TTWG Small Working Group Notes: February 24, 2022

Attendees: Bill Fees (Ecology), Karl Rains (Ecology), Brandee Era-Miller (Ecology), Jeff Donovan (City of Spokane), Dave Dilks (LimnoTech), Lisa Dally Wilson (Dally Environmental)

Prioritized Studies

- **Highest**
    1. Landside surface/stormwater monitoring at area identified by PCB-detection dog
    2. Further our understanding of groundwater hydrology
    3. Mission Reach sediment/biofilm (and groundwater) sampling
- **Second highest**
    4. Follow-up monitoring of artesian well PCB concentration
    5. More rigorous review of historical land use
    6. Follow-up on magnetometer anomalies (incorporated into #3 above)
    7. Initial assessment of PCB loading from infiltrated dry well stormwater
    8. Additional sampling at Mirabeau
- **Third Highest**
    9. Explore historic land use at Spokane Industrial Park (incorporate into #5 above)
    10. Synoptic survey to support mass balance assessment downstream of USGS Gage
    11. Additional biofilm monitoring (incorporated into #3 above)

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1. **Landside Surface/Stormwater Monitoring**
   at Mission Reach areas identified by PCB-detection dog
    a. Candidate Studies (Tier these two – catch-basins first (this summer), determine stormwater monitoring based on results of catch-basin monitoring)
        i. Stormwater monitoring of Springfield outfall (storm event after summer dry period)
        ii. Sample catch-basins near the areas where Jasper detected PCBs (do this first)

   Scoping Notes: Who Samples? Sewer Maintenance staff at City or Gravity? Trey George (City of Spokane) coordinate with Dave Dilks (TF). Consider sampling several catchbasins in the Springfield system. Also consider sampling two other small systems in the area to the southwest (Trent Bridge and Southwest Gonzaga). Check whether Superior system has been sampled in the past. Check what has been sampled and what hasn't and prioritize storm drains based on that.

   Cost based on mobilization efforts
   First step – Dave reach out to Trey

2. **Further Our Understanding of Groundwater Hydrology Between Plante's Ferry and USGS gage**

   Consult with local experts to better understand what is known about hydrology, Determine appropriate next step after consultation (Dave Request TF contacts).

Next Steps:

- Avista Cleanup (opposite bank from Hamilton Street Cleanup site) has MW that might be an opportunity for additional gw level monitoring.

3. **Mission Reach Sediment (and Groundwater) Sampling**
   a. Candidate Studies
      i. Sediment PCB monitoring with greater spatial coverage
      ii. Groundwater PCB monitoring, defer until more is known about groundwater hydrology
      iii. Biofilm PCB monitoring with greater spatial coverage – consider cost in determining spatial resolution.
      iv. Sediment or Biofilm sampling immediately downstream of objects detected in ODS

Scoping Notes:
Develop Biofilm cost estimates for three options –
(1) sample only downstream of objects or past biofilm hits, Consider conducting magnetometer study first! – Consider QAPP with conditional monitoring protocol (either Biofilm or sediment)
(2) sample on grid in areas where we know contamination occurs (based on #1 above and cost info below)
(3) High Frequency – Mission Bridge down to Gonzaga - sample on regular grid every 100 feet (cost this first)

Do we wait to do magnetometer this fall? Or do we do #1 based on current information?
Brandee and Karl, look into QAPP requirements for addenda to addendum and also window for QAPP addendumizing.
Dave to look into flow requirements for Gravity Boat

Consider adding biofilm at Mirabeau here.

4. **Follow-up Monitoring of Artesian Well PCB Concentration (low flow activity)**

   Additional monitoring, Conducted opportunistically with other sampling events (low flow synoptic survey)

10. Synoptic Survey to Support Mass Balance Assessment (low flow activity)

i. Synoptic survey covering USGS gage to Nine Mile currently budgeted in 2021-2023 work plan

ii. Consider extending upstream boundary up to Plantes Ferry.

Scoping Notes: Tier I – scope original Work Plan project, Tier II – scope finer scale mass balance, and extending up to Plantes Ferry

8. Additional Sampling at Mirabeau (low flow activity)

Additional PCB sampling at Mirabeau Park, either through biofilm, water column grab sampling, or deployment of SPMD

Scoping Notes: Conditional QAPP? If you want lateral profile, need to do water column sampling. High velocity/low sediment part of the river.
Lower priority – may be difficult to detect PCBs?
SPMDs are option – consider adding SPMD(s) here during trend assessment work as a first phase for future work