CV-SALTS Executive Committee Meeting
Thursday, April 20, 2017 – 9:00 AM to 3:00 PM – Sunset Maple Room
Sacramento Regional Sanitation District Offices
10060 Goethe Rd, Sacramento 95827

Teleconference (641) 715-3580  Code: 279295#

Go-To-Meeting Link: https://global.gotomeeting.com/join/976802469

Posted 04-11-17 – Revised 04-18-17

1) Welcome and Introductions – Chair (15 mins)
   a) Committee Roll Call and Membership Roster
   b) Approve February Meeting Notes

2) Comments from Workshop and additional work needed – Jeanne, Richard and Tess (90 mins.)
   – Review summary of comments
   – Discuss potential scope CEQA and Economics supplements

3) Grant Scope and Constraints – Daniel, Richard and Glenn (60 mins.)
   – Overview of potential grant scope and constraints
     i. Prioritization and Optimization Study Scope
     ii. Management Zone Technical Assistance Scope
     iii. Implementation Outreach Support

   11:30 am to 1:00 pm - Lunch on Your Own or CVSC Board Meeting

4) Continue Morning Discussions, as needed

5) Salinity Permitting Strategy P&O Study and other costs – Daniel, (60 mins.)
   – Discuss potential approaches to Salinity Permit Requirements and funding

6) PEOC Updated – Daniel and Nicole
   – CV-SALTS 11x17 Pamphlet - Review and consider approval

7) Review Next Meetings - Schedule/Location
   – Policy Meeting: May 18th at Regional San - 9:00 – 3:00
   – Policy Meeting: June 14 & 15 at Regional San – 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 Board members may attend.
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**CV-SALTS Executive Committee Meetings - 2016-2017**

- Executive Committee Membership
- Technical Advisory Committee
- Public Education and Outreach
- Economic and Social Cost Committee
- Lower San Joaquin River Committee
- Chair Executive Committee
- Vice Chair Executive Committee
- Technical Advisory Committee
- Technical Advisory Committee
- Public Education and Outreach
- Economic and Social Cost Committee
- Lower San Joaquin River Committee
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**ADDITIONAL PARTICIPANTS:**

- CV-SALTS Committee Rosters
- CV-SALTS Executive Committee Meetings -2016-2017
- Participant Names
- CV-SALTS Executive Committee Meetings -2016-2017
- Package Page 3
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**ADDITIONAL PARTICIPANTS:**
AGENDA

1) Welcome and Introductions
   a) Executive Committee Chair Parry Klassen brought the meeting to order, and roll call was completed.
   b) Mike Nordstrom moved, and David Cory seconded, and by general acclamation the November meeting notes were approved.

2) Final Central Valley Salt and Nutrient Management Plan (SNMP)
   - Richard Meyerhoff gave an overview and highlighted the changes to the SNMP since the November 3rd version.
     - The significant changes to, and additions of, the following sections were discussed:
       i. Prioritization section for the implementation of the Nitrate Permitting Strategy
       ii. Addition of a Section 5, Surveillance and Monitoring Program
       iii. Addition of a Section 6, Environmental Review and Economics Analysis
       iv. Attachment C – Environmental Review and Economics Analysis Documents
       v. Attachment D-1 – SNMP Glossary of Terms
       vi. Addition of Attachment D-3 – Alternative SNMP Proposals
     - Committee members held a lengthy discussion on requirement of timelines for implementation plans. Tess Dunham advised there was still opportunity to provide feedback through comments on the SNMP, or in the discussions of the development of the basin plan amendment.

3) Regional Board March 9th Workshop Preparation
   - Review and Development of Presentation for March 9th
     - Richard Meyerhoff and Daniel Cozad presented the proposed framework, and presenters, for the 3/9 presentation developed by the small group on 2/1/17.
       - Jeanne Chilcott advised that the presentation was still in development and committee members should provide input on any key pieces they feel are missing, or need more development.
       - The small group will be finalizing the presentation through a series of conference calls over the next couple of weeks. Anyone interested in participating should contact Daniel.
       - Richard will be working with Laurel Firestone and Elaine Archibald to develop the EJ and CUWA slides for the presentation.

4) Continuation of Morning Discussion
   - Status of Public Education and Outreach Materials
     - Charles Gardiner introduced the PEOC proposed Communications Plan and presented the basic outreach documents that have been developed by the PEOC.
       - Documents discussed by the committee: Fact Sheet, SNMP Overview, Now and Future, Draft Email, Press Release. Some of the feedback provided by the committee:
         - At some point the materials will have to be different for salts and nitrate.
         - Four pages is too long for a Fact Sheet. Consider a second, one-page version.
         - Press Release and Email are also too long.
         - Incorporate the phrase “managed restoration” into the SNMP Overview.
- Remove Pamela and Jeanne’s names from the contact list.
- Use a joint header with CV-SALTS and State Board if possible.
  - Daniel Cozad requested additional comments on the Fact Sheet be forwarded to him in email no later than tomorrow (Feb. 3rd). Comments on all the other documents should be forwarded within one week.

5) Public Comment Log and Responses
   - This item was not discussed.

6) Review Next Meetings - Schedule/Location
   - Regional Board Workshop - CVRWQCB
   - Next Admin Meetings are 03/16/17 and 04/13/17.
   - Policy Meeting: April 20th @ Sac Regional
CAA FUNDED GRANT EFFORTS FOR SNMP IMPLEMENTATION

EXECUTIVE COMMITTEE DISCUSSION
APRIL 20, 2017

FUNDING AND CONSTRAINTS

- About $500,000 is remaining and available
- Grant is more flexible than contracting
- Local Public Agency or Non-Profit Charity that serves a Disadvantaged Community
- Economics Analysis is not appropriate as it could be seen as benefiting the state
- CEQA Analysis is not appropriate as it fulfills a state requirement
- Implementation, Studies and Outreach are appropriate
FUNDING APPROACH

• About $500,000 is remaining and available
• Support Implementation Tasks
  • Initial phase of Prioritization and Optimization Study - $220K
  • Implementation Outreach - $70K
  • Management Zone Technical Assistance support - $180K
  • Administration - $30K

PRIORITIZATION AND OPTIMIZATION STUDY

• Consider $220,000 for scope of work
• Implementation Tasks
  • Develop Plan for P&O study
  • Implement Phase 1 of the study

  • Coordinated funding with permit fees
  • Schedule work to match grant and fee income
IMPLEMENTATION OUTREACH

• Consider about $70,000 for scope of work
• Support Implementation Tasks
  • Work with PEOC
  • Develop materials and support outreach
  • Video or other public explanations
  • Support Executive Committee with outreach gaps

MANAGEMENT ZONE TECHNICAL ASSISTANCE

• Consider $180,000
• Support Implementation Tasks
  • EC to select 1-3 areas based on proposals
  • Support 1-3 regions with initial efforts to develop their management zone (MZ) as proposed
    • Technical support elements
    • Governance and Organization
    • Early Action Plans
    • Adequacy and other demonstrations
    • EC and Regional Board comment implementation
  • Develop templates and other standards that can be used by later MZs
  • Funding coordinated with Management Zone match or staff work
Memorandum

To: Daniel Cozad, Executive Director, Central Valley Salinity Coalition

From: Richard Meyerhoff, Ph.D., CDM Smith
     Joe LeClaire, Ph.D., CDM Smith

Date: April 12, 2017

Subject: Proposed Start-Up Scope of Work and Deliverables to Initiate the Prioritization and Optimization Study

Background
The Salt and Nitrate Management Plan (SNMP) Salinity Management Strategy recommends a long-term Salinity Management Strategy that:

- Controls the rate of degradation ("managed degradation")
- Achieves long-term sustainability (salt balance) where feasible, practicable, and reasonable
- Protects beneficial uses by meeting applicable water quality objectives and applying appropriate antidegradation concerns.

Because of the long-term nature of salinity management, this Salinity Management Strategy is phased over time. The first phase consists of developing and implementing a Prioritization and Optimization Study (P&O Study) for salinity management for the Central Valley Region. The overall goal of the P&O Study is to further refine the findings from the Strategic Salt Accumulation Land & Transportation Study (SSALTS) Study. In general, the P&O Study is expected to include, but not necessarily be limited to, the following activities:

- Evaluate the impact of all state policies that impact management of salinity in the Central Valley region (e.g., Bay-Delta Plan) to both surface and ground waters;
- Identify physical projects and proposed locations for long-term management of salinity (e.g., regulated brine line, salt-sinks, regional / sub-regional desalters, recharge areas, deep well injection, etc.);
- Identify non-physical projects that help with managing salinity;
- Develop governance structures for implementation of the physical projects;
Identify funding sources necessary for implementation of large-scale capital physical projects (state and federal capital expenditures);

Identify the various environmental permits (and time line for obtaining the permits) needed to implement the preferred physical projects;

Identify and propose any necessary Basin Plan changes that may be necessary to implement the next Phase or Phases of the Salinity Management Strategy (e.g., offset policy);

Develop the conceptual design for applicable projects; and

Other related activities.

**Table 1** provides a general description of the tasks anticipated to be completed under the P&O Study; **Figure 1** illustrates a general timeline for completion of these various tasks over an estimated 10-year period.\(^1\) The purpose of this memorandum is to prepare a general scope of work for the first five-year period leading to completion of the Interim Report (Task 13) and a more detailed scope for Years 1 and 2 to provide the sufficient information to support efforts to initiate or start-up the P&O Study. This start-up effort is anticipated to be funded, at least in part, by a State Water Board Cleanup and Abatement Account (CAA) Grant.

**P&O Study – First Five Years**

Table 1 / Figure 1 anticipate the completion of the following tasks in the first five-year period of the P&O Study:

- Task 3 – Regulatory and Policy Evaluations
- Task 5 – Governance Plan – Formation and Structure
- Task 7 – Funding Plan and Financing Strategies
- Task 9 – Prioritization of Groundwater Basins and Subbasins
- Task 10 – Prioritization within Groundwater Basins and Subbasins and Groundwater Modeling
- Task 11 – Salt Management Projects and Identification of Salt Storage Areas
- Task 12 – Interim Truck or Rail Transport of Brine to a Regulated Wastewater Treatment Plant.

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\(^1\) Table 1 and Figure 1 were originally published as Table 4-4 and Figure 4-5 in the SSALTS Phase 3 Report (CDM Smith, December 2016).
Task 13 – Interim Report

In addition, during implementation of the above tasks, two stakeholder coordination tasks are anticipated to be ongoing and will continue until completion of the P&O Study:

- Stakeholder Coordination Meetings
- Sustainable Groundwater Management Act (SGMA) Groundwater Sustainability Agency (GSA) Coordination Meetings

P&O Study - Start-Up Scope of Work

It is recommended that available grant funding for the start-up of the P&O Study focus on the following five P&O tasks (Task numbers are consistent with Table 1):

**Task 3. Regulatory and Policy Evaluations.** The purpose of this task is to review strategic planning / management activities to ensure all work completed under Phase I of the Salinity Management Strategy is consistent with the needs and purpose of the P&O Study. In addition, this task includes an evaluation of existing water management and state policies and requirements that may facilitate salinity management or that may make implementation of a long-term salinity management strategy more difficult or challenging. The scope of work of this task focuses on this latter activity, including:

- Review of other state plans and policies that have or may have an impact on salinity management, including the recycled water policy, the Bay-Delta Plan, the Bay-Delta Conservation Plan, the Ocean Plan, etc.
- Review of SNMP policies as appropriate to consider salinity management. For example, the SNMP Groundwater Management Zone Policy currently only applies to nitrate management. In addition, the AGR Policy was deferred given the recommendations of the Salinity Management Strategy. This policy may be further developed under this task.
- Review of other regulations, policies, etc. as directed through the CV-SALTS Stakeholder process and that can be completed under the proposed project budget.

*Estimated Budget and Level of Effort (LOE): $42,000; 180 hours*

*Deliverable: Technical memorandum that summarizes the findings from the review of documents as described above and provides recommendations where appropriate to address identified challenges.*

**Task 9. Prioritization of Groundwater Basins and Subbasins.** The consultant will work within the CV-SALTS stakeholder process to develop a prioritization approach for salinity in valley floor groundwater basins / subbasins. This task involves reviewing existing Central Valley prioritization
work for salts\(^2\) and revising as appropriate based on any available new information and stakeholder discussions. Prioritization factors could include, but not be limited to\(^3\): current ambient TDS, TDS loading rate, existence of areas of high salinity within each groundwater basin / subbasin, use of water for potable supply and / or agriculture, current and projected land use, crop sensitivity to salinity, and the potential for effective salinity mitigation.

*Estimated Budget and LOE: $25,000; 110 hours*

*Deliverable: Development of prioritization factors and a weighting scheme; preparation of a map of prioritized groundwater basins / subbasins for the Central Valley floor based on salinity concerns.*

**Task 10. Prioritization within Groundwater Basins / Subbasins and Groundwater Modeling.**

The purpose of this P&O Study task is to develop criteria for use in developing a master plan for prioritization and phasing of locations for salt extraction facilities and treatment facilities. This master plan will be organized by hydrologic region to take into account varying salt management priorities and priorities identified in Task 9 (see above). Ultimately, completion of this task includes reviewing hydrogeologic information and water quality data for each basin and subbasin, accounting for current and projected land use and cropping patterns, developing a work plan to refine the CV-SALTS groundwater model to estimate optimal areas to locate extraction facilities and to build regional / subregional treatment facilities (salinity and / or nitrate) taking into account current groundwater pumping for irrigation and potable supply and planned pumping based on GSPs being developed under SGMA. This effort will require considerable technical resources and several years to complete. To initiate this work, the principal tasks under this scope of work are developing the preliminary criteria for use in developing the master plan and preparing a detailed work plan to complete all work anticipated by this task.

*Estimated Budget and LOE: $65,000; 280 hours*

*Deliverable: Preliminary criteria for development of a master plan along with a detailed work plan to complete the work anticipated under this task.*

**Task 11. Salt Management Projects and Identification of Salt Storage Areas.** The purpose of this task is to delineate interim areas where salt can be stored and managed in a sustainable manner and identify projects for implementation in these delineated areas. Where appropriate, these localized salinity control projects can provide a bridge to the point in time when the planned regulated Central Valley Brineline is operational and available for use. Under this scope of work, a preliminary analysis will be completed that identifies up to fifteen potential interim salt storage areas for further analysis. In addition, a detailed work plan will be developed to (a) complete the requisite hydrogeological investigations and land use studies required to support the ultimate

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\(^2\) An initial prioritization of groundwater basins / subbasins was completed for TDS as part of the preparation of the Nitrate Implementation Measures Study (NIMS) (CDM Smith 2016).

\(^3\) To the extent these data are available.
establishment of these strategic areas for interim salt storage and management; and (b) prepare conceptual designs of salt management projects to be implemented in these areas.

Estimated Budget and LOE: $50,000; 210 hours

 Deliverable: Preparation of up to fifteen fact sheets for each of the potential interim salt storage areas and a detailed work plan to complete the work anticipated under this task.

Task 12. Interim Truck or Rail Transport of Brine to a Regulated Wastewater Treatment. The purpose of this task was to have a series of meetings with East Bay Municipal Utilities District (EBMUD) (or other facilities as appropriate) to develop a detailed estimate and comparison of trucking and rail costs associated with implementation of an EBMUD disposal option. Under this scope of work, up to three coordination meetings with EBMUD will occur and preliminary work on the feasibility of the use of truck / rail transport to support the interim management of salt will be completed.

Estimated Budget and LOE: $38,000; 160 hours

 Deliverable: Technical memorandum that summarizes the preliminary feasibility of the use of rail and / or truck transport to existing disposal facilities for interim salt management, including a preliminary analysis of the benefits and costs.
Table 1. Phase I – Prioritization and Optimization Study Proposed Tasks (from Table 4-4 in SSALTS Phase 3 Report)

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<th>Task</th>
<th>Description</th>
<th>Range of Costs</th>
<th>Level of Effort (days)</th>
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<tr>
<td>Stakeholder Coordination</td>
<td>Stakeholder Meetings. Input from CV-SALTS stakeholders through facilitated meetings to support implementation of the Prioritization &amp; Optimization Study. These same stakeholder coordination meetings would serve as the mechanism for development of additional guidance / policies to further support SNMP implementation (i.e., items identified for resolution after submittal of the SNMP) Costs based on consultant costs for meeting support; stakeholder participation would be considered in-kind contributions. Costs range from monthly to quarterly meetings for 10 years. Costs for development of additional policies / guidance, which may or may not be related to salt management are not included in this Phase I table.</td>
<td>$616K – $1.8M</td>
<td>360 – 1080</td>
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<td>Sustainable Groundwater Management Act (SGMA) Groundwater Sustainability Agencies (GSA) Meetings. Coordination with GSAs: assume one meeting per quarter for all of the GSAs in each hydrologic region. For example, representatives from GSAs in the San Joaquin River Hydrologic Region will convene with CV-SALTS stakeholders once per quarter. The same assumption is made for the Tulare Lake Hydrologic Region. Fewer meetings are anticipated for the Sacramento River Hydrologic Region. It is critical that the Groundwater Sustainability Plans (GSPs) developed for each groundwater basin and the Salinity and Nitrate Management strategies be coordinated, both technically and institutionally.</td>
<td>$424K – $954K</td>
<td>240 – 540</td>
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<td>Strategic Planning</td>
<td>Regulatory and Policy Evaluations. This task serves a number of purposes: (a) Phase I strategic planning / management activities to ensure all work completed under Phase I is consistent with the needs and purpose of the Prioritization &amp; Optimization Study (P&amp;O Study); (b) evaluation of existing water management and state policies and requirements that could make implementation of a long-term salinity management strategy more difficult or challenging.</td>
<td>$317K – $634K</td>
<td>180 – 360</td>
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<td>Phase II Planning. Based on the findings of other Phase I activities, (a) review the Central Valley Basin Plans to identify amendments required to continue implementation of the Salinity Management Strategy in Phase II; (b) determine the need to update the interim permitting strategy; (c) complete preliminary assessment of environmental permitting requirements that will need to be completed.</td>
<td>$211K – $422K</td>
<td>120 – 240</td>
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<td>Governance</td>
<td>Governance Plan - Formation and Structure. Develop the Governance Plan which will define the structure and roles and responsibilities of the key stakeholders. The Governance Plan will include the project objectives and a detailed plan describing how the salinity management strategy will be implemented over time. The structure of governance will be defined, including development of appropriate agreements, e.g., memorandum of</td>
<td>$211K – $528K</td>
<td>120 – 300</td>
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### Table 1. Phase I – Prioritization and Optimization Study Proposed Tasks (from Table 4-4 in SSALTS Phase 3 Report)

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<td>6</td>
<td><strong>Implementation and Refinement of the Governance Plan.</strong> The agreed upon Governance Plan will be legally adopted and then implemented. As needed, additional stakeholders will join the governance structure during implementation. The administration of regional components of long-term salinity management projects conceptually developed during Phase I (e.g., the Central Valley regulated brine line) will be refined during implementation of the Governance Plan. Memoranda of understanding with agencies that are not part of the original Governance Plan (e.g., EBMUD for long-term agreements on brine disposal) would be written, negotiated, and executed. Refinement of the Governance Plan will continue as needed during Phases II and III of the Salinity Management Strategy.</td>
<td>$211 – $528K</td>
<td>120 – 300</td>
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<td>7</td>
<td><strong>Funding Plan and Financing Strategy.</strong> Development of a Funding Plan will include a preparation of a financial strategy to determine potential sources of funding: including federal, state, local agencies, water purveyors, agricultural communities, grants, bonds, and low-interest loans and other strategies to support the development and implementation of salinity management facilities. The Funding Plan will include strategies for the equitable management and funding of long-term salinity management projects (e.g., the Central Valley regulated brine line). Resources will be allocated where salt management needs are the greatest; different strategies may be developed for different Hydrologic Regions of the Central Valley.</td>
<td>$317K – $528K</td>
<td>180 – 300</td>
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<td>8</td>
<td><strong>Implementation of the Funding and Financing Strategy.</strong> This task includes the execution of the Funding Plan and the acquisition and administration of the funding dollars. In this task, it is anticipated that an independent, third-party audit firm will conduct a program-specific audit to ensure that the funds are administered in accordance with state and federal laws, regulations, using generally accepted auditing principles and government auditing standards, and other audit guides relative to the source of funding.</td>
<td>$317K – $528K</td>
<td>180 – 300</td>
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<td>9</td>
<td><strong>Prioritization and Salinity Management Analyses.</strong> This task involves reviewing and potentially revising groundwater basin and subbasins priorities that were developed for the SNMP, based on new information and on the stakeholder meetings.</td>
<td>$70K – $141K</td>
<td>40 – 80</td>
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Table 1. Phase I – Prioritization and Optimization Study Proposed Tasks (from Table 4-4 in SSALTS Phase 3 Report)

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<td>10</td>
<td>Prioritization within Groundwater Basins and Subbasins and Groundwater Modeling. The Prioritization and Optimization Study will develop criteria for use in developing a master plan for prioritization and phasing of locations for extraction facilities and treatment facilities. This master plan will be organized by hydrologic region to take into account varying salt management priorities. This task will include reviewing hydrogeologic information and water quality data for each basin and subbasin. Current and projected land use and cropping patterns will be accounted for. The CV-SALTS groundwater model will be refined to estimate optimal areas to locate extraction facilities and to build regional / subregional treatment facilities (salinity and / or nitrate). Groundwater modeling must include current groundwater pumping for irrigation and potable supply, as well as planned pumping based on GSPs being developed under SGMA. Cost sharing with GSAs should be considered. Costs borne principally by stakeholders within each groundwater basin, subbasin or management zone.</td>
<td>$1.5M – $2.3M</td>
<td>880 – 1320</td>
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<td>11</td>
<td>Salt Management Projects and Identification of Salt Storage Areas. Delineate areas where salt can be stored and managed in a sustainable manner and identify projects for implementation in these delineated areas. Where appropriate, these localized salinity control projects can provide a bridge to the point in time when the Central Valley Brine Line (CVBL) is operational and available for use. This task involves hydrogeological investigation, land use and future land use studies, and the potential de-designation of the groundwater basin / subbasin from MUN and AGR beneficial uses. Salt management / storage areas will be strategically located in each Hydrologic Region. Where feasible, segments of the CVBL could be constructed to transport brine to the interim or permanent salt management / storage areas.</td>
<td>$211K – $422K</td>
<td>120 – 240</td>
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<td>12</td>
<td>Interim Truck or Rail Transport of Brine to a Regulated Wastewater Treatment Plant (WWTP), e.g., East Bay Municipal Utilities District (EBMUD). This task will involve a series of meetings with EBMUD or other facilities, a detailed estimate of trucking and rail costs and specific to an EBMUD disposal option, a study to re-operationalize the existing rail spur to EBMUD.</td>
<td>$141K – $352K</td>
<td>80 – 200</td>
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<td>13</td>
<td>Interim Phase I Report. The findings from Tasks 9 through 12 will be compiled into a report that identifies recommended salt management projects for implementation by hydrologic region. Projects may range from those that would be implemented on a local or subregional basis separate from larger, regional projects (e.g., CVBL) to the regional proposed CVBL. Ultimately the purpose of this report is to provide recommendations for the further development of projects under Tasks 14-15 that will result in sustainable salt management by hydrologic region.</td>
<td>$70K – $141K</td>
<td>40 – 80</td>
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Conceptual Design of Salt Management Projects

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<td>14</td>
<td>Concept Designs for Central Valley Subregional Salt Management. – Based on the approved recommendations from Task 13, CV-SALTS will develop a concept design for each planned subregional project. Development of concept designs for these projects would include elements of a concept study, feasibility study, design requirements, and a preliminary design. The budget assumes that up to five projects would be developed further under this task.</td>
<td>$352K – $528K</td>
<td>200 – 300</td>
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Table 1. Phase I – Prioritization and Optimization Study Proposed Tasks (from Table 4-4 in SSALTS Phase 3 Report)

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<tr>
<td>15</td>
<td><strong>Concept Design for the Central Valley Regulated Brine Line.</strong> Development of the Concept Design for a regulated brine line would include elements of a concept study, a feasibility study, design requirements, and a preliminary design. Included in this task are: (a) a fatal flaw analysis of the concept pipeline alignment that was described in SSALTS Phase 2 report (CDM Smith, 2014); and (b) consideration of alternate CVBL alignments. For example, there is a natural gas easement from Naval Air Station (NAS) Lemoore to Estero Bay in addition to other potential alignments identified in the development of the project. Additional environmental permitting would be required to implement this option (Note: Costs for environmental permitting of salt management projects is a Phase II element of the Salinity Management Strategy.</td>
<td>$704K – $1.3M</td>
<td>400 - 720</td>
</tr>
<tr>
<td>16</td>
<td><strong>Special Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td><strong>Groundwater Quality Characterization of Groundwater Basins and Subbasins for Trace Constituents.</strong> CV-SALTS will conduct a study to characterize trace elements, contaminants of emerging concern (CECs), and low-concentration agricultural chemicals. This information will be used in coordination with the WWTPs and for permitting. This work will be coordinated (perhaps incorporated into the Surveillance and Monitoring Program [SAMP]) to minimize duplication of effort.</td>
<td>$522K - $945K</td>
<td>240 - 480</td>
</tr>
<tr>
<td>17</td>
<td><strong>Emerging Technologies.</strong> A review of maturing and emerging technologies for salinity management and nitrate treatment will be completed in the tenth year of the 10-year P&amp;O Study. The review of technologies will, however, be conducted over the course of the P&amp;O Study.</td>
<td>$106K – $211K</td>
<td>60 – 120</td>
</tr>
<tr>
<td>18</td>
<td><strong>Recycled Water Imports.</strong> This task will evaluate the efficacy and economics of importation of recycled water into the Valley through a pipeline in the same easement as the CVBL and the recycled water will be used directly or recharged through a series of Indirect Potable Reuse (IPR) projects.</td>
<td>$141K – $211K</td>
<td>80 – 120</td>
</tr>
<tr>
<td>19</td>
<td><strong>Stormwater Recharge Master Plan.</strong> Develop a comprehensive assessment of stormwater recharge – current, planned and additionally needed – in order to enhance recharge of high quality stormwater and snowmelt to the extent possible. Plan will evaluate existing and planned efforts and account for water rights and environmental impacts.</td>
<td>$282K – $563K</td>
<td>160 – 320</td>
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<tr>
<td></td>
<td>Totals</td>
<td><strong>$6.8M – $13.1M</strong></td>
<td><strong>3,800 – 7,400</strong></td>
</tr>
</tbody>
</table>
### Figure 1. Proposed Phase I Prioritization and Optimization Study Schedule (from SNMP Attachment A-3, Salinity Management Strategy)

<table>
<thead>
<tr>
<th>Category</th>
<th>Year of Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stakeholder Coordination</strong></td>
<td></td>
</tr>
<tr>
<td>T1. Stakeholder Coordination Meetings (as needed frequency)</td>
<td></td>
</tr>
<tr>
<td>T2. SGMA GSA Coordination Meetings (as needed frequency)</td>
<td></td>
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<tr>
<td><strong>Strategic Planning</strong></td>
<td></td>
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<tr>
<td>T3. Regulatory and Policy Evaluations</td>
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<tr>
<td>T4. Phase II Planning</td>
<td></td>
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<tr>
<td><strong>Governance</strong></td>
<td></td>
</tr>
<tr>
<td>T5. Governance Plan – Formation and Structure</td>
<td></td>
</tr>
<tr>
<td>T6. Implementation and Refinement of Governance Plan</td>
<td></td>
</tr>
<tr>
<td><strong>Funding</strong></td>
<td></td>
</tr>
<tr>
<td>T7. Funding Plan and Financing Strategy</td>
<td></td>
</tr>
<tr>
<td>T8. Implementation of the Funding Plan and Financing Strategy</td>
<td></td>
</tr>
<tr>
<td><strong>Prioritization &amp; Salinity Management Analyses</strong></td>
<td></td>
</tr>
<tr>
<td>T9-12. Prioritization / Salt Management Analyses to Support Identification of Salt Management Projects</td>
<td></td>
</tr>
<tr>
<td>T13. Interim Report</td>
<td></td>
</tr>
<tr>
<td><strong>Conceptual Design of Salt Management Project</strong></td>
<td></td>
</tr>
<tr>
<td>T14-15. Concept Design for Subregional Salt Management Projects and Regional CVBL Project</td>
<td></td>
</tr>
<tr>
<td><strong>Special Studies</strong></td>
<td></td>
</tr>
<tr>
<td>T16. Groundwater Quality Trace Constituent Stud</td>
<td></td>
</tr>
<tr>
<td>T17. Emerging Tech Update No. 1</td>
<td></td>
</tr>
<tr>
<td>T17. Emerging Tech Update No. 2</td>
<td></td>
</tr>
<tr>
<td>T17. Emerging Tech Update No. 3</td>
<td></td>
</tr>
<tr>
<td>T18. Recycled Water Imports Study</td>
<td></td>
</tr>
<tr>
<td>T19. Stormwater Recharge Master Plan Study</td>
<td></td>
</tr>
</tbody>
</table>
1. CAA FUNDING FOR MANAGEMENT ZONE TECHNICAL ASSISTANCE

The purpose of using the CAA funds available for SNMP Implementation is to provide assistance to early adopters of the Management Zone Permitting for Nitrates. This would achieve several purposes:

- Encourage early participation and reduce financial/technical burden to early adopters
- Assist the first few Management Zones in development of technical and management documents that can act as templates for future management zones
- Allow CV-SALTS Executive Committee to be more involved in the development of the early management zones to be sure they can implement in the manner intended
- Reduce the likely failure of early Management Zone proposals to the Regional Board
- Increase Management Zone outreach and use of templates

A. Scope of Work

i. Program Management

1. Program Director to support program management and individual group proposals
2. Identify 1-3 early areas who wish to develop management zones for nitrate permitting compliance and help them develop a proposal for needs
3. Determine the technical, outreach, governance and organizational assistance needed based on the proposal and group needs
4. Assist Executive Committee in selection of areas based on proposal and recommendation from CVSC
5. Compile initial and final templates, materials and a brief report of results for Executive Committee acceptance

ii. Technical Support

1. Work directly with the Management Zone groups to assist with elements they request in their proposal for that Management zone. Elements may include technical studies, outreach, governance and organizational issues,
early action plans, reporting or other needs to the limit of the budget of CAA and local funds

2. Complete tasks for Management Zone Group to present to the Technical Committee or Executive Committee for review and comment
3. Assist Management Zone Group in finalizing their proposed Management Zone to the Regional Board for review and approval

B. Budget
i. Recommend $180,000 of the $500,000 be allocated to Management Zone Technical Assistance
ii. Program Management estimated at $30,000
iii. Budget based on approximately $50,000 for three groups or alternatively if less is requested other groups could be added
iv. Consultant team to provide support based on the approved agreement to complete tasks
v. Budgets will be maximums and may be supplemented by management zone group funds under agreement

C. Schedule
i. Schedule in grant should be flexible up to 3 years for completion of all task
ii. Each Management Zone Group support effort may take up to 18 month developing materials and an additional 6 months in review and approval
iii. Final report, templates and materials should be submitted within 3 years
1. CAA FUNDING FOR CV-SALTS IMPLEMENTATION OUTREACH

The purpose of using the CAA funds available for SNMP Implementation Outreach is to engage permittees in the implementation of the CV-SALTS SNMP. This effort will reduce the barriers to implementation and assist the regulated community with understanding and economically implementing the SNMP. Other sections of this grant are dedicated to Management Zone Permitting for Nitrates, while this section would target all types of permittees and may also assist with the Salinity Permitting Strategy implementation. This outreach is intended to achieve several purposes:

- Expand knowledge of salt and nitrate issues in the Central Valley and how they are addressed but he SNMP
- Encourage early participation and misinformation among the regulated community
- Assist the regulated community in identifying the most economic and effective method to comply with the new requirements of the SNMP.
- Assist Management Zones with materials and support tools for working with the Disadvantaged Communities in their zones
- Assist the regulated community in understanding the salt permitting strategy and how to participate in the Prioritization and Optimization Study
- Outreach to potential non-permittee Management Zone participants to improve their understanding of the benefits of participation

A. Scope of Work

i. Outreach Consultant to coordinate and support the Public Education and Outreach Committee (PEOC) and to provide project management and reporting

ii. With the PEOC identify materials and communication outreach method to support the goals above.

iii. Develop in Draft with the PEOC and Finalize through the Executive Committee materials that support the program

   1. Pamphlets or fact sheets or similar materials for outreach
   2. Email, web, social media and other communication pieces
   3. Public explanation, video, or other support to assist permittees and their public in understanding the SNMP and implementation requirements
   4. Press focused outreach materials and copy for newsletters and local press
iv. Support area, community or industry outreach as requested
v. Report effectiveness and accomplishments
vi. Compile final materials and a brief report of results for Executive Committee acceptance.

B. Budget
i. Recommend $70,000 of the $500,000 be allocated to CV-SALTS Implementation Outreach
ii. Project management estimated at $10,000
iii. Budget based on approximately $25,000 for the video and $35,000 for other materials and support efforts
iv. Consultant team to provide support based on the approved agreement to complete tasks
v. Budgets will be maximums and may be supplemented by management zone group funds under agreement

C. Schedule
i. Schedule in grant should be 2 years with most efforts occurring in the first year, but may be initiated somewhat after the initial grant begins
ii. If not all funds are used in the initial implementation the contract may be suspended until needed for later phases of work
iii. Final report and all materials should be submitted within 3 years
FEE APPROACHES FOR SALINITY PERMITTING

IMPLEMENTING THE SALINITY PERMITTING STRATEGY FOR THE CV-SALTS SALT AND NITRATE MANAGEMENT PLAN

- Salinity Permitting Strategy allows funding for the Prioritization and Optimization Study
- Budget and Scope of Work separate task
- Initial budgeting from SSALTS uses for initial cut
- CAA funding could pay for first year so progress can be demonstrated
- Need an approach to apportion and collect a fee for non-CVSC members
- Initial year may not include all permits
CONCEPTUAL BUDGET AND FEE APPROACH

- All Permits/WDRs regulate Salinity
- Central Valley NPDES permit – 296
- Central Valley WDRs - 1348
- Budget estimate Average Year $1,696,250
  Initial Year $525,000
- Cost per permit/WDR – First year $319,
  average year $1030
  • All participate – Likely some will not
  • Apportioned equally or only WDRs
  • Weighted equally or other
- Fees charged as Regional Board does currently

<table>
<thead>
<tr>
<th>Year</th>
<th>Low</th>
<th>High</th>
<th>Collection &amp; Overhead etc.</th>
<th>Total Est. Average</th>
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</thead>
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<td>$250,000</td>
<td>$500,000</td>
<td>$100,000</td>
<td>$825,000</td>
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<td>Outreach and Planning</td>
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<td>$1,000,000</td>
<td>$280,000</td>
<td>$1,080,000</td>
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<td>Local Implementation plans</td>
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<td>$1,250,000</td>
<td>$406,250</td>
<td>$1,531,250</td>
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<tr>
<td>Outfall and Permitting</td>
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<td>$1,250,000</td>
<td>$406,250</td>
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<tr>
<td>Final Concept Plan</td>
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<td>$1,500,000</td>
<td>$400,000</td>
<td>$1,660,000</td>
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<td>$1,500,000</td>
<td>$350,000</td>
<td>$1,475,000</td>
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<tr>
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<td>$1,500,000</td>
<td>$360,000</td>
<td>$1,485,000</td>
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<tr>
<td>Local integration</td>
<td>$1,000,000</td>
<td>$1,500,000</td>
<td>$360,000</td>
<td>$1,660,000</td>
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<td>$2,500,000</td>
<td>$370,000</td>
<td>$2,475,000</td>
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<td>$2,500,000</td>
<td>$380,000</td>
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<tr>
<td>Funding and Permitting</td>
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<td>$1,500,000</td>
<td>$360,000</td>
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<td>Local integration</td>
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<td>$1,500,000</td>
<td>$360,000</td>
<td>$1,660,000</td>
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<td>Construction Documents</td>
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<td>$2,500,000</td>
<td>$370,000</td>
<td>$2,475,000</td>
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<tr>
<td>Implementation phasing</td>
<td>$2,000,000</td>
<td>$2,500,000</td>
<td>$380,000</td>
<td>$2,480,000</td>
</tr>
</tbody>
</table>

Average Cost per Year $1,596,250

FEE OPTIONS

- Fee assessed on all permits in the manner and basis of existing regulatory programs
- Weighted cost per unit
- Assumed participation rate
- Other approaches

<table>
<thead>
<tr>
<th>Regulatory Program</th>
<th>Unit</th>
<th>No of Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILRP</td>
<td>Acres</td>
<td>7,000,000</td>
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<tr>
<td>POTW</td>
<td>population</td>
<td>6,500,000</td>
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<tr>
<td>Dairy</td>
<td>Animals</td>
<td>1,232,000</td>
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<tr>
<td>Other CAFO</td>
<td>Animals</td>
<td>775,000</td>
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<tr>
<td>MS4</td>
<td>population</td>
<td>6,500,000</td>
</tr>
<tr>
<td>Other WDR</td>
<td>each</td>
<td>225</td>
</tr>
<tr>
<td>Other flat fee</td>
<td>discharger</td>
<td>125</td>
</tr>
</tbody>
</table>
GOALS AND FACTORS TO CONSIDER
- PLANNING COSTS ONLY -

- Reasonable Equity and Fairness Goal
- Related to Current Regional Board Permitting
- Related Benefit, value and avoided cost
- Supportive of overall Salinity Management value
- Implementable and understandable

<table>
<thead>
<tr>
<th>Regulatory Program</th>
<th>Unit</th>
<th>No of Units</th>
<th>Per Unit</th>
<th>Total Rev</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILRP Per Acre Per Year</td>
<td>Acres</td>
<td>8,250,000</td>
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<tr>
<td>POTW Per population</td>
<td>population</td>
<td>4,875,000</td>
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<tr>
<td>Dairy per Animal</td>
<td>Animals</td>
<td>924,000</td>
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<tr>
<td>Other CAFO</td>
<td>Animals</td>
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<tr>
<td>MS4 by Population</td>
<td>population</td>
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<tr>
<td>Other WDR</td>
<td>each</td>
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<tr>
<td>Other flat fee</td>
<td>dischargers</td>
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<tr>
<td>Total Revenue</td>
<td></td>
<td></td>
<td>100%</td>
<td>$1,596,250</td>
</tr>
</tbody>
</table>
Planning and Communications are Joint Stakeholder Efforts

CV-SALTS from the beginning has partnered with the Waterboards to plan and implement outreach to its members and communities

- State and Federal Agencies
- Local Agencies
- Discharger Community
  - Agriculture
  - Industry
  - Wastewater treatment
- Environmental Justice and Disadvantaged Community Representatives
## Communication Timeline and Efforts

<table>
<thead>
<tr>
<th>Category</th>
<th>CV-SALTS Planning and Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initiation</td>
<td>Awareness and Study Support</td>
</tr>
<tr>
<td></td>
<td>Study Scoping and Funding</td>
</tr>
<tr>
<td>Engagement</td>
<td>Stakeholder Participation and Support</td>
</tr>
<tr>
<td>Implementation Preparation</td>
<td>Basin Planning and Implementation</td>
</tr>
<tr>
<td>Implementation Outreach</td>
<td>Implementation Support</td>
</tr>
<tr>
<td>Management Zone and Local Outreach</td>
<td>Information and Outreach to members</td>
</tr>
<tr>
<td>Prioritization &amp; Optimization Engagement</td>
<td>Outreach to Communities and support</td>
</tr>
<tr>
<td>Additional Implementation</td>
<td>Information and Outreach to Members and Communities</td>
</tr>
<tr>
<td></td>
<td>Management Zone Outreach in Communities and DACs</td>
</tr>
</tbody>
</table>

### Communication Focus

- **Planning Phase**
- **Implementation Phase**

**Participants**

**Public**
Distributed Outreach Approach

QUESTIONS
SALT & NITRATES
Threat to Water Quality and the Economy

The Central Valley (Valley) is the epicenter of California’s economy—encompassing 40% of the state and providing water for people and businesses from San Francisco to San Diego, as well as food for California, the nation, and the world. Over the last 150 years, increased agricultural, industrial, and municipal activities, coupled with population growth, have resulted in dramatic increases in salts and nitrates in groundwater, soils, and surface waters. In some communities the nitrate concentrations have caused unsafe drinking water. Salt accumulations have resulted in 250,000 acres being taken out of production and 1.5 million acres have been declared salinity impaired. If not addressed, the economic impacts of salts and nitrates on the Valley are estimated to exceed $3-billion per year.

COMPLIANCE
With Regulation is a Challenge

Salt and nitrate discharges by agriculture, municipal, and industrial activities are regulated by the Central Valley Water Quality Control Board (Central Valley Water Board). New and improved management practices have already been implemented to reduce salt and nitrate discharges into surface and ground waters, but compliance with current regulations is difficult and in some areas of the Valley even impossible. New, updated, flexible regulations are needed that address the Valley’s natural diversities (e.g. climatic, hydrologic, geologic) while protecting water quality and maintaining a strong economy.

COLLABORATION
To Develop Solutions

In 2006, a coalition of stakeholders, including federal, state and local agencies, permitted dischargers (growers, ranchers, municipalities, food processors, etc.), and environmental justice groups, started discussing how to balance maintaining a strong economy while ensuring safe drinking water. This initiative is called the Central Valley Salinity Alternatives for Long-Term Sustainability (CV-SALTS). To help fund the technical and scientific studies necessary to support the development of alternative regulatory approaches, the Central Valley Salinity Coalition (CVSC) was established in 2008.

NEW PLAN
Underway to Manage Salts & Nitrates

The Central Valley Salt and Nitrate Management Plan (SNMP) was released in January 2017. The SNMP is built on a strong regulatory, technical, and policy foundation. It recommends that the existing Basin Plans be amended (see page 4) to include the new and revised regulations that would allow the flexibility to manage salts and nitrates more locally while providing safe drinking water supplies.

GOALS
The SNMP establishes three primary management goals to guide implementation.

1. PROVIDE SAFE DRINKING WATER SUPPLIES
   Short & long term solutions

2. REDUCE SALT & NITRATE IMPACTS
   Timeframe & costs vary

3. RESTORE GROUND WATER QUALITY
   Where reasonable & feasible
NEW APPROACH TO SALT MANAGEMENT

A Long-Term Focus

The current high level of salt in portions of the Valley is a result of a combination of agricultural, industrial, and municipal activities. Dams and imported water supplies have reduced the natural flushing of salt and increased the amount of salt brought into the Valley. Salt concentrations in the groundwater are naturally high in some areas and increasing in most. For example, in the San Joaquin Valley, 2 million tons of salt accumulate every year. The recent drought increased the use of groundwater with higher concentrations of salt.

Technical studies conclude that a long-term strategy for managing salinity is necessary. Current management activities only address about 15% of the annual salt load, long-term solutions are needed to address the remaining 85%. While this strategy is developed, a permitting approach is recommended to facilitate immediate solutions.

SHORT-TERM SOLUTION:
Interim Salinity Permitting

During development of a long-term strategy for salt management an Interim Permitting Approach will be used.

• Continued implementation of existing pollution prevention, watershed, and salt reduction plans.
• Continued maintenance of current salinity discharge levels.
• Enforced compliance with Interim Permit Limits.
• Implementation of new salinity management practices and source control activities.
• Monitoring of salinity discharge activities where required.
• Participating in Prioritization and Optimization Study.

LONG-TERM SALT MANAGEMENT
A Phased Approach

1. Development
Perform a Prioritization and Optimization Study to:
• Define potential regional and subregional projects (e.g., de-salters, regulated brine line) and practices (e.g., new treatment controls, development of new water supplies).
• Identify funding sources.
• Establish governance structures to implement large-scale projects.

2. Funding
Obtain funding and complete environmental permitting and engineering/design for projects identified in Phase One.

3. Construct Projects
Construct salt management projects developed in Phases One and Two.
WHAT DOES IT MEAN FOR YOU?

Most of the nitrates accumulating in the groundwater come from sources such as manure, fertilizer, and failing septic systems. In the Valley, 90% of residents rely on groundwater wells for drinking water and some of this supply is now unsafe. Currently, dischargers (growers, ranchers, municipalities, food processors, etc.) are regulated for nitrate discharge but in many cases the regulations are difficult or even impossible to achieve. The SNMP is recommending new regulations that encourage dischargers to participate in projects that provide safe drinking water. Those who provide safe drinking water, will be given more time to achieve nitrate compliance.

To streamline resources while addressing nitrate management issues, the Valley has been separated into three areas of priority for nitrate management. The highest priority areas have the greatest number of affected drinking water supplies and will be addressed first. The high priority areas are located in these Basins or Subbasins: Kaweah, Turlock, Chowchilla, Tule, Modesto, and Kings.

What is Different?

Under the new regulations, when a Notice to Comply is received, dischargers would have two choices:

1. Maintain traditional permitting, OR
2. Follow the new management zone permitting option.

Both options prioritize ensuring safe drinking water.

Traditional Permitting

A discharger may opt to comply either as an individual (e.g. a food processing plant) or as a third party (e.g. growers and farmers represented by a third party such as an irrigated lands coalition).

New Groundwater Management Zone Permitting

Discharger opts to work as part of a collective, with other dischargers, through the creation of a local management zone that would serve as its own, discrete regulatory compliance unit for nitrate compliance.

Dischargers would continue implementing best practices and nitrogen management plans while working to provide safe drinking water within the zone. In turn, dischargers would be allowed more time to achieve nitrogen balance and restore impacted water bodies.

Nitrate Management Zone Pathway

A Closer Look

Here’s a possible scenario, once the SNMP regulations go into effect:

A municipal wastewater treatment plant or food processing plant receives a Notice to Comply. They have two choices: (A) comply as an individual permittee under traditional permitting or (B) join a management zone with other dischargers who then work together to assure zone residents have safe drinking water. In exchange, the zone participants are allowed more time and flexibility to achieve nitrate compliance. The Central Valley Water Board provides guidance, oversight, and necessary approvals for management zone creation, planning and implementation.
TIMELINE

BASIN PLAN AMENDMENTS IN THE WORKS

The Central Valley Water Board, under the jurisdiction of the State Water Resources Control Board, oversees the regulation of agricultural, municipal, and industrial waste discharges of nitrates and salts within the Valley. The Central Valley Water Board uses two Basin Plans as the basis for regulating water quality: the Sacramento River-San Joaquin Basin Plan and the Tulare Lake Basin Plan. The SNMP recommends two new management strategies and eight supporting policies be included in the Basin Plans as amendments. Once amended, the Central Valley Water Board will be able to implement regulations that offer greater flexibility for discharger compliance while ensuring safe drinking water in affected areas and long-term progress toward improved surface and ground water quality.

LEARN MORE

Visit any of these online resources to learn more about the CV-SALTS effort:

- www.cvsalinity.org
- www.waterboards.ca.gov/centralvalley
- Salt & Nitrate Management Plan
  www.cvsalinity.org/docs/central-valley-snmp/final-snmp

CV SALTS
Central Valley Salinity Alternatives for Long-term Sustainability

GET INVOLVED & LEARN MORE!

Do you use water in the Valley?

Join CV-SALTS to help bring safe drinking water to the entire Central Valley.

Visit CVSalinity.org to learn how you can help and to receive CV-SALTS updates.
CV-SALTS Meeting Calendar

2017

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

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

1 2 3 4 5 6 7
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15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

1 2 3 4 5 6 7
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15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

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

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

Notes/Key

Light Red conflicts

Regional Board Workshop/Hearing

Wed/Thurs 4th or 3rd

Policy Related Meetings

Policy or Admin Calls

Yellow Salty 5

Lower San Joaquin

TAC Meeting

Regional Board Presentation

Wednesday Meetings are DRAFT
May be held by Webinar or in person in Sacramento half day