

# **TTWG Report & Technical Topics**

**SRRTTF Meeting**  
**Dave Dilks**  
**December 16, 2015**

# Items

- Elevated lab blanks received for some 2015 synoptic survey results
- Spokane County comments on “final” technical documents for 2014
- Wet weather sampling recommendation



# Elevated lab blanks

- Higher than acceptable PCB concentrations observed in laboratory blanks
- Affected data from 8/18 and (some) 8/19 samples



# Affect of Elevated Lab Blank on Blank-Corrected Data (pg/l)

		8/18	8/19	8/20	8/21	8/22
Station	Location					
SR-3	Spokane R. at Spokane	2.9	1.9	178.5	170.3	170.3
SR-4	Spokane R. at Greene St. Bridge	100.4	52.2	109.8	173.8	
SR-5	Spokane County Regional WRF	154.9;		465.9		322.8
SR-6	Inland Empire Paper	4265.8;		4449.3		3101
SR-7	Spokane R. at Below Trent Bridge	71.6;	167.6; 132.3	133	119.7	155.9
SR-8	Kaiser Aluminum	2810.7		2789.6; 2645.8		3178.6
SR-8a	Spokane R. at Mirabeau Park	1.4	16.7	5	8.4; 1.4	3
SR-9	Spokane R. at Barker Rd. Bridge	1	6.6	20.4	108.1	7.4; 44.5

Elevated lab blank; Acceptable blank



# Elevated lab blanks

- Suggestion made at last Task Force meeting to re-do blank correction using field blanks
  - Four different field blanks were available



# Results Using Trip Blanks for Correction (pg/l)

		8/18	8/19	8/20	8/21	8/22
Station	Location					
SR-3	Spokane R. at Spokane	2.9 <u>22.7, 48.2, 11.6, 4.6</u>	1.9 <u>32.9, 63.3, 19.4, 8.1</u>	178.5	170.3	170.3
SR-4	Spokane R. at Greene St. Bridge	100.4 <u>121, 136.7, 115, 103.5</u>	52.2 <u>35.6, 55.3, 19.9, 5.4</u>	109.8	173.8	
SR-5	Spokane County Regional WRF	154.9; <u>137.9-192.7</u>		465.9		322.8
SR-6	Inland Empire Paper	4265.8; <u>3927.8-4353.9</u>		4449.3		3101
SR-7	Spokane R. at Below Trent Bridge	71.6; <u>137.1, 140.5, 115.1, 94.9</u>	167.6; 132.3	133	119.7	155.9
SR-8	Kaiser Aluminum	2810.7 <u>2832.1-2845.4</u>		2789.6; 2645.8		3178.6
SR-8a	Spokane R. at Mirabeau Park	1.4 <u>5.4, 12.6, 9.3, 4.3</u>	16.7	5	8.4; 1.4	3
SR-9	Spokane R. at Barker Rd. Bridge	1 <u>3.1, 8, 3.7, 1.8</u>	6.6	20.4	108.1	7.4; 44.5

Elevated lab blank; Alternate blank used for correction; Acceptable blank



# Options Discussed at TTWG Meeting

1. Proceed with alternate blank correction
2. Have AXYS re-analyze samples
  - Adds delay to mass balance analysis
3. Proceed with existing data
  - Discard tainted data, sacrifice “completeness”



# Consensus From TTWG Meeting

- Hybrid approach selected
  - Have AXYS re-analyze samples
  - Conduct draft analysis with existing data
  - Update results when new AXYS data arrives





# Interim Results from Draft Analysis

- Confirmation of presence of groundwater source between Barker and Trent
- Potentially a smaller load entering between Greene St. and Spokane Gage
  - Still waiting on one lab sample



# Comments on “Final” 2014 Technical Documents

- Certain items in our QAPP weren’t explicitly spelled out as deliverables
  - Items posted on web site, but never given to larger group for review
- Spokane County reviewed these documents and provided several comments
- Agreed at TTWG to incorporate the comments into “Revised Final” documents



# Wet Weather Monitoring: Background

- 2015 Workshop recommended wet weather monitoring to support mass balance assessment
  - Subsequent analysis determined that mass balance was unlikely to produce conclusive results
- Feedback from November 2015 Task Force Meeting was that wet weather monitoring is still of interest



# Monitoring Recommendation Provided to TTWG

- Wet weather monitoring can provide the following types of results
  - Snapshot of wet weather PCB concentrations
  - Verification that existing loads don't cause a major increase in river concentration
    - Rule out (or, potentially, discover) “smoking gun”
  - Additional information on Hangman Creek load



# TTWG Monitoring Discussion

- High level draft of wet weather monitoring program presented at TTWG meeting
  - Single wet-weather event
- Diversity of opinions aired regarding monitoring objectives
  - Indirectly gain information about wet weather loads
  - Directly measure wet weather-sensitive sources
  - Better understand seasonal variability of river concentrations



# TTWG Monitoring Discussion

- Diversity of opinions aired regarding monitoring intensity
  - Start with a single storm, and design future monitoring based on results received
    - Most efficient, but time consuming
  - Start with a more comprehensive program
- Survey developed and distributed to attain consensus on objectives
  - Responses due December 30

