

**Exhibit A
Scope of Work**

1. Overview

The San Joaquin Valley Drainage Authority (Contractor) shall provide Contracting and Contract Administration services for projects to implement the Central Valley Salinity Alternatives for Long-term Sustainability (CV-SALTS), a stakeholder initiative being conducted by the Central Valley Water Board (Regional Water Board) and the Central Valley Salinity Coalition (Coalition) in conjunction with the State Water Resources Control Board (State Water Board) per the March 2010 Memorandum of Agreement.

2. Project Representatives

A. The project representatives during the term of this Agreement shall be:

Central Valley Regional Water Quality Control Board	San Joaquin Valley Drainage Authority
Name: Pam Buford Contract Manager	Name: Dan Nelson, Project Director
Phone: (559) 445-5576	Phone: (209) 826-9696
Fax: (559) 445-5910	Fax: (209) 826-9698
E-mail: pbuford@waterboards.ca.gov	E-mail: dan.nelson@sldmwa.org

B. Direct all inquiries to:

Central Valley Regional Water Quality Control Board	San Joaquin Valley Drainage Authority
Attention: Brett Braidman	Attention: Joseph McGahan
11020 Sun Center Drive, Suite 200 Rancho Cordova, CA 95670-6114	Summers Engineering, Inc. 887 N. Irwin St., P.O. Box 1122 Hanford, CA 93232
Phone: (916) 464-4602	Phone: (559) 582-9237
Fax: (916) 464-4600	Fax: (559) 582-7632
E-mail: Brett.Braidman@Waterboards.ca.gov	E-mail: JMcGahan@Summerseng.com

C. Either party may make changes to the information above by giving ten (10) days written notice to the other party. Said changes shall not require an amendment to this Agreement.

3. Background

- A. The State Water Board and the Regional Water Board have identified salinity as a major, widespread growing threat to maintaining the beneficial uses of surface water and groundwater in the Central Valley. Salinity and nitrate from past and current sources impair beneficial uses of waters throughout the basin and result in pollution of drinking water sources for some communities in the Central Valley. While there are salinity regulatory controls in place, a much more comprehensive approach is needed to effect regional change, including the development of Basin Plan amendments and involvement of the many stakeholders that use Central Valley waters.
- B. The Regional Water Board and the State Water Board have initiated a comprehensive effort to address salinity problems in California's Central Valley and adopt long-term solutions that shall lead to enhanced water quality and economic sustainability. Central Valley Salinity Alternatives for Long-Term Sustainability (CV-SALTS) is an effort to develop and implement a comprehensive salinity/nutrient management program. The goal of CV-SALTS is to maintain a healthy environment and a good quality of life for all Californians by protecting our most essential and vulnerable resource, water.

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- C. The Coalition is an organization formed under Internal Revenue Code Section 501(c)(6) for purposes of salinity management, member education, and seeking supplemental funding from non-State parties for the Salinity and Nitrate Objective and Beneficial Use Study (Study) and for assisting in the administration of CV-SALTS efforts. The Coalition has entered into a Memorandum of Agreement with the Regional Water Board and the State Water Board for CV-SALTS. Standing Rules have been approved to document the roles of the State Water Board, Regional Water Board, CV-SALTS Committees and Coalition.
- D. The Contractor is a joint powers agency organized pursuant to the California Government Code Section 6500 et seq., comprised of 12 member local agencies for the purpose, among others, to identify and implement feasible regional long-term solutions to drainage issues affecting irrigated agricultural lands in the San Joaquin Valley, either alone or together with the State of California and/or the United States. The Contractor is a member of the Coalition and an active participant in the CV-SALTS initiative and has proven experience with developing and implementing complex regional solutions to maximize water resource management by leveraging resources from State, Federal and local agencies (e.g. Department of Fish and Game, Agreement No. ERP-02D-P63, to manage upstream dissolved oxygen studies: \$6.8-million with 12-subcontractors).
- E. On March 17, 2009 the State Water Board adopted Resolution No. 2009-0023, which allocated \$1.2 million in Cleanup and Abatement Account funding to the Regional Water Board in support of the development of a Salinity and Nutrient Management Plan for the Central Valley (SNMP). The Regional Water Board has been provided the authority to utilize the funding for the first year of a multi-year effort to develop an SNMP for the Central Valley. Specifically, the funding was allocated for a Study, to establish a model using existing, reliable, and usable data from areas and water bodies within the Central Valley. The expectation is that this model shall be used to establish beneficial uses and objectives for areas where little or no data exist.
- F. On 7 September 2010, the State Water Board adopted Resolution No. 2010-0042, which approves the use of \$3.8-million in Cleanup and Abatement Account funding to continue the development of the SNMP. The Regional Water Board has been provided the authority to utilize the funding to support year two (Phase 2-Collaborative Surface and Groundwater Data Collection and Analysis--\$2.0 million) and year three (Phase 3-Implementation Planning and Analysis--\$1.8 million) of the effort. The Regional Water Board Contract Manager shall be responsible for the day to day Contract management and invoice approval. The resolution recognizes that additional matching funds must be developed through the Coalition to insure the success of the projects. The resolution also requires annual updates to the State Water Board on the progress achieved, including a summary of work accomplishments to date and a timeline for completion of work. Release of the \$1.8 million for the third year (Phase 3) of the effort is the responsibility of the State Water Board following annual updates and dependent on demonstration of sufficient progress in implementing the first two years (two Phases) including the development of outside stakeholder support and funding.
- G. This Contract encumbers the \$3.8 million allocated for the second and third years (Phases) of the project with availability of \$1.8 million for the third year (Phase 3) contingent on the CV-SALTS initiative demonstrating sufficient progress in implementing the Project and developing outside stakeholder support and funding. State Water Board Resolution No. 2012-0066 approved the release of the remaining \$1.8 million on December 4, 2012.
- H. Contracting with the Contractor provides continuity with ongoing work from year one with continued ability to augment CAA funding with funding developed through the Coalition.

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4. Services to be Performed

A. Task Management

- 1) With input from CV-SALTS Committees, the Regional Water Board Contract Manager shall identify and prioritize specific projects (task 4D4) that shall be conducted to complete the Study and shall approve a detailed scope of work, including a description of the expected tasks, budgets, schedule, deliverables, and reporting requirements.
- 2) The Regional Water Board Contract Manager shall also ask the CV-SALTS Executive Committee to: i) advise as to whether or not matching funds are available for task implementation; ii) designate the CV-SALTS Committee with primary work product review responsibility; and iii) participate in the selection of the sub-contractor if required.

B. Matching Funds

One goal of the CV-SALTS effort is to raise funds and conduct projects that support the development of a SNMP. The Contractor in coordination with the Coalition shall provide documentation of matching funds that support implementation of the Study.

C. Contracts and Administration

- 1) Promptly upon receipt of the notice to proceed from the Regional Water Board Contract Manager, the Contractor shall implement a process to solicit services to implement tasks identified in 4D.
 - a) The Contractor shall develop appropriate packages and request proposals in accordance with the requirements of Section 3.06 of the State Contracting Manual for any tasks identified in 4D to be subcontracted.
 - b) Prior to the award of a subcontract for any approved project, the Contractor shall submit the proposed subcontract for approval by the Regional Water Board Contract Manager.
- 2) The Contractor shall provide oversight and management of the projects, including, but not limited to the following:
 - a) All projects must include a process for providing progress reports and draft reports to the State Water Board/Regional Water Board Contract Manager and appropriate CV-SALTS Committees, allowing time for development of comments by these parties, and for responding to the comments received.
 - b) For projects with matching funds, Contractor shall ensure that projects include measures to verify i) that information included in the proposals describes the tasks to be funded with State Board funds and separately describes the additional or augmented tasks to be accomplished with matching funds; and ii) that matching funds are available in the amount described in the approved project prior to the start of work performed under the subcontract.
 - c) The Contractor shall prepare and submit monthly reports describing work completed during the quarter and invoices as described in Exhibit B of this Contract; no work performed prior to the

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approval of State Board Resolution 2010-0042 for \$3.8-million is eligible for reimbursement and funds expended prior to that date shall be considered matching funds of any project approved prior to that date.

- d) Two hard copies and two electronic copies of each of the final project reports prepared under this Contract shall be submitted to the State Water Board/Regional Water Board Contract Manager. Final payment shall not be made until the reports are received and accepted by the State Water Board/Regional Water Board Contract Manager.
- e) The Contractor shall prepare and submit a final report summarizing all work completed under this Contract.

Commented [BP1]: SJVDA Number of copies is up to you. As contractor you will need to maintain a copy for auditable file and provide a copy to Water Board.

D. Subcontracted Technical Tasks

Contractor shall provide or ensure that subcontractors provide the following:

- 1) Technical Project Coordination
 - a) Technical Project Management support efforts of CV-SALTS Technical and Executive committees
 - b) Provide Basin Planning support by developing draft scopes of work on behalf of CV-SALTS for technical work with draft schedule and costs.
 - c) Basin Planning support developing strategies for preparation of the SNMP and supporting basin plan amendment language
 - d) On behalf of CV-SALTS manage and provide updates on subcontracted work to technical and executive committees
 - e) Ensure all technical work needed for a salt and nitrate management plan robust enough to support a basin plan amendment is fully drafted by March 2016 for final review and approval by 1 April 2016
 - f) Provide sub-committee manager support to the Lower San Joaquin River Committee to facilitate workplan implementation for Salt and Boron Water Quality Objectives.
- 2) Focused technical studies identified by the CV-SALTS Technical Committee and approved by the Executive Committee to support evaluation of beneficial uses
 - a) CEQA Support for the evaluation of the appropriate designation and level of protection of MUN beneficial uses in constructed agricultural drains as well as other agriculturally dominated water bodies.
 - b) Conduct CEQA and economics analyses to support evaluation of beneficial uses in designated area within the Tulare Lake Bed.
 - c) Aquatic Life Beneficial Use Study a technical analysis to identify salinity related water quality criteria including recommendations for adoption of salinity related water quality objectives to protect aquatic life.
- 3) Develop Conceptual Model of Water, Salt and Nitrate Sources and Interactions
 - a) Initial Conceptual Model (ICM) (Phase I) – Utilize Pilot Salt and Nitrate Source Study, USBR Westside Salt and Nitrate Study, and Tulare Salt Source Study and other information to compile and organize existing data into an initial conceptual model of water, salt and nitrate movement and interactions for the Central Valley Basins. Refine Beneficial Use and Objective Study (BUOS) (developed under contract 09-076-150) through final technical review to minimize errors and insure stakeholder information correctly portrayed, including an update of GIS layers.

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- b) Conceptual Model (Phase II) -
 Extension of the ICM project that includes the following work elements: refine project database, develop salt/nitrate data analysis methods to support SNMP antidegradation analysis, evaluate use of a Management Zone approach to locally manage salt/nitrate, and prepare technical elements of the SNMP
- c) Conceptual Model (Phase III) SNMP Supporting Documentation -
 Economic Analysis – Consistent with requirements for a Basin Plan Amendment, document economic costs and benefits as well a societal impacts of current regulation, future regulation, and proposed program of implementation to support adoption of the SNMP. Prepare SNMP Antidegradation Analysis consistent with the methods developed under the Phase II Conceptual Model project (Task 3b above).
 Prepare the Monitoring & Surveillance Plan for inclusion in the SNMP
- 4) Strategic Salt Accumulation Land and Transportation Study (SSALTS)
 - a) Identify and analyze range of viable Central Valley alternatives for salt disposal to support development of implementation measures for inclusion in the SNMP.
 - b) Develop nitrate management alternatives and conduct additional salinity management alternatives analyses (if needed to supplement SSALTS findings) to support development of implementation measures for inclusion in the SNMP
- 5) Central Valley Salt and Nitrate Management Plan (SNMP)
 - a) Building on the preliminary draft SNMP developed under Task 3d above, develop a final Central Valley SNMP that clearly supports the policy objectives, beneficial uses, water quality objectives, implementation and other elements required for a robust basin plan amendment.
 - b) At a minimum, the SNMP must satisfy the requirements of the California Recycled Water Policy.
- 6) Draft Central Valley Basin Plan Amendment Language
 - a) Develop information and supporting documentation for the environmental review process pursuant to Public Resources Code 21080.5. Such information development may include Substitute Environmental Documents (CEQA Equivalent)
 - b) Utilizing the Central Valley SNMP, develop appropriate draft Basin Plan language for adoption of SNMP into both the Sacramento-San Joaquin and Tulare Lake Basin Plans

5. Deliverables for Services to be Performed

Task 4 Services to be Performed	Deliverable	Due Date
A - D	Annual reports describing work completed during the year and invoices	31 January each year of Contract
A – D	Draft overall final report	As approved by Contract Manager but no later 1 August 2016
A – D	Final overall report and final invoice	1 October 2016

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Task 4 Services to be Performed	Deliverable	Due Date
D1	Technical Project Coordination	
1b	Draft Technical Scopes of Work	As created
1d	Soft deliverables- such as meeting agenda preparation, facilitation, and meeting notes posted on CV-SALTS website	As created
D2	Focused Technical Studies	
2a	Agricultural drain MUN Beneficial Use Evaluation - Laboratory Sample Results	December 2013
2a	Agricultural drain MUN Beneficial Use Evaluation - Final Environmental Review section for insertion into Staff Report	February 2015
2a	Agricultural drain MUN Beneficial Use Evaluation - Final CEQA Checklist for inclusion as appendix to Staff Report	February 2015
2b	Tulare Lake Bed Beneficial Use Evaluation - CEQA Scoping Notice	February 2015
2b	Tulare Lake Bed Beneficial Use Evaluation - Final Problem Statement, Alternatives, Economic Analysis, Staff Report – Tulare Lake Bed	October 2015
2c	Final Aquatic Life Study report with comment and response document	February 2014
D3	Develop Conceptual Model	
3a	Initial Conceptual Model (Phase I)	
3a	Final Workplan for ICM including GIS (Phase I)	September 2012
3a	Final Technical Memo with comment and response table and updated GIS incorporating corrections with metadata	April 2013
3a	Final data summary report	April 2014
3a	Initial Conceptual Model Management Zone Recommendation Memo	December 2012
3a	Technical Memo summarizing planned methods for determining ambient groundwater in management zones	December 2012
3a	Initial Conceptual Model Report	December 2013
3b	Conceptual Model (Phase II)	
3b	Final Workplan for Phase II	February 2014
3b	Brief Technical Memo on groundwater data refinements and updates	June 2014
3b	Management Zone Archetype Kickoff Meeting Materials	July 2014
3b	Final Management Zone Archetype report including comment/response matrix	April 2015
3b	Preliminary Draft SNMP	May 2015

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Task 4 Services to be Performed	Deliverable	Due Date
3c	Conceptual Model (Phase III)	
3c	Final Monitoring and Surveillance Plan for inclusion into SNMP	July 2015
3c	Final Antidegradation Analysis	July 2015
3c	Final Economic Analysis	March 2016
D4	Strategic Salt Accumulation Land and Transportation Study (SSALTS)	
4a	Final Report SSALTS Phase 1 review of studies and literature, select representative study areas, screening level analysis	December 2013
4a	Final Report SSALTS Phase 2 Identify in-valley and out-of-valley and hybrid salt disposal alternatives	August 2014
4a	Final Report SSALTS Phase 3 Evaluate potential salt disposal alternatives to identify acceptable alternatives for implementation	January 2015
4b	Final Report Nitrate Management Alternatives	July 2015
D5	Central Valley Salt and Nitrate Management Plan (SNMP)	
5a/b	Central Valley Salt and Nitrate Management Plan that at a minimum satisfies California Recycled Water Policy	April 2016
D6	Draft Central Valley Basin Plan Amendment Language	
6a	Final Substitute Environmental Document (CEQA Equivalent)	March 2016
6b	Draft Basin Plan Language for adoption of SNMP into both the Sacramento-San Joaquin and Tulare Lake Basin Plans	September 2016