



Meeting Summary

Technical Advisory Committee Meeting

September 21, 2018, Regional San

Attendees:

TAC members, alternates, and staff present:

TAC Members	Representing	Affiliation	Position
Anderson-Abbs, Bev	Regulatory-State	State Water Board	Primary
Ashby, Karen	Stormwater	Larry Walker Associates (LWA)	Primary
Denton, Debra	Regulatory-Federal	US EPA	Primary
Irvine, Cam	POTW	Robertson-Bryan Inc.	Alternate
Johnson, Michael	Agriculture	MLJ Environmental	Primary
Laurenson, Brian	Stormwater	LWA	Primary
Mussen, Tim	POTW	Regional San	Primary
Phillips, Amy	Stormwater	El Dorado County	Primary
Taylor, Hope McCaslin	Stormwater	Larry Walker Associates (LWA)	Alternate
Turner, Melissa	Agriculture	MLJ Environmental	Primary
Upadhyay, Vyomini	POTW	Regional San	Primary

Ex-officio and staff

Mullane, Jessica	Staff	Central Valley Regional Water Board
Cole, Selina	Staff, TAC alternate	Central Valley Regional Water Board
Cooke, Janis	Staff,	Central Valley Regional Water Board
Heberger, Matthew	Staff	Aquatic Science Center
Kapahi, Gita	Facilitator	Office of Public Participation/State Water Board

Jessica Bean	Facilitator	Office of Public Participation/State Water Board
McCord, Stephen	TAC Co-Chair	MEI
McClure, Danny	Staff	Central Valley Regional Water Board
Moreno, Jessie	Staff	Central Valley Regional Water Board

Others

Louie, Stephen		California Department of Fish and Wildlife
Orlando, Jim		U.S. Geological Survey (USGS)
Hoffman, Krista		DWR
Philipart, Sean		DWR
Salman, Tyler		DWR
Smith, Linda		Metropolitan Water District

Introductions and Agenda

Participants approved the agenda.

Decision: Approve TAC Meeting Summary for June 12, 2018 & June 29, 2018 meetings and confirm/set future TAC meeting dates

The committee reviewed the upcoming meeting calendar and set the date for the next TAC meeting. Matt Heberger announced the addition of three new DRMP participants: DWR, Army Corps of Engineers and Caltrans. With the addition of the new participants, Delta RMP funding has grown by almost a third.

Upcoming Scheduled Meetings

- Pesticides Subcommittee Meeting with Deltares, Sept. 25, 2018, 9am-12, Regional San, Valley Oak Room
- Joint SC/TAC Meeting: October 29, 2018, 10 am – 5p m, Cal/EPA
- Pesticides Subcommittee: Friday, Nov 9, 2018 9 am – 1 pm, with Deltares, Cal/EPA
- TAC Meeting: Thursday, January 17, 2019, DWR offices in West Sacramento
- Steering Committee Meeting: Friday, February 22, 2019, Regional San, Sunset Maple Room

Decisions:

- The next TAC Meeting was set for Thursday, January 17, 2019.
- The TAC Meeting Summaries for June 12, 2018 and June 29, 2018 were approved with the following revision to the June 29th Summary. Edit the following paragraph (page 11 of agenda package); to better capture the discussion, change “would not” to “may not.”

“One TAC member noted that Water Quality Criteria are described by an exceedance frequency, and is concerned that Option A (rotating basin) does not give evidence for this, and therefore ~~would not~~ may not be useful in creating a 303(d) listing, or management plans.”

Action Items:

- Matt Heberger (ASC): Schedule a Doodle Poll for the next Pesticides Subcommittee to discuss toxicity and pesticides revisions to the QAPP, and revise June 29, 2018 Summary as stated above.

Information: Steering Committee Update

Stephen McCord summarized the following highlights of the July 17, 2018 Steering Committee meeting.

- ILRP Monitoring - Melissa Turner (MLJ Environmental) presented an overview of the Irrigated Lands Regulatory Program (ILRP) in the Central Valley.
- Pesticides/Toxicity Monitoring – Matt Heberger (ASC) provided an overview of the two proposed monitoring designs. The SC had posed questions on the two that were chosen for continued monitoring. Staff addressed these concerns by providing additional information – the sites were chosen because (1) they are “integrator” sites that are inflows to the Delta; (2) some toxicity had been observed at these 2 sites in the past; and (3) as historic Delta RMP monitoring sites, they provide a continuous record that can be used to detect trends or changes over time. The Steering Committee approved funding for Pesticides Proposal Option B with inclusion of QAPP revisions. (See SC Meeting Summary, page 19 of agenda package.)
- Approve Plan for CECs Pilot Study – Brian Laurenson (LWA) provided an update on the study. The SC voted to approve the work plan and first year budget of \$45,000. The first year’s workplan includes project plan and writing a Quality Assurance Program Plan (QAPP), with sampling to begin in Fall 2019.
- Approval for Mercury Monitoring Report – The committee approved the publication of the Year 1 Mercury Monitoring Report.
- Fee Increase – The committee voted for a fee increase of 3% by all financially contributing participants for FY19/20.

Technical Subcommittee and Monitoring Updates

Updates were provided on the CEC (Brian Laurenson), Nutrients (Janis Cooke), Mercury (Stephen McCord) and Data Management (Selina Cole) Subcommittees.

CECs

Funding was approved for planning efforts in the first year. The subcommittee has met once. Funding is needed for monitoring to begin next FY. ASC has a budget to develop a QAPP. The subcommittee is in favor of a separate standalone QAPP for the CECs Study.

Nutrients

Participants from 6 programs (managed by DWR, USGS, SFEI, and USBR) are participating in the Chlorophyll Sensor Intercalibration Study. The first deployment is complete with preliminary data. Second deployment is scheduled for 9/27 – 10/10. The next workgroup meeting will be 10/26. The contractor for the WY2016 Water Quality Modelling Project backed out due to a misunderstanding. 2 out of 3 of the High Frequency Cruises are complete; the third is scheduled for October. The Nutrients Subcommittee has held joint meetings with the Delta Nutrient Research Plan since May. They will meet in October to talk about Prop 1 proposals.

Mercury

Annual fish monitoring was completed in August-September. The Year 2 Data Report is being drafted and should be ready in December. The subcommittee will meet next week to determine targeted monitoring events.

Data Management

The subcommittee has had a couple of meetings. A data management document is being drafted by the subcommittee that will be an appendix to the QAPP revision for pesticides and toxicity. The subcommittee has also put together a flow chart (pros/cons) on the data flow process, NWIS + CEDEN vs. only entering data into NWIS. Any proposal to change the process would move first through the subcommittee, then the TAC and finally to the Steering Committee. The next subcommittee meeting will be October 3rd.

Action Item:

- Matt Heberger (ASC): Matt will develop a Gantt chart showing all the different subcommittees, and the projects and deliverables associated with each. The chart will be presented at the Joint Meeting on October 29th.

Decision: Recommend approval of Pathogens Monitoring Final Report

Brian Laurensen (LWA) presented the Pathogen Special Study Final Report. There were only minor comments outstanding from the committee on the Final Report.

Decision:

- The committee agreed to recommend that the Steering Committee approve and publish the Pathogens Monitoring Final Report.

Action Items:

- Brian Laurensen (LWA): Revise Pathogens Monitoring Final Report with committee comments. Committee members to submit final comments no later than Tuesday, 9/25.

Decision: Recommend final publication of FY16/17 Pesticides Data

Matt Heberger (ASC) presented three supporting documents for the FY16/17 Pesticides Dataset:

- Spreadsheet of FY16/17 Pesticides Chemistry Data
- Memo from Don Yee, ASC QA Officer
- Pesticides Dataviz tool

Because the revised, final data spreadsheet was distributed only 3 days prior to this meeting, some Committee members requested more time to review the information before recommending publication of the FY16/17 data.

Decision:

- The committee elected to move this item to the October 29, 2018 Joint SC/TAC Meeting Agenda.

Action Items:

- Committee members with outstanding questions should contact Matt. Additionally, if contacting Don Yee on this item, please CC Matt.
- Matt Heberger will add this item to the 10/29 Joint Meeting agenda. TAC members will be asked during the Joint Meeting for a recommendation to the Steering Committee to approve and publish the dataset.
- Jim Orlando requested Matt send him the most recent version of the Appendix to the QAPP (Data Management and Quality Assurances Standard Operating Procedures) to review.

Science Advisors

Matt Heberger presented the revised "Plan for Science Advisor Input in FY18/19." It was the recommendation of the committee to invite one or more Science Advisors to the November 9, 2018 Pesticides Subcommittee Meeting with Deltares and schedule a one-hour meeting with the Science Advisors, (without Deltares), immediately following the subcommittee meeting.

Action Items:

- Matt Heberger (ASC): Invite the Science Advisors to the 11/9/18 Subcommittee meeting. Include a specific Science Advisor Engagement Plan in next year's work plan.

Pesticides and Toxicity Monitoring Design

Matt Heberger provided an update on the work done on the monitoring design since the Steering Committee approved funding for proposed Water Year 2019 at the July meeting. The list of pesticide analytes has changed slightly, with a dozen analytes removed as they have never detected by our monitoring and have not been registered for use in CA in over 3 years. Five organisms will be tested for various toxicity end points. Sampling sites within each Delta

subregion will be randomly distributed, overall resulting in roughly 50% split Delta-wide between sites deeper and shallower than 2.5 m mean low water depth. Storm event triggers have been tabulated for field crew reference. The Pesticides Subcommittee and Toxicity Workgroup have met four times since the last TAC meeting. The committee had concerns on three topics in the presentation:

- Outstanding issues related to tox testing
- Lack of consensus on one issue (low EC effect on *Ceriodaphnia*)
- Proposed way forward

Decision:

The committee decided on a 3-step process as a proposed way forward for resolving the issue related to low EC effect on *Ceriodaphnia* toxicity testing.

1. Tox Workgroup will work with SWAMP QA Officer, then
2. Tox Workgroup will try to resolve internally, if no resolution then
3. Tox Workgroup will consult one of the Delta RMP Science Advisors, or Dave Mount EPA/Duluth

Action Items:

Matt Heberger (ASC):

- Work with Cam Irvine and Selina Cole to revise the outstanding issues and lack of consensus slides on tox testing.
- Develop a timeline for completion of the QAPP and distribute to the TAC for review and approval. This will be added to the agenda of the next Pesticides Subcommittee meeting. (date TBD – see Item 2 above)

Relevant grant proposals

The committee discussed potential grant proposals. Recent grants awarded which are relevant to the Delta RMP include a mercury synoptic measurement study by USGS and a cyanoHABs study administered by the Regional Water Board.

Decision:

There was general agreement to pursue Prop 1 funding to expand the scope of the CEC study. The Nutrient subgroup may also submit a proposal.

Action Items:

- Matt Heberger (ASC) will begin the process of securing funding and assistance for writing a CEC-related Proposition 1 proposal. CEC Subcommittee members interested in working on the grant proposal should contact Matt.

Planning for the October 29, 2018 Joint TAC-SC Meeting

Some of the suggested topics for the Joint Meeting Agenda:

1. External Communication
 - a. How to visualize and share data.
 - b. Pulse of the Delta vs. Web site options
2. CEC Update
3. Recommend final publication of FY16/17 Pesticides Data
4. Discuss plan for using Science Advisors
5. Long-term Planning
 - a. State of the Program – where have we been/where are we going
 - b. Upcoming regulatory drivers for monitoring (pyrethroids, etc.)
 - c. Should a Human Health question be added for CECs and Pesticides?
6. Guest Speaker?

Action Items:

Matt Heberger (ASC) will investigate securing a guest speaker for the Joint Meeting.

Information: Status of Deliverables and Action Items

Action Items are as stated in the summary.