LimnoTech

Water Environment | Scientists Engineers

Monthly Monitoring Update

SRRTTF TTWG Meeting

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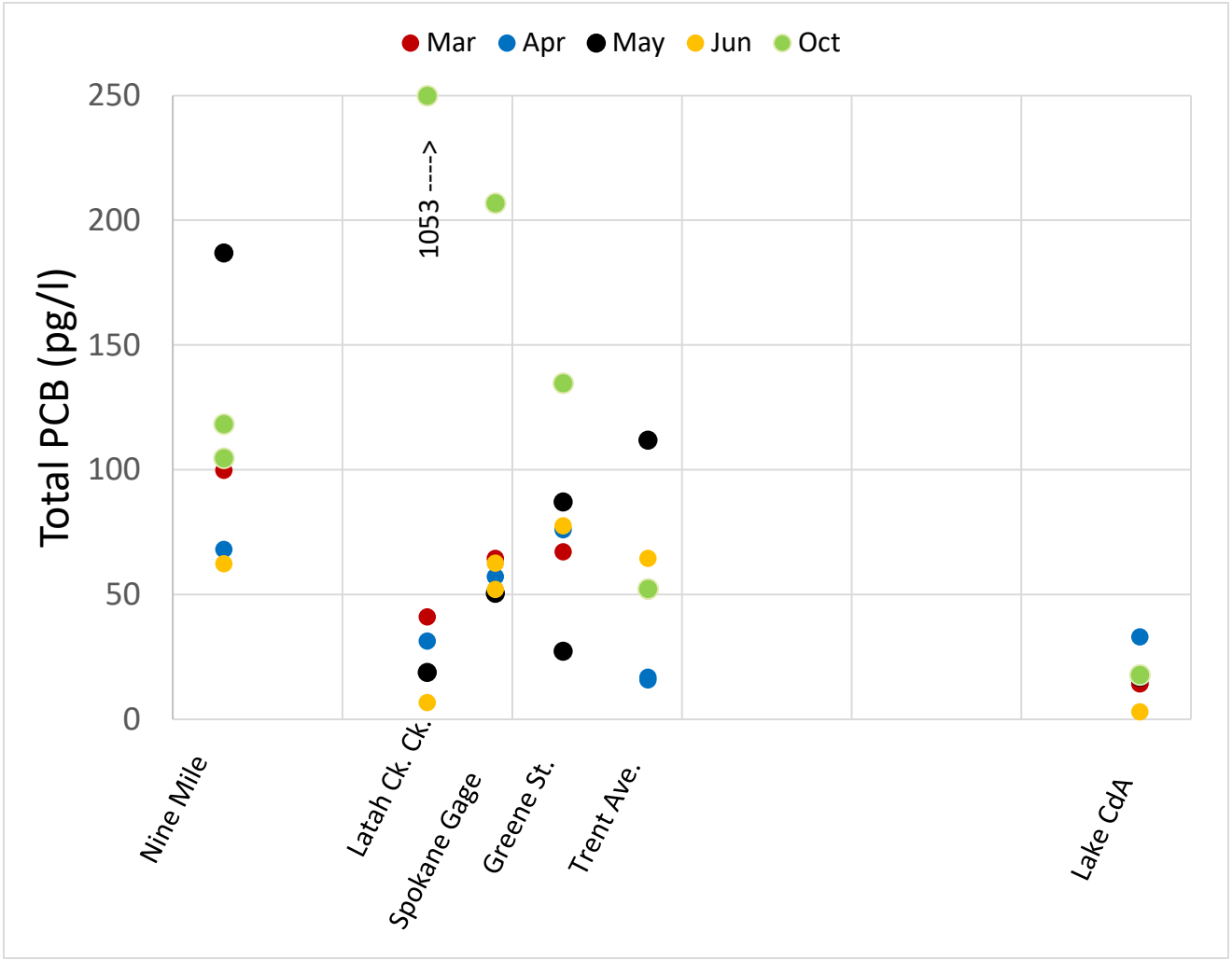
Background

- Objective: Determine seasonal variability in river PCB concentrations
- Tiered schedule
  - Monitoring conducted March – June 2016
  - Assessed data during Summer 2016
  - Monitoring conducted October and December, 2016
- October results have been obtained and reviewed

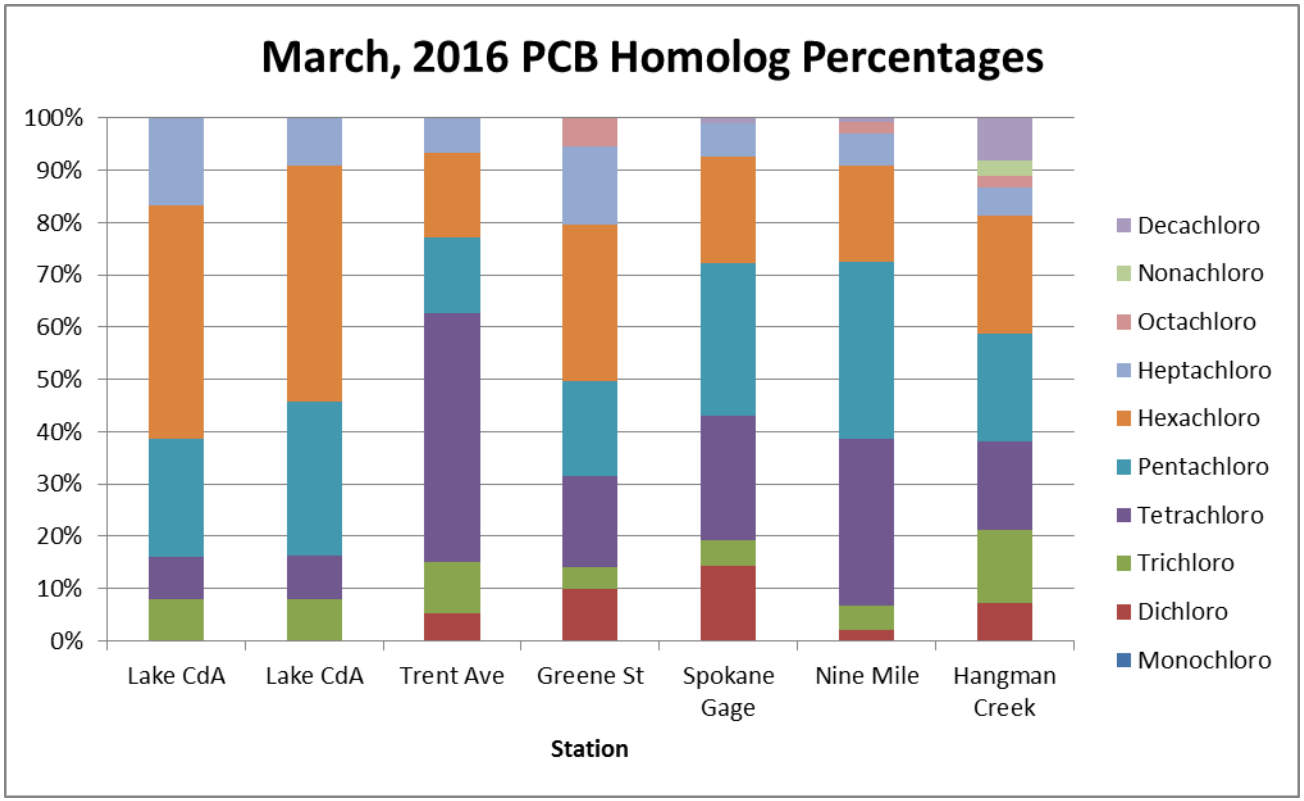
Initial October Findings

- In-river concentrations similar to other surveys
  - Lake CdA concentrations remain low (< 20 pg/l)
  - Concentrations increase downstream (50 – 200 pg/l)
- City of Spokane MS4 sample collected during event
  - (5500 pg/l)
- Latah Creek concentrations very high, even though flows were low
  - October: >1000 pg/l, (40->70) cfs
  - Spring: <50 pg/l, 1500 cfs

Observed 2016 Concentrations



Homologue Distributions by Month



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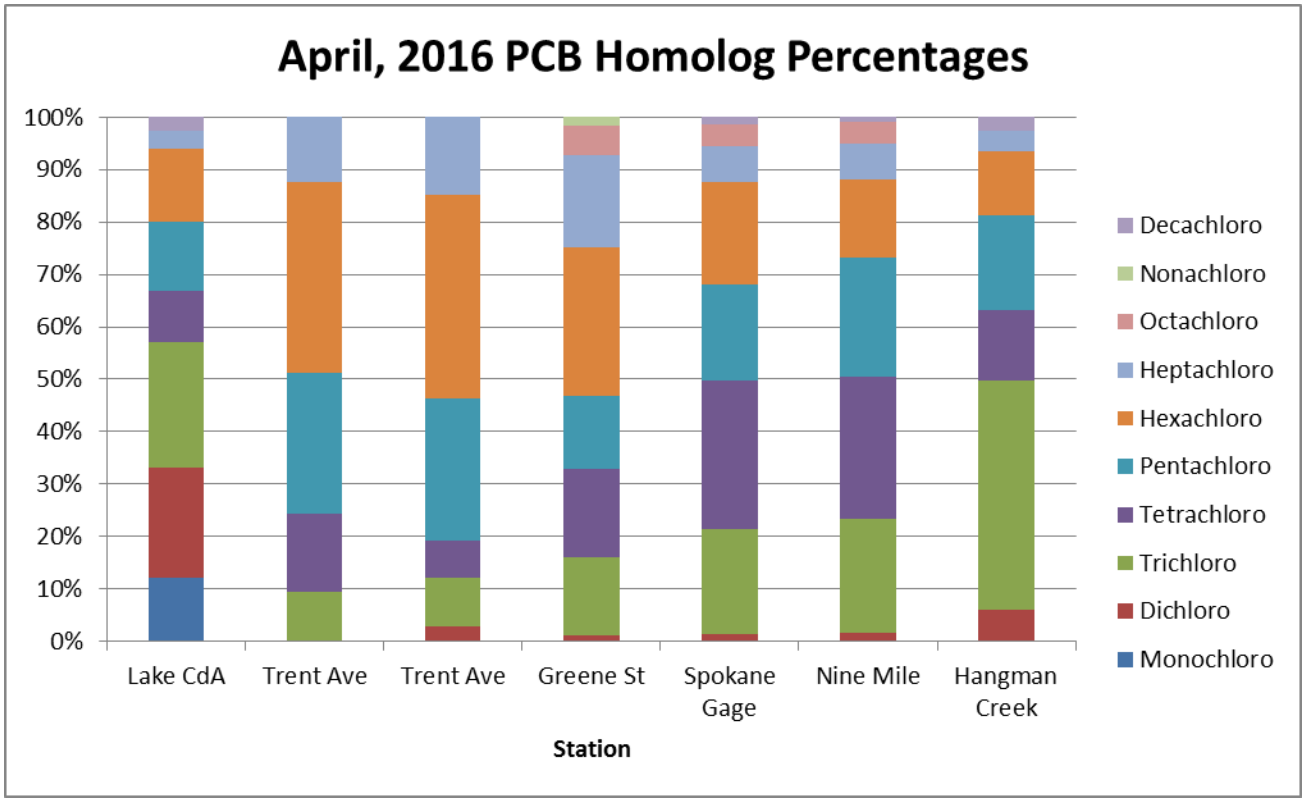

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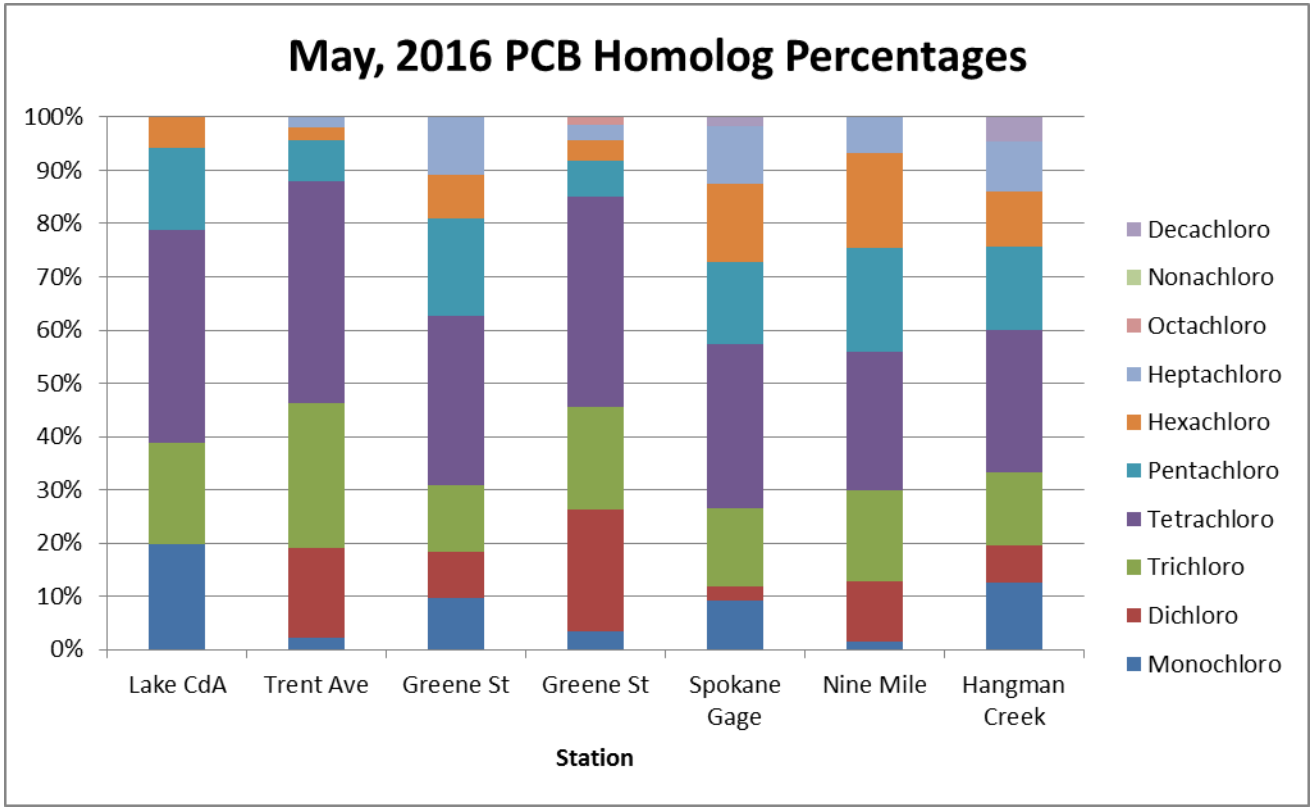
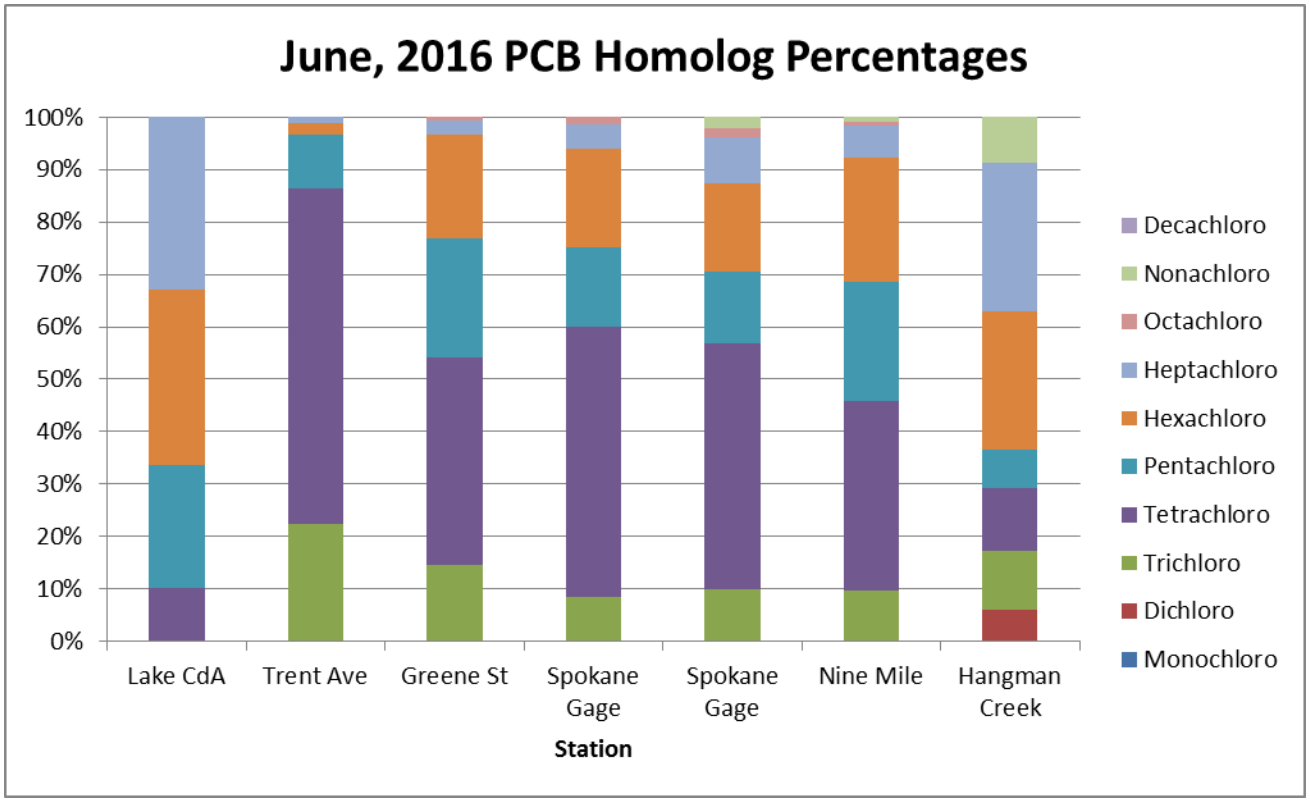


Homologue Distributions by Month



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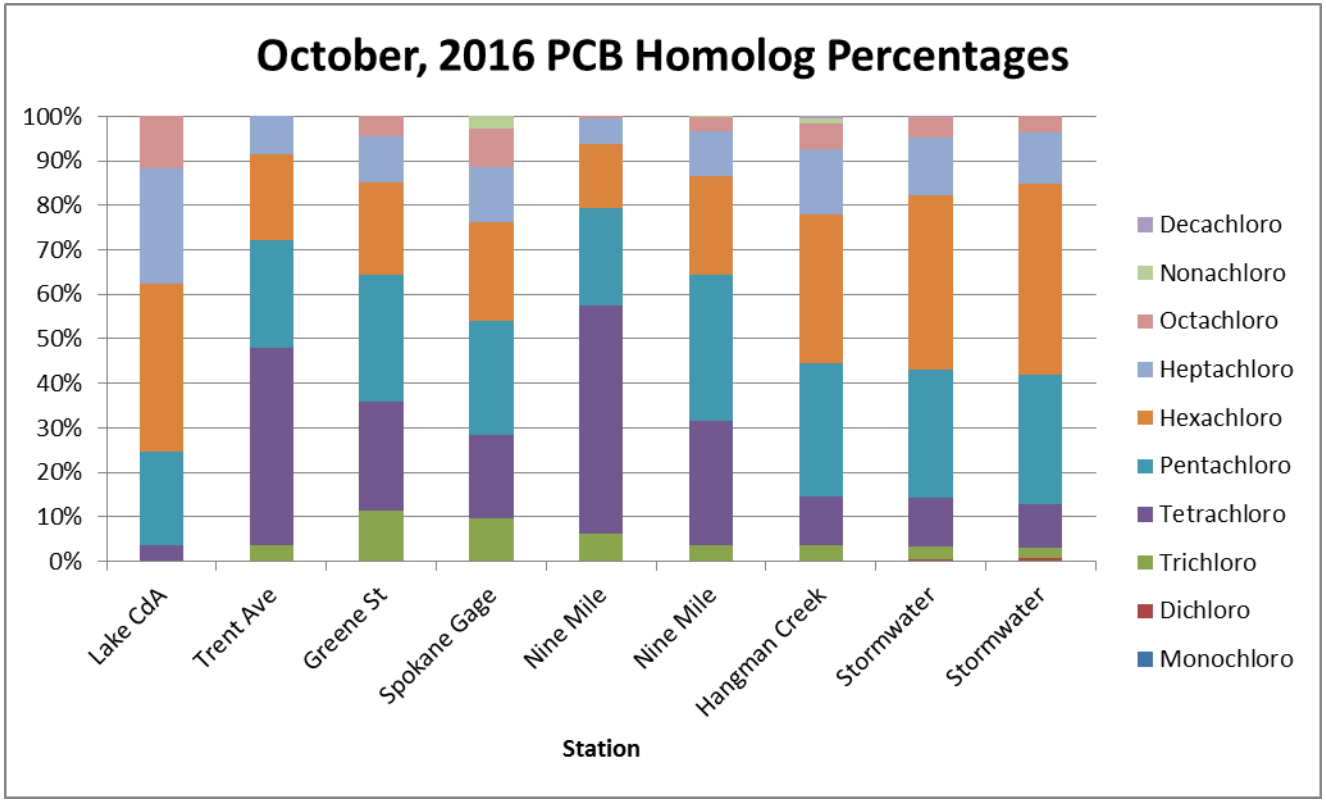

Summary

- In-river concentrations similar to other surveys
  - Higher concentrations seen in upstream portions of the City of Spokane, but not at Nine Mile
- High concentration at Latah Creek raises some question about its potential significance
- Seasonal variance in homolog distribution
- More detailed analysis to follow after December results are obtained