CV-SALTS Executive Committee Meeting

Thursday, May 19, 2022 9:00 AM – 11:45 AM

https://us06web.zoom.us/j/85309699062?pwd=TG5sVnBVS3dRSlQwMDhyUXVFU2hmUT09

Meeting ID: 853 0969 9062 **Passcode:** 127358

Dial-in: 253 215 8782

Posted 05-10-2022 – Revised 05-18-22

1) **Welcome and Introductions – Chair** – (10 mins)
   a) Committee Roll Call and Membership Roster
   b) Review and Approve April 7, 2022 Meeting Notes

2) **Basin Plan Amendments – Implementation Update** – Patrick Pulupa, Anne Walters (20 mins)
   - Program Implementation
     - Management Zone progress and deadlines
     - Enforcement Activities MZ and P&O

3) **Management Zones – Status Update** – (20 mins)
   - SAFER Funding of Co-Contaminant Impacts by MZs : VWC, Kaweah, Kings, and Tule – Daniel Cozad
   - Management Zone Progress and Outreach
     - CV-SALTS Nitrate Program Progress & Results
     - Outreach and Implementation Status
     - LINK TO > Management Zone Program Summary

4) **Prioritization & Optimization Study** – (1 hr, 30 minutes)
   - Overview and Discussion Facilitation – Bobbi Larson
   - Baseline Characterization Report: Status Update – Richard Meyerhoff/Tom Grovhoug
   - Analytical Tools/Models Identification and Evaluation – Tom Grovhoug
     - Update from May 18 Tools Evaluation Small Group Meeting
   - Data Management Systems: Status Update – Mike Cornelius/Richard Meyerhoff
     - Data Management Plan Development

5) **SAMP (Sampling & Monitoring Program)** – Daniel Cozad (5 mins)
   - Status Update and Next Steps

6) **PEOC Status Update** – Nicole Bell (10 mins)
   - **LINK** to Outreach Matrix - Outreach Tracking
   - Outreach Timeline for 2022

7) **Review Meeting Schedule/Location** – (5 mins.)
   - PEOC Meeting: **June 17, 2022, 9:30 – 10:30 AM – Zoom**
   - Policy Meeting: **June 23, 2022, Tentatively 9:00 – 3:00 - Zoom (Final times TBD)**

CV-SALTS meetings are held in compliance with the Bagley-Keene Open Meeting Act set forth in Government Code sections 11120-11132 (§ 11121(d). The public is entitled to have access to the records of the body which are posted at http://www.cvsalinity.org.

One or more Central Valley Regional Water Quality Control Board members may attend.

CV-SALTS Committee Rosters

Executive Committee Membership			CV-SALTS Executive Committee Meetings -2021-2022												
Voters	Category/Stakeholder Group	Name	11-Feb	11-Mar	8-Apr	13-May	10-Jun	19-Aug	16-Sep	21-Oct	18-Nov	13-Jan	10-Feb	17-Mar	7-Apr	19-May
1	Central Valley Water Board	Patrick Pulupa	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	
Alt	Central Valley Water Board	Anne Walters	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	State Water Resources Control Bd.	Darrin Polhemus														
3	Department of Water Resources	Barrett Kaasa	✓	✓												
Alt	Department of Water Resources	Jesus Mercado				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	US Bureau of Reclamation	Grace Windler	✓					✓	✓	✓	✓	✓	✓	✓	✓	
5	Environmental Justice															
6	Environmental Water Quality	TBD														
CV Salinity Coalition																
1	So. San Joaquin WQC	Nicole Bell	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			
2	City of Stockton	Deedee Antypas	✓	✓	✓	✓	✓	✓		✓		✓	✓			
3	California Cotton Growers	Chris McGlothlin		✓			✓	✓				✓	✓			
4	City of Fresno	Rosa Lau-Staggs	✓							✓						
5	CA Leaque of Food Processors	Trudi Hughes										✓				
Alt	CA Leaque of Food Processors	Rob Neenan	✓	✓	✓	✓		✓	✓		✓	✓	✓		✓	
6	NCWA/SVWQC	Bruce Houdesheldt	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	City of Tracy	Stephanie Hiestand	✓	✓		✓	✓			✓	✓	✓	✓	✓	✓	
Alt	City of Tracy	Aloke Vaid														
8	Sacramento Regional CSD	Chris Hunley						✓		✓	✓	✓	✓			
Alt	Sacramento Regional CSD	Sam Safi	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	
9	San Joaquin Tributaries Authority	Jonathan Marz	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	
Alt	San Joaquin Tributaries Authority	Valerie Kincaid														
10	Valley Water Management	Melissa Thorme	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Alt	Valley Water Management	Jason Meadors	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
11	California Rice Commission	Tim Johnson	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12	City of Davis	Josie Tellers	✓	✓		✓	✓	✓	✓	✓		✓	✓			
13	Tulare Lake Drainage District	Mike Nordstrom	✓	✓			✓									
14	Western Plant Health Assoc.	Renee Pinel														
15	City of Vacaville	Mindy Boele	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓			
Alt	City of Vacaville	Justen Cole														
16	Dairy Cares	J.P. Cativiela	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	
Alt	Dairy Cares															
17	Westlands Water District	Zac Just	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Alt	Westlands Water District	Kori Peterson	✓		✓								✓	✓	✓	
18	East San Joaquin WQ Coalition	Parry Klassen		✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	
Comm. Chairs/Co-chairs																
1	Chair Executive Committee	Debbie Webster CVCWA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	Vice Chair Executive Committee	Mike Wackman SJ Co/Delta V	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	
3	Technical Advisory Committee															
	Technical Advisory Committee	Nigel Quinn, LBL	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			
4	Public Education and Outreach	Nicole Bell														
5	Economic and Social Cost Committee	David Cory, SJVDA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

CV-SALTS Committee Rosters

Participant Names			CV-SALTS Executive Committee Meetings -2021-2022												
Last	First	Organization	11-Feb	11-Mar	8-Apr	13-May	10-Jun	19-Aug	16-Sep	21-Oct	18-Nov	13-Jan	10-Feb	17-Mar	7-Apr	19-May
Aguilar	Marisol							✓								
Agus	Eva	East Bay MUD									✓					
Atume	Ngodoo	CWA		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	
Au-Yeung	Cindy	CVRWQCB	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	
Bean	Jessica	SWRCB														
Beckstead	Christina	Madera Farm Bureau					✓	✓						✓	✓	
Bejarano	Antonio	WWD	✓	✓	✓	✓			✓		✓					
Belt	David	CVRWQCB							✓							
Bradford	Mark													✓	✓	
Brown	Laura										✓					
Cady	Mark	CDFA		✓	✓	✓				✓		✓	✓			
Campbell	Morgan													✓	✓	
Carlo	Penny															
Claiborne	Mike	Leadership Counsel	✓													
Cremers	Noelle	Wine Institute	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
Cruikshank	M.							✓								
Dailey	Hannah	CVRWQCB													✓	
Dalgish	Barb	LSCE									✓	✓	✓	✓	✓	
Dransoff	Zack	CRC	✓	✓	✓	✓										
Dunham	Tess	Kahn, Soares & Conway	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Dunn	Debra	Kings River Cons District	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓			
Fuller	Dustin	TLDD			✓	✓	✓		✓	✓	✓					
Fuller	Jennifer	CVRWQCB			✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	
Fulton	Ryan										✓					
Gallock	Charlotte	KRWQC	✓		✓			✓	✓		✓	✓	✓	✓		
Gardiner	Charles	Catalyst Communications	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	
Gore	Bob	Gualco Group/CIPA	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	
Gosling	Doug															
Grovhoug	Tom	LWA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Guttierrez	Christine	GEI Consultants														
Guzman	Jenalyn	OPP/SWRCB												✓	✓	
Hearn	Stephanie	GEI		✓	✓	✓	✓	✓				✓	✓			
Horne	Randy	Valley Water Mgmt.														
Kadara	Denise	CVRWQCB										✓	✓			
Khang	True	CVRWQCB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Kretsinger Grabert	Vicki	LSCE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

ADDITIONAL PARTICIPANTS:

CV-SALTS Committee Rosters

Participant Names			CV-SALTS Executive Committee Meetings -2021-2022												
Last	**First**	**Organization**	11-Feb	11-Mar	8-Apr	13-May	10-Jun	19-Aug	16-Sep	21-Oct	18-Nov	13-Jan	10-Feb	17-Mar	7-Apr	19-May
Laputz	Adam	CVRWQCB			✓	✓			✓			✓	✓	✓	✓	
Larson	Bobbi	Somach Simmons & Dunn	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
LeClaire	Joe	LeClaire & Associates	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Liu	Yuan	CCWD			✓	✓		✓					✓			
Longley	Karl	CVRWQCB	✓	✓							✓	✓	✓	✓	✓	
Loving	Jennifer	City of Fresno									✓		✓			
McReynolds	Scott	CVRWQCB			✓											
Mendes	Justin	Tulare Lake Basin WSD	✓	✓			✓	✓				✓	✓	✓	✓	
Meyerhoff	Richard	GEI Consultants	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Miller	Kenneth	Formation Environmental												✓	✓	
Osorio	Bryan	CWC						✓		✓	✓	✓	✓			
Petersen	Chris	GEI Consultants										✓	✓			
Petersen	Chris	SLDMWA				✓		✓								
Pope	Aaron	Catalyst Communications		✓		✓								✓	✓	
Prescott	Darrin	Grenian			✓		✓		✓			✓	✓	✓	✓	
Razor	Matthew							✓								
Robinson	Kathryn	CRLA					✓									
Robinson	Kristi	Chowchilla MZ							✓	✓	✓	✓	✓			
Rutherford	Sara	KBWQA		✓			✓	✓	✓	✓		✓	✓			
Schuil	Charlotte										✓	✓	✓	✓	✓	
Seyfried	Scott	SWRCB		✓												
Soto	Sammy	CVRWQCB							✓	✓				✓	✓	
Staggs	Rick	City of Fresno	✓								✓			✓	✓	
Takeda	Jackie	GEI Consultants								✓						
Taylor	Hope										✓					
Tillman	Stephanie	LANDIQ	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Tran	Mikayla	Sustainable Conservation												✓	✓	
Trouchon	Mike	LWA							✓	✓	✓	✓	✓	✓	✓	
Warren	Eric	CVRWQCB	✓			✓										
Wehr	Ellen	Grassland Water Dist				✓										
Witty	J.							✓			✓	✓	✓			
Zimmerman	Christine	IOPA	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	

ADDITIONAL PARTICIPANTS:

CV-SALTS Executive Committee Meeting - Summary Action Notes

For April 7, 2022 – 8:30 AM to 12:30 PM

Attendees are listed on the Membership Roster

8:30 Special Focus Session – Data Management Systems Communications Tool

- Mike Cornelius and Maria Pascoal provided a working demonstration of the comments module of the communications portal developed by GEI for local agencies to use as they implemented SGMA and developed Groundwater Sustainability Plans in their area.

DISCUSSION ITEMS

1) Welcome and Introductions
   a) Executive Committee Chair, Debbie Webster, brought the meeting to order, and roll call was completed.
   b) David Cory moved, and Parry Klassen seconded, and by general acclamation the March 17, 2022, Meeting Action Notes were approved.

2) Basin Plan Amendments – Implementation Update
   - Patrick Pulupa and Anne Walters provided an update on the status of implementation activities in the Salt and Nitrate Control Programs.
     - Regional Board staff will be providing a brief update to the Board at the April 21, 2022, Board meeting on non-filer enforcement efforts for the CV-SALTS program.
       - Current Pathway Selections for Salt and Nitrate:
         - **SALT**
           Conservative – 49
           Alternative – 2736
           None Selected – 365
         - **NITRATE**
           Individual – 18
           Management Zone – 1075
           None Selected – 97
     - The annual update on the CV-SALTS program is scheduled for the June 7, 2022, State Water Board Meeting.

3) Management Zones – Status Update
   - Daniel Cozad provided a status update on the SAFER Funding of Co-Contaminants testing. The final signed agreement for Valley Water Collaborative should be received from the Division of Financial Assistance any day now. Kaweah Water Foundation is working on their scope of work and budget. Kings Water Alliance and Tule Management Zone are also in the process of developing their SAFER agreements. Daniel also previewed the new "CV-SALTS Nitrate Program Progress & Results" graphic which now includes a summary of "Year 1 Outreach Activities."
   - Sara Woolf provided a detailed presentation on Chowchilla Management Zone outreach activities as of March 31, 2022. The presentation covered the various outreach categories, (Social Media, USPS Mailings, Emails/Flyers, Food Bank, Door-to-Door, Resident Attendance at Community Events), and the results obtained in total inquiries, applications, well tests/results, and water replacement.
   - Parry Klassen updated the committee on the Valley Water Collaborative press conference held the afternoon of March 17th in conjunction with the rollout of the new phase of co-contaminant well

testing. The press coverage generated by the news conference (ABC10, Turlock Journal, Modesto Bee) is posted on the Residential Well Testing page of the CV-SALTS website.

4) Prioritization and Optimization Study

- Daniel Cozad provided an overview of discussion topics and informational items:
  - Baseline Data Acquisition – Update on Data Collection Small Group
  - Analytical Tools and Models – Review of Additional Tools, Finalize Evaluation Criteria, Small Group Formation
  - Data Management Systems – Communications Portal Demo/Summary, Draft Data Management Plan
- Data Collection Small Group - Tom Grovhoug, Mike Trouchon, and Richard Meyerhoff gave an update on the activities of the Data Collection Small Group. The group is still in the process of reaching out to potential data sources. A draft document summarizing all the data collection efforts is tentatively scheduled for the June meeting.
- Analytical Tools/Model Identification and Evaluation Criteria – Tom Grovhoug continued the review of candidate tools/models with a presentation on Delta Models and Crop Salinity Tolerance Tools. Detailed presentations were provided on the following models:
  - Delta Models
    - DSM2
    - RMA
  - Crop Salinity Tolerance Models
    - Ayers and Westcot; Hoffman
    - Grattan-Isidoro
  - Evaluation Criteria – An updated draft of potential Evaluation Criteria was presented. The following two additional criteria were added since the March meeting:
    - *Can the tool/model or its output be efficiently "linked" or "cascaded" to other tools/models as required for the P&O study?*
    - *Has the model been peer reviewed: Is it well documented? Is it proprietary?*

    Some of comments from the committee on the criteria:
    - Clarify what key essential outputs the study is seeking to obtain from the models.
    - Can the models help with integrating other components of the programs, such as the SAMP data? Is there sufficient flexibility to deal with future information over the course of the planning period?
  - Committee members responded to three polling questions on the evaluation criteria and formation of a small group. There was general agreement that the criteria captured the important considerations for selecting models and tools for the study. Four participants indicated that based on the day's discussion they would be providing additional comments. 93% of respondents supported formation of a Small Group to assess candidate tools and bring back recommendations to the Executive Committee.
  - Committee members we asked to submit any additional evaluation criteria to the technical team no later than Thursday, April 21, 2022.
- Data Management Systems – Richard Meyerhoff and Mike Cornelius provided an update on the Data Management Plan. The proposed plan includes three modules: Document Management System, Model and Data Storage, and a Communications Support Tool with Comments Module.
  - Concerns expressed by committee members:
    - Ensure that all hosting/licensing and ownership issues are clear contractually.
    - Make sure that how data is stored ensures it can be utilized as efficiently as possible. Look at the presentations from the CWEMF Conference held this week for information on recent innovations.

- A Preliminary Draft Data Management Plan will be distributed on April 18, 2022, with comments due back by April 29, 2022. The Revised Draft Data Management Plan for review is scheduled for the May Executive Committee meeting.

5) SAMP (Sampling & Monitoring Program)
   - Daniel Cozad provided a status update on the SAMP. MLJ Environmental has begun work on Task 1. There will be a more detailed update on SAMP for the May meeting. Anyone specifically interested in the SAMP should contact Daniel.

6) PEOC Status Update
   - Daniel Cozad provided an update on PEOC activities. A copy of the quarterly email update, scheduled for release the week of April 11, 2022, was included in the package. The PEOC will be meeting on the Friday before each Executive Committee going forward.

7) Review Meeting Schedule/Location
   - PEOC Meeting: **Friday, May 13, 2022, 9:30 – 10:30 AM – Zoom**
   - Policy Meeting: **Thursday, May 19, 2022, Tentatively 9:00 – 3:00 (Final Times TBD) - Zoom**

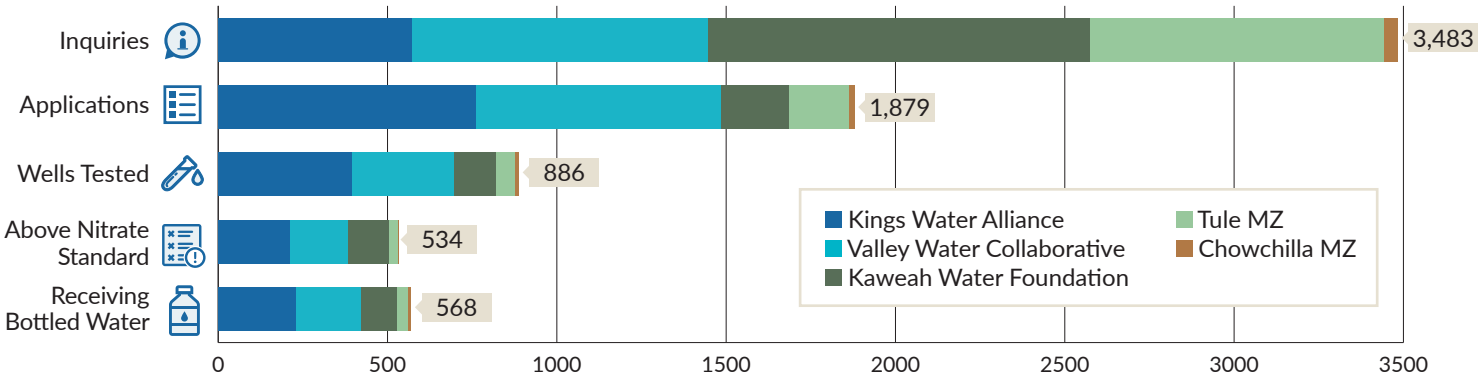
CV-SALTS Nitrate Program Progress & Results

PROGRAM GOAL

Provide safe drinking water to households whose wells exceed nitrate standards.

Households Processed for Bottled Water Deliveries

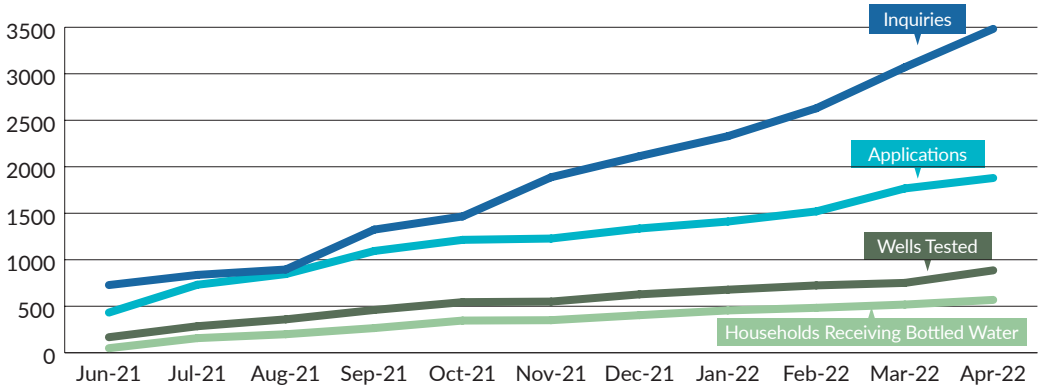
Outreach efforts generate inquiries. → Inquiries are contacted to explain the program and invite applications. → Applications are qualified and scheduled for testing. → Testing analyzes household well water. → If the sample exceeds safe standards, the household is scheduled for water delivery. → Water deliveries start.



60% 60% of wells tested have exceeded the nitrate standard

695 695 gallons per day provided to households from 7 free water fill stations.

Bottled Water Program Participation



34% 34% of applications were ineligible

21% 21% of applications have not responded to follow-up contacts.

May 2022

CV SALTS Central Valley Salinity Alternatives for Long-term Sustainability

YEAR 1 OUTREACH ACTIVITIES

Active Management Zones submitted Early Action Plans in 2021 for providing safe drinking water to households affected by high levels of nitrate in groundwater. Since then, Management Zones have been conducting community outreach and engagement to inform residents about the program, test private wells, and provide bottled water where needed.

ACTIVE MANAGEMENT ZONES

- Valley Water Collaborative
- Chowchilla Management Zone
- Kaweah Water Foundation
- Kings Water Alliance
- Tule Management Zone

POSTCARD & FLYERS

Management Zones use direct mail and door-to-door flyer distribution to get program information to potentially affected households. Rural areas pose a particular challenge for door-to-door efforts.

24 campaigns

126,464 household contacts

PROMOTION

Management Zones use radio, television, newspapers, road signs, and social media to describe and promote the program.

679 placements

1,224,000 impressions

MEETINGS & EVENTS

Management Zones hold in-person and online community meetings to describe the program and encourage applications.

79 events

1,887 participants

WEBSITES

Each Management Zone manages a website as an information source and means for residents to apply.

22,376 website visitors

ONE-ON-ONE DISCUSSIONS

Management Zones talk individually with residents at street events, door-to-door, and by phone to answer questions, follow-up on applications, and encourage participation.

787 events / activities

7,594 contacts

COMING SOON Email and social media metrics for Management Zone outreach activities.

CENTRAL VALLEY SALINITY COALITION

CV SALTS
Central Valley Salinity Alternatives for Long-term Sustainablity

Prioritization & Optimization Study

5-19-22

CVSALTS Executive Committee Presentation
Prepared by the Central Valley Salinity Coalition

Overview

Agenda Item: Baseline Data Characterization:

- January 13: Overview of baseline data characterization process
  - Data compilation small group assisting with data gaps
- Today: Presentation re phased approach/alignment with tools selection

Overview

Agenda Item: Analytical Tools and Models

- February 10: Introduction to Analytical and Modelling Tools
- March 17:
  - Overview of candidate tools and models
  - Presentation of preliminary evaluation and selection criteria

CENTRAL VALLEY SALINITY COALITION

Overview

- April 7:
  - Review of additional tools
  - Evaluation Criteria
  - Formation of Tools Evaluation small group to develop recommendations for Executive Committee
- Today: Informational Report from first small group meeting.

Overview

Agenda Item: Data Management Systems

- March 17: Overview of Data Management Plan
- April 7:
  - Communication Portal Demo
  - Outline of Draft Data Management Plan
- Draft DM plan released 4/19; comments due May 2

Overview

- Today
  - Summary of comments received/review of revised draft
  - Revised Draft DM Plan to be released for comment May 25; Comments due June 6
  - Approve final Data Management Plan June 23 meeting

Baseline Characterization Report
Table of Contents (Working Draft – May 16, 2022)

1. **Executive Summary**
2. **Introduction** (P&O Study overview; purpose/objectives of characterization, document roadmap)
3. **Central Valley Region** (Physical Setting)
   - 3.1 Topography
   - 3.2 Climate
   - 3.3 Historical/Natural Conditions Overview
     - 3.3.1 Introductory Overview
     - 3.3.2 History of Water Project Development in the Central Valley
     - 3.3.3 History of Water Use and Management in Central Valley
     - 3.3.4 Implications for Salinity Conditions in Central Valley
     - 3.3.5 Planned or Potential Changes in Water Projects/Water Management in Central Valley
4. **Hydrologic Regions** (Detail below for Section 4.1 is for Sacramento River Valley; Section 4.2 - San Joaquin River Valley and Section 4.3 - Tulare Basin will have same outline structure)
   - 4.1 Sacramento River Valley
     - 4.1.1 Governing Entities (jurisdictions, water/irrigation Districts, GSAs, DACs/DUCs, public water systems, other key planning agencies/Entities
     - 4.1.2 Surface Water Characteristics
       - 4.1.2.1 Watershed Descriptions
       - 4.1.2.2 Surface Water Features (natural and manmade)
       - 4.1.2.3 Flow Characteristics (emphasis on Salinity Conditions)
       - 4.1.2.4 Water Quality (data sources, monitoring sites, analysis methodology, ambient conditions and trends)
       - 4.1.2.5 Salt Transport/Movement Characteristics
     - 4.1.3 Groundwater
       - 4.1.3.1 Basins/Subbasins
       - 4.1.3.2 Geology
       - 4.1.3.3 Soils
       - 4.1.3.4 Principal Aquifers, Aquitards and Groundwater Zones
       - 4.1.3.5 Groundwater Depth (existing, trends for selected locations)
       - 4.1.3.6 Water Quality (data sources, monitoring sites, analysis methodology, ambient conditions and trends)
       - 4.1.3.7 Salt Fate and Transport Characteristics
     - 4.1.4 Surface Water/Groundwater Interactions (groundwater-dependent ecosystems; gaining/losing stream reaches)
     - 4.1.5 Land Use Characterization
       - 4.1.5.1 Land Use Categories (existing characteristics, trends)
       - 4.1.5.2 Agriculture Land Use (existing cropping patterns, trends)

4.1.6 Characterization of Key Sources of Salt Loading

<u>Proposed Shift to a Phased Baseline Characterization Report Development Approach</u> - Findings to date regarding salt loading data availability demonstrates a need to develop salt source information in two phases:

- *<u>Phase 1</u> – Focus on characterization of the key salt sources in terms of location/distribution and types of facilities by hydrologic region. As warranted or as data are available, this phase will also include categorization, e.g., size of POTWs. Subsections below provide additional information regarding types of sources and anticipated content.*
- *<u>Phase 2</u> – Develop range(s) of estimates of salt loading by type of source based on information developed in coordination with industry representatives. The timing of this work will be aligned closely with three other P&O Study activities: (a) selection of numeric tools/models (ongoing); (b) calibration of selected tools (Task 4.3); and (c) initial numeric analyses (2.3). Phase 2 outcome will result in preparation of an "Addendum" to the Baseline Characterization Report.*

4.1.6.1 Overview of Potential Sources of Salt Loading in the Hydrologic Region

4.1.6.2 Irrigated Lands Regulatory Program (Overview of coalitions and associated salt-related regulatory requirements)

4.1.6.3 Concentrated Animal Feeding Operations (salt-related regulatory requirements by category [milk cow dairies, confined bovine feeding operations, poultry]; location/distribution of facilities; categorization, as appropriate)

4.1.6.4 POTWs (Overview of salt-related regulatory requirements of WDRs [non-15 facilities] and NPDES permitted facilities; location/distribution of facilities; categorization of facilities, as appropriate, e.g., by discharge size)

4.1.6.5 Oil & Gas Industry (salt-related regulatory requirements in general orders; location/distribution of facilities; categorization, as appropriate)

4.1.6.6 Food Processors (salt-related regulatory requirements; location/distribution of facilities; categorization, as appropriate, e.g., by type)

4.1.6.7 Wineries (salt-related regulatory requirements; location/distribution of facilities; categorization, as appropriate or as known)

4.1.6.8 Stormwater Management/MS4s (salt-related regulatory requirements; location/distribution of facilities; categorization by type, as appropriate)

4.1.6.9 Natural Sources (identification/characterization, as knowns)

4.1.6.10 Other Key Salt Sources (as needed by Hydrologic Region)

4.1.7 Evaluation of Data Gaps/Key Sources of Uncertainty (included as needed; will be a qualitative discussion of any key issues, e.g., data gaps or assumptions, that may affect interpretation of findings within each Hydrologic Region)

4.2 San Joaquin River Valley - Repeat 4.1 outline as applicable to this Hydrologic Region

4.3 Tulare Lake Basin - Repeat 4.1 outline as applicable to this Hydrologic Region

5. Key Findings/Considerations for P&O Study (if needed – or may be covered by Executive Summary)

6. References

7. **Appendices** - Content to be determined during document development; In general, where an outline subsection has a large number of figures/tables, we plan to include summary figures/tables in the main body of the document above and place the site- or basin-specific figures/tables in an Appendix. Example would be all the water quality conditions/trends at each surface water monitoring site or groundwater subbasin within a Hydrologic Region

PRIORITIZATION & OPTIMIZATION STUDY

CV-SALTS Executive Committee Meeting

Technical Consultant Team Presentation

Data Management System (DMS)

May 19, 2022

CV SALTS
Central Valley Salinity Alternatives for Long-term Sustainability

PARTIAL P&O STUDY TIMELINE

- Schedule from approved Integrated Scope of Services (ISOS)

Task No.	Task Description	Year (Quarter)												
		'21	2022				2023				2024			
		4	1	2	3	4	1	2	3	4	1	2	3	4
1	**Data Development and Management**													
1.1	Data Compilation													
1.2	DMS Data Management Plan Development			★										
1.3	Establish DMS													
1.4	Implement and Maintain DMS													
2	**Baseline/Future Characterization of Salt Conditions**													
2.1	Baseline Characterization													
2.2	Long-term Salt Planning Options (ID SMRs)					★								
2.3	Characterize SMRs/ID Sustainability Gap													
2.4	Alternatives to Close Sustainability Gap													
3	Appropriate Numeric Salt Mgmt Targets													
3.1	Protection of Sensitive Beneficial Uses													
3.2	ID Candidates/Select Archetype Areas					★								
3.3	Archetype Analysis													
3.4	Numeric Target Development									★		★		
4	**Numeric Salt Management Tool Development**													
4.1	ID Needs and Candidate Tools/Models													
4.2	Select Tools/Models				★									
4.3	Calibrate Tools													
5	**Additional Technical and Regulatory Tasks**													
5.1	Regulatory Review Plan													
5.2	Salt Minimization Practices													
5.3	Groundwater Recharge Analysis													
5.4	Treatment Technologies Evaluation													
5.5	Salt Management Areas													
6	**Administrative Support Tasks**													
6.1	Progress Reports													
6.2	Phase 1 Funding & Governance Plan													

We Are Here

COMMENTS ON DRAFT DATA MANAGEMENT PLAN

Comments Received on Draft Data Management Plan			
Date	**Commentor**	**Agency**	**Edits**
4/21/2022	Barbara Dalgish	LCSE	Word Doc
4/22/2022	Melissa Thome	Downey Brand	Word Doc
4/27/2022	Roberta Larson	Somach Simmons & Dunn	Word Doc
4/28/2022	Grace Windler	USBR	Word Doc
5/2/2022	Yuan Liu	Contra Costa Water District	comments
5/2/2022	Bob Gore	The Gualco Group Inc	comments
5/3/2022	Samsor Safi	Sac Regional	Word Doc
5/3/2022	Jennifer Fuller	CVRWQCB	comments
5/10/2022	Debbie Webster	CVCWA	Word Doc

TYPES OF COMMENTS

- Editorial Comments
- Functionality
  - *Public Access*
  - *Naming Conventions for files/documents*
  - *Edits to Draft Documents*
- Web Hosting
  - *Other options to consider*
  - *Advantages /Disadvantages of GEI Servers*
  - *Security/ Accessibility*
- Add Recommendations Summary Section

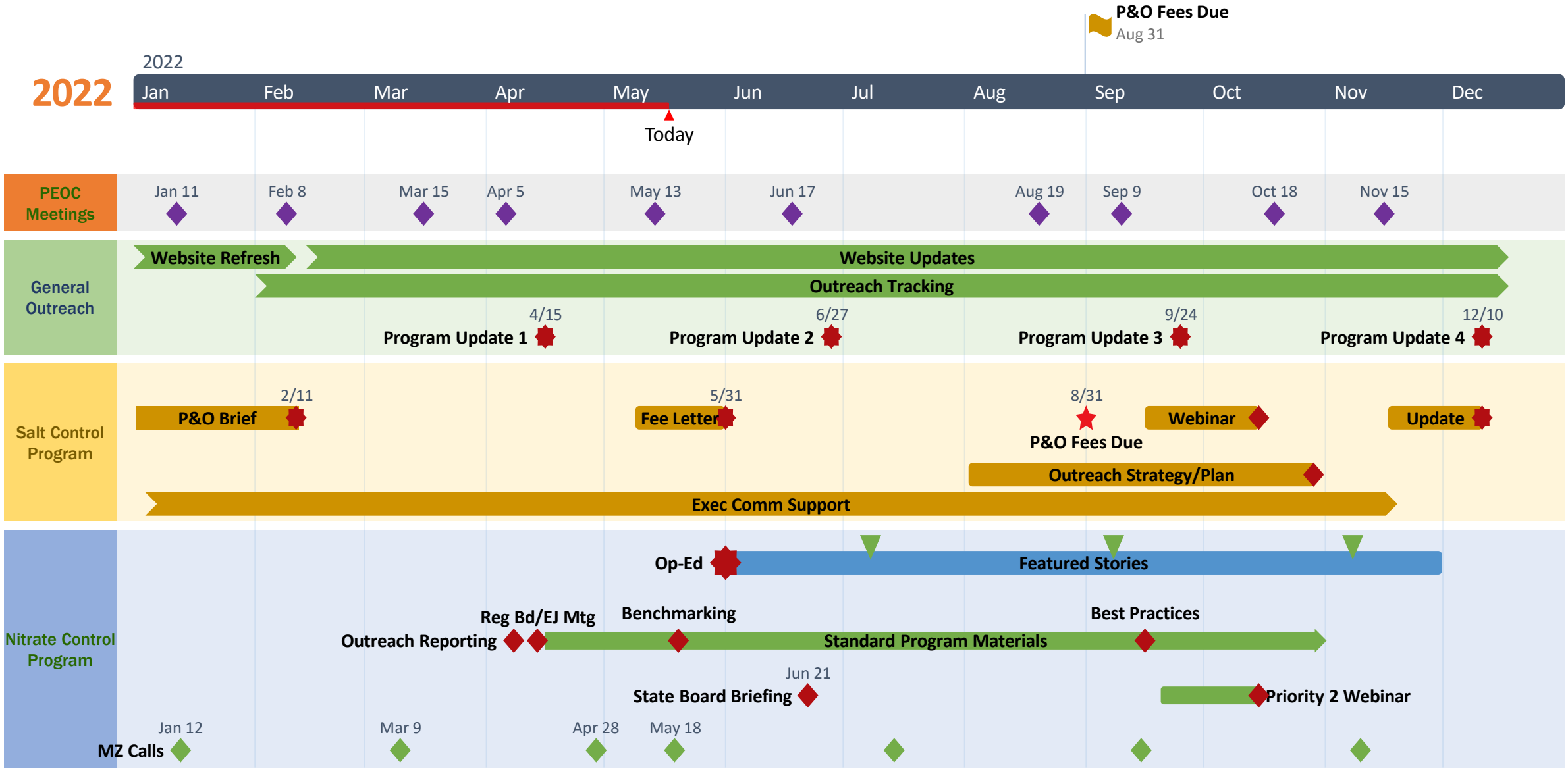
NEXT STEPS – 2022 DMS DEVELOPMENT SCHEDULE

Preliminary Draft Data Management Plan Submit for Review	Revised Draft **Data Management Plan*** for Review	Final **Data Management Plan*** for Executive Committee Approval	Develop Approved Elements of DMS Periodic Progress Reports
Submitted: April 19 **Comments: May 2**	**Target Release: May 25** **Comments: June 6**	**Target release: June 17** **Approval: June 23**	**July - December**

* Finalization and approval of Model & Data Storage Module will coincide with Model/Tool selection process

Questions & Discussion

CV-SALTS 2022 Outreach Activities



Version 2

CV-SALTS Meeting Calendar

2022

1 January

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
1							1
2	2	3	4	5	6	7	8
3	9	10	11	12	13	14	15
4	16	17	18	19	20	21	22
5	23	24	25	26	27	28	29
6	30	31					

2 February

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
6			1	2	3	4	5
7	6	7	8	9	10	11	12
8	13	14	15	16	17	18	19
9	20	21	22	23	24	25	26
10	27	28					

3 March

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
10			1	2	3	4	5
11	6	7	8	9	10	11	12
12	13	14	15	16	17	18	19
13	20	21	22	23	24	25	26
14	27	28	29	30	31		

4 April

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
14						1	2
15	3	4	5	6	7	8	9
16	10	11	12	13	14	15	16
17	17	18	19	20	21	22	23
18	24	25	26	27	28	29	30

5 May

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
19	1	2	3	4	5	6	7
20	8	9	10	11	12	13	14
21	15	16	17	18	19	20	21
22	22	23	24	25	26	27	28
23	29	30	31				

6 June

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
23				1	2	3	4
24	5	6	7	8	9	10	11
25	12	13	14	15	16	17	18
26	19	20	21	22	23	24	25
27	26	27	28	29	30		

7 July

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
27						1	2
28	3	4	5	6	7	8	9
29	10	11	12	13	14	15	16
30	17	18	19	20	21	22	23
31	24	25	26	27	28	29	30
32	31						

8 August

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
32		1	2	3	4	5	6
33	7	8	9	10	11	12	13
34	14	15	16	17	18	19	20
35	21	22	23	24	25	26	27
36	28	29	30	31			

9 September

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
36					1	2	3
37	4	5	6	7	8	9	10
38	11	12	13	14	15	16	17
39	18	19	20	21	22	23	24
40	25	26	27	28	29	30	

10 October

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
40							1
41	2	3	4	5	6	7	8
42	9	10	11	12	13	14	15
43	16	17	18	19	20	21	22
44	23	24	25	26	27	28	29
45	30	31					

11 November

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
45			1	2	3	4	5
46	6	7	8	9	10	11	12
47	13	14	15	16	17	18	19
48	20	21	22	23	24	25	26
49	27	28	29	30			

12 December

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
49					1	2	3
50	4	5	6	7	8	9	10
51	11	12	13	14	15	16	17
52	18	19	20	21	22	23	24
53	25	26	27	28	29	30	31

Notes/Key

Light Red conflicts

Executive Committee Meetings

Policy or Admin Calls

Yellow Salty 5

State Board Worshops/Hearings

PEOC Committees

MZ Support

Committee Meeting Conflicts