

Monthly Sampling Update

SRRTTF TTWG Meeting

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May 3, 2017

Summary

- December data has been successfully validated
- Findings
 - Concentrations generally low in Idaho all months
 - Washington concentrations lower than 2014, 2015 synoptic surveys
 - Concentrations slightly higher during rain event
 - Stormwater/CSO loads consistent with observed increase
- Report and data being distributed for review



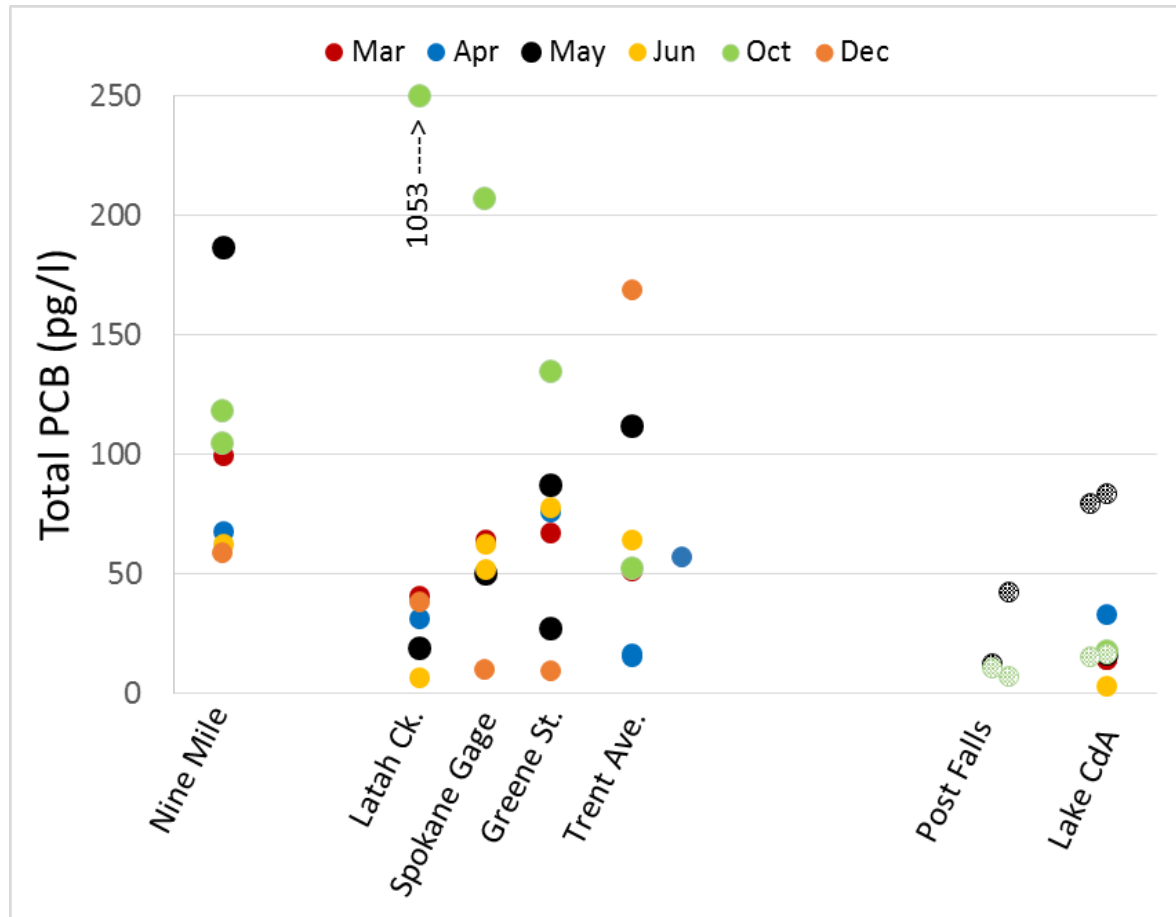
Monthly Monitoring Objective

- Determine seasonal variability in river PCB concentrations
 - Collect data at higher flows than synoptic surveys
- Opportunistically assess concentrations during wet weather
- Monitoring conducted Mar-Jun, Oct, and Dec

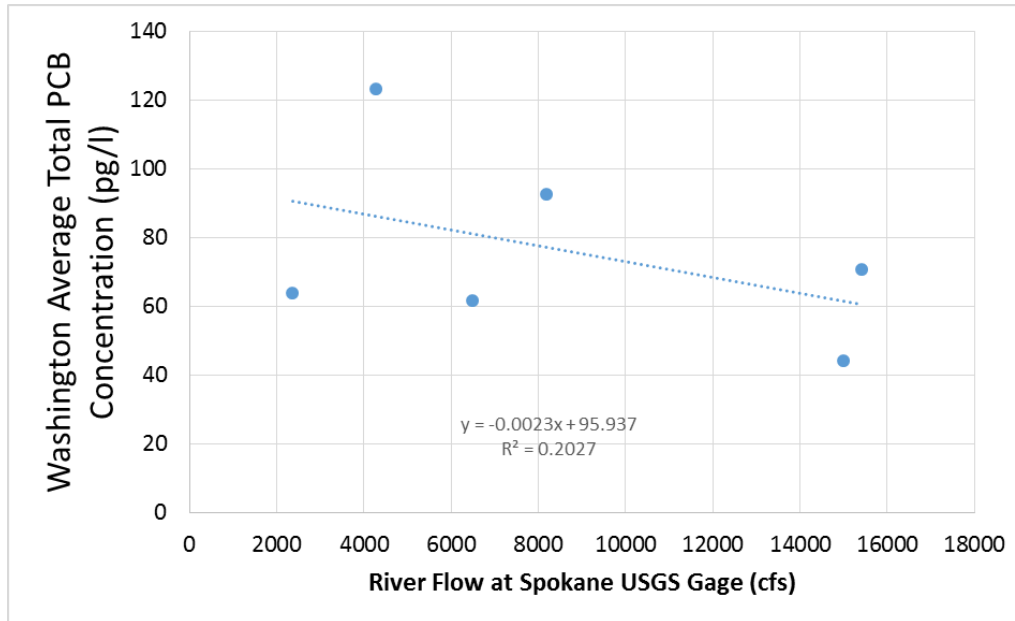


Observed 2016 Concentrations

← Direction of Flow



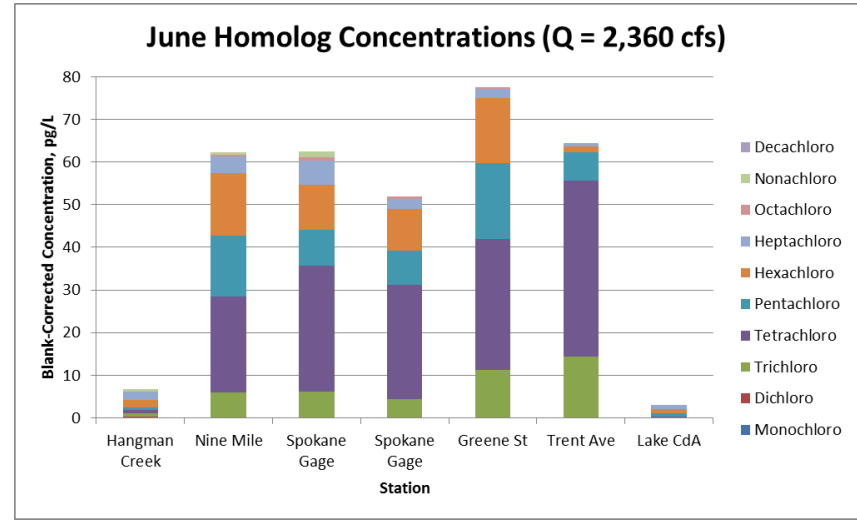
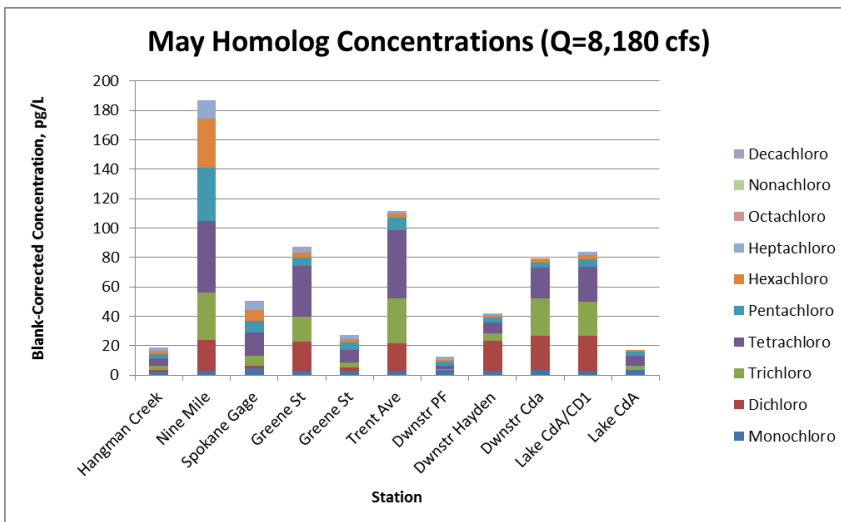
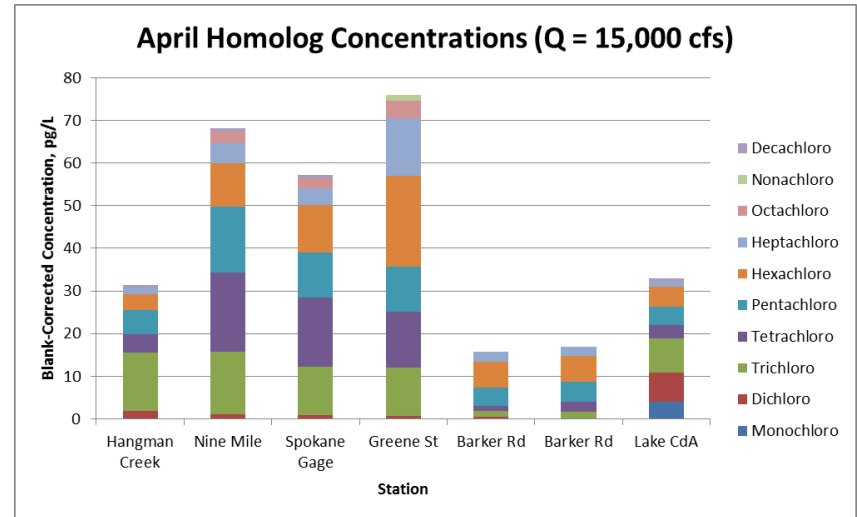
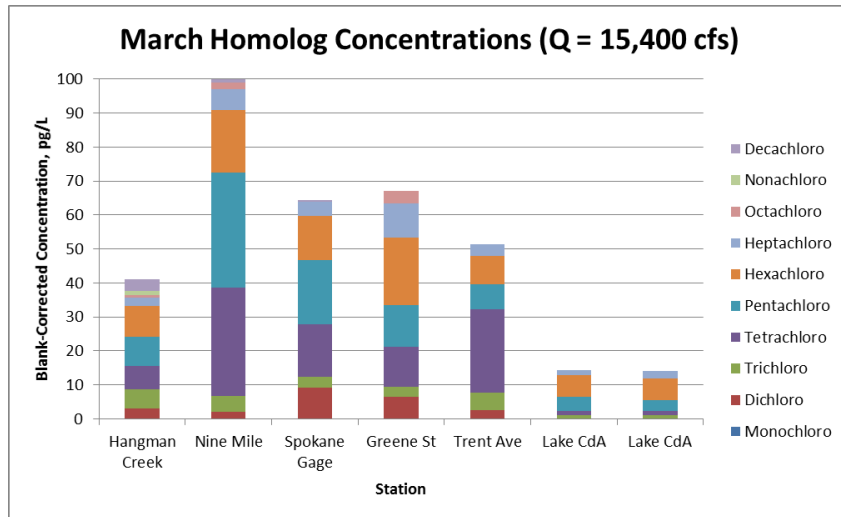
Seasonal Variation: Relationship to Flow



- Weak negative correlation to river flow
 - Concentrations lower during 2016 higher flows than during synoptic surveys
 - 2014 and 2015 synoptic results ~100 pg/l

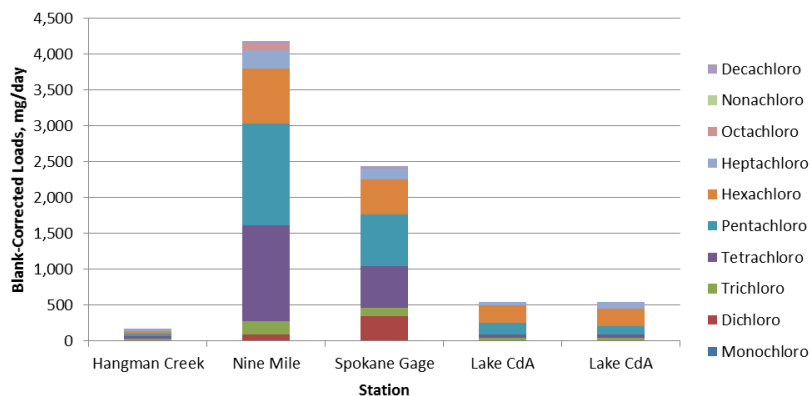


Homolog Distributions Examined

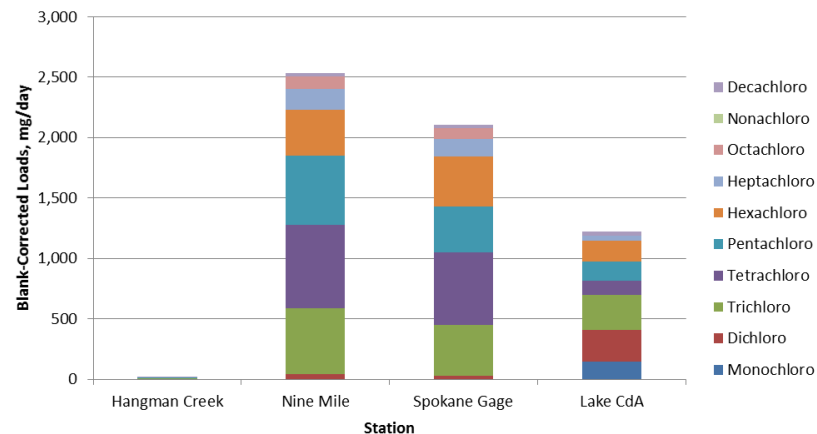


Homolog Loading Assessment

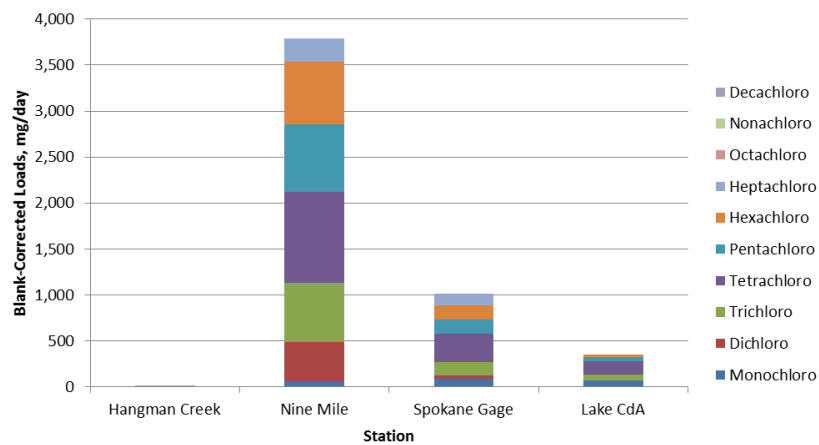
March Homolog Loads (Q = 15,400 cfs)



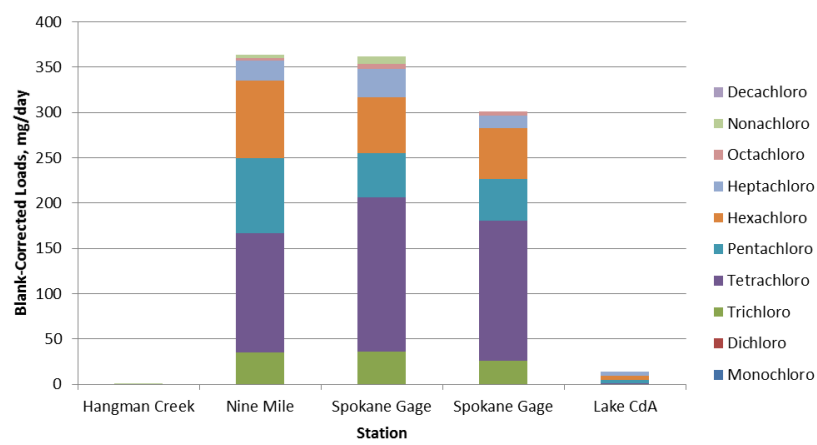
April, 2016 PCB Homolog Loads (Q = 15,000 cfs)



May Homolog Loads (Q = 8180 cfs)



June Homolog Loads (Q = 2360 cfs)

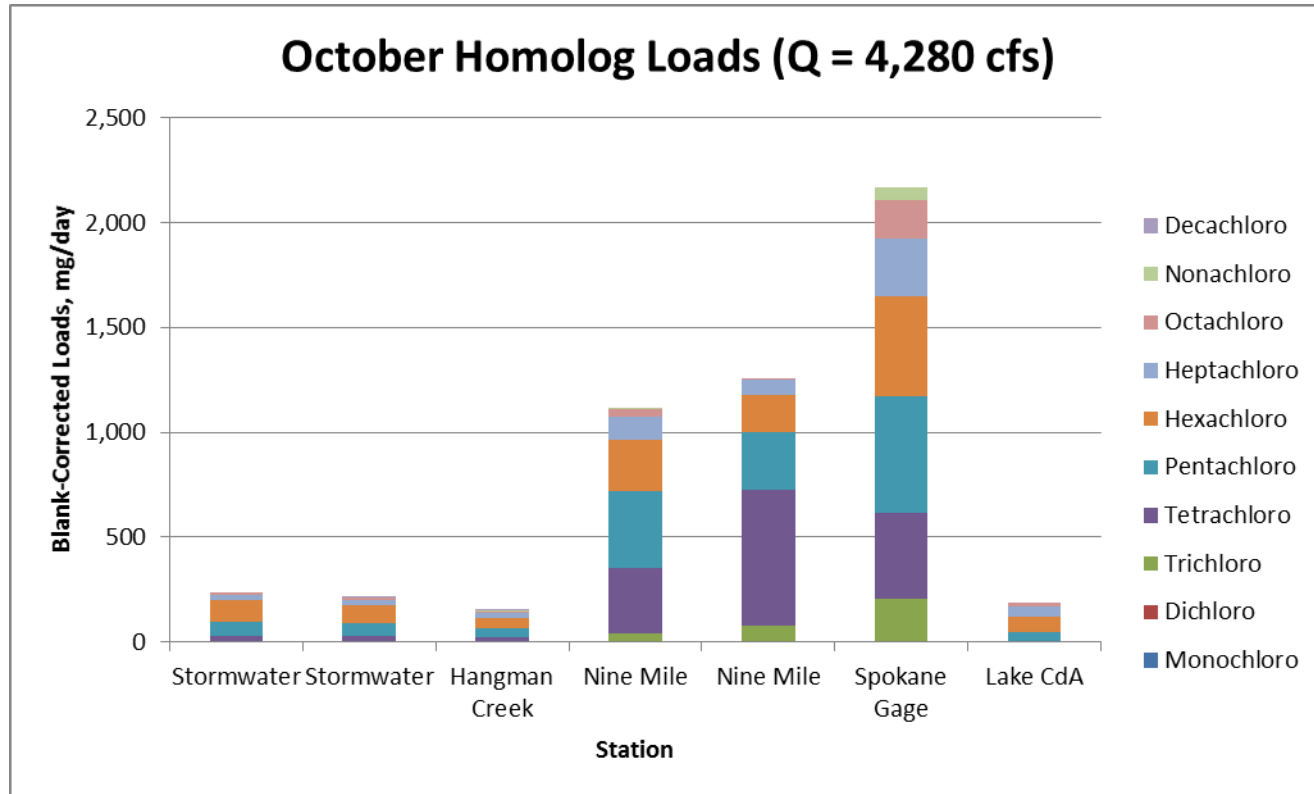


October Wet Weather Event

- 0.6” rainfall occurred October 25-26
- City of Spokane analyzed stormwater
 - 5198 and 5744 pg/l
- Latah Creek concentration 1053 pg/l
- Stormwater/Latah Creek loads still relatively small compared to river loads
 - CSO flows 3x greater than stormwater



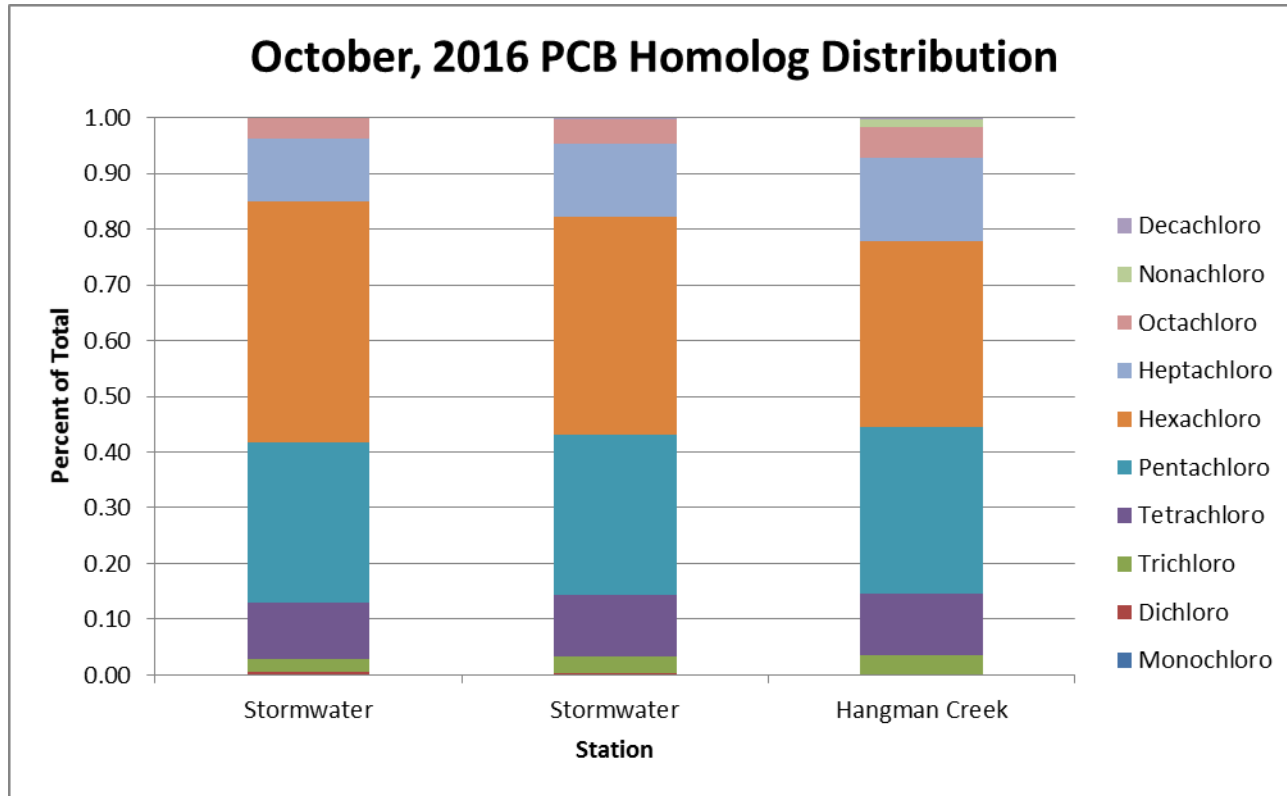
October Loading Assessment



- Historical CSO PCB concentrations suggest an additional CSO load of 1160 mg/day



Hangman Ck. - Stormwater Comparison



Re-cap

- Findings
 - Concentrations generally low in Idaho for all seasons
 - Seasonal variation in Washington concentrations weakly related to flow
 - River concentrations slightly higher in response to rain event
 - Urban wet weather loads are consistent in size with observed increase in river concentration
- Report and data being distributed for review



Review Schedule

- Target is to have draft available for potential Task Force approval on May 31.
- Schedule
 - “Pre-final” draft available this week
 - First round of comments requested by May 17
 - Comments received by May 17 will be incorporated into May 24 draft for Task Force consideration

