


Spokane River Regional Toxics Task Force Technical Track Work Group

**Feb 14, 2023 meeting
(Slides from 1/17/2023 shown again on 2/14/2023)**

Completion Expected Prior to June 30

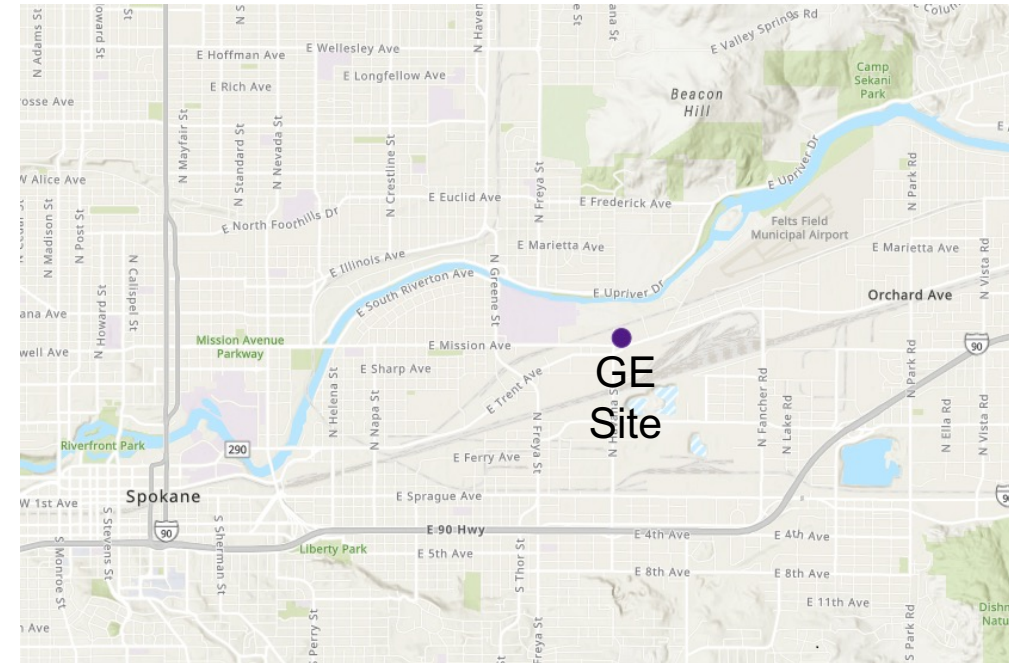
Project	Scope
Expanded synoptic survey	Conduct updated mass balance assessment Assess significance of Springfield basin stormwater Define PCB concentration in artesian well
Mission Reach sediment/biofilm	High resolution sampling to identify source locations
Long term water column trend assessment (low and moderate flow)	SPMD deployment at existing trend sites Assess PCB concentration upstream of Kaiser
Long term fish tissue trend assessment	Fish tissue collection at existing trend sites
GE fingerprinting	Determine if GE groundwater plume is affecting Spokane River PCB concentration

Projects to be Scoped for Potential Initiation after June 30

- Spokane River/groundwater interface sampling near GE site
 - Sampling of downgradient GE wells located on public property
 - Spokane River/groundwater interface sampling in Mission Reach
 - Sampling of groundwater seeps
 - Additional canine detection work
 - Additional biofilm sampling
 - Dye survey to assess connectivity to the river near GE site
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Spokane River/Groundwater Interface Sampling near GE Site

- GE has a Superfund NPL site located between Upriver Dam and Greene St.
- Task Force is currently sponsoring a fingerprinting study to assess whether the GE site is contributing PCB to the river
 - Indirect assessment of GE PCB load
- A better assessment of PCB load from GE site could be obtained by direct measurement of the extent of groundwater PCB concentration



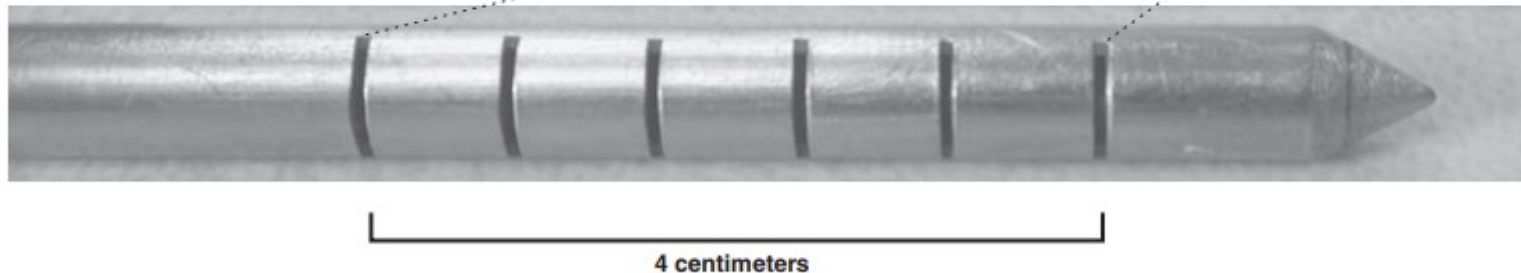
Spokane River/Groundwater Interface Sampling near GE Site

- Deploy temporary push-point samplers (aka Henry samplers) at multiple locations near surface water-groundwater interface
 - Installation of permanent wells infeasible due to regulatory requirements

A. Pushpoint sampler. Rod lengths used were 91 centimeters and 183 centimeters.



B. Point head detail. Screen is 4 centimeters wide. Tube diameter is 6.4 millimeters.



Spokane River/Groundwater Interface Sampling near GE Site

- Sample a sufficient number of stations to define the presence and extent of the GE plume near the river
 - Sample 10 to 20 locations from ~200' downstream to ~500' upstream of biofilm site



Sampling of Downgradient GE Wells Located on Public Property

- Groundwater monitoring conducted under current clean-up does not use Method 1668
 - MW-18 and MW-22 are located on public property
- Data from these wells would provide greater understanding of PCB concentration and fingerprint
- Scope
 - Sample MW-18 and MW-22 for PCBs



Dye Survey to Assess Connectivity to the River near GE site

- Connectivity between GE groundwater plume and Spokane River is currently inferred from well elevation data
- Connectivity could be more directly addressed via a dye survey
- Scope
 - Inject dye at upgradient well
 - Monitor for dye in river and/or downgradient wells

Spokane River/Groundwater Interface Sampling in Mission Reach

- Same concept as described above for GE site, applied to Mission Reach
- Scope
 - Sample 20 to 30 locations in vicinity of biofilm sites with elevated PCB concentrations



Sampling of Groundwater Seeps

- Ecology encountered some groundwater seeps when conducting the biofilm study
 - Sampling these seeps for PCB concentrations could identify potential groundwater
- Scope
 - Reconnaissance survey to identify presence of seeps
 - Sampling of identified seeps

Additional Canine Detection Work

- Previous deployment of Jasper on portion of Mission Reach showed promising results
- Scope
 - Deployment over a larger area

Additional Biofilm Sampling

- Previous biofilm monitoring has been instrumental in identifying elevated PCB concentrations in Spokane River
- Scope
 - Additional biofilm monitoring informed by results of 2022 monitoring

Projects to be Scoped for Potential Initiation after June 30

Project	Advocate
Spokane River/groundwater interface sampling near GE site	
Spokane River/groundwater interface sampling in Mission Reach	
Sampling of groundwater seeps	
Sampling of downgradient GE wells located on public property	
Additional canine detection work	
Additional biofilm sampling	
Dye survey to assess connectivity to the river near GE site	