

CALFED Science Program Expert Review Panel for Drinking Water Quality Program ⁱ

Meeting Date: November 18, 2002

Attendance: Kim Taylor, John Andrew, Min Yu

Summary:

1. Three main tasks for DWQP:
 - Source protection including both surface water and groundwater
 - Water quality exchanges
 - Treatment technology
2. Establish Expert Review Panel (Panel) ⁱⁱ:
 - Panelists ⁱⁱⁱ can be selected from the following expertise:
 - Pathogen (e.g. Joan Rose, University of South Florida)
 - Basin-wide organics
 - Water quality exchanges/transfers, supply reliability
 - Optimization of different management options
 - Public health

→ Expert who is familiar with regulations and also has strong background in science (i.e. THMFP), and he/she could be selected from the EPA Science Advisory Board or National Academy. This person will make suggestions to CALFED for alternative ways to achieve ELPH.
3. Major tasks involved:
 - DWQP:
 - Define a management questions from the “big picture” and present it to the Drinking Water Subcommittee in January 2003
 - Select the person to chair the Panel
 - Present the management questions to panel members
 - Prepare supporting information including a 2-page program description and other material
 - Science Program:
 - Review the management questions
 - Frame the panel charge ^{iv}
 - Communicate the charge to the Panel and start contracting
 - Panel staff collect and provide information to the Panel
 - DWS staff collect and provide information to the Panel
4. Hold a public workshop in October 2003
 - Start to review and prepare presentations 6 months in advance
 - Written documentation by the Panel
 - A copy of public comments from the workshop
5. Finalize comments in three weeks after the public workshop

In summary, the Panel will propose strategic advice on uncertainties, help with performance measures, and provide science agenda for future funding guidelines.

i. Programmatic Record of Decision, Page 67:

2.2.9 Water Quality

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Support the ongoing efforts of the Delta Drinking Water Council or its successor to develop recommendations to the CALFED Agencies on treatment, alternative water sources, conveyance improvements, storage and operations necessary to meet CALFED's goal of continuous improvement in Delta water quality for all uses. The Council will rely in part on the results of a nationwide multi-year, \$200 million, multi-stakeholder evaluation program led by the EPA to determine future standards and cost-effective treatment technologies, as well as the findings of the Independent Science Board and science panels. The Council will advise the CALFED Agencies on the composition of science panels related to drinking water. Actions include:

- Council will complete initial assessment of progress toward meeting CALFED water quality targets and alternative treatment technologies by the end of 2003.
- Council will complete final assessment and submit final recommendations on progress toward meeting CALFED water quality targets and alternative treatment technologies by the end of 2007.

ii. Attachment I: Criteria for individuals selected for the Panel. Biographies and publication lists of selected panel members will be reviewed by Sam L.

iii. A. Ways of finding the right panelists (K.T.) –

- a) Go on the web; look for high level reports (i.e. National Academy, special series in the top flight journals, edited joint publications, and long list of publications on resumes...) on broad topics and who did them...
- b) Libraries have who's who of scientists, but many will just publish their CV on web
- c) Broad thinkers, established in their field, who can think about how different pieces fit together... getting specific detailed help is easier once that topic is defined
- d) See what other panels they have served on...

B. Resources:

a) Constituent management in watersheds:

http://bob.nap.edu/html/watershed_mgmt/ a national academy panel was convened to provide a review of New York City's watershed management program. Many of the drinking water issues are similar; the panel has reps on it who might be able to provide similar strategic advice to CALFED Bay-Delta Program.

<http://www.nsf.gov/pubs/2002/nsf01168/nsf01168dd.htm>

b) Links between water supply reliability and water quality... the transfer question:

http://improving.cordis.lu/mc/show-PRJ.cfm?obj_id=MCFellow0000000000003E7B is a European study program aimed at modeling changes in reliability with differences in water quality

<http://twri.tamu.edu/projects/90-94/RAW92.html>

<http://books.cambridge.org/0521800366.htm>

c) Treatment:

iv. Defining the Panel charge (K.T.)—

(Example: Attachment II – “First Annual Review of the EWA, Appendix I”)

Step 1--strategic advice on links between the following three categories: constituent management in watersheds, links between water supply reliability and water quality exchanges, and treatment/distribution system.

The Panel will provide strategic recommendations on how DWQP might approach linkages between these; In addition, the Panel will measure program performance for DWQP goals and combine measurement of effects on drinking water concerns by other program actions.

Step 1A--develop critical unknowns. The Panel will help define what the big info gaps are that need to be filled in order to make progress.