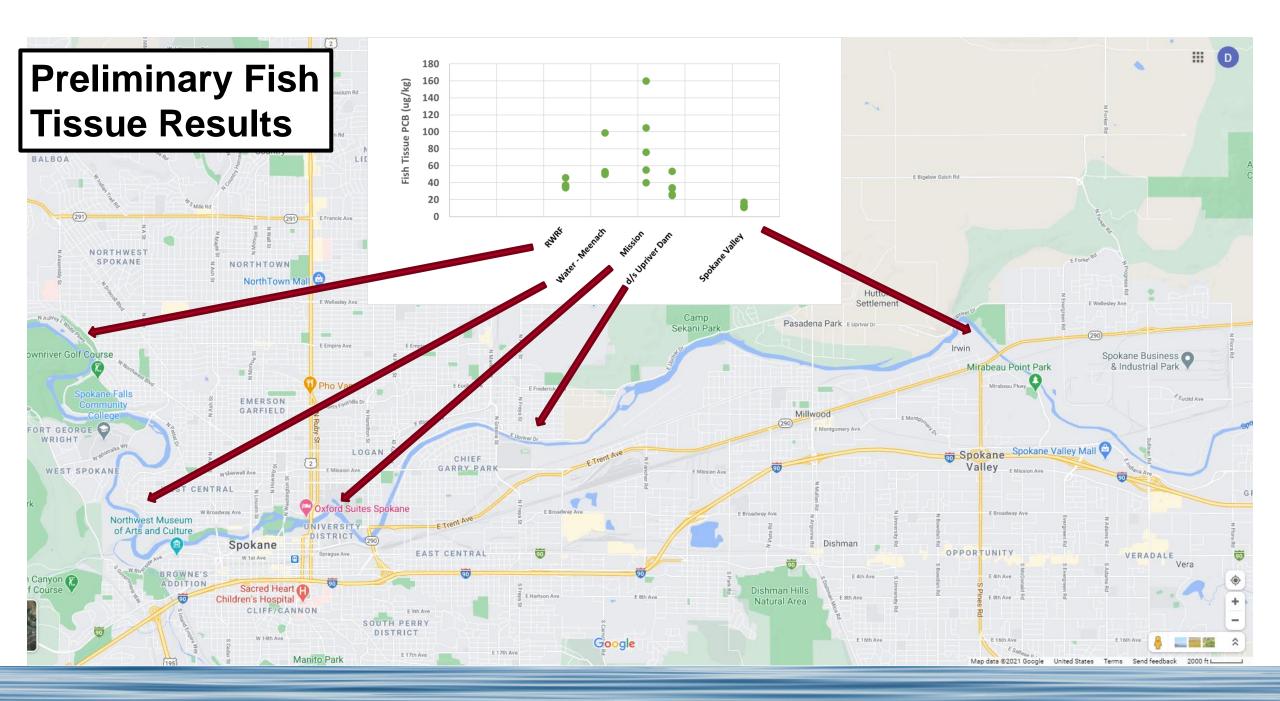
Background

- SRRTTF has begun implementing a long-term PCB monitoring program
 - Fish: Year-old Redband Trout
 - Single event per monitoring year
 - Water column: Semi-Permeable Membrane Device
 - Three events per monitoring year: low, moderate and high flow
- Laboratory data from first SPMD event and fish tissue sampling has been received
 - Preliminary discussion of initial data review
 - Data have not been blank-corrected or validated

Fish Sampling Locations

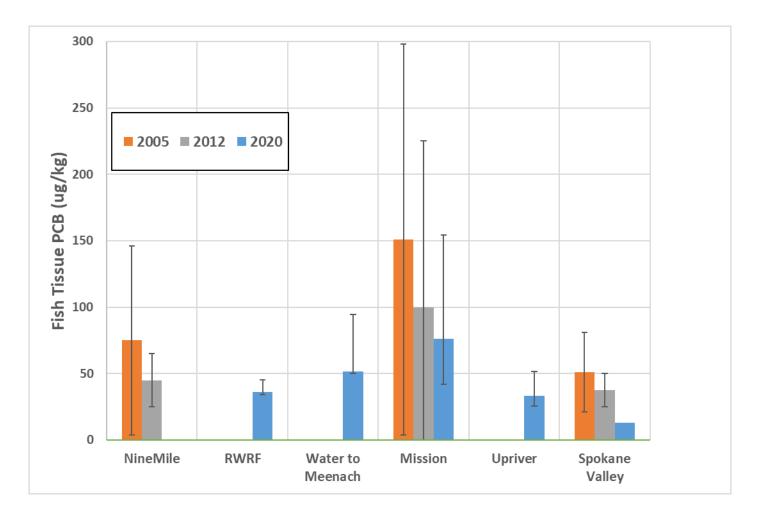
- 1. State Line
 - Insufficient numbers of fish available
- 2. Flora Road to Donkey Island
- 3. Upriver Dam to Crestline Street
- 4. Crestline Street to Division Street (Mission Reach)
- 5. Water St. to TJ Meenach
- 6. RWRF to the kayak takeout site





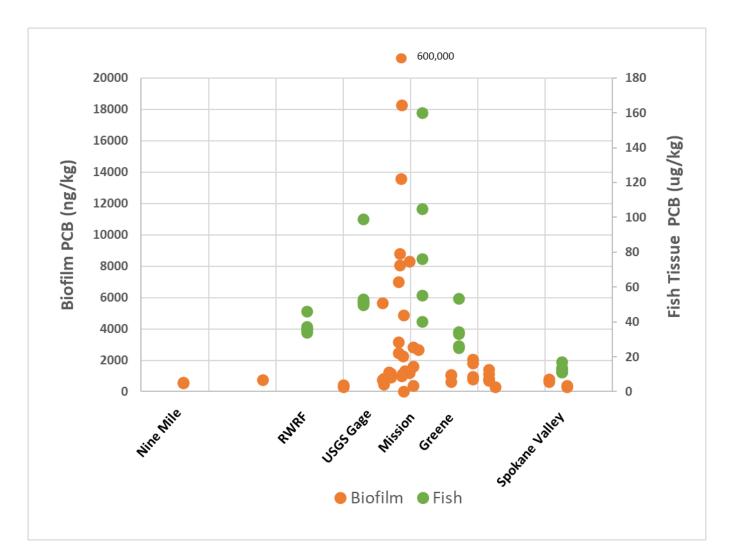
How Do Fish (Trout) Results Compare to Prior Years?

- Similar spatial pattern
 - Mission Reach roughly twice as high as other reaches
- Concentrations lower than prior years
 - Years are not directly comparable
 - Whole fish (2020) as opposed to fillets (2005 and 2012)
 - Year-old trout as opposed to a mix of ages
 - Similar lipid content



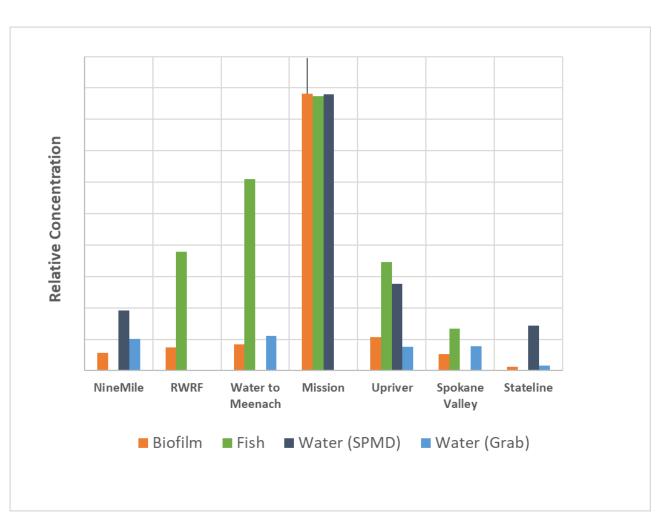
How Do Fish Results Compare to Other Media?

- Fish tissue and biofilm PCBs both peak in Mission Reach
- Fish tissue PCBs increase and decrease more gradually over distance than does biofilm



How Do Fish Results Compare to Other Media?

- Water column concentrations also peak in Mission Reach
 - SPMD may represent localized source
 - Sample collected directly adjacent to location of peak biofilm PCB concentrations



Interim Findings

- Weight of evidence continues to build regarding the presence of PCB source near Mission Reach
 - PCB "signal" appears to be present in water column*, sediment, and fish

*Based on a single, unvalidated SPMD sample

Spring 2021 Monitoring Update

- Second round of SPMD deployment completed
 - Winter moderate flow: mid-February to mid-March
- Artificial fill samples collected at same time as SPMD retrieval
 - Five samples each of brick and concrete substrate collected from river bottom
- "Overnight" Federal Express delivery of samples to laboratory took several days
 - Samples exceeded desired holding temperatures when delivered to the laboratory
 - First impression is this is not serious enough to invalidate the data

Winter 2021 Monitoring Update

- Interesting findings bank-side from Gravity as part of artificial fill sampling
 - Saw "a lot of cables with insulators" along the bank
 - Manager at No-Li Brewhouse said "they've dug up all kinds of things around that area"
- Potential source of PCB contamination?



