



Meeting of the DDW Advisory Group to the Expert Panel on DPR
July 29, 2015 ♦ Santee, California

Update and Review of Activities of the DDW Expert Panel for Direct Potable Reuse

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Presentation Overview

- NWRI Expert Panel on DPR
- Meeting #5 Report and Deliverables
- Meeting #6 Format and Agenda

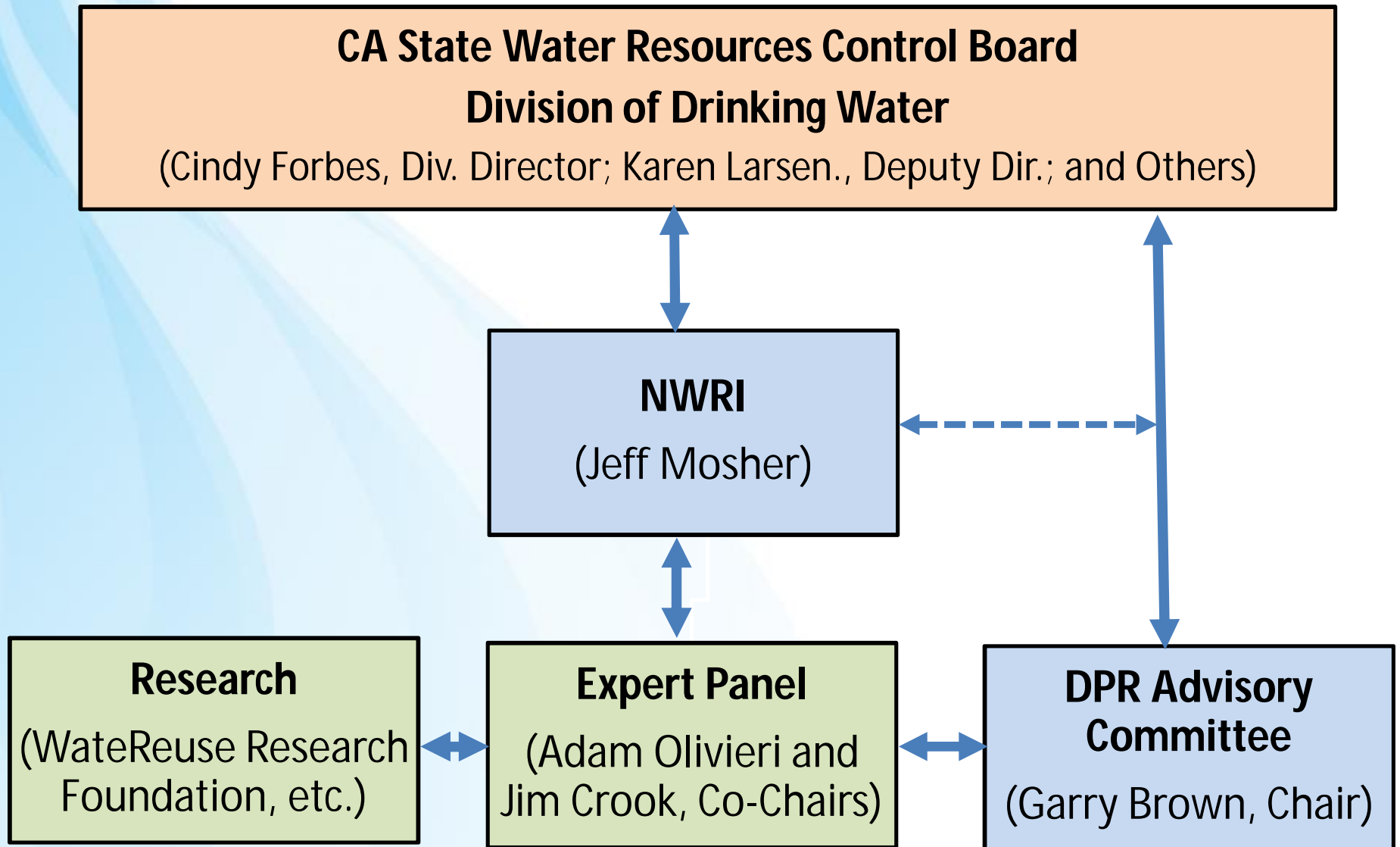




Expert Panel Tasks

1. Assess what, if any, additional areas of research are needed for establishing criteria for DPR.
2. Advise DDW on public health issues and scientific and technical matters regarding the development of surface water augmentation (IPR) criteria.
3. Advise DDW on public health issues and scientific and technical matters regarding the feasibility of developing criteria for DPR.

SWRCB Expert Panel Organization



DPR Timeline

◆ = Meeting
▶ = Deadline

Advisory Panel:



Expert Panel:



DPR Research:



Legislated Dates:



Panel Members



Panel Members

- **Co-Chair: Adam Olivieri, Dr.P.H., P.E.**, EOA, Inc. (CA)
- **Co-Chair: James Crook, Ph.D., P.E.**, Environmental Engineering Consultant (MA)
- **Michael Anderson, Ph.D.**, University of California, Riverside (CA)
- **Richard Bull, Ph.D.**, MoBull Consulting (WA)
- **Jörg Drewes, Ph.D.**, Technische Universität München (Germany)
- **Charles Haas, Ph.D.**, Drexel University (PA)
- **Walter Jakubowski, M.S.**, WaltJay Consulting (WA)
- **Perry McCarty, Sc.D.**, Stanford University (CA)
- **Kara Nelson, Ph.D.**, University of California, Berkeley (CA)
- **Joan Rose, Ph.D.**, Michigan State University (MI)
- **David Sedlak, Ph.D.**, University of California, Berkeley (CA)
- **Tim Wade, Ph.D.**, U.S. Environmental Protection Agency (NC)

Expert Panel Meeting #5

- Date: June 2-3, 2015
- Location: Hotel Irvine in Irvine, California



Expert Panel Meeting #5

Day 1 focused on Surface Water Augmentation:

- DDW's comments on Report #4
- Reviewing the Draft Surface Water Criteria
- Next Steps
 - Panel to provide preliminary notes to DDW
 - Panel Chairs to begin the draft conceptual letter
 - DDW to draft the next version of the criteria
 - Panel Chairs to submit Meeting #5 Report to DDW as soon as it is available

Expert Panel Meeting #5

Day 2 focused on DPR Topics

- George Tchobanoglous explained the content and purpose of the “DPR Framework” document
- Dick Bull (Panel Member) discussed high-throughput bioassays
- Shane Trussell reported on the progress of WRRF Project 14-12, “Demonstrating Redundancy and Monitoring to Achieve Reliable Potable Reuse”

Expert Panel Meeting #5

Next Steps

- Finalize Report from Meeting #5 and submit to DDW (Submitted on July 2, 2015)
- Request that DDW supply revised SWA criteria regulatory text (ongoing)
- Draft the conceptual approval letter (expected by early August)

Future Panel Meetings

September 23-24, 2015, in Berkeley

- Day 1: Direct Potable Reuse in California Specialty Seminar (see Program)
 - Co-sponsored by NWRI, SWRCB, and UC Berkeley School of Public Health
 - In memory of Dr. Robert Cooper
 - Open to the public; nominal registration fee
 - Advisory Group members are invited to attend
- Day 2: Closed session of Expert Panel (DDW will attend in the morning)

Expert Panel Approach for DPR

- **Still under development**
- **Sept 23rd Seminar: issues**
- **Sept 24th: Identify DPR questions and “topics”**
- **Panel members assignments for “briefing papers” on each topic**
- **3-4 meetings between Dec 2015 and June 2016**