State Water Resources Control Board - Revised February 23, 2010

Informational Proceeding to Develop Flow Criteria for the Delta Ecosystem - Questions

Party submitting questions: Contra Costa Water District

Priority[1]	Question	Witness
1	**Flows to suppress growth and distribution of Egeria densa.** CCWD respectfully submits the attached information and requests that, in light of this information, the State Water Board's expert witness group discuss and reconsider the recommendation for Egeria densa suppression flows in "On Developing Prescriptions for Freshwater Flows to Sustain Desirable Fishes in the Sacramento-San Joaquin Delta" by William E. Fleenor, William A. Bennett, Peter B. Moyle, and Jay R. Lund. In summary, this approach is unlikely to meet the desired goal of suppressing growth of Egeria densa for the following reasons: (1) the recommended flows would not increase Delta salinity; (2) even extreme salinity intrusion such as that experienced during the drought of 1924 would be unlikely to significantly reduce the distribution of Egeria densa; (3) for nearly 2,500 years before the droughts of the 1920's and 1930's, native Delta species thrived in a relatively fresh system; (4) to increase salinity in the central Delta to the 10 ppt necessary to begin suppression of Egeria densa, Delta outflow would need to be reduced for 4 to 5 months to levels that create a net reverse flow from San Francisco Bay into the Delta; and (5) such reduced Delta outflow levels to increase salinity intrusion would likely encourage other harmful invasive species and cause additional harm to the ecosystem. Please address each of the above concerns (elaborated upon within the attachment) in your response.	State Water Board's "Delta Environmental Flows Group of Experts" William Bennett Jon Burau Cliff Dahm Chris Enright Fred Feyrer William Fleenor Bruce Herbold Wim Kimmerer Jay Lund Peter Moyle Matthew Nobriga

2	**Old and Middle River flow to prevent entrainment at the export facilities** Dr. Greg Gartrell provided information to the National Research Council (NRC) Committee on Sustainable Water and Environmental Management (Technical Memorandum dated January 25, 2010) regarding the use of Old and Middle River flow to prevent salvage at the export facilities and regarding the information provided by various parties to both the NRC Committee and the SWRCB in this proceeding. Please discuss the utility of using net flow on Old and Middle River flow as a criterion for internal Delta hydrodynamics and the various proposals regarding the relationships between salvage and flow.	Contra Costa Water District Dr. Greg Gartrell, Ph.D, P.E.
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[1]Please identify the top 10 priority questions concerning each participant's testimony or exhibits, with 1 being the highest and 10 being the lowest priority.