



STAFF MEMORANDUM

TO: Board Members and Alternates

FROM: Scott Petersen, Water Policy Director
Cynthia Meyer, Special Programs Manager

DATE: June 6, 2024

RE: Update on Science Program

SUMMARY

The San Luis & Delta-Mendota Water Authority's ("Water Authority") current science commitments for Fiscal Year 25 (March 1, 2024 – February 28, 2025) may be considered in two categories. First, the Water Authority re-budgeted \$120,000 from the FY24 budget to fund two activities and/or studies previously authorized to be funded. Second, the Water Authority has budgeted \$610,000 in the current budget for science studies. More detail regarding the various science commitments is provided below. In total, the Water Authority started the current fiscal year with approximately \$730,000 available to fund science, of which \$60,000 has been obligated, and another \$60,000 has been committed.

1. Previous Commitments - \$120,000 in FY 25 Budget

Subject	Description of Work / Objective(s)	FY 25 Budget
Joint Funding CSAMP Delta Smelt Structured Decision-Making Phase 3b	This funding would support management and technical analyses required to conduct Phase 3 for the CSAMP Delta Smelt Structure Decision Making (SDM) project. Technical analyses would include modeling and the application of other analytical tools to evaluate the consequences of proposed management actions for Delta Smelt as well as the evaluation of potential consequences to other resource values including water supply and agriculture. Phase 3b is underway and will provide a Formal evaluation of Delta Smelt recovery actions along with the full suite of objectives: Salmon, Ecosystem, Water Supply, Cost, Learning.	\$50,000
Joint Funding Delta Coordination Group Structured Decision-making Facilitation	Funds support and assistance with the structured decision making for recommendations for summer-fall habitat actions for delta smelt by the Delta	\$10,000

	Coordination Group to the U.S. Bureau of Reclamation and the Department of Water Resources. Main contract with Dr. Jennie Hoffman with Adaptation/Insight, using Compass Resources.	
Reorienting to Recovery Salmon Workshops	Funds support continuing this effort to collaborate with a wide range of interested parties to develop innovative approaches to aid salmon population recovery. This activity was transferred from CAMT to the Delta science Program for completion and is jointly funded by SWC and other agencies.	\$60,000

2. New Science - \$610,000 in FY 25 Budget

Subject	Description of Work / Objective(s)	FY 24 Budget
Science Studies/Efforts		\$610,000
CAMT Studies	This funding would match State Water Contractor funding obligated for CAMT studies. The Water Authority and State Water Contractors are currently jointly researching potential uses for this funding – <ol style="list-style-type: none"> 1. Salmonid Survival Study (<i>final report expected in April 2024</i>), 2. OMR Management - Adult Delta Smelt Entrainment Study (<i>final report in preparation</i>) 3. Delta Smelt Structured Decision-Making (SDM) (<i>to be completed by August 2024</i>) 4. Evaluating the monitoring and science synthesis efforts. 	\$150,000
Joint Funding CAMT Technical Support	Funds support technical engagement by Hanson Environmental (Chuck Hanson) in CAMT and CSAMP meetings. Contract held by SWC and jointly funded at a 50-50 cost share.	\$25,000
Delta Coordination Group Summer Fall Habitat Action Structured Decision-Making Facilitation Support	Funds support facilitation and assistance with Delta Coordination Group Structured Decision Making for Delta Coordination Group recommendations to Reclamation and DWR related to Summer Fall Habitat Actions in the Biological Opinions and State Incidental Take Permit. Project jointly funded with State Water Contractors and the contract is with Compass Resources, with a subcontract held by Jennie Hoffman of Adaptation/Insight, who is performing facilitation support services for the Group.	\$10,000

<p>SLDMWA Technical, Science and Regulatory Support</p>	<p>Funds will be used for engagement in Science Program, technical or regulatory efforts that arise in FY 2025. Anticipated use includes technical support for the reconsultation on long-term operations of the CVP and SWP, anticipated ESA/CESA listing decisions for longfin smelt, giant gardener snake, yellow-legged frog (and others), and engagement in efforts associated with the Bay-Delta Plan Update and HLR Science Plan.</p> <p>Funding obligated to date includes:</p> <ol style="list-style-type: none"> 1. Facilitation and Technical Support for Development of Healthy Rivers and Landscapes 	<p>\$200,000</p>
<p>University of California, Merced Science Partnership</p>	<p>Funds will be used to initiate a partnership with the University of California, Merced, for capacity building in the Science Enterprise and to conduct research into issues of importance to member agencies.</p>	<p>\$225,000</p>

SCIENCE PROGRAM ACTIVITIES:

Staff participates in several science forums and coordination activities. The highlights include:

Agreements for Healthy Rivers and Landscapes (“Agreements”) Science Committee (Bay-Delta Plan Update):

In April 2024, the Agreements Science Committee presented the plan during a workshop with the State Water Resources Control Board. Board members asked questions of the panelists focused on key points of uncertainty related to fisheries outcomes and the proposed Science Plan that will be incorporated into future Agreements Science Committee updates as the Agreements advance through the Board process. The Agreements Science Committee is reviewing the feedback from the April workshop and revising as appropriate.

Delta Coordination Group (DCG):

The final 2023 DCG Activities Report is anticipated in May 2024. Staff is participating on the planning committee for the Summer-Fall Habitat and Salmon Juvenile production independent reviews. The DCG is updating the Science and Monitoring plan and improving documentation of the SDM effort. During the March 2024 workshop, staff provided comments on the potential application of the 100 TAF for the benefit of Delta Smelt and considered the impacts of both the continuous 60-day flows and the intermittent 7-day pulse flows options.

Collaborative Adaptation Management Team (CAMT)/Collaborative Science and Adaptive Management Program (CSAMP):

The CAMT is revising a draft report for the Delta Smelt Structured Decision-Making efforts, which provides a summary of the activities and suggestions for moving the effort forward. This report is anticipated in June 2024 and may be used to help inform the ESA and CESA consultation efforts. Staff continues to encourage the completion of this report to be available for consideration prior to the publication of the Draft Environmental Impact Statement for the LTO.

Additionally, the Salmon Technical Working Group is preparing the final draft report for the CAMT Salmon Sub-team update to the 2017 Salmon Scoping Team Report. The revised version is anticipated for June 2024.

The two-day Reorienting to Recovery (R2R) workshop was held in April 2024. The meeting focused on reviewing three approaches to achieve salmon recovery. The participants from various interested parties provided feedback on the alternatives. The R2R effort will convene another workshop in Fall 2024.

The second draft of CSAMP biennial report was provided in March 2024 for additional comment. It includes the accomplishments for 2022 and 2023. The CSAMP conducted a survey effort to reflect on the effectiveness, direction, and improvements of the group. The initial feedback was discussed at the Quarterly CSAMP Policy Meeting and a subgroup will be convened to develop options for moving forward.

ESA Consultation for the Long-Term Operations of the CVP and SWP

A second draft of the EIS was provided in April 2024 for review by the cooperating agencies. Staff provided comments and technical recommendations to improve the document. The public draft EIS will likely be released in mid-July 2024 followed by the public meetings. In addition, the draft Biological Opinions from USFWS and NMFS are anticipated in Summer 2024.

The Delta Science Program completed an independent science review of the aquatic effects analysis from the Biological Assessment as requested by Reclamation. Staff reviewed the report to inform the comments for the upcoming Biological Opinions and provided feedback to the Reclamation staff for priority revisions. The final report was released in April 2024 and is available at <https://deltacouncil.ca.gov/delta-science-program/scientific-peer-review>

The National Academies of Sciences, Engineering, and Medicine independent review of the Long-term Water Operations of the CVP and SWP held the third meeting on May 6-8 in Redding, CA. This meeting focused on the Shasta cold water pool management and temperature needs of Salmon. The next meeting will be in August 2024. Information and recordings of the presentations are available at <https://www.nationalacademies.org/our-work/review-of-the-long-term-operations-of-the-central-valley-project>

Science Coordination:

At the January 2024 meeting, the Board approved the Science Plan. Staff revised the draft Science Plan based on the input from the Water Resources Committee and Board. The Science Coordination Workgroup met in March 2024 to discuss the implementation of the short-term tasks outlined in the science plan. In addition, staff is working on establishing a contract with UC Merced to support the science needs of the Water Authority. At the April 2024, meeting the Board approved a resolution to address the indirect cost rate associated with this contract. The contract is anticipated to be presented to the Board at the July 2024 meeting for consideration.