DRAFT Plan for 2006 EWA REVIEW
Dates: November 28-30, 2006
Location (reserved):
CALFED Bay Delta Program Offices
650 Capitol Mall, 5th Floor
Sacramento, CA 95814
BAY-DELTA CONFERENCE ROOM

Goals of the 2006 EWA Review:

- Determine the contribution of the EWA and other environmental water programs to protecting and restoring delta smelt, Chinook salmon, and Steelhead in the San Francisco Estuary and watershed
    - Describe how well that contribution is known
    - Identify what additional information would improve that understanding (data, analyses, field studies, or even system-scale experiments)
- Develop plans for science needs (monitoring and research) and water allocation priorities for EWA Year 7
- Identify science components and water allocation strategies for a possible long-term environmental water program

Scope of Review:

- Determining biological benefits of EWA and other environmental water in recovery of listed species.
- Consider past two years as well as a comprehensive assessment since start of EWA.

Draft Charge: Questions to the committee:

- Has there been enough water in EWA and other environmental water programs to enable actions sufficient to reduce the impacts of water management on species of concern in the Delta and associated tributaries?
- Have the EWA and the other environmental water programs effectively contributed to recovery of the species of concern in the Delta and associated tributaries?
- Is there sufficient information and data from all sources to determine the effects of EWA and other environmental water programs to species of concern (i.e., populations of delta smelt and salmonids)?
- Is the current monitoring effort by the agencies sufficient to provide the needed information on population level effects and responses to EWA and other environmental water use?
- If there is insufficient data and information to determine the efficacy of the EWA and other environmental water, what scientific approaches are needed to address the problem to allow that determination?
- What scientific components should be considered while implementing EWA in 2007?
- What scientific components and considerations should be included in a future and/or long-term environmental water program? Are there components that could be included to improve our understanding of water management on ecosystem function and species' population dynamics?

Review Panel Members

NAME	AREA OF EXPERTISE
Kenny Rose	Fish biology, population modeling
Jim Cowan	Fish biology
Buzz Thompson	Natural resource law, Water law
Steve Monismith	Hydrodynamics
Paul Smith	Pelagic fish ecology
Ron Kneib	Landscape ecology, estuarine fisheries
Andy Solow	Biostatistics
Jim Lichatowich	Salmonid biology
Jim Anderson	Salmonid biology

Format:

- Background material distributed prior to meeting.
- Presentations during review to focus on analyses and information to address key questions
- Event moderated by Wim Kimmerer

Agenda:

Day 1 (full day)

8:30 am START

I. Introduction *~ 1.5 hrs*

- Welcome and introductory remarks (Ron Ott)—10 min
  (Introduce panel, identify goals of review, expected outcomes and products, review process and expected next steps)
- EWA overview—what's new (Agencies) –20 min
  - Operations overview and upcoming planning efforts (BDCP, etc) (Jerry Johns, DWR)
  - Planning and considerations from Fisheries Agency perspective (TBD will ask Fish agency folks to coordinate—Herrgesell, Harlow, Aceituno)
- Adapting to a changing world: Past EWA actions 2000-2006. (Bruce Oppenheim)—15 min
  This presentation will summarize the actions taken to date and explain how new information was incorporated into the basis for its use.
- Summary of 2005 and 2006 EWA Fish Actions (Hindman)—15 min
  Summary of Environmental Water Account fish actions taken in 2005 and 2006 and the rationale for the actions.
- Summary of 2005 and 2006 (b)(2) Actions (Hindman) 15 min
  Summary of Central Valley Project Improvement Act Section 3406 (b)(2) actions taken in 2005 and 2006 and the rationale for the actions.

10:00 am BREAK – 15 min

II. Effects of Water Management on Migrating Salmon *~2hr* (Agencies/Stakeholders)

A) What have we learned?

- Effects of exports on survival through the Delta (Sheila Greene) 20 min
  Effects of exports on survival through the Delta – review of hypotheses since from the 2001 EWA review to present, their supporting information and how they have changed over the years.
- Data and analyses from Delta Action 8 (Pat Brandes and Ken Newman) 20 min
- Data and analyses from Vamp (Pat Brandes) 20 min
- San Joaquin River modeling of flows and fish migration patterns (Dean Marston) 20 min

B) New Science and Emerging Tools

- Collaborative ultrasonic tagging study (Pat Brandes, Jon Burau) *25 min*

12:00pm LUNCH *~1 hr*

III. Effects of Water Management on Delta Smelt—What have we learned? *~3.5hrs* (Agencies/Stakeholders)

- Delta smelt work group – summary and technical basis of past workgroup recommendations (Victoria Poage) – 15 min
- Follow-up to analyses presented at 2005 EWA Workshop and Manly Report (Sheila Greene)—20 min
  Follow-up to some analyses presented at the 2005 EWA workshop and the review my Dr. Manly – Five presenters at the 2005 EWA Workshop discussed the effects of exports on delta fish species, and drew ambiguous conclusions using the assumed same data sets. They agreed to participate in a statistical review by Dr. Bryan Manly in an attempt t reconcile their conclusions. I will be presenting an update in this process.
- Implications of reproductive potential for delta smelt year-class success (Bill Bennett) –30min

BREAK – 10 min

- Analysis of export effects on delta smelt + Co-occurrence analyses of prey densities in the summer away from the pumps (BJ Miller)—30 min
- CCWD recent analyses of flow and salinity data (Greg Gartrell) – 10 min
- Old and Middle River analyses on salvage + Particle tracking modeling (Pete Smith) (Pete Smith)—30 min
- POD conceptual synthesis (Ted Sommer) –30 min
- Q/A –30 min

ADJURN between 5:00-5:30 pm

Day 2

8:30 am START

IV. Assessment of Biological Effects of Environmental Water Use *~2.5 hrs*
(Agencies/Stakeholders)

- Assessment of EWA—A novel way of managing water to protect fish: a review of California's Environmental Water Account—(W. Kimmerer and L. Brown) 60 min
- Q/A period – 15 min
- Upstream (b)(2) Releases (Guinee) 20 min
  Examples of the upstream uses of (b)(2) water in CVP-controlled streams since the passage of the CVPIA, in conjunction with Anadromous Fish Restoration Program flow objectives and annual salmon escapement.
- Overview analysis of EWA use, effects, premises for its actions and effectiveness (T. Swanson)—20 min
- Q/A period

10:40 am BREAK – 10 min

V. Proposed plan and process for use of EWA assets *~1hr* (Agencies/Stakeholders)

- Overview of proposed management actions based on information emerging from POD studies and potential plan for use of environmental water asset (Jim White) *~30 min*
- Process for resolving areas of conflict (ie HORB, etc) (Erin Chappell) *~15 min*
- Open question/answer period for inclusive discussion of Year 7 plan

12:30 pm LUNCH *~1 hour*

VI. Guidance for future environmental water use and management (Agency and Stakeholder Panel discussion] *~1.5 hrs*
Each panel member will have 10 minutes to respond to the question listed below. Discussion to focus around suggestions of specific elements such as modeling, science needs (monitoring, research, etc), program size, target species, water allocation strategies that should be included to meet protection and restoration goals and to improve our understanding of water management effects on ecosystem function and species' population dynamics? Twenty minutes is reserved for discussions with the EWA Review Panel.
QUESTION: What scientific components and considerations should be included in a future and/or long-term environmental water program?

VII. Questions from Panel on presented information to all presenters—*30 min*

3:00 pm – Panel to adjourn for deliberations

Day 3 (1/2 day-am)

9:00 am START

***VIII. EWA Review Panel's preliminary report presentation*-- ~** 2hrs

- Presentation of initial panel findings/recommendations
- Open discussion with Panel

IX. Summary/next steps (Science Program) – 20 min

- Final Public comment period

Materials for new Panel Members	**Materials for 2006 EWA Review**
Efficacy of EWA (White, Poage)	2005/6 EWA Implementation update (Agencies/Science Program)
2002,2003,2004 EWA Review Panel Reports	2005 Agency Report on EWA
2005 Panel Participant Reports	2006 Agency Report on EWA
Use of b2 and its integration with EWA & EWP	Brown, Kimmerer, Brown paper (draft)
2001-2004 Agency Reports	VAMP 2005 Annual Report
	Delta Action 8 Workshop Summary Report
	DCC gate closure and subsequent fish losses at the pumps (Low)