

## Ammonia Summit

18-19 August 2009 9:00 a.m. – 4:30 p.m.

CVRWQCB 11020 Sun Center Drive #200, Board Room, Rancho Cordova

No teleconference available

18 August	Item Description
1. 9:00-9:10	Welcome, logistics, and format
Food Web Dynamics	
2. 9:10-9:30	F. Wilkerson (conference call) - <i>Is There Suppression of Algal Production in Suisun Bay?</i>
3. 9:30-9:50	A. Parker - <i>Effect of Wastewater Treatment Plant Effluent on Algal Productivity in the Sacramento River Part 1: Grow-out and Wastewater Effluent Addition Experiments</i>
4. 9:50-10:10	A. Parker - <i>Effect of Wastewater Treatment Plant Effluent on Algal Productivity in the Sacramento River Part 2: Transect Results</i>
5. 10:10-10:30	D. Dugdale (conference call) - <i>Transport of Nutrients from Sacramento River to Suisun and Grizzly Bays: Effects on River and Bay Chlorophyll Concentrations</i>
6. 10:30-10:45	<b>BREAK</b>
7. 10:45-11:45	<b>Panel Discussion</b> – Interactive discussion among panelists and audience. Potential questions include: Does this data show impairment of Beneficial Uses? What additional research or information is needed to strengthen these conclusions?
8. 11:45-1:00	<b>LUNCH</b> – not provided
Toxicity	
9. 1:00-1:20	C. Mioni - <i>Does Ammonia Impact the Distribution of Harmful Algae and Phytotoxins in the San Francisco Estuary?</i>
10. 1:20-1:40	P. Lehman – <i>Microcystis and Nutrients in San Francisco Estuary</i>
11. 1:40-2:00	S. Teh - <i>Acute Toxicity of Ammonia, Copper, and Pesticides to Key Copepods, Pseudodiaptomus forbesi and Eurytemora affinis, of the San Francisco Estuary</i>
12. 2:00-2:20	I. Werner - <i>Effects of Ammonia/um and Other Wastewater Effluent Associated Contaminants on Delta Smelt</i>
13. 2:20-2:40	<b>BREAK</b>
14. 2:40-3:00	D. Engle - <i>Total Ammonia and Unionized Ammonia Concentrations in the Delta; an Examination of Ambient Concentrations and Toxicity Thresholds</i>
15. 3:00-3:20	M. Johnson - <i>Species Sensitivity Distributions and Exposure Concentrations; Placing Recent Results into Context</i>
16. 3:20-4:30	<b>Panel Discussion</b> – Interactive discussion among panelists and audience. Potential questions include: Does this data show impairment of Beneficial Uses? What additional research or information is needed to strengthen these conclusions?

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19 August	Item Description
17. 9:00-9:15	Welcome and short review of previous day/clarifying remarks
Sources, Transport, and Fate	
18. 9:15-9:35	D.Fullerton (pre-recorded with questions answered by Tom Mongan) - <i>Ammonia Concentrations and the Food Chain in Suisun Bay and the Delta</i>
19. 9:35-9:55	C. Foe - <i>Preliminary Ammonia Results from an Ongoing Monitoring Program</i>
20. 9:55-10:15	C. Kendall - <i>Tracing Sources and Biogeochemical Cycling of Ammonium and Nitrate in the Sacramento River and Northern Bay Using Stable Isotope Techniques</i>
21. 10:15-10:35	M. Guerin - <i>Fate and Transport Modeling of Ammonia in the Delta Using DSM2</i>
22. 10:35-10:50	<b>BREAK</b>
23. 10:50-11:50	<b>Panel Discussion</b> – Interactive discussion among panelists and audience. Potential questions include: Can the models, etc account for the impacts observed? What are the likely source(s), transport, and fate of ammonia identified in the first day's presentations?
24. 11:50-1:00	<b>LUNCH</b> – not provided
The Bigger Picture	
25. 1:00-1:20	E. Van Nieuwenhuysse - <i>Nutrient Limitation of Average Chlorophyll Concentration in the Freshwater Delta</i>
26. 1:20-1:50	P. Glibert - <i>Ammonium - Global Trends, Issues on the East Coast, and Implications for Plankton Dynamics</i>
27. 1:50-2:10	A. Vargas – <i>Development of a Ammonia/Ammonium Research Framework for the Delta and Suisun Bay</i>
28. 2:10-2:30	<b>BREAK</b>
29. 2:30-2:50	C. Irvine - <i>A Data and Science Gap Discussion for Delta Ammonia/um</i>
30. 2:50-4:30	<b>Panel Discussion</b> – Interactive discussion among panelists and audience linking the research framework, DaSGA, Delta monitoring questions, and tools for the 21 <sup>st</sup> Century. How does the information presented support the research needs identified in the CALFED ammonia workshop expert panel research framework? Does our monitoring help us answer the questions we're asking? What additional studies need to be done? Do we have the tools necessary to perform these studies?