Date & Time: 10/6/2025 | 10:00 AM

Location: SLDMWA Boardroom

# Notice of Water Resources Committee Regular Meeting / Joint Water Resources Committee Regular Meeting-Special Board Workshop

842 6th Street, Los Banos (List of Member/Alternate Telephonic Locations Attached)

#### **Public Participation Information**

Join Zoom Webinar - https://us02web.zoom.us/j/89498752641?pwd=XaYUVnhl4ebBT7ITh4jAXaETbDSc6J.1

NOTE: Any member of the public may address the Water Resources Committee/Board concerning any item on the agenda before or during consideration of that item.

Because the notice provides for a regular meeting of the Water Resources Committee ("WRC") and a joint regular WRC Meeting/Special Board workshop, Board Directors/Alternates may discuss items listed on the agenda; however, only WRC Members/Alternates may correct or add to the agenda or vote on action items.

NOTE FURTHER: Meeting materials have been made available to the public on the San Luis & Delta-Mendota Water Authority's website, <a href="https://www.sldmwa.org">https://www.sldmwa.org</a>, and at the Los Banos Administrative Office, 842 6th Street, Los Banos, CA 93635.

#### Agenda **Topic** Lead Item Call to Order/Roll Call 1. 2. Water Resources Committee to Consider Additions and Corrections to the Agenda for the Water Resources Committee Meeting only, as Authorized by Government Code Section 54950 et seg. 3. Opportunity for Public Comment – Any member of the public may address the Water Resources Committee/Board concerning any matter not on the agenda, but within the Committee or Board's jurisdiction. Public comment is limited to no more than three minutes per person. For good cause, the Chair of the Water Resources Committee may waive this limitation. **ACTION ITEMS**

**Approval of September 8, 2025 Meeting Minutes** 

4.



5.	Recommendation to Board of Directors to Authorize Execution of	Petersen
	Professional Services Agreement for Public Affairs Services and Expenditures	
	of up to \$110.000	

Recommendation to Board of Directors to Adopt Staff Recommendation for Peterser
 Positions on Legislation

A. H.R. 3572 (Valadao), To make projects in certain counties eligible for funding under the rural surface transportation grant program, and for other purposes.

#### **REPORT ITEMS**

7. Update on South and Central Delta Channel Maintenance/Siltation

Petersen McQuirk

**8.** Executive Director's Report

Barajas

(May include reports on activities within the Water Resources Committee's jurisdiction related to 1) CVP/SWP water operations; 2) California storage projects; 3) regulation of the CVP/SWP; 4) existing or possible new State and Federal policies; 5) Water Authority activities)

9. Update on Water Policy/Resources Activities (May include reports on federal, state, and local agency regulatory, legislative, and administrative water policy/resources activities)

Petersen

**10.** Update on Water Operations and Forecasts

Arroyave

- **11.** Committee Member Reports
- **12.** Closed Session

Akroyd

CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

Initiation of Litigation Pursuant to paragraph (4) of Subdivision (d) of Government Code Section

54956.9 – 2 potential cases

CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION

Significant Exposure to Litigation Pursuant to Paragraph (2) or (3) of Subdivision (d) of Government Code Section 54956.9 – 2 potential cases

CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION

Existing Litigation Pursuant to paragraph (1) of Subdivision (d) of Section 54956.9

- A. Pacific Coast Federation of Fishermen's Associations (PCFFA), et al. v. Nickels, et al., U.S. District Court, E.D. Cal., Case No. 2:11-cv-02980; 9th Cir. Case No. 23-15599 (GBP Citizen Suit)
- B. City of Fresno, et al. v. United States, U.S. Court of Appeals for the Federal Cir., Case No. 22-1994; U.S. Court of Federal Claims, Case No. 1:16-cv-01276 (2014 Friant Div. Operations)
- C. PCFFA, et al. v. Lutnick, et al., U.S. District Court, E.D. Cal., Case No. 1:20-cv-00431 (2019 BiOps)
- D. California Natural Resources Agency, et al. v. Lutnick, et al., U.S. District Court, E.D. Cal., Case No. 1:20-cv-00426 (2019 BiOps)



- E. California Sportfishing Protection Alliance (CSPA), et al. v. State Water Resources Control Board (SWRCB), et al., Sac. Co. Superior Court, Case No. 34-2021-80003761 (2021 TUCP Order)
- F. CSPA, et al. v. SWRCB, et al., Sac. Co. Superior Court, Case No. 34-2021-80003763 (2021 Temp. Mgmt. Plan)
- G. Walsh v. Martin, et al., E.D. Cal., Case No. 1:23-CV-01774 (employment action)
- H. SWRCB, Administrative Hearings Office, Petitions for Change of California Department of Water Resources (DWR) Water Right Permits, Delta Conveyance Project (DWR Change Petition)
- I. Tehama-Colusa Canal Authority, et al. v. DWR, et al., Sacramento Co. Superior Court, Case No. 24WM000183 (SWP 2024 EIR Challenge)
- **13.** Return to Open Session
- **14.** Report from Closed Session, if any, Required by Government Code Section 54957.1
- **15.** Reports Pursuant to Government Code Section 54954.2(a)(3)
- **16.** ADJOURNMENT

Persons with a disability may request disability-related modification or accommodation by contacting Cheri Worthy or Sandi Ginda at the San Luis & Delta-Mendota Water Authority Office, 842 6<sup>th</sup> Street, P.O. Box 2157, Los Banos, California, via telephone at (209) 826-9696, or via email at <a href="mailto:cheri.worthy@sldmwa.org">cheri.worthy@sldmwa.org</a>. Requests should be made as far in advance as possible before the meeting date, preferably 3 days in advance of regular meetings or 1 day in advance of special meetings/workshops.

This agenda has been prepared as required by the applicable laws of the State of California, including but not limited to, Government Code Section 54950 et seq. and has not been prepared with a view to informing an investment decision in any of the Authority's bonds, notes or other obligations. Any projections, plans or other forward-looking statements included in the information in this agenda are subject to a variety of uncertainties that could cause any actual plans or results to differ materially from any such statement. The information herein is not intended to be used by investors or potential investors in considering the purchase or sale of the Authority's bonds, notes or other obligations and investors and potential investors should rely only on information filed by the Authority on the Municipal Securities Rulemaking Board's Electronic Municipal Market Access System for municipal securities disclosures, maintained on the World Wide Web at <a href="https://emma.msrb.org/">https://emma.msrb.org/</a>.



# SLDMWA WATER RESOURCES COMMITTEE REGULAR MEETING TELEPHONIC LOCATIONS OCTOBER 6, 2025

15671 W. Oakland Ave Five Points, CA 93624

Date & Time: 9/8/2025 | 10:00 AM

Location: SLDMWA Boardroom

842 6th Street, Los Banos

San Luis & Delta-Mendota Water Authority Water Resources Committee Regular Meeting and Joint Water Resources Committee Regular Meeting – Special Board Workshop Minutes

#### **Attendance**

Committee Members Present		Division 5: Absent	
Ex-Officio:	Cannon Michael William Bourdeau	Authority Representatives Present	
Division 1:	Anthea Hansen, Member	Federico Barajas, Executive Director	
Division 2:	Lon Martin, Alternate	Pablo Arroyave, Chief Operating Officer (ZOOM)	
Division 3:	Chris White, Member	Rebecca Akroyd, General Counsel	
Division 4:	Vince Gin, Member	Rebecca Harms, Deputy General Counsel	
	Dana Jacobson, Alternate	Scott Petersen, Water Policy Director	
Division 5:	Absent	Ray Tarka, Director of Finance	
		Bob Martin, Facilities O&M Director	
<b>Board of Dir</b>	ectors Present	Eddie Reyes, Information Systems Technician	
D: 1:1: 4	Author Henry Bireley	Stewart Davis, IT Officer	
Division 1:	Anthea Hansen, Director		
Division 2:	Justin Diener, Director	Others Present	
	William Bourdeau, Vice- Chair/Director	Patrick McCowan Panacha Water District	
	Lon Martin, Alternate	Patrick McGowan, Panoche Water District Chase Hurley, Pacheco Water District	
Division 3:	Chris White, Alternate	Russ Freeman, Westlands Water District	
DIVISION 3.	Jarrett Martin, Director	Stephen Farmer, Westlands Water District	
	Cannon Michael, Director	John Wiersma, Henry Miller Reclamation District	
Division 4:	Aaron Baker, Alternate	Aniruddha Bhattacharya (Babi), Reclamation	
DIVISION 4.	Dana Jacobson, Director	Ron Milligan, Water Authority Consultant (ZOOM	١
	Brett Miller, Alternate	non minigari, water nathoney consultant (2001)	,
Agenda			
Item	Topic	Lead	
1.	Call to Order/Roll Call – The meeting was Bourdeau at approximately 10:20 a.m. and	•	_
2	Additions or Corrections to the Agend Government Code Section 54950 et seq N		
3.	Opportunity for Public Comment - No publ	c comment.	
4.	Water Resources Committee to Consider Meeting Minutes - Chair William Bourdeau minutes approved with a minor correction to	deemed the July 7, 2025 meeting	



- 5. Recommendation to the Board of Directors to Adopt Staff Recommendation Petersen on Positions on Legislation
  - a. H.R. 4879 (Costa), Emergency Rural Water Response Act of 2025 (Support)
  - b. S.B. 707 (Durazo), Open Meetings: Meeting and Teleconference Requirements (Change Position to a Watch Position)

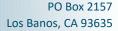
Water Policy Director Scott Petersen reviewed the staff recommendations for positions on legislation. Petersen reviewed outcomes of previous legislation that was brought to the Committee. Petersen answered questions from Committee members throughout the presentation.

M/S - Motion by Member Vince Gin, seconded by Alternate Lon Martin, the Committee adopted the staff recommendations for positions on H.R. 4879 (Costa), and S.B. 707 (Durazo). Vote: Ayes - Michael, Bourdeau, Hansen, Lon Martin, White, Gin; Nays – 0; Abstentions – 0.

#### 6. Executive Director's Report

**Barajas** 

- a. Sites Reservoir Project Executive Director Federico Barajas reported that Reclamation is holding public negotiations on the Sites Reservoir today, tomorrow, and next week, and the Authority is monitoring them.
- **b.** North to South Water Transfers Executive Director Federico Barajas reported that Reclamation put out a public notice on the Federal Register related to the transfers program, and scoping for an EIS.
- c. South of Delta Drought Plan Executive Director Federico Barajas reported that Reclamation is determining who will be taking over for Derya Sumer as project coordinator for the South of Delta drought plan program.
- Petersen provided an update regarding Fall X2 Off Ramp, State Water Resources Control Board Activity, San Joaquin River Restoration Program, the Water Blueprint for the San Joaquin Valley, and the San Joaquin Valley Collaborative Action Program. Petersen answered questions throughout the presentation.
- 8. Update on Water Operations and Forecasts Chief Operating Officer Pablo Arroyave Arroyave introduced consultant Ron Milligan, who provided information regarding CVP supply, reservoir storage, allocations, snowpack, and operations. Milligan and Arroyave answered Committee member questions throughout the presentation.
- 9. Committee Member Reports No reports.
- **10. Closed Session** Chair William Bourdeau adjourned the open session to Akroyd address the items listed on the Closed Session Agenda at approximately 11:07 a.m. Upon return to open session at approximately 11:44 a.m., Chair William Bourdeau reported that no reportable actions were taken in closed session.
- **11.** Reports Pursuant to Government Code Section 54954.2(a)(3) No reports.
- **12.** Adjournment The meeting was adjourned at approximately 11:45 a.m.



sldmwa.org



To: Water Resources Committee Members and Alternates / Board of Directors and Alternates

From: Scott Petersen, Water Policy Director

Date: September 29, 2025

RE: Recommendation to Board of Directors to Authorize Execution of Professional Services Agreement for Public Affairs Services, and Expenditure of Up to \$110,000.

# Background

The San Luis & Delta-Mendota Water Authority's ("Water Authority") Strategic Plan, adopted in late 2023, has a number of key Goals and Objectives that involve communications functions, including the following:

- Goal 4: Effective Communication and Engagement with Members and Key Stakeholders
  - Objective 4.1: General public understanding and support for issues the Water Authority supports is increasing.
  - Objective 4.2: The Water Authority supports collaborative programs to educate the broader public in California about critical issues important to the Water Authority.
  - Objective 4.3: Understanding and support for the Water Authority and its objectives from key identified stakeholders is increasing.
  - Objective 4.4: The Water Authority's logo and branding design is updated.
  - Objective 1.4: The Water Authority's scientific studies and communication are considered credible in relevant legislative, scientific, regulatory, and public arenas.
  - Objective 1.6: The effectiveness and value of the Water Authority's regulatory, legislative, legal, and administrative activities and strategies are periodically evaluated, and appropriate changes are made.

A thorough and effective communications program is central to achieving the objective outlined in the Strategic Plan, particularly in educating stakeholders and the public on key priorities of the Water Authority and its members, and demonstrating the interrelationship between public affairs and successful outcomes on policy and legislative priorities.

There are two main functions that a public affairs professional should provide for the Water Authority:

- (1) Support of policy objectives through campaign-style communications activities, consistent with the bounds of a public agency, and
- (2) Storytelling that highlights the contributions of the Water Authority and its members to the region, state, and nation.

Historically, the Water Authority has used the California Farm Water Coalition ("CFWC") for its public affairs function, however, a need for expanded capacity for SLDMWA has resulted in staff exploring the opportunity to transition to a new service provider.



Staff solicited input from a number of water professionals in Sacramento and other regions within California, reviewed the landscape of public affairs professionals, and identified three firms with a combination of capacity, talent, the potential for policy integration, and experience in the water sector, from which to solicit proposals for services, consistent with the Water Authority's informal procurement policy for professional services.

Two key deliverables are required by the end of the fiscal year, with a target to complete by the end of the calendar year:

- (1) An updated Communications Plan that is informed by and supports the completion of the Water Authority's policy objectives and supports the elevation of member agency benefits to the region, the state, and the nation, and
- (2) A website analysis and update to reflect the new brand identity and aligned with the revised Communications Plan and required standards. It is anticipated that the updated Communications Plan will influence the development of proposed activities for FY 27, as well as the execution of a subsequent contract to implement the updated Communications Plan.

Note that the contract falls within delegated authority to staff under the Water Authority's Procurement Policy, and staff is bringing this item to the Committee and Board as both an update on Strategic Plan objectives and an action associated with ongoing analysis of consultant support and Water Authority needs.

### Issue for Decision

Whether to authorize execution of Professional Services Agreement with Lucas Public Affairs ("Lucas") for the provision of Public Affairs Services, and expenditure of up to \$110,000 utilizing existing Fund 03 – Public Affairs // Communications funds.

### Recommendation

After review of various proposals, staff recommends engaging Lucas for a 90-day task order specific to the development of a new Communications Plan and website redesign. This will provide staff the opportunity to develop an assessment of the long-term viability of public affairs support through Lucas Public Affairs and work to develop necessary budget amounts for FY27 to support implementation of the new Communications Plan.



# **Analysis**

Lucas's combination of water experience, client list, lack of direct conflicts, and thorough onboarding process meet the Water Authority's needs for Phase 1, and should provide an opportunity to evaluate future engagement for Communications Plan implementation support in the long-term.

Na	me	Experience	Work Quality	Team Capacity	Notes
Lucas Affairs	Public	5	5	5	Well connected, excellent reputation as integrated in Sacramento political system to cross political divides. Internal content production capability and analytical metrics development and reporting available.  Key clients: California Water Resilience Initiative, Delta Conveyance and Design Construction Authority

#### **Budget Implications**

The approved Public Affairs budget for FY26 is \$323,200, covering consultant support, media subscription, and newsletter distribution services. To date, \$173,744 has been obligated, leaving \$149,456 available. Remaining funds will be directed to three priorities: (1) Communications Plan update, (2) website redesign and deployment, and (3) selection of new public affairs consultant and demonstration of level of service heading into the development of the FY27 budget cycle and selection of consultant for the following fiscal year.

Assuming onboarding in November, the new website vendor will require approximately \$15,000 in FY26. Media Monitor service and on-call website support during the transition from CFWC will require an additional \$19,000 for the remainder of the fiscal year, leaving \$115,456 available for the public affairs consultant without requiring a budget adjustment.

Budget allocations are reflected in the chart by phase: (1) Phase 1: Communications Plan Update and Website Relaunch, and (2) Phase 2: Communications Plan Implementation.

Name	Phase 1	Phase 2
	(One-time)	(Retainer)
Lucas Public Affairs	\$50,000 + 7%	\$15-18k / mo



# **ATTACHMENTS**

#### SAN LUIS & DELTA-MENDOTA WATER AUTHORITY

#### AGREEMENT FOR PROFESSIONAL SERVICES

For

Public Affairs Services to Implement Key Objectives in SLDMWA Strategic Plan

THIS AGREEMENT is made and entered into effective [Date], between the San Luis & Delta-Mendota Water Authority, hereinafter referred to as "SLDMWA" and Lucas Public Affairs, hereinafter referred to as "Consultant" for professional services as set forth herein.

The following designated Exhibits are incorporated fully into and made a part of this Agreement:

Exhibit A – Scope of Services

Exhibit B – General Terms and Conditions for Professional Services

Exhibit C – Fees, Hourly Rates a Reimbursable Costs/Expenses

Exhibit D – Task Order Format, applicable to Task Order Contracts

IT IS MUTUALLY AGREED, as follows:

#### 1. SCOPE OF SERVICES

Consultant shall provide the professional services described in the Scope of Services set forth in Exhibit A as may be amended or augmented from time to time, and in accordance with this Agreement, any Task Orders applicable to the Agreement, and the General Terms and Conditions for Professional Services set forth in Exhibit B, and for the compensation set forth in Exhibit C, Fees, Hourly Rates, and Reimbursable Costs/Expenses.

Any change in the Scope of the Services, budget or schedule set forth therein, or to any other matter materially affecting the performance of or nature of the professional services will not be paid for or accepted unless such change, addition or deletion be approved in advance, in writing, by SLDMWA.

#### 2. TERM OF AGREEMENT AND PERFORMANCE SCHEDULE

This Agreement shall become effective as of the date indicated and shall continue until the earlier of the completion of all required services or five (5) years from the effective date of the Agreement.

#### 3. PARTY REPRESENTATIVES AND NOTICES

Each party's designated representative for administration of this Agreement and receipt of notices is designated below. All notices or other communications provided for by the Agreement shall be in writing and shall be sent by 1) personal delivery, 2) nationally recognized overnight delivery service (such as Federal Express) which provides evidence of delivery, 3) first class United States mail (postage prepaid), registered or certified, return receipt requested, or 4) e-mail with a copy by first class U.S. mail. Notice shall be deemed received on the date actually delivered if delivered by personal delivery, overnight delivery, or U.S. Mail with return receipt requested and delivered during normal business hours on a business day. Notice by e-mail shall be deemed delivered on the date of transmission, unless the same is

after 5:00 p.m. or on a weekend or holiday, in which event delivery shall be on the next business day. A party may change its address for notices under the Agreement by giving notice as provided herein. Notices shall be sent to the following party representatives at the following addresses:

<u>SLDMWA</u>	<u>Consultant</u>
Scott Petersen	Donna Lucas
San Luis & Delta-Mendota Water Authority	Lucas Public Affairs
1331 Garden Highway, 2 <sup>nd</sup> Floor	1215 K St., Suite 1010
Sacramento, CA 95833	donna@lucaspublicaffairs.com
scott.petersen@sldmwa.org	916-492-2707
(209) 597-0232	

**IN WITNESS WHEREOF**, this Agreement has been executed by and on behalf of the parties hereto, the day, month and year so indicated above. If Consultant is a corporation, partnership or limited liability company, documentation must be provided that the person signing below for Consultant has the authority to do so and to so bind Consultant to the terms of this Agreement.

San Luis & Delta-Mendota Water Authority	<u>Consultant</u>
By:	By: Donna Lucas Chief Executive Officer Lucas Public Affairs

# EXHIBIT A SCOPE OF SERVICES

Consultant will provide professional services to SLDMWA, as directed. Individual work efforts, specific tasks, assignments, deliverables, and associated cost estimates will be described in sequential Task Orders. Consultant services rendered under this contract shall include public affairs services. Consultant will track specific work efforts according to each Task Order.

In performing the services pursuant to this Agreement, Consultant shall determine the means and the manner by which to accomplish those services and/or each sequential task in the case of a Task Order agreement. SLDMWA expects that Consultant will exercise independent judgement and discretion in performing the services and/or tasks required by this Agreement.

Exhibit A 1

# EXHIBIT B GENERAL CONDITIONS

#### ARTICLE 1. BASIC SERVICES OF CONSULTANT

- A. <u>Basic Services</u>: Consultant's Basic Services consist of the Scope of Services described in **Exhibit A** to the Agreement, all in accordance with all terms of the Agreement and applicable laws and regulations. If any conflict exists in describing the Basic Services, the provision reflecting the broader scope of Basic Services shall control.
- B. <u>Trust and Confidence</u>: Consultant accepts the relationship of trust and confidence established between SLDMWA and Consultant by the Agreement.
- C. Consultant's Skills and Compliance with Professional Standards: Consultant represents and warrants that it is skilled in the professional calling necessary to perform all services, duties and obligations required by the Agreement; that it is familiar with the statutes, regulations, and other requirements applicable to its Basic Services; that all of its work will conform to current law and professional practices and standards regarding such requirements; and that Consultant will exercise due professional care and will cooperate with any other consultant or contractor also employed by SLDMWA in connection its services under this Agreement. Consultant further represents and warrants to the SLDMWA that it has all licenses, permits, qualifications, and approvals of whatever nature that are required to practice its profession, and that it will keep all such licenses and approvals in good standing and effect during the term of the Agreement. Consultant agrees to perform its work with the skill and judgment of a prudent professional practicing in California and in the most expeditious and economical manner consistent with the interests of SLDMWA.
- D. <u>Responsibility for Work</u>: Any review, approval or acceptance of any of Consultant's work under the Agreement shall not relieve Consultant from responsibility for errors and/or omissions in its work or the work of its sub-consultants.
- E. Compliance with Laws: At its sole cost and expense, and as part of its Basic Services, Consultant shall give all notices and comply with all laws, ordinances, rules, regulations, and lawful orders of any public authority bearing on the performance of its work, including those relating to safety of its employees and sub-consultants, hazardous materials, and equal employment opportunities; obtain all permits and licenses necessary for performance of its work; pay all wages, fees, benefits, and other amounts due to personnel and sub-consultants in connection with their performance of services and as required by law; pay all local, state, and federal taxes associated with its work; and pay all amounts required by law in connection with employees including, but not limited to, Social Security taxes, income tax withholdings, unemployment insurance, and workers' compensation insurance premiums. Upon SLDMWA's request, Consultant shall furnish evidence satisfactory to SLDMWA that any or all of the foregoing obligations have been fulfilled.
- F. <u>Independent Contractor</u>: Consultant shall be an independent contractor, and neither Consultant nor any employee of Consultant or its sub-consultants shall be deemed to be an employee of SLDMWA.

G. <u>No Relation with Sub-consultants</u>: Nothing in the Agreement shall create any contractual relation between SLDMWA and any sub-consultants, or their agents and employees, employed by Consultant. No sub-consultants, agents, employees or other parties are third party beneficiaries of the Agreement. Consultant shall be responsible to SLDMWA for the acts and omissions of its employees, sub-consultants, and their agents and employees, and other persons performing any of the work under the Agreement.

Note: See Article 20 for additional terms applicable to Task Order Contracts.

#### ARTICLE 2. SCHEDULE

- A. Consultant shall perform in accordance with the time specified in the Agreement.
- B. Any delays in or failure of performance by either party under this Agreement (except payment of compensation under Article 7) shall not constitute default hereunder and neither party shall be liable to the other for failure to perform its obligations hereunder if and to the extent that such failure to perform is caused by or results from force majeure which shall be defined to be causes or occurrences beyond the control of the party affected, including, but not limited to, acts of governmental authority, acts of God, strikes or other concerted acts of workmen, unavailability of labor or materials and operating equipment, fires, floods, explosions, riots, war, rebellion, insurrection and sabotage; provided, however, that the party whose performance is delayed shall have given notice and full description of the cause of the delay in writing to the other party as soon as possible after the occurrence of the cause relied on by it.

#### ARTICLE 3. EXTRA SERVICES OF CONSULTANT

- A. <u>Changes in Consultant's Services</u>: SLDMWA, without invalidating the Agreement, may change Consultant's Basic Services by written notice to Consultant of such change. In addition, the scope or duration of Consultant's Basic Services may be changed by actions beyond the control, fault, or neglect of Consultant or its sub-consultants and require performance beyond the time currently estimated under the Agreement. Such additional services are referred to as herein as Extra Services.
- B. <u>Notice to SLDMWA</u>: Consultant shall promptly notify SLDMWA if Consultant has been directed or otherwise caused to perform Extra Services, and if the Extra Services are expected to increase or decrease Consultant's costs and compensation, the duration of Consultant's services, or both. Failure to provide written notice to SLDMWA of an expected increase in time, cost or compensation prior to performing the Extra Services, and no later than fourteen (14) days following SLDMWA's written notice of a change to Basic Services or another event causing a change, shall absolutely waive Consultant's right to any increase in time or compensation.
- C. <u>Pricing of Changes</u>: Following timely notice, SLDMWA and Consultant shall negotiate in good faith regarding changes to time and/or compensation. Absent a different agreement between SLDMWA and Consultant, Extra Services shall be performed on a time and materials basis calculated in accordance with the hourly rates set forth in **Exhibit C** and for such reimbursable expenses addressed below in Article 7. If Consultant will use sub-consultants to perform Extra Services, those sub-consultants and their billing rates must be approved in advance by SLDMWA. For such approved sub-consultants, Consultant may invoice SLDMWA at one hundred ten percent (110%) of the direct billings of the sub-consultants.

D. <u>Documenting Changes</u>: All Extra Services affecting the duration of the Agreement or compensation shall be documented in a written amendment executed by SLDMWA and Consultant. Prior to Consultant performing any Extra Services, either a) SLDMWA and Consultant shall execute an amendment encompassing such services or b) SLDMWA shall acknowledge in writing that it is directing the performance of Extra Services prior to executing an amendment. No claim for any additional compensation or time shall be valid unless authorized by a written amendment.

#### ARTICLE 4. CONFLICTS OF INTEREST

Consultant shall not have a familial, financial, or investment interest in any of the persons, contractors or companies with responsibilities related to the work described in Exhibit A or any Task Orders. A familial interest exists if any of Consultant's officers, directors, employee(s) providing professional services to SLDMWA, or owners of 10% or more of the business is the spouse, sibling, parent, child, grandparent, grandchild, aunt/uncle or niece/nephew of any of the officers, directors, project managers, or owners of 10% or more of the business of any of the persons, contractors or companies with responsibilities related to the work described in Exhibit A or any Task Orders. Consultant affirms that, to the best of its knowledge, there exists no actual or potential conflict between family, business, or financial interests of Consultant and SLDMWA. Consultant agrees to advise SLDMWA of any actual or potential conflicts of interest that may develop subsequent to the date of execution of the Agreement.

#### ARTICLE 5. ASSIGNMENT AND SUBCONTRACTING

Except as expressly authorized herein, Consultant shall neither assign its rights nor delegate its duties under the Agreement without prior written consent of SLDMWA. This prohibition of assignment and delegation extends to all assignments and delegations that lawfully may be prohibited by agreement. Except as expressly allowed in the Agreement, Consultant shall not subcontract any of the work to be performed or services to be rendered without the prior consent of SLDMWA.

#### ARTICLE 6. NON-DISCRIMINATION

Consultant shall not discriminate against any employee or potential employee on the basis of prohibited criteria, as defined in Government Code section 12940. Without limiting the foregoing in any way, during the performance of this Agreement, Consultant and its sub-Consultants shall not unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), mental disability, medical condition (cancer), age (over 40), marital status, and denial of family care leave. Consultant and sub-Consultants shall insure that the evaluation and treatment of their employees and applicants for employment are free from such discrimination and harassment. Consultant and sub--Consultants shall comply with the provisions of the Fair Employment and Housing Act (Government Code Section 12990 (a-f) et seq.) and the applicable regulations promulgated thereunder (California Code of Regulations, Title 2, Section 7285 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code Section 12990 (a-f), set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations, are incorporated into this Agreement by reference and made a part hereof as if set forth in full. Consultant and its sub-Consultants shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other Agreement. Consultant shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the Agreement.

#### ARTICLE 7. COMPENSATION; TAXES

- A. <u>Professional Services</u>: Consultant agrees to perform the Basic Services and any authorized Extra Services, and SLDMWA agrees to pay Consultant for such services in accordance with **Exhibit C** to the Agreement, or such other rates for Extra Services as may be expressly agreed upon in writing between SLDMWA and Consultant.
- B. <u>Reimbursable Consultant Costs/Expenses</u>: SLDMWA recognizes that certain costs and expenses associated with the services performed may be reimbursable to Consultant. Categories of costs/expenses that may be considered for reimbursement are included in **Exhibit C**. Payments to Consultant for reimbursable costs/expenses will be made only after the specific costs/expenses have been incurred and invoicing has been verified by submission of substantiating documentation, such as copies of paid invoices or other documentation confirming that such costs/expenses have been incurred by Consultant.
- C. <u>Invoicing</u>: Consultant shall submit one (1) invoice monthly to SLDMWA, including applicable time records and identification of any deliverables submitted during the billing period, for the work performed the prior month at rates not to exceed those stated in **Exhibit C**, to Accounts Payable, San Luis & Delta-Mendota Water Authority, at <u>accounts.payable@sldmwa.org</u>. If applicable, Consultant's invoice also shall include reimbursable costs/expenses and Extra Services incurred for the billing period. Invoices requesting reimbursement for costs/expenses incurred during the billing period must clearly list items for which reimbursement is being requested and be accompanied by proper documentation (e.g. receipts, invoices). Invoices requesting payment for Extra Services must reflect the hours being charged and a copy of SLDMWA's authorization notice. No payments will be made by SLDMWA to Consultant for monthly invoices requesting reimbursable or Extra Services absent the prior written authorization of SLDMWA.
- D. <u>Payment</u>: Invoices received by SLDMWA on or before the 15<sup>th</sup> day of a given month and subsequently approved by SLDMWA will be paid by SLDMWA before the end of the following month. All other properly invoice amounts shall be paid not more than forty-five (45) days after delivery of an invoice. Disputed invoices shall be returned to Consultant within ten (10) working days of receipt.
- E. Payment Disputes: SLDMWA may dispute any invoice or portion thereof which is not properly documented and in accordance with the Agreement. For any disputed payment, SLDMWA shall provide written notice describing its dispute to Consultant. 30-day payment period does not begin until an approved, undisputed invoice is received. There will be no interruption in services while invoices are being disputed. Disputes arising in the performance of this Contract which are not resolved by agreement of the parties shall be decided in writing by the authorized representative of SLDMWA. This decision shall be final and conclusive unless within ten (10) days from the date of the receipt of its copy, Contractor mails or otherwise furnishes a written appeal to SLDMWA's Chief Operating Officer. In connection with any such appeal, Contractor shall be afforded an opportunity to be heard and to offer evidence in support of its position. The decision of the Chief Operating Officer shall be binding upon Contractor and Contractor shall abide by the decision. Unless otherwise directed by SLDMWA, Contractor shall continue performance under this Agreement while matters in dispute are being resolved. In the event of a dispute between each parties Terms & Conditions, SLDMWA terms will prevail.

F. <u>Taxes</u>: Any and all taxes imposed or assessed on Consultant's income by reason of this agreement or its performance, including but not limited to sales or use taxes, shall be paid by Consultant. Consultant shall be responsible for any taxes or penalties assessed by reason of any claims that Consultant is an employee of SLDMWA.

#### ARTICLE 8. SLDMWA'S OBLIGATIONS

SLDMWA shall cooperate with Consultant to facilitate the conduct of Consultant's performance of its services under this Agreement, including for purposes of the exchange of information and consultation, as well as to provide access as required to any SLDMWA facilities that are the subject of the services. Consultant's primary source of contact with the SLDMWA shall be the contact designated in the Agreement.

#### ARTICLE 9. CONFIDENTIAL INFORMATION

- A. Confidential Information shall be (a) any and all information provided by SLDMWA (the "Disclosing Party") to Consultant (the "Receiving Party") that is labeled and/or marked confidential, and if disclosed orally, summarized in written format within (30) calendar days of disclosure and identified as "confidential", "trade secret", or "proprietary", and (b) information that is not labeled as "confidential", "trade secret", of "proprietary" but after which SLDMWA notifies Consultant as being "confidential", "trade secret", or "proprietary", SLDMWA shall retain all ownership rights over its Confidential Information.
- B. The Confidential Information will be kept confidential, and will not, without SLDMWA's prior written consent, be disclosed by Consultant, in any manner whatsoever, in whole or in part, and shall not be used in any manner directly or indirectly by Consultant, other than in connection with providing services under this Agreement.
- C. Confidential Information does not include information which (i) at the time of disclosure is within the public domain through no breach of this Agreement by Consultant; (ii) has been known or independently developed by and is currently in the possession of Consultant prior to disclosure or receipt hereunder; (iii) was or is acquired by Consultant from a third party (other than a Member customer contacted by Consultant through the operation of this Agreement) who did not to Consultant's knowledge breach an obligation of confidentiality by disclosing it to Consultant.
- D. Consultant will retain the Confidential Information only so long as it is necessary to perform Consultant's tasks under this Agreement, and after such time, the Confidential Information will be returned to SLDMWA (or at SLDMWA's written option, destroyed), and Consultant will retain no copies of the Confidential Information.

#### ARTICLE 10. INSURANCE

A. <u>Required Policies</u>: Consultant and any sub-consultants shall procure and maintain insurance on all of its operations during the progress of its work described in Exhibit A and/or the Task Orders, with reliable insurance companies approved by the State of California Department of Insurance and with a Bests' rating of no less than (A) Level VII, on forms acceptable to SLDMWA, for the following minimum insurance coverages, which may be increased or expanded by the Agreement:

- 1. Workers' Compensation insurance and occupational disease insurance, as required by law, with limits of no less than \$1,000,000 per accident for bodily injury or disease.
- 2. Employer's liability insurance, with minimum limits of \$1,000,000, covering all workplaces involved in the Agreement.
- 3. Commercial General Liability Insurance in an amount not less than \$2,000,000 combined single limit per occurrence for bodily injury, property damage, personal injury, advertising liability, blanket contractual liability, Consultant's obligations under this Agreement, products and completed operations, and coverage for independent contractors with limits of not less than two million dollars (\$2,000,000) for each occurrence or the full per occurrence limits of the policies available, whichever is greater. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
- 4. Commercial Automobile Insurance for all owned, non-owned and hired vehicles used by Consultant in the performance of its services under this Agreement with a limit of not less than \$1,000,000 combined single limit per occurrence for bodily injury and property damage.
- 5. Professional Liability Insurance, written on a "Claims Made Basis," with limits of liability in amounts not less than \$1,000,000 per claim and \$2,000,000 aggregate, insuring Consultant, for its own acts and for the acts of all persons for whose acts Consultant may be liable, against liabilities arising out of or in connection with negligent acts, errors, or omissions in connection with the carrying out of their professional responsibilities under the Agreement. Consultant shall provide SLDMWA proof of professional liability insurance coverage for two years following final completion of the Agreement.

#### B. Additional Terms:

- 1. All general liability policies shall name SLDMWA, its elected or appointed officers, officials, directors, agents, authorized volunteers, representatives and employees as additional insureds ("Additional Insureds"), include a severability of interest provision, and shall provide that such policy is primary and not contributory with any insurance carried by SLDMWA or its Members.
- 2. The insurance to be provided by Consultant under this Agreement shall not include any of the following: except for Professional Liability Insurance, any claims-made insurance policies; any self-insured retention or deductible amount greater than two hundred fifty thousand dollars (\$250,000) unless approved in writing by SLDMWA; any endorsement limiting coverage available to SLDMWA that is otherwise required by this Article 9; and any policy or endorsement language that (i) negates coverage to SLDMWA for SLDMWA's own negligence; (ii) limits the duty to defend SLDMWA under the policy; (iii) provides coverage to SLDMWA

- only if Consultant is negligent, or (iv) permits the recovery of defense costs from any additional insured. The insurance provided under this Agreement shall not contain any restrictions or limitations which are inconsistent with SLDMWA's rights under this Agreement.
- 3. Consultant shall provide Certificates of Insurance, or other evidence of insurance as requested by SLDMWA, to SLDMWA within ten (10) days after receipt by Consultant of the executed Agreement. The certificates shall provide that there will be no cancellation, suspension, voiding or change of coverage without thirty (30) days' prior written notice to SLDMWA. There shall be no reduction or modification of coverage of insurance required by the Agreement without the written consent of SLDMWA. Consultant shall provide SLDMWA with a new or renewed certificate of insurance upon any changes or modifications to coverage, including any extension or renewal of required insurance coverage; provided that any changes or modifications to coverage shall be consistent with this Agreement.
- 4. The insurer(s) issuing the required policies shall, by separate endorsement, agree to waive all rights of subrogation against the "Additional Insureds" for losses arising in any manner from the products or work provided or performed by or on behalf of Consultant for SLDMWA, but this provision applies regardless of whether or not SLDMWA has received the waiver of subrogation.

#### ARTICLE 11. INDEMNITY; NO LIABILITY FOR CONSEQUENTIAL DAMAGES

- Α. Consultant shall, with respect to all work which is covered by or incidental to the Agreement, defend, indemnify, and hold harmless SLDMWA, its officers, directors, agents, representatives and employees (collectively "SLDMWA"), from and against any and all liens and claims asserted by firms or individuals claiming through Consultant, and claims, liability, loss, damage, civil fines, penalties, costs, or expenses, including reasonable attorneys' fees, expert's fees, awards, fines, or judgments, relating to the death or bodily injury to persons, injury to property, other loss, damage, or expense to the extent that any of the above arise out of, pertain to, or relate to the negligence, recklessness, willful misconduct or breach of this Agreement by Consultant or anyone acting under its direction or control or on its behalf in the course of its performance under this Agreement. Consultant's duty shall include the duty to defend the indemnitees as required by Civil Code section 2778, which duty shall arise from the need for defense and is not contingent upon a finding of liability for indemnification, and Consultant shall employ counsel reasonably acceptable to SLDMWA for this defense obligation. Consultant shall not be obligated under the Agreement to indemnify SLDMWA to the extent that the damage is caused by the active or sole negligence or willful misconduct of SLDMWA or its agent or servants other than Consultant.
- B. SLDMWA shall defend, indemnify, and hold harmless Consultant, its officers, directors, agents, representatives and employees (collectively "Consultant") from and against any and all claims, liability, loss, damage, civil fines, penalties, costs, or expenses, including reasonable attorneys' fees, expert's fees, awards, fines, or judgments, relating to the death or bodily injury to persons, injury to property, other loss, damage, or expense to the extent that any of the above arise out of, pertain to, or relate to the negligence, recklessness, willful misconduct or breach of this Agreement by SLDMWA or anyone acting under its direction or control or on its behalf in the course of its performance under this Agreement

other than Consultant. SLDMWA's duty shall include the duty to defend the indemnitees as required by Civil Code section 2778, which duty shall arise from the need for defense and is not contingent upon a finding of liability for indemnification, and SLDMWA shall employ counsel reasonably acceptable to Consultant for this defense obligation. SLDMWA shall not be obligated under the Agreement to indemnify Consultant to the extent that the damage is caused by the active or sole negligence or willful misconduct of Consultant or its agent or servants.

- C. Where any claim results from the joint negligence, gross negligence, willful misconduct or breach of any provision of this Agreement by SLDMWA and Consultant, the amount of such claim for which SLDMWA or Consultant is liable as indemnitor under this Article shall equal (i) the proportionate part that the amount of such claim attributable to such indemnitor's negligence, gross negligence, willful misconduct or breach of any provision of this Agreement bears to (ii) the amount of the total claim attributable to the joint negligence, gross negligence, willful misconduct or breach of any provision of this Agreement at issue.
- D. Consultant and SLDMWA each agree to promptly serve notice on the other party of any claims arising hereunder and shall cooperate in the defense of any such claims.
- E. The acceptance by SLDMWA or its representatives of any certificate of insurance providing for coverage of any kind shall in no event be deemed a waiver of any of the provisions of this Article. None of the foregoing provisions shall deprive SLDMWA of any action, right or remedy otherwise available by law.
- F. Except to the extent of any insurance coverage, neither Consultant nor SLDMWA shall be responsible to the other for any form of consequential damages, including, but not limited to losses of use, sale, profits, financing, business and reputation, and attorney fees thereon. Nothing in these provisions or in this Agreement shall waiver, release or compromise any insurance requirements or coverages required in Article 10.

#### ARTICLE 12. INTELLECTUAL PROPERTY INFRINGEMENT

Consultant shall defend, indemnify and hold SLDMWA free and harmless from and against, any loss, cost and expense that SLDMWA incurs because of a claim that any deliverables, materials or equipment (hereinafter "Product") provided pursuant to this Agreement infringes on the intellectual property right of others. Consultant's obligations under this indemnification are expressly conditioned on the following: (i) SLDMWA must promptly notify Consultant of any such claim; (ii) SLDMWA must in writing grant Consultant sole control of the defense of any such claim and of negotiations for its settlement or compromise (if SLDMWA chooses to represent its own interests in any such action, SLDMWA may do so at its own expense, but such representation must not prejudice Consultant's right to control the defense of the claim and negotiate its settlement or compromise); (iii) SLDMWA must cooperate with Consultant to facilitate the settlement or defense of the claim; (iv) the claim must not arise from modifications to or misuse of the Product by SLDMWA, or others. In the event of any such infringement claim, Consultant, at its sole option and expense, may (A) retake title and possession of the Product and refund all compensation paid by SLDMWA, or (B) obtain for SLDMWA the right to continue using the Product under the terms of this Agreement; or (C) replace the Product with another that is substantially equivalent in function, or modify the Product so that it becomes non-infringing and substantially equivalent in function.

#### ARTICLE 13. <u>USE AND OWNERSHIP OF WORK PRODUCT</u>

As used in this Agreement, the term "Work Product" means any and all deliverables or materials fixed in a tangible medium of expression, including software code, written procedure, written documents, abstracts and summaries thereof, or any portions or components of the foregoing created, written, developed, conceived, perfected or designed in connections with the services provided under this Agreement. SLDMWA shall retain all rights, title and interest in and to the Work Product, including all intellectual property rights therein and any and all enhancements, improvements and derivative works thereof, and Consultant obtains no rights therein.

#### ARTICLE 14. ONLINE DOCUMENT ACCESSIBILITY

Consultant will provide electronic copies of documents and materials designated for public access on the Authority's public website consistent with Web Content Accessibility Guidelines (WCAG) 2 Level AA Conformance and/or current state and federal standards for accessibility. If Consultant has any question as to whether a deliverable is subject to these requirements, Consultant shall confirm with the Authority whether the deliverable is anticipated to be posted to the Authority website. Consultant may reference the California Department of Technology's Web Accessibility Assessment Checklist at <a href="https://dor.ca.gov/Home/Accessibility">https://dor.ca.gov/Home/Accessibility</a> to help Consultant comply with State and WCAG standards and requirements. Consultant should ensure documents and materials created for the Authority are compatible with most major Internet browsers, including Chrome, Firefox and Safari. The Authority reserves the right to return to Consultant for correction any deliverable that is required to be website accessible, and that the Authority determines not to be compliant, in accordance with these standards. Any such modification shall be done at Consultant's cost and without further charge to the Authority.

#### ARTICLE 15. TERMINATION OF AGREEMENT

This Agreement may be terminated by either party upon 30-60 days' written notice, with or without cause, upon written notification to the other party. Following such termination, SLDMWA shall pay Consultant all unpaid sums due for services performed under this Agreement to the date of termination, plus reasonable expenses for winding down the services. Following such payment, SLDMWA shall have the right to immediate possession of all documents, files (including electronic files), and other Work Product. No termination of the Agreement shall excuse or otherwise relieve Consultant of its responsibilities under the Agreement, including, without limitation, the standard of care for its work and services and its indemnity obligations. All of such responsibilities under the Agreement with respect to work and/or services performed prior to the date of termination shall survive any termination.

#### ARTICLE 16. RECORDS AND AUDIT

- A. Records of Consultant's direct personnel and reimbursable expenses pertaining to any Extra Services on the work described in Exhibit A or any Task Orders shall be kept on a generally recognized accounting basis and shall be available to SLDMWA or its authorized representative at mutually convenient times.
- B. SLDMWA or SLDMWA's authorized representative shall have access, upon reasonable notice and during normal business hours during the term of the Agreement and for a period of two (2)

years thereafter, to Consultant's books and records and all other documentation pertaining to Consultant's services under this Agreement for the purpose of auditing and verifying the cost of such services or for any other reasonable purpose. Such access includes the right to make excerpts, transcriptions and photocopies at SLDMWA's expense.

C. Consultant will preserve its books, records and other documents related to this Agreement for a period of two (2) years after completion or termination of all services under this Agreement.

#### ARTICLE 17. NOTICE OF CLAIMS AND DISPUTE RESOLUTION

- A. Consultant and SLDMWA shall attempt to resolve conflicts or disputes that arise under this Agreement or that relate in any way to this Agreement or the subject matter of this Agreement in a fair and reasonable manner. In the event of any such conflict or dispute, the party first shall give written notice of the conflict or dispute to the other in accordance with the notice provisions under this Agreement. Such notice shall be given as soon as possible but in no event later than thirty (30) days after the conflict or dispute arises. Thereafter, the conflict or dispute shall be resolved as set forth below.
- B. <u>Direct Negotiation:</u> Direct Negotiation will be the initial process used by the parties after written notice of any dispute arising out of or relating to the Agreement is given. Either SLDMWA or Consultant may make a request for Direct Negotiations as an initial attempt to resolve any conflict or dispute arising out of the Agreement. Direct Negotiation representatives of the parties shall be SLDMWA's designated representative and Consultant's designated representative. Any requested Direct Negotiation will take place at SLDMWA's offices or at a mutually agreeable location specified by the parties' designated representatives. Direct Negotiations shall take place as soon as reasonably practical after the request for Direct Negotiation. The parties shall negotiate in good faith in an effort to resolve the claim, dispute, or other matter arising out of the Agreement. Each party shall document the results of the Direct Negotiation, and these documents shall be exchanged between the parties.
- C. <u>Mediation</u>: The parties agree that all claims, disputes or controversies between the parties arising out of or relating to the Agreement, or breach thereof, shall initially be submitted to non-binding mediation before a mediator mutually agreed upon by the parties. The costs and fees of the mediator shall be paid equally by the parties. The parties shall negotiate in good faith in an effort to reach an agreement with respect to the claim, dispute or controversy.
- D. <u>Arbitration or Litigation</u>: If the conflict or dispute remains unresolved after mediation, the parties may agree in writing to binding arbitration, or the matter may proceed in litigation before a court of competent jurisdiction. Neither party shall commence or pursue arbitration or litigation prior to (1) the completion of mediation proceedings, and (2) prior to completion of Consultant's services under this Agreement.

#### ARTICLE 18. <u>DIRECTION BY LEGAL COUNSEL</u>

In the course of the services provided under this Agreement, Consultant may be directed by SLDWMA Counsel, and thus may acquire or produce confidential information and communications that are protected from disclosure under the privilege for attorney-client communications or the attorney-work product doctrine. Under such circumstances, SLDMWA Counsel will be identified as a SLDMWA Representative. Consultant acknowledges that the Consultant shall direct all communications, reports and information, including invoices, to said Counsel, and not to any other representative of SLDMWA,

unless otherwise directed by Counsel. Accordingly, Consultant agrees that it will mark all communications, documents and files related to the services provided as "Privileged and Confidential," except as specifically directed or authorized by SLDMWA Counsel.

#### ARTICLE 19. <u>ADDITIONAL PROVISIONS</u>

- A. <u>Successors and Assigns</u>: SLDMWA and Consultant each binds itself, its partners, successors, assigns and legal representatives to the other party hereto and to the partners, successors, assigns and legal representatives of such other party in respect to all covenants, agreements and obligations contained in the Agreement. Consultant shall not assign the Agreement or sublet it in whole or part without the written consent of SLDMWA, nor shall Consultant assign any moneys due or to become due to it hereunder without the prior written consent of SLDMWA.
- B. <u>Unenforceability of any Clause</u>: If any clause or provision of the Agreement is held to be unenforceable or invalid, then that provision of the Agreement shall be stricken, and all other provisions of this Agreement shall remain in full force and effect and shall not be effected thereby.
- C. <u>Waiver of Breach</u>: Failure by one party to notify the other of a breach of any provision of this Agreement shall not constitute a waiver of any continuing breach. Failure by one party to enforce any of its rights under this Agreement shall not constitute a waiver of those rights. The waiver by either Party of a breach or violation of any provision of this Agreement shall not operate as, or be construed to be, a waiver of any subsequent breach of the same or any other provision hereof.
- D. <u>Entire Agreement</u>: The Agreement, including all exhibits, represents the entire and integrated agreement between SLDMWA and Consultant and supersedes all prior negotiations, representations or agreements, either written or oral. No changes, amendments, alterations or modifications to this Agreement will be effective unless in writing and executed in the same manner as the Agreement.
- E. <u>Interpretation</u>: The Agreement shall be construed and interpreted in accordance with the laws of the State of California.
- F. <u>Headings</u>: The titles of sections of these General Conditions are for convenience only and no presumption or implication of the intent of the parties as to the construction of this Agreement shall be drawn therefrom.

#### ARTICLE 20. ADDITIONAL PROVISIONS FOR TASK ORDER CONTRACTS

In addition to all of the foregoing provisions, the following apply when this Agreement is designated as a "Task Order Contract."

A. Where this Agreement is indicated to be a Task Order Contract, the Agreement will consist of the individual projects defined by Task Orders entered into by the Parties during the term of and pursuant to this Agreement. Each Task Order will be numbered sequentially and will be similar in format to **Exhibit D**, entitled "Task Order Format," attached hereto and incorporated herein by this reference. Each Task Order will specifically define the scope of work for each specific project on which SLDMWA desires to retain Consultant's services. Each Task Order will also specify (1) the date on which the work covered by the Task Order is to begin; (2) the date on which the work covered by the Task Order is to be

completed; (3) the estimated charges that SLDMWA can expect to pay to Consultant for Consultant's services pursuant to such Task Order; and (4) the names of the persons who will be SLDMWA's and Consultant's respective principal representatives for the management and performance of the specific services covered by said Task Order.

- B. The specific services covered by each separate Task Order will be undertaken by Consultant only upon receipt of a Task Order signed by an authorized representative of SLDMWA and Consultant.
- C. Consultant will commence performing the services specified by each Task Order on the commencement date specified in the Task Order and will complete such services within the time and monetary limitations specified in the Task Order. If Consultant, in the course of performing its services under any given Task Order, determines it will be unable to complete the services within the time schedule or authorized limit of charges specified in the Task Order, it will promptly so notify SLDMWA of such determination. Within fourteen (14) days of said notification, SLDMWA will inform Consultant as to how SLDMWA chooses to proceed.
- D. All invoices for services shall identify the Task Order number. In addition, all invoices should be submitted separately for each Task Order number.
- E. SLDMWA will have the right to terminate Consultant's services under any specific Task Order at any time by giving notice in writing to Consultant. Consultant will not be entitled to payment for any cost related to the terminated part of services covered by the Task Order and incurred after the effective date of termination except for costs directly related to work performed by Consultant in terminating, provided that such work is authorized in advance by SLDMWA's representatives under such Task Order. SLDMWA also will reimburse Consultant for all expenses incurred by Consultant in satisfying commitments for materials, equipment and services for use in the terminated work which were made by Consultant prior to such termination. Such expenses may include the cost of returning or disposing of unused materials and equipment and terminating agreements for services by third parties. Consultant, however, will use its best efforts to minimize such costs. This paragraph provides the full and exclusive compensation to Consultant in the event of a terminated Task Order or termination of a Task Order Contract.

#### ARTICLE 21. <u>LIMITATION OF LIABILITY</u>

Except as otherwise set forth in Article 10 of this Agreement, in no event will Contractor be liable to SLDMWA for any incidental, indirect, special, consequential or punitive damages or lost profits of SLDMWA. The aggregate total liability of Contractor arising from or related to SLDMWA's engagement of Contractor shall not exceed the recoveries from insurance provided or, if none, an amount equivalent to the fee paid by SLDMWA to Contractor for its services under this Agreement.

#### **EXHIBIT C**

# FEES, HOURLY RATES AND REIMBURSABLE COSTS/EXPENSES

If future years have rate increases, the rates must be agreed upon prior to issuance of any future task orders.

#### **LPA Government Hourly Rates**

Title Hourly	Rates
President/CEO	\$480
Executive Vice President	\$400
Vice President	\$285
Director	\$270
Account Supervisor	\$265
Senior Account Executive	\$240
Account Executive	\$225
Creative Specialist	\$195
Apprentice	\$150
Intern	\$125

031-F26-AA63-T0001

# EXHIBIT D TASK ORDER FORMAT

#### TASK ORDER #

[TITLE]

#### **Detailed Scope of Work**

[Insert Scope of Work details]

**Budget Maximum:** [Insert not to exceed amount]

Task # Performance Period: [Insert Task Order start date and ending date]

**SLDMWA Project Lead:** [Name] [Email]

Consultant Project Lead: [Name] [Email]

**Special Instructions:** [Insert any special instructions]

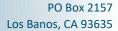
#### Accepted:

San Luis & Delta-Mendota Water Authority	<u>Consultant</u>
By:	By: [NAME] [TITLE] [ORGANIZATION]
Date:	Date:

#### TASK ORDER # COST SUMMARY

[Insert TASK ORDER # COST SUMMARY HERE]

Task Order 1



sldmwa.org



To: SLDMWA Water Resources Committee Members and Alternates

From: Scott Petersen, Water Policy Director

Date: October 6, 2025

RE: Water Resources Committee to Consider Recommendations on Legislation / Board of Directors to Consider

Same

### Recommendation

Recommend to the Water Resources Committee and Board of Directors to adopt the following positions on legislation:

### Federal Legislation

• Adopt a position of "Support and Amend" on H.R. 3572 (Valadao), To make projects in certain counties eligible for funding under the rural surface transportation grant program, and for other purposes.

# Federal Legislation

H.R. 3572 (Valadao), To make projects in certain counties eligible for funding under the rural surface transportation grant program, and for other purposes.

### **RECOMMENDATION: Support and Amend**

**OBJECTIVE:** Improve Water Infrastructure Affecting Authority Member Agencies

#### **Summary**

The bill amends the rural surface transportation grant program to include counties with at least \$1 billion in annual agricultural production and \$500,000 per square mile in agricultural output. It defines farm-to-market roads as roads within these covered counties and mandates that 10 percent of annual grant funds be reserved for projects on such roads. The Secretary of Transportation, in coordination with the Secretary of Agriculture, is required to create and annually update a list of eligible covered counties based on agricultural metrics adjusted for inflation.

#### **Status**

H.R. 3572 was introduced on May 21, 2025, and has been referred to the House Committee on Transportation and Infrastructure.

### Importance to the Authority

The Rural Surface Transportation Grant Program supports projects that improve and expand the surface transportation infrastructure in rural areas to increase connectivity, improve the safety and reliability of the movement of people and freight, and generate regional economic growth and improve quality of life.



#### Eligible Applicants:

- a State;
- a regional transportation planning organization;
- a unit of local government;
- a tribal government or a consortium of tribal governments; or
- a multijurisdictional group of entities above.

#### Eligible Projects:

- A highway, bridge, or tunnel project eligible under National Highway Performance Program
- A highway, bridge, or tunnel project eligible under Surface Transportation Block Grant
- A highway, bridge, or tunnel project eligible under Tribal Transportation Program
- A highway freight project eligible under National Highway Freight Program
- A highway safety improvement project, including a project to improve a high-risk rural road as defined by the Highway Safety Improvement Program
- A project on a publicly-owned highway or bridge that provides or increases access to an agricultural, commercial, energy, or intermodal facility that supports the economy of a rural area
- A project to develop, establish, or maintain an integrated mobility management system, a transportation demand management system, or on-demand mobility services

This legislation would set aside 10% of the total rural surface transportation grant program for farm-to-market roads in counties with ≥\$1B in agricultural value & ≥\$500K/sq mi in agricultural productivity, both of which are met in Merced County. This legislation, if enacted, could create prioritized funding for rural roads impacting the affordability of Water Authority or member agency infrastructure projects, but does not include a specific linkage for prioritizing infrastructure interdependency and "bridge" infrastructure.

Suggested amendments include adding language to prioritize these two items.

# **Guidelines for Taking Positions on Legislation**

A number of controversial bills are introduced each year in the Congress and in the California Legislature. It is important to understand how the Authority takes positions on legislation.

### **Policy**

By Agenda Item 7, dated December 12, 2024, the Board adopted the Fiscal Year 2026 Objectives.

# Water Authority's Positions on Legislation

The Water Authority takes positions on legislation that, if enacted, would impact Water Authority members, consistent with Water Authority Board adopted Goals and Objectives. The Water Authority may take the following positions on legislation: Oppose, Support, Oppose Unless Amended, Support if Amended, Not Favor, Favor, Not Favor Unless Amended, Favor if Amended, and Watch (neutral). The Water Authority's staff and consultants testify and advocate with legislators and staff through meetings and member agency contacts on all positions except Watch, Favor and Not Favor. For Favor and Not Favor positions, written communication of the Water Authority's position is provided to the legislator. Nothing in this section should be read to preclude the Executive Director or his or her delegee from taking an informal support or informal oppose position on behalf of the Water Authority that is consistent with adopted legislative or policy objectives, or to preclude the Executive Director from



communicating a position on emergency legislation after obtaining the concurrence of the Chair, or the Chair's designee, provided that the Executive Director informs the Board regarding such positions on emergency legislation no later than the next regularly scheduled Board meeting.

#### **Amendment Development Process**

If the Water Authority takes an Oppose Unless Amended or Support if Amended position, the Water Authority will typically discuss the concepts for the amendments at the meeting. Then Water Authority staff, in consultation with Committee and/or Board Members as needed, will develop the amendments after the meeting.

### **Information Sharing**

To provide adequate information to the entire Water Authority membership, the Water Authority provides legislative updates, posts positions and other information on our website, and sends out advisories and alerts on key legislation.

The Water Authority's legislative department is available to provide specific information on bills on request and Board Members are encouraged to communicate Water Authority positions on priority legislation in meetings with legislative staff, consistent with Water Authority policy. The Water Authority's Water Policy Director appreciates being informed by Water Authority members of positions taken by Water Authority members on legislation.



# **BILL TEXT**

#### 119TH CONGRESS 1ST SESSION

# H. R. 3572

To make projects in certain counties eligible for funding under the rural surface transportation grant program, and for other purposes.

#### IN THE HOUSE OF REPRESENTATIVES

May 21, 2025

Mr. Valadao (for himself, Mr. Fong, Mrs. Cherfilus-McCormick, and Mr. Costa) introduced the following bill; which was referred to the Committee on Transportation and Infrastructure

# A BILL

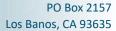
To make projects in certain counties eligible for funding under the rural surface transportation grant program, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION 1. RURAL SURFACE TRANSPORTATION GRANT
- 4 PROGRAM.
- 5 Section 173 of title 23, United States Code, is
- 6 amended—
- 7 (1) in subsection (a) by adding at the end the
- 8 following:

1	"(3) COVERED COUNTY.—The term 'covered
2	county' means a county that has an annual gross
3	agricultural production value of at least
4	\$1,000,000,000 and agricultural production of at
5	least \$500,000 per square mile, for all crops and
6	livestock sold, adjusted annually for inflation in ac-
7	cordance with the Consumer Price Index published
8	by the Bureau of Labor Statistics of the Depart-
9	ment of Labor.
10	"(4) FARM-TO-MARKET ROAD.—The term
11	'farm-to-market road' means a road located within a
12	covered county.";
13	(2) in subsection (i) by striking "subsection
14	(k)(1)" and inserting "paragraphs (1) and (4) of
15	subsection (k)";
16	(3) in subsection (k)—
17	(A) by redesignating paragraph (4) as
18	paragraph (5);
19	(B) by inserting after paragraph (3) the
20	following:
21	"(4) Farm-to-market roads.—The Secretary
22	shall reserve 10 percent of the amounts made avail-
23	able for the program for each fiscal year to provide
24	grants for eligible projects located on farm-to-market
25	roads in any amount."; and

1	(C) in paragraph (5) (as so redesignated)
2	by striking "or (3)" and inserting "(3), or (4)";
3	and
4	(4) by adding at the end the following:
5	"(p) Eligible Covered Counties.—The Sec-
6	retary, in consultation with the Secretary of Agriculture,
7	shall create, and annually update, a list of covered coun-
8	ties.".

 $\bigcirc$ 



sldmwa.org



To: SLDMWA Water Resources Committee Members and Alternates

From: Scott Petersen, Water Policy Director

Date: October 6, 2025

RE: Update on Water Policy/Resources Activities

# Background

This memorandum is provided to briefly summarize the current status of various agency processes regarding water policy activities, including but not limited to the (1) Implementation of Long-Term Operations of the Central Valley Project and State Water Project, including environmental compliance; (2) State Water Resources Control Board action; (3) Central Valley Regional Water Board Action, (4) San Joaquin River Restoration Program; (5) Delta conveyance; (6) Reclamation action; (7) Delta Stewardship Council action; (8) San Joaquin Valley Water Blueprint, and (9) San Joaquin Valley Water Collaborative Action Plan.

# **Policy Items**

### Implementation of Executive Order 14181

On January 2024, President Trump issued Executive Order 14181, detailing analysis of potential changes to the operations in the 2024 ROD for consideration by the Administration. There is currently work underway to develop an implementation plan for the Executive Order and future action on project operations.

# Implementation of 2024 Record of Decision on Long-Term Operations of the Central Valley Project and State Water Project

On December 20, Reclamation executed the Record of Decision and both the Fish and Wildlife Service and NOAA Fisheries issued their Final Biological Opinions, beginning operations under the new operations regime.

On January 2024, President Trump issued Executive Order 14181, detailing analysis of potential changes to the operations in the 2024 ROD for consideration by the Administration. There is currently work underway to develop an implementation plan for the Executive Order and future action on project operations.

**Note:** There are also Endangered Species Act consultations on the Trinity River and Klamath River that may have overlap/interactions with the operations of the CVP/SWP.

#### Adaptive Management Program

As part of implementation of the 2024 Record of Decision, state and federal agencies initiated and completed a structured decision-making process to assess alternatives to implement the Summer-Fall Habitat Action, including an analysis of summer and fall X2, for elevation to the agency directors to make a decision regarding summer-fall operations.



After completion of the analysis, the Directors elected to offramp Fall X2 operations for this water year and instead extended the operations of the Suisun Marsh Salinity Control Gates by 30 days.

#### State Water Resources Control Board (State Water Board) Activity

#### Bay Delta Water Quality Control Plan Update

#### **Background**

The State Water Board is currently considering updates to its 2006 Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Estuary ("Bay Delta Plan") in two phases (Plan amendments). The first Plan amendment is focused on San Joaquin River flows and southern Delta salinity ("Phase I" or "San Joaquin River Flows and Southern Delta Salinity Plan Amendment"). The second Plan amendment is focused on the Sacramento River and its tributaries, Delta eastside tributaries (including the Calaveras, Cosumnes, and Mokelumne rivers), Delta outflows, and interior Delta flows ("Phase II" or "Sacramento/Delta Plan Amendment").

During the December 12, 2018 Water Board Meeting, the Department of Water Resources ("DWR") and Department of Fish and Wildlife presented proposed "Voluntary Settlement Agreements" ("VSAs") on behalf of Reclamation, DWR, and the public water agencies they serve to resolve conflicts over proposed amendments to the Bay-Delta Plan update. The State Water Board did not adopt the proposed VSAs in lieu of the proposed Phase 1 amendments, but as explained below, directed staff to consider the proposals as part of a future Delta-wide proposal.

#### Phase 1 Status – San Joaquin River and its Tributaries

The State Water Board adopted a resolution<sup>2</sup> to adopt amendments to the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Estuary and adopt the Final Substitute Environmental Document during its December 12, 2018 public meeting.

On July 18, 2022, the State Water Resources Control Board issued a Notice of Preparation (NOP)<sup>3</sup> and California Environmental Quality Act (CEQA) Scoping Meeting for the Proposed Regulation to Implement Lower San Joaquin River Flows (LSJR) and Southern Delta Salinity Objectives in the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta (Bay-Delta Plan).

In response to the release of the NOP, the Water Authority and member agencies provided scoping comments<sup>4</sup> and the State Water Board is working through a long-term process to address Phase 1 elements of the Water Quality Control Plan Update.

A long delay in Phase 1 action occurred as legal activity was undertaken.

<sup>&</sup>lt;sup>1</sup> Available at <a href="https://water.ca.gov/-/media/DWR-Website/Web-Pages/Blogs/Voluntary-Settlement-Agreement-Meeting-Materials-Dec-12-2018-DWR-CDFW-CNRA.pdf">https://water.ca.gov/-/media/DWR-Website/Web-Pages/Blogs/Voluntary-Settlement-Agreement-Meeting-Materials-Dec-12-2018-DWR-CDFW-CNRA.pdf</a>.

<sup>&</sup>lt;sup>2</sup>Available at https://www.waterboards.ca.gov/board decisions/adopted orders/resolutions/2018/rs2018 0059.pdf.

<sup>&</sup>lt;sup>3</sup> Available at https://www.waterboards.ca.gov/public\_notices/notices/20220715-implementation-nop-and-scoping-dwr-baydelta.pdf

<sup>&</sup>lt;sup>4</sup> Request from Authority staff



Recently, on September 19, 2025, the State Water Resources Control Board (Board) has released a <u>Notice of Opportunity for Public Comment and Workshop on the Draft Scientific Basis Report Supplement for the Tuolumne River Voluntary Agreement Proposal (Draft TVA Scientific Basis Report). A public workshop has been scheduled for November 5, 2025, where the Board will receive public oral comments. The public written comment submittal deadline is no later than 12:00 p.m. (noon) on Friday, November 7, 2025. Please see the <u>Notice</u> for additional information on how to submit written comments and participate in the public workshop.</u>

#### **Next Steps**

- Final draft Staff Report for Tuolumne River VA
- Board workshop and consideration of Tuolumne River VA
- Final draft EIR and regulation implementing Lower SJR flows and South Delta Salinity
- Board consideration of regulation implementing Lower SJR flows and South Delta Salinity

#### Phase 2 Status – Sacramento River and its Tributaries and Bay-Delta

In the State Water Board's resolution adopting the Phase 1 amendments, the Water Board directed staff to assist the Natural Resources Agency in completing a Delta watershed-wide agreement, including potential flow and non-flow measures for the Tuolumne River, and associated analyses no later than March 1, 2019. Staff were directed to incorporate the Delta watershed-wide agreement as an alternative for a future, comprehensive Bay-Delta Plan update that addresses the reasonable protection of beneficial uses across the Delta watershed.

#### Revised Draft Sacramento/Delta Updates to the Water Quality Control Plan

#### Background

The July 2025 revised draft Bay Delta Plan (2025 revised draft) includes proposed changes to the draft Bay Delta Plan released in October 2024 (2024 draft) based on public input and comments received throughout the planning process, including comments on several options for possible changes to the plan identified in the 2024 draft. Specifically, the 2024 draft identified the possible inclusion of flow, cold water habitat and related provisions that were based on the proposed Plan amendments and alternatives identified in the 2023 draft Staff Report in support of updates to the Bay Delta Plan, as well as options for these provisions. The 2024 draft also identified the possible inclusion of Voluntary Agreements (VAs) to provide flows and non-flow habitat proposed by state and federal agencies and water users referred to as the Healthy Rivers and Landscapes proposal, as well as options associated with inclusions of VAs. The regulatory provisions would apply to all water right holders if the Board did not move forward with VAs, or in the event the Board moved forward with VAs would apply to water rights not participating in approved VAs. The 2025 revised draft proposes to move forward with the inclusion of VAs in the Bay Delta Plan for water rights included in approved VAs (VA pathway) and the regulatory provisions for water rights not included as part of approved VAs (regulatory pathway). The 2025 revised draft also includes proposals for addressing other options identified in the 2024 draft. The 2025 revised draft also proposes the designation of Tribal Tradition and Culture (CUL) beneficial use as part of the current Bay Delta Plan update.

The State Water Board is seeking public input on the 2025 revised draft updates to the Bay Delta Plan. Comments on this revised draft will inform development of a final draft of the Plan for Board consideration in the future.

#### **Current Activity**

On September 16, 2025, the State Water Resources Control Board (State Water Board or Board) rescinded the August 22, 2025 Second Revised Notice of Opportunity for Public Comment and Hearing on Revised Draft Sacramento/Delta Updates to the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Watershed (Bay-Delta Plan or Plan). The Rescinded Notice is available on the <u>Board's website</u>. Accordingly,



the hearing previously scheduled for September 24-25, 2025, and the associated public comment period are cancelled and will be rescheduled to a future date.

Updating the Sacramento/Delta components of the Bay-Delta Plan is one of the State Water Board's top priorities, and the Board is working expeditiously to complete this update. Board staff anticipate a limited recirculation of the draft Staff Report/Substitute Environmental Document in support of the Sacramento/Delta updates to the Bay-Delta Plan together with the updated draft Plan in December 2025. New dates for a public hearing and comment period will be announced upon release.

The August 22, 2025 supplemental model results remain available for public review, but the Board is not soliciting comments on the supplemental model results at this time.

If you have any questions regarding this matter, please contact <a href="mailto:SacDeltaComments@waterboards.ca.gov">SacDeltaComments@waterboards.ca.gov</a>.

Additionally, the State Water Board has received term sheets for additional voluntary agreements from Nevada Irrigation District (NID) and South Sutter Water District (SSWD) specific to the Bear River, Yuba River, and Auburn Ravine that are available to the public.

#### Water Rights

#### Water Accounting, Tracking, and Reporting System (CalWATRS) Launch

The State Water Resources Control Board is launching the California Water Accounting, Tracking, and Reporting System (CalWATRS) on October 7, 2025. A link to the new system and additional information will be posted on the <u>CalWATRS webpage</u> on October 7<sup>th</sup>.

#### What You Need to Know

- You Can Create an Account on October 7<sup>th</sup> You'll be able to create a CalWATRS account as soon as it opens, but you won't be able to begin reporting until you receive a personal identification number (PIN) from the State Water Board.
- PINs Will Be Mailed in Mid-October The State Water Board will begin mailing PINs in mid-October. If you manage multiple water rights, you may receive multiple PINs.
- eWRIMS Usernames and Passwords Don't Work for CalWATRS CalWATRS accounts require a new username and password. Your eWRIMS usernames and passwords will not work in CalWATRS.
- Large & Complex Water Rights If you manage a large or complex portfolio of water rights, please email <a href="mailto:CalWATRS-help@waterboards.ca.gov">CalWATRS-help@waterboards.ca.gov</a> before creating your CalWATRS account. We will work with you directly to ensure your account is set up correctly.
- **Public Outreach** The State Water Board is planning a series of public events to help users navigate CalWATRS. It all kicks off with an Informational Item at the Board's public meeting on October 7<sup>th</sup>. Upcoming events will be posted on the <u>CalWATRS webpage</u> as they are scheduled.

If you have questions or would like the CalWATRS team to attend an event in your area, please email <u>CalWATRS</u>-help@waterboards.ca.gov.

#### Water Measurement and Reporting Regulation

On September 26, 2025, the Office of Administrative Law (OAL) approved and filed with the Secretary of State chapter 2 and 2.7 revisions, which are now in effect. Please note that the State Water Resources Control Board will release a notice with additional proposed revisions to the chapter 2.8 (water measurement) regulation text for public comment in the coming weeks; these changes will provide additional clarity and consistency in the proposed



regulation text. Because of these additional revisions, the updated water measurement regulation in chapter 2.8 will become effective at a later date.

The virtual measurement workshop that was scheduled for October 15, 2025, will be postponed until an updated chapter 2.8 is approved.

#### **Additional Resources**

For more information regarding the rulemaking process for this regulation, visit the <u>Water Measurement and Reporting Regulation Rulemaking webpage</u>. Subscribe to the Water Measurement list on the State Water Resources Control Board's <u>Email Lists webpage</u> for further updates about the water measurement regulations. For information regarding the existing regulation, and resources on how to measure, visit the general <u>Water Measurement webpage</u>.

# San Joaquin River Restoration Program

#### **Restoration Flows**

On September 25, the Restoration Administrator, an independent body stipulated by the Settlement, has revised the river flow schedule<sup>5</sup> in response to Millerton Lake conditions. This schedule has now been approved by Reclamation.

To date, 106.6 TAF have been released to the San Joaquin River and 87.7 TAF has been removed from the Restoration Allocation as Unreleased Restoration Flows — sold or exchanged with Friant Contractors. Your schedule calls for the release of approximately 76.0 TAF additional water to the San Joaquin River, using the remainder of the Restoration Allocation.

Reclamation regularly monitors water temperatures in Millerton Lake. The data indicate that resuming Restoration Flows in late September would be beneficial to salmon. Restoration Flows will recommence in accordance with the approved schedule below. The public is encouraged to check Friant Dam releases before recreating near the San Joaquin River as conditions and flow schedules may change.

Additionally, the Program provided its 2024 Annual Report<sup>6</sup> to the Court.

# Delta Conveyance Project

## Petition for Change of Point of Diversion and Rediversion for the Delta Conveyance Project

The State Water Resources Control Board Administrative Hearings Office is holding a Public Hearing on the pending Petitions for Change of Water Right Permits 16478, 16479, 16481, and 16482 (Applications 5630, 14443, 14445A, and 17512, respectively) of the **Department of Water Resources**.

The evidentiary portion of the Public Hearing will continue on May 1 (starting at 1:00 p.m.), 2, 5, 14, 15, 21-23, 27 & 28 and June 10 & 11, 2025, and additional dates as necessary.

<sup>&</sup>lt;sup>5</sup> See Attachments.

<sup>&</sup>lt;sup>6</sup> Request from Authority Staff



Policy statements will be **heard in person and by Zoom Webinar on May 19, 2025, starting at 9:00 a.m.**, at Joe Serna Jr. CalEPA Building, Byron Sher Hearing Room, 1001 I Street, Second Floor, Sacramento, California.

The portion of the hearing for presentation of Protestants' cases-in-chief will begin on August 12 and will continue on August 13, 14, 18 & 25, and September 2, 5, 9, 10, 11, 15, 29 & 30, and October 1, 6, 9 & 10, 2025.

#### U.S. Bureau of Reclamation

#### **Reclamation Manual**

#### Documents out for Comment

#### **Draft Policy**

• There are currently no draft Policies out for review.

#### **Draft Directives and Standards**

There are currently no draft Directives and Standards out for review.

#### **Draft Facilities Instructions, Standards, and Techniques (FIST)**

There are currently no draft Facilities Instructions, Standards, and Techniques out for review.

#### **Draft Reclamation Safety and Health Standards (RSHS)**

There are currently no Safety and Health Standards out for review.

#### **Draft Reclamation Design Standards**

• There are currently no Design Standards out for review.

# San Joaquin Valley Water Blueprint

The Water Blueprint for the San Joaquin Valley (Blueprint) is a non-profit group of stakeholders, working to better understand our shared goals for water solutions that support environmental stewardship with the needs of communities and industries throughout the San Joaquin Valley.

**Blueprint's strategic priorities for 2022-2025:** Advocacy, Groundwater Quality and Disadvantaged Communities, Land Use Changes & Environmental Planning, Outreach & Communications, SGMA Implementation, Water Supply Goals, Governance, Operations & Finance.

**Mission Statement:** "Unifying the San Joaquin Valley's voice to advance an accessible, reliable solution for a balanced water future for all.

## Water Blueprint Board Meeting

The September meeting covered the latest on the unified water plan, which quantifies these challenges and catalogs potential solutions - establishing the baseline understanding that will guide federal and state funding decisions for our region. The monthly board meeting is open to the public, and interested parties can register through the website.

#### Top 3 Key Takeaways:

Unified Water Plan Making Significant Progress with Tight Timeline: The Water Blueprint's unified water
plan is moving forward rapidly with chapters 1 and 2 already distributed for review. The plan quantifies
the San Joaquin Valley's massive water supply gap at 2.5-3 million acre-feet by 2040, incorporating SGMA



- compliance needs, climate change impacts, and environmental flow requirements. Comments on the initial chapters are due by October 6th, with the full administrative draft expected by year-end.
- Major Supply-Demand Gap Identified Requiring Immediate Action: Technical analysis reveals the valley
  faces a future water shortage of 2.5-3 million acre-feet by 2040, driven by SGMA compliance requirements
  (1.4-2 million acre-feet), environmental restoration needs, climate change impacts, and groundwater
  replenishment requirements. This massive gap demonstrates the critical need for comprehensive water
  infrastructure investments and management changes.
- Recharge Projects Dominate Solutions: The latest research points out that nearly 50% of all GSP projects are groundwater recharge projects, including on-farm recharge, injection wells, in-lieu recharge, and constructed basins, with injection wells being the most cost-effective option.

#### Additional Takeaways:

- GSA Project Lists Need Updating: Analysis of Groundwater Sustainability Plans revealed that less than half of the 800+ identified projects have both cost and yield information, necessitating outreach to GSA points of contact for more accurate data.
- Multiple Funding Sources Needed: Projects will require diverse funding streams including flood control, environmental restoration, and water supply funding to address the multi-benefit nature of proposed solutions.
- Water District Partnership Expanding: Blueprint is deepening its relationship with water districts outside
  the Central Valley. These growing partnerships can create significant opportunities for Valley water
  interests to tackle water banking and supply management.
- Speakers Bureau Approved: The board approved the creation of a speakers bureau to provide unified
  messaging about blueprint activities to community meetings, boards of supervisors, and other venues
  across the valley.
- Large Group Valley Meeting Planned: A major stakeholder meeting is being organized with Bureau of Reclamation's Acting Regional Director Adam Nickels as the headline speaker to discuss partnership opportunities and funding.

## Unified Water Plan for the San Joaquin Valley

The purpose of the Unified Valley Plan for the San Joaquin Valley is to identify and present possible solutions for long-term water needs in the San Joaquin Valley by bringing together existing water plans, strategies, and knowledge from across the San Joaquin Valley into one coordinated, valley-wide planning framework.

#### Bureau of Reclamation Report to Congress:

- Chapter 1. Introduction
- Chapter 2. Overview of the water resource needs and opportunities in the San Joaquin Valley.
- Chapter 3. Overview of flood risks and management in the San Joaquin Valley and opportunities for improving flood management.
- Chapter 4. Illustration of an environmental vision for the San Joaquin Valley and estimates of the water supplies needed to implement that vision.
- Chapter 5. Evaluation of a range of potential solutions.
- Chapter 6. Recommendations for a path forward and a roadmap for implementation. Includes policy recommendations.



Authority staff continues to recommend that Authority member agencies increase their engagement with the Blueprint Technical Committee to ensure accuracy and support of the work product being developed for the westside of the San Joaquin Valley.

Chapters 1 and 2 of the Plan are out for review and comment and are attached herein.

## San Joaquin Valley Water Collaborative Action Program (SJVW CAP)

#### Background

The CAP Plenary Group adopted work groups to implement the CAP Term Sheet<sup>7</sup>, adopted on November 22, 2022. During Phase II, Work Groups are continuing to meet and discuss priorities and drafting various documents for their respective areas: Safe Drinking Water; Sustainable Water Supplies; Ecosystem Health; Land Use, Demand Reduction and Land Repurposing; Implementation.

The Bureau of Reclamation is currently funding the CAP. This funding supports its management and facilitation of the overall CAP process and the development of a prioritization tool. The tool is envisioned to be used by CAP participants, federal and state agencies, other stakeholders, and the public to evaluate policy recommendations, programmatic changes, and projects to achieve sustainable water management in the San Joaquin Valley.

The Steering Committee created a subgroup and will review several prioritization tools developed by other organizations and use those examples to craft a work plan and initial set of criteria for consideration.

On a parallel track, the subgroup recommends that each caucus develop up to three top-priority actions that will advance the outcomes of the Term Sheet.

<sup>&</sup>lt;sup>7</sup> Request from Authority staff



# **ATTACHMENTS**

#### **Restoration Administrator Flow Recommendation**

**To:** Don Portz, Chad Moore, Regina Story

cc: Rain Emerson, Rufino Gonzalez, Gary Bobker, Steve Ottemoeller, Ian Buck-Macleod, TAC,

**FWC** 

Date: September 25, 2025

From: Tom Johnson, Restoration Administrator

Subject: Updated Recommendation for 2025 Restoration Flows

The following is a Restoration Flow Recommendation (Recommendation) by the Restoration Administrator (RA) for the 2025 Restoration Year Flows pursuant to the Restoration Flow Guidelines (RFG) Ver. 2.1, as amended, and Exhibit B of the Settlement.

#### **Background**

The SJRRP has issued a Final 2025 Restoration Allocation (Allocation) dated May 18, 2025, which designates 2025 as a **Normal-Dry** Water Year Type with an Unimpaired Inflow hybrid forecast of 1,346 thousand acre-feet (TAF) and provides an allocation of Restoration Flows of 269.355 TAF as measured at Gravelly Ford (GRF) based on the 50% exceedance forecast. The Allocation also specified certain contractual and operational constraints on Restoration Flow releases for 2025.

Since April, 448 Spring-Run Chinook salmon returned to the lower reaches of the Restoration Area and were captured in Program fyke nets. Of these captured salmon, 394 were successfully transferred to Reach 1 of the Restoration Area, by far the largest observed return under the SJRRP. As a result of this large return of salmon and the opportunity for observing reproductive success this fall, Restoration Flows were substantially reduced from early June through September to preserve cold water in Millerton Reservoir. At this time, water temperature modeling shows that there will be sufficient cold water to support the anticipated spawning and incubation periods in Reach 1 of the Restoration Area. Accordingly, Restoration Flows will resume forthwith.

#### Recommendation for the 2025 Restoration Year

At this time, I am recommending a flow schedule for the 2025 Restoration Year as shown in Table 1 and as described below. Restoration Flows will resume forthwith for the balance of the Restoration Year.

- 1. Increase flows at Friant Dam by 75 cfs per day on September 29, 30, and October 1st.
- 2. Adjust flows as required to achieve a target flow of 255 cfs (250 cfs of Restoration Flows plus 5 CFS of minimum flow) at GRF within 4 to 6 days, once flows have stabilized. Maintain the 255 cfs total flow target at GRF through November.
- 3. Increase flows to a target of 270 cfs of Restoration Flows/275 cfs total flows at GRF for December 1.
- Increase flows to a target of 300 cfs of Restoration Flows/305 cfs total flows at GRF for December 16.
- 5. Reduce flows to 250 cfs of Restoration Flows/255 cfs total flows at GRF for December 29, and maintain 255 cfs total flow at GRF through February 28, 2026.

No Restoration Flow recapture other than de-minimus amounts are planned in the Restoration Area. All Restoration Flow releases are to flow through the entirety of the Restoration Area. If there are operational or other constraints that preclude Restoration Flows traveling the entire length of the Restoration Area, the Restoration Flow Recommendation will be adjusted to reduce Restoration Flow releases to the level of the controlling operational constraint.

I have consulted with the TAC and the FMWG on this Recommendation, and this Recommendation reflects the best use of the Allocation of Restoration Flows for the fisheries resources at this time.

Table 1. Summary of Restoration Flow Recommendations for September 29, 2025, through February 28, 2026.

Restoration Flow Period	Date Range	Objective	Friant Release (est., varies due to Holding Contracts)	Restoration Flows at Gravelly Ford	Total Flow at Gravelly Ford <sup>1</sup>	Target Restoration Flow at Sack Dam (est.)
September Flow Increase	September 29 – October 1, 2025	Ramp up flows	Increase flows at Friant Dam 75 cfs/day for 3 days	As occurs	As occurs	As occurs
Enhanced Base Flow	Once stabilized at GRF, hold flows through November	Spring run spawning and egg incubation	As necessary, est. 440 cfs	250 cfs	255 cfs	As occurs
Enhanced Base Flow+ Fall Pulse	December 1 – 15, 2025	Spring run egg incubation.	As necessary, est. 450 cfs	270 cfs	275 cfs	175 cfs
Enhanced Base Flow+ Fall Pulse	December 16–28, 2025	Juvenile rearing	As necessary, est. 480 cfs	300 cfs	305 cfs	195 cfs
Base Flow	January 1– February 28, 2026	Juvenile rearing	As necessary, est. 400 – 410 cfs	250 cfs	255 cfs	157 cfs

<sup>&</sup>lt;sup>1</sup> Total Flow includes the minimum Holding Contract flows of 5 cfs required at Gravelly Ford

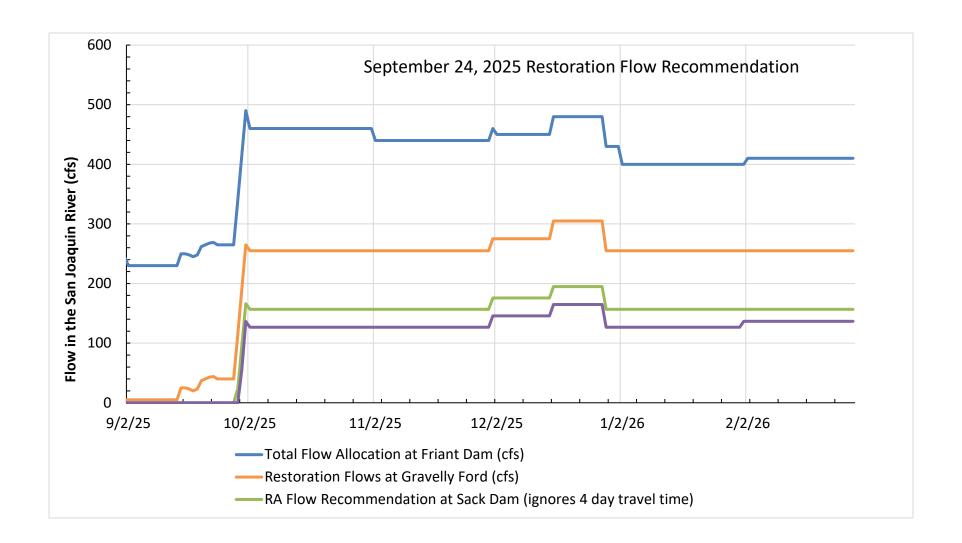
#### **Additional Elements of this Recommendation**

This Recommendation anticipates the release of the balance of Restoration Flows to the river. No additional URF's are anticipated this Restoration Year.

Depending on changing hydrologic and operations conditions, I will adjust or revise this Recommendation as necessary.

#### **Additional Consultation**

I will continue to coordinate with the TAC, Program Office, and Implementing Agencies to monitor hydrologic conditions, fish population conditions, uncontrolled season releases, operational conditions, and other factors, and will update the Restoration Flow Recommendation as conditions change.



# **Contents**

			Page
Chapter 1	Introduction		1
Backgrou	and		1
Study Au	thorization and 2016 Report		1
Need for	a Unified Water Plan		3
Objective	es of the Unified Water Plan		5
Organiza	tion of the Unified Water Plan		5
Chapter 2	Water Supply Problems, Needs, and Oppo	rtunities	7
Setting as	nd Historical Context		7
Existing	and Projected Future Conditions		12
In-Va	alley Surface Water Supplies		12
Impo	orted Surface Water Supplies		17
Grou	ındwater Supplies		20
Exist	ing Demands		26
Problems	s and Needs		28
Futu	re Water Supply-Demand Gap		28
Wate	er Supply Effects on Disadvantaged Communities	·	30
	strophic Risks		
Econ	nomic Considerations		31
Opportu	nities	*	31
Chapter 7	References	••••••	32

# **Figures**

Figure 1-1: Study area of the Unified Water Plan.	6
Figure 2-1: San Joaquin Valley Map Showing Hydrologic Regions, Counties, Groundwater Subbasins, Communities and Major Water Supply Infrastructure	11
Figure 2-2: Total Dissolved Salt Concentrations in the San Joaquin Valley.	22
Figure 2-3: Land Subsidence in the San Joaquin Valley from 1926 to 1970	24
Figure 2-4: Land Subsidence in the San Ioaquin Valley from 2015 to Present	2.5

# **Tables**

Table 2-1: Major Rivers of the San Joaquin Valley and the Downstream-Most Reservoir, With Subbasins Served	13
Table 2-2: Friant Division Contractors, Contract Amounts, Subbasins, and Delivery Points	14
Table 2-3: Estimated Water Supply Impacts of the San Joaquin River Restoration Program By Subbasin.	15
Table 2-4: Contributions by Participant to the Healthy Rivers and Landscapes Program	16
Table 2-5: Estimated Contributions by Subbasin to the Healthy Rivers and Landscapes Program.	16
Table 2-6: South-of-Delta State Water Project Contractors and Contract Amounts	18
Table 2-7: South of Delta Central Valley Project Contractors and Contract Amounts	19
Table 2-8: Estimated Annual Decrease in CVP and SWP Delta Imports by Subbasin due to Climate Change	20
Table 2-9: Estimated Historical Groundwater Extraction and Overdraft.	21
Table 2-10: Existing Annual Water-Supply Demand Gap in the San Joaquin Valley	26
Table 2-11: Projected Future Changes to Existing Annual Demands	27
Table 2-12: Total Projected Future Water Supply-Demand Gap in the San Joaquin Valley	29

# **Abbreviations and Acronyms**

AF acre-feet

cfs cubic feet per second CVP Central Valley Project

CVPIA Central Valley Project Improvement Act

Delta Sacramento and San Joaquin Rivers / San Francisco Bay-Delta

DMC Delta-Mendota Canal FKC Friant-Kern Canal FWA Friant Water Authority

MAF million acre-feet

MOU Memorandum of Understanding
NRDC Natural Resources Defense Council

Reclamation U.S. Department of the Interior, Bureau of Reclamation

Restoration Flow SJRRS Restoration Flow

SGMA Sustainable Groundwater Management Act SJRRP San Joaquin River Restoration Program

SLC San Luis Canal State State of California SWP State Water Project

SWRCB State Water Resources Control Board

TAF thousand acre-feet

USFWS United State Fish and Wildlife Service

<update>

# **Chapter 1 Introduction**

# **Background**

The San Joaquin Valley in California, one of the most productive agricultural regions in the world, is an important contributor to the state and national economies and a cornerstone of national food security. The eight-county region includes seven of the top 10 agricultural producing counties in the nation. Agricultural production in the San Joaquin Valley depends almost exclusively on irrigation, which requires reliable and sustainable water supplies. Over the past century, significant coordinated local, state, and federal investments have been made to develop a complex water supply and flood management system that enabled the development of expansive agriculture. Water supplies include groundwater, local surface water, imported surface water, that are captured and managed through an extensive network of water storage and conveyance facilities.

During the 20<sup>th</sup> century, the development of water supply facilities was coordinated with the construction of flood management infrastructure to provide the dual benefits of water reliability and flood protection for farms and cities. Today, it is evident that existing uses of water far exceed the sustainability of existing supplies for a variety of reasons. Over the past few decades, much of the developed water supply has become subject to a complex regulatory framework that constrains supply availability, triggering changes in agricultural practices and growing patterns. Hydrologic conditions that exceed the variability anticipated at the time of facility design have occurred and are projected to become more variable, further limiting the ability to develop reliable water supplies with existing facilities. Simultaneously, the importance of a healthy ecosystem has become more widely recognized and communities throughout the Valley are seeking opportunities to develop sustainable habitats. To address the inter-related needs of this vibrant region, bold and creative solutions, including significant new investments in water infrastructure, are needed to adapt and expand water systems in the San Joaquin Valley for today and future generations. This Unified Water Plan (Plan) evaluates water resources problems and needs and proposes a vision for prioritized investments.

# **Study Authorization and 2016 Report**

Authorization to prepare this Plan is provided in Public Law (PL) 111-11, also known as the Omnibus Public Land Management Act of 2009, which included the San Joaquin River Restoration Settlement (Settlement) and related items. Part II of the Settlement, titled "Study to Develop Water Plan", authorized the United States Department of the Interior, Bureau of Reclamation (Reclamation) to provide funding to the California Water Institute at California State University, Fresno (CWI) to "conduct a study regarding the coordination and integration of sub-regional integrated regional water management plans into a unified Integrated Regional Water Management Plan ... [addressing] issues related to (A) water quality; (B) water supply; (C) water conveyance; (D)

water reliability; (E) water conservation and efficient use; (F) flood control; (G) water resource-related environmental enhancement; and (H) population growth." The legislation specified a study area for the San Joaquin River and the Tulare Lake hydrologic regions including the counties of Kern, Tulare, Kings, Fresno, Madera, Merced, Stanislaus, and San Joaquin. The objective of study is to "address and solve long-term water needs in a sustainable and equitable manner." At the time of the legislation, the dominant mechanism for reginal water planning in the San Joaquin Valley was based on the preparation of Integrated Regional Water Management (IRWM) plans.

In 2016 CWI prepared a preliminary draft Integrated Regional Water Management Plan for the San Joaquin Valley of California (2016 Report) in response to PL 111-11. The 2016 Report summarized the IRWM that has been prepared by regional groups covering the study area, and identified other water management actions that involve the San Joaquin Valley in the topics identified in PL 111-11. The 2016 preliminary draft Plan also made several recommendations to expand regional collaboration in support of water management throughout the San Joaquin Valley. Some key findings in the 2016 preliminary draft Plan highlight the needs for greater integrated water management, clear and achievable goals, consideration of environment water needs, and to identify what is possible. The 2016 preliminary draft Plan concluding that the region was beginning to collaborate water management planning and offered the following findings and recommendations:

- The greatest issue throughout the San Joaquin Valley is water supply reliability, from both surface water and groundwater sources, which varies depending on the location.
- Lack of information and integration of management plans for water sources impedes the development of comprehensive water budgets for the regions. Without water source management and water budgets, uncertainty will likely continue, and water sustainability will remain an elusive goal.
- The introduction of integrated regional water management planning fostered significant improvements in water management by aggregating partners in sub-regions and implementing activities that provide lasting improvements.
- Future efforts need increased technical, legal and institutional investigation efforts on water sources and the landscapes that provide the sources. The entire watershed areas, their terrestrial and aquatic ecosystems and other critical portions of the landscape represent a gap that must be included in future organizational schemes inasmuch as the lack of clear and achievable goals with measurable outcomes for natural water uses will likely continue to add to the uncertainty of water availability for direct uses.
- CWI recommends augmenting integrated regional water management planning needs with
  integrated basin watershed planning and management that includes advanced system
  oversight and professional management structures that can accomplish the work of
  holistically assessing and managing all of the natural landscapes, the water sources and all the
  uses with an institutional arrangement that includes the entire watershed system.

- The San Joaquin Valley could benefit from additional institutional mechanisms to fairly administer the findings and recommended management strategies of that assessment.
- The greatest challenge for the San Joaquin Valley is to determine what the Valley watershed systems can support after all the water sources, needs and uses are calculated and management strategies optimized.

The 2016 Report does not provide specifics on what the needs are for the San Joaquin Valley in the topic areas identified. Rather it suggests "almost all of the new (project) additions are in the early stages of their implementation and need to develop further to assess their management impacts. Therefore, developing a more comprehensive strategy for the entire San Joaquin Valley remains only a goal at this time." Recognizing these earlier findings, this Unified Valley plan seeks to develop an integrated water plan for the Valley that identifies what is possible thereby reducing uncertainty and enabling resources to be focused on where they can provide the greatest benefit. This report endeavors to present a comprehensive water management strategy for the entire San Joaquin Valley.

#### **Need for a Unified Water Plan**

During the years since the enactment of PL 111-11 and preparation of the 2016 preliminary draft Plan, important developments occurred that significantly affect water management and planning in the San Joaquin Valley, necessitating an update to the 2016 preliminary draft Plan, including:

- A severe drought from 2012-2016 resulted in unprecedented water delivery reductions to water users throughout the San Joaquin Valley and elsewhere in California. The effects of this historic drought were not addressed in the 2016 preliminary draft Plan.
- The California Sustainable Groundwater Management Act (SGMA) was enacted in 2014.
   SGMA requires the formation of local Groundwater Sustainability Agencies (GSAs) that are responsible for developing and implementing Groundwater Sustainability Plans (GSPs) to achieve long-term groundwater sustainability. Achievement of sustainable groundwater management in the San Joaquin Valley will require significant reductions in groundwater use.
- Reclamation prepared the Sacramento and San Joaquin River Basins Study in 2016, which
  identified the potential consequences of forecasted climate change to water supply reliability
  in the Central Valley. The Basin Study recommended several strategies to improve the
  development and management of local water supplies to meet water demands, however it
  did not anticipate the long-term effects of SGMA compliance.
- Reclamation prepared the San Joaquin River Restoration Program Water Management Goal
  Investment Strategy, which identified local projects that would be beneficial in reducing or
  avoiding water supply impacts resulting from the release of Restoration Flows to the San
  Joaquin River.

- GSAs throughout the San Joaquin Valley submitted initial GSPs in 2020 that describe long-term groundwater sustainability objectives and identified potential projects and management actions that may be implemented to achieve those objectives. Most GSAs reviewed projects specified in the IRWM plans and made modifications and supplements in developing the GSPs. While SGMA now elevated water planning to the subbasin level, coordination, and integration between subbasins in the San Joaquin Valley is still lacking.
- Some IRWM plans were updated since 2016, however most updates pre-date the submission of initial GSPs.
- The California Department of Water Resources (DWR), in partnership with State Water Project contractors, is evaluating the Delta Conveyance Project, which would alter the timing and volume of water exported from the Delta to the San Joaquin Valley and Southern California.
- DWR prepared the Central Valley Flood Protection Plan update in 2022.
- The California Water Commission authorized funding for the public benefits to be provided by proposed water storage projects that may affect water supply availability in the San Joaquin Valley, including the Sites Project (Sites Reservoir), the Kern Fan Groundwater Storage Project, and the Willow Springs Water Bank Conjunctive Use Project (CWC 2025).
- The Water Blueprint for the San Joaquin Valley (the Blueprint) was formed to identify water resource policies and projects that maximize accessible, affordable, and reliable supplies for sustainable and productive farms and ranches, healthy communities, and thriving ecosystems in the Valley. The Blueprint comprises community leaders, businesses, water agencies, local governments, and agricultural representatives working together to advance a common vision of water solutions for the region. The Blueprint encompasses the eight counties listed in the authorizing legislation and serves as a united voice to champion water resource policies and projects that can maximize accessible, affordable, and reliable supplies for sustainable and productive farms and ranches, healthy communities, and thriving ecosystems in the San Joaquin Valley.
- The Blueprint prepared preliminary technical studies on potential new infrastructure including new fish-friendly diversions in the Delta and conveyance facilities for the distribution of additional Delta water supplies.
- Numerous other studies on water supply availability, economic conditions, and potential land retirement implications of SGMA compliance were prepared by the Public Policy Institute of California (PPIC) and other entities, including Federal, State, and local agencies.

## **Objectives of the Unified Water Plan**

The purpose of this Plan is to build on the 2016 preliminary draft Plan to meet the requirements of the PL 111-11 authorization and recognize the important recent developments listed above. The goal of the Plan is to identify current and future water resources problems, needs and opportunities in the San Joaquin Valley, and present possible solutions and a potential path towards implementation of various solutions. This Plan is being developed to help communities, farmers, and public agencies collaborate to solve shared water challenges - including groundwater overdraft, water quality degradation, flood risk, and environmental stress - while preparing for changing conditions. Specific objectives of the Plan are to:

- Identify the current and projected water related problems, needs and opportunities in the San Joaquin Valley related to the topics specified in PL 111-11.
- Identify and evaluate possible solutions to address the identified problems, needs and opportunities.
- Identify a road map for implementation.

The Study Area for this Plan is defined as the San Joaquin River Hydrologic Region and Tulare Lake Hydrologic Region, with a focus on the 8 counties identified in PL 111-11: Kern, Tulare, Kings, Fresno, Madera, Merced, Stanislaus, and San Joaquin (Figure 1-1). For the purposes of this report, the Study Area is further delineated into subbasins consistent with the groundwater basins defined in California's Groundwater (Bulletin 118). These subbasins represent areas that must be sustainable (i.e., in groundwater balance) for compliance with SGMA. This organizational approach aligns this Plan with content of the GSPs.

# **Organization of the Unified Water Plan**

This Plan includes the following chapters:

Chapter 1 – Introduction

Chapter 2 – Water Supply Problems, Needs, and Opportunities

Chapter 3 – Flood Management Problems, Needs, and Opportunities

Chapter 4 – Environmental Problems, Needs, and Opportunities

Chapter 5 – Potential Projects

Chapter 6 – Project Portfolios and Implementation

Chapter 7 – References

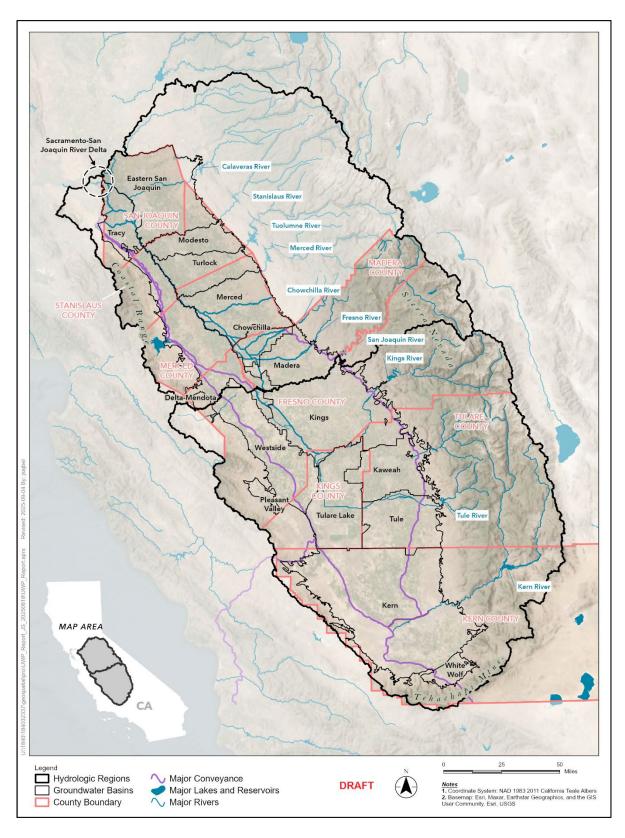


Figure 1-1: Study area of the Unified Water Plan.

# Chapter 2 Water Supply Problems, Needs, and Opportunities

## **Setting and Historical Context**

The San Joaquin Valley in California is bound by the Sacramento-San Joaquin River Delta (Delta) on the north, the Tehachapi Mountains on the south, the Coastal Range on the west, and the Sierra Neveda Mountains on the east (Figure 2-1). Prior to European settlement, the San Joaquin Valley was comprised primarily of grasslands and aquatic features like wetlands, riparian corridors, floodplains, ponds, and lakes, which were fed by rivers and streams originating in the Sierra Nevada Mountains and the Coastal Range. The region included diverse environmental features dominated by rivers and floodplains that supported salmon spawning and rearing, extensive bird habitat along the Pacific Flyway, and upland habitat. A key feature was Tulare Lake, which was the largest natural lake west of the Mississippi River. Early inhabitants included Native Americans and Spanish settlers. European settlement accelerated in the mid-19th century primarily driven by westward migration following the California Gold Rush.

Large-scale agricultural development in the San Joaquin Valley began in the late 19th century with European settlement and relied principally on groundwater. At the time of early development, groundwater flowed through artesian wells in some areas. As development progressed, groundwater levels began to decline and extraction was accelerated by the use of deep well turbines. Groundwater use was supplemented by surface water diverted from local streams and rivers under both riparian and appropriative water rights. Land was leveled and cultivated as agricultural development expanded. Local irrigation districts were formed to manage water resources and finance water supply projects. Despite local investments to develop projects for the conjunctive managing of surface and groundwater resources, groundwater remained the primary water supply source in the San Joaquin Valley through the early 20th century.

The cumulative effects of groundwater extraction in the San Joaquin Valley became apparent by the early 20th century and included declining groundwater levels and regional land subsidence. Subsidence occurs when the water suspending fine-grained sediments is extracted faster than it is replenished and the sediments compact, resulting in lowering of the land surface. In response, beginning in the early 20th century, significant local, state, and federal investments were made to develop infrastructure projects that capture, store, and convey in-valley surface water supplies, provide flood protection, and provide access to imported water supplies. Investments continued through the mid- to late-20th century and resulted in the construction of major water supply and flood control projects including the Central Valley Project (CVP) operated by the United States Bureau of Reclamation (Reclamation), the California State Water Project (SWP) operated by the California Department of Water Resources (DWR), and numerous flood control reservoirs operated by the Army Corps of Engineers (Army Corps) (Figure 2-1).

The Friant Division was constructed in the 1940s and 50s as initial features of the CVP to increase surface water deliveries on the eastside of the San Joaquin Valley, and includes Friant Dam, the Madera Canal, and the Friant-Kern Canal (FKC). Friant Dam created Millerton Lake, which has a storage capacity of 0.5 million acre-feet (AF), on the San Joaquin River. Water is conveyed north from Millerton Lake to Chowchilla via the Madera Canal, and south from Millerton Lake to Bakersfield via the FKC. The FKC has a design capacity at its headworks of 5,300 cubic feet per second (cfs) and reduces to 2,500 cfs at its terminus to accommodate conveyance for downstream water. Other initial features of the CVP included Shasta Dam and Reservoir on the Sacramento River, the Delta Cross-Channel, the Jones Pumping Plant, the Delta-Mendota Canal (DMC) and the Contra Costa Canal. The DMC is used to delivery water supplies exported through the Delta to senior water right holders along the San Joaquin River downstream from Friant Dam.

New Melones Dam, constructed on the Stanislaus River on the eastside of the San Joaquin Valley in 1980, created New Melones Lake with a storage capacity of 2.4 MAF. New Melones Lake is the principal feature of the New Melones Unit, which provides flood control and water supply benefits on the Stanislaus River and is operated for water quality objectives in the San Joaquin River as it enters the Delta.

On the westside of the San Joaquin Valley, CVP and SWP facilities were constructed to increase the delivery of Sacramento Valley surface water supplies exported through the Delta. The DMC, San Luis Reservoir, and the San Luis Canal are features of the CVP on the westside of the San Joaquin Valley. The DMC was constructed in the 1940s and 50s to convey water from the Delta to Mendota Pool on the San Joaquin River. San Luis Reservoir (SLR) and the San Luis Canal (SLC) were constructed in the 1960s as joint use facilities of the SWP and CVP. SLR has a storage capacity of 2.0 MAF and stores water delivered from the Delta via the DMC and the California Aqueduct. San Luis Reservoir. The SLC delivers water directly to CVP contractors in the San Joaquin Valley and conveys SWP water supplies to the California Aqueduct for delivery to SWP contactors in the San Joaquin Valley, along the Central Coast, and in Southern California.

During approximately the same time as Reclamation developed the CVP and the State developed the SWP, significant federal investments were made to construct flood control reservoirs on the eastside of the San Joaquin Valley. Several reservoirs constructed by the Army Corps provide water supplies to local water agencies. Pine Flat Reservoir (1.0 MAF) was constructed on the Kings River, Lake Kaweah (0.18 MAF) was constructed on the Kaweah River, Lake Success (0.08 MAF) was constructed on the Tule River, and Isabella Lake (0.57 MAF) was constructed on the Kern River. The Kings, Kaweah, and Tule Rivers all flow into Tulare Lake, which has been drained, cultivated, and only fills in the wettest of years. The Fresno Slough and James Bypass were developed to convey flood water from the Kings River to the San Joquin River. The Kern River drains into the southern San Joaquin Valley towards Buena Vista Lake and Kern Lake, which have also been drained and cultivated.

The establishment of local irrigation districts began in the late 19th century and expanded in scope and extent over time. These districts developed locally owned storage and conveyance projects to provide surface water supplies that in many cases supplement groundwater resources. As a result of the complex overlay of water supply development projects, many areas of the San Joaquin Valley

have access to multiple sources of water supply including local, CVP, and/or SWP water supplies, while other areas are fully reliant on groundwater. Some locally-owned projects are also used to convey regional water supplies. For example, the Cross Valley Canal was constructed by the Kern County Water Agency to provide conveyance between the California Aqueduct and the city of Bakersfield in Kern County. It flows bidirectionally and includes an intertie with the Friant-Kern Canal. In addition, Patterson Irrigation District and Banta Carbona Irrigation District have locally owned water distribution systems that are be used to convey water supplies from the San Joaquin River to the DMC.

By the mid- to late-20th century, the major local, state, and federal water supply facilities used to deliver local and imported water supplies to the San Joaquin Valley were largely in-place and helped establish the San Joaquin Valley as one of the strongest agricultural regions in the world. This coincided with the dawn of emerging social values that recognized the environmental value of water resources and enacted laws and regulations to allocate water supplies in consideration of environmental needs. The application of environmental protections to existing water supply projects reduced the availability of water supplies for agricultural, municipal and industrial uses in the San Joaquin Valley. A summary of key environmental protection actions that have affected water supply reliability to the San Joaquin Valley include:

- 1978 the California State Water Board issued Decision D-1485, the first Bay-Delta Water Quality Control Plan, to regulate and protect water quality in the Delta.
- 1989 the Sacramento River winter-run chinook salmon was listed as endangered under the federal Endangered Species Act (ESA) of 1973.
- 1992 The Central Valley Project Improvement Act (CVPIA) was enacted to protect fish and wildlife species in the Central Valley. The CVPIA allocates 800,000 acre-feet of CVP water supply annually for anadromous fish restoration, requires delivery of water supplies to wildlife refuges in the Central Valley, and specifies flows to be met on the Trinity River that reduce supplies available for transfer to the Central Valley.
- 1993 the Delta Smelt was listed as endangered under the federal ESA, and its critical habitat was designated in 1994.
- 1994 The Bay-Delta Accord was signed the California State Water Board issued Decision D-1641, an updated Bay-Delta Water Quality Control Plan, which established water quality standards and operational constraints in the Delta (State Water Board 2020).
- 2006 The San Joaquin River Restoration Settlement, an agreement between U.S.
  Departments of the Interior and Commerce, the Natural Resources Defense Council
  (NRDC), and the Friant Water Users Authority (FWUA), was approved by the court. The
  Settlement, which followed an 18-year lawsuit, is based on two goals: (1) restore and
  maintain fish populations in the San Joaquin River below Friant Dam, and (2) reduce or
  avoid adverse water supply impacts to Friant Division contractors.

- 2009 Congress authorized the San Joaquin River Restoration Program (SJRRP) to implement the provisions of the SJRRS Since 2009, the SJRRP, has implemented habitat restoration and fish reintroduction activities in the San Joaquin River, but channel capacity constraints have limited the implementation of Restoration Flows (which are sourced from water that would otherwise be delivered to Friant Division contractors).
- 2009 The update to the Bay-Delta Water Quality Control Plan initiated the Healthy Rivers and Landscapes Program (also referred to as "Voluntary Agreements"), a collaborative effort between water users and state agencies to enhance ecological conditions and water supply reliability in California's major river systems. Key goals relevant to the San Joaquin Valley include increasing environmental flows in the Delta watershed by over 800,000 acre-feet in wet years and restoring 45,000 acres of aquatic habitat. A 2022 memorandum of understanding (MOU) formalized commitments from several agencies, including Reclamation and the Friant Water Authority (which operates and maintains the FKC and Madera Canal), though some San Joaquin River tributary water rights holders, such as those on the Merced and Tuolumne Rivers, did not sign (HRLP 2022). As a result, contributions from these tributaries remain uncertain, and the update to the Bay-Delta Plan Water Quality Control Plan is under litigation.

The regulation of local streams. rivers and the Delta through actions described above resulted in progressive reductions in water supply reliability to agricultural water users in the San Joaquin Valley. As water supplies became more scarce, the value of water increased, particularly during dry periods. This trend coincided with advancements in irrigation technology and the growth of global markets, which incentivized agricultural investments to plant a greater percentage of permanent crops, such as trees and vines, that further hardened water demand and increased reliance on groundwater supplies. Continued unsustainable groundwater extraction in the late 20th and early 21st centuries resulted in additional adverse effects like increases in regional land subsidence, dewatering of domestic and small community wells, and degraded groundwater quality, which significantly impact disadvantaged communities in the San Joaquin Valley. In recognition of the adverse effects of groundwater overdraft throughout California and particularly in the San Joaquin Valley, the State of California enacted the Sustainable Groundwater Management Act (SGMA) in 2014. SGMA requires that critically over-drafted groundwater subbasins (including most subbasins in the San Joaquin Valley) achieve sustainable groundwater management by 2040.

Today, despite the regulatory constraints identified above, the San Joaquin Valley boasts a vibrant economy based largely on agriculture. Seven of the top 10 highest producing agricultural counties in the United States are in the San Joaquin Valley (which represent 7 of the 8 counties of this Plan). Many of the farms grow high value permanent crops like citrus, grapes, tree nuts, and stone fruits. Residents live in urban areas, such as Bakersfield, Fresno, Stockton, and many smaller towns and communities.

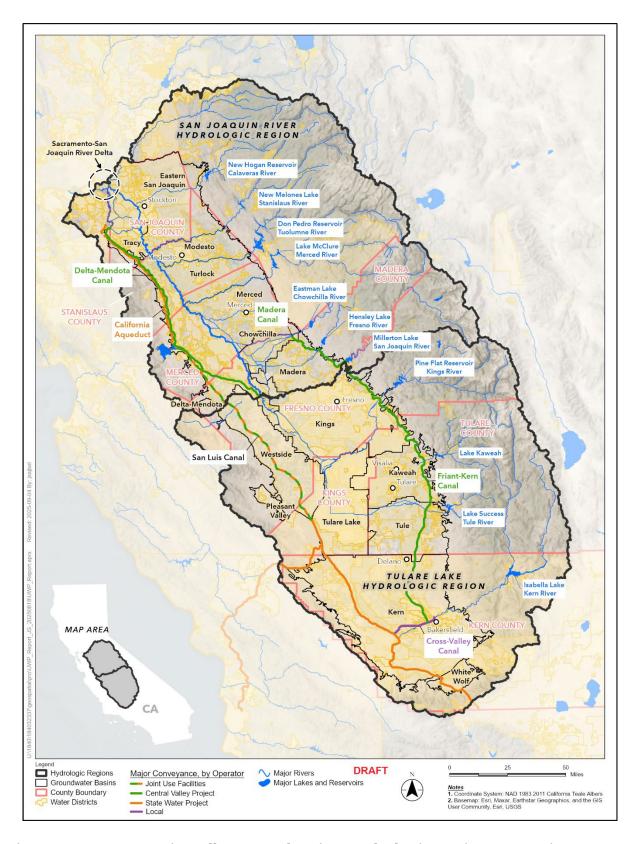


Figure 2-1: San Joaquin Valley Map Showing Hydrologic Regions, Counties, Groundwater Subbasins, Communities and Major Water Supply Infrastructure.

## **Existing and Projected Future Conditions**

This section describes the existing and projected future conditions for each of the three major water supply sources in the San Joaquin Valley: (1) in-valley surface water supplies from rivers and streams; (2) local groundwater supplies; and (3) imported water supplies from the Delta. It then describes existing demands and how those are forecasted to change in the future. This information is then used to quantify the projected future water supply-demand gap (i.e., shortage of supplies to meet existing demands) in the San Joaquin Valley. Later chapters present opportunities to address flood management and environment water resources issues, while implementing water supply projects to address the water supply-demand gap.

#### **In-Valley Surface Water Supplies**

In-valley surface water supplies are sourced primarily from rivers and streams that originate in the Sierra Nevada Mountains. The major rivers (from north to south) in the San Joaquin Hydrologic Region are the: Mokelumne, Calaveras, Tuolumne, Merced, Chowchilla, Fresno and San Joaquin, and the major rivers (from north to south) in the Tulare Lake Hydrologic Region are the: Kings, Kaweah, Tule and Kern (Figure 2-1). The average annual full natural flow for each major river, as well as the 90 and 10 percent exceedance, and the downstream-most storage facility are shown in Table 2-1. It is important to note that smaller streams originating in the Sierra Nevada Mountains and Coastal Range supplement water supplies from these major rivers. In addition, storage facilities upstream from locations listed in Table 2-1 provide storage capacity that is used to regulate flows into reservoirs listed in Table 2-1. Water on the major rivers originating in the Sierra Nevada Mountains is of generally high quality with the exception of elevated levels of suspended sediments during high flow events.

Management of the San Joaquin Valley's rivers and streams is accomplished through a cooperative system involving some or all the following entities: Reclamation, Army Corps, State Water Resources Control Board (State Water Board), local agencies, and other entities. Most of the major rivers on the eastside of the San Joaquin Valley listed in Table 2-1 are managed jointly for flood control, water supply, and other benefits (e.g., recreation and power generation). Local water agencies and irrigation districts hold water rights and contracts, and flows are managed jointly by locals and Reclamation or the Army Corps. The San Joaquin River is unique because of Reclamation's ownership of the Friant Division of the CVP, which provides in-valley surface water supplies to multiple basins. The Friant Division supplies approximately 2.2 million acre-feet (MAF) of contracted water from the San Joaquin River via Millerton Lake to water districts and municipalities from Madera County to Kern County (FWA 2013, Table 2-2). Reclamation owns Friant Dam, Madera Canal, and FKC, but the Friant Water Authority (FWA) operates and maintains the FKC. FWA is made up of local water agencies and districts with CVP contracts, which are responsible (in part) to pay operations and maintenance costs. Changes to existing management and operations of in-valley surface water supplies in the future will be driven by three primary sources: implementation of the SJRRP, the Healthy Rivers and Landscapes Program, and long-term hydrologic variability.

Table 2-1: Major Rivers of the San Joaquin Valley and the Downstream-Most Reservoir, With Subbasins Served.

	Full Na	atural Flow	(TAF)		Storage	
River	Average Annual	90% Exceed.	10% Exceed.	Reservoir	Capacity (TAF)	Subbasins Served
Mokelumne	736	271	1417	Camanche	417	East San Joaquin
Calaveras	167	33	387	New Hogan	317	East San Joaquin
Stanislaus	1,178	408	2,250	New Melones	2,400	Modesto East San Joaquin
Tuolumne	1,910	820	3,620	New Don Pedro	2,030	Turlock Modesto
Merced	974	325	1,971	McLure	1,025	Merced
Chowchilla	75	6	197	Eastman	150	Chowchilla
Fresno	83	16	212	Hensley	90	Madera
San Joaquin	1,804	743	3,403	Millerton	520	Chowchilla Madera Kings Kaweah Tule Kern
Kings	1,699	681	3,293	Pine Flat	1,000	Kings Tulare Lake
Kaweah	447	149	931	Kaweah	186	Kaweah
Tule	146	33	364	Success	82	Tule
Kern	727	220	1,550	Isabella	568	Kern
Total	9,945	3,704	19,595	Total	8,785	

Notes:

Full natural flow statistics calculated from data available via the California Nevada River Forecast Center (NOAA 2025).

**Table 2-2: Friant Division Contractors, Contract Amounts, Subbasins, and Delivery Points.** 

Water District	Class 1	Class 2	Total Contract	Subbasin	Delivery Point	
Water District	(TAF)	(TAF)	(TAF)	Jubbasiii		
Chowchilla WD	55.00	160.00	215.00	Chowchilla	Madera Canal	
Madera ID	85.00	186.00	271.00	Madera	Madera Canal	
Gravelly Ford WD	0.00	14.00	14.00	Madera	San Joaquin River	
Madera County - M&I	0.20	0.00	0.20	Madera	Millerton Reservoir	
Fresno CWWD #18 - M&I	0.15	0.00	0.15	Kings	Millerton Reservoir	
Garfield WD	3.50	0.00	3.5	Kings	Friant-Kern Canal	
City of Fresno - M&I	60.00	0.00	60.00	Kings	Friant-Kern Canal	
International WD	1.20	0.00	1.2	Kings	Friant-Kern Canal	
Fresno ID	0.00	75.00	75.00	Kings	Friant-Kern Canal	
Tri Valley WD	0.40	0.00	0.40	Kings	Friant-Kern Canal	
Orange Cove ID	39.20	0.00	39.20	Kings	Friant-Kern Canal	
Hills Valley ID	1.25	0.00	1.25	Kings	Friant-Kern Canal	
City of Orange Cove - M&I	1.40	0.00	1.40	Kings	Friant-Kern Canal	
Stone Corral ID	10.00	0.00	10.00	Kaweah	Friant-Kern Canal	
Ivanhoe ID	6.50	0.50	7.00	Kaweah	Friant-Kern Canal	
Tulare ID	30.00	141.00	171.00	Kaweah	Friant-Kern Canal	
Kaweah Delta WCD	1.20	7.40	8.60	Kaweah	Friant-Kern Canal	
Exeter ID	11.10	19.00	30.10	Kaweah	Friant-Kern Canal	
Lewis Creek WD	1.20	-	1.20	Kaweah	Friant-Kern Canal	
Lindsay Strathmore ID	27.50	-	27.50	Kaweah	Friant-Kern Canal	
City of Lindsay - M&I	2.50		2.50	Kaweah	Friant-Kern Canal	
Lindmore ID	33.00	22.00	55.00	Kaweah	Friant-Kern Canal	
Porterville ID	15.00	30.00	45.00	Tule	Friant-Kern Canal	
Lower Tule River ID	61.20	238.00	299.20	Tule	Friant-Kern Canal	
Pixley ID	0.00	0.00	0.00	Tule	Friant-Kern Canal	
Saucelito ID	21.50	32.80	54.30	Tule	Friant-Kern Canal	
Tea Pot Dome WD	7.20	-	7.20	Tule	Friant-Kern Canal	
Terra Bella ID	29.00	-	29.00	Tule	Friant-Kern Canal	
Delano-Earlimart ID	108.80	74.50	183.30	Tule	Friant-Kern Canal	
Kern - Tulare ID	0.00	5.00	5.00	Tule	Friant-Kern Canal	
Southern San Joaquin MUD	97.00	45.00	142.00	Kern	Friant-Kern Canal	
Shafter-Wasco ID	50.00	39.60	89.60	Kern	Friant-Kern Canal	
Arvin-Edison WSD	40.00	311.68	351.68	Kern	Friant-Kern Canal	
Total	800.00	1,401.48	2,201.48			
Total served by FKC	659.65	1,041.48	1,701.13			

Key:

CWWD- County Water Works District, FKC – Friant, Kern Canal, ID- Irrigation District, TAF- thousand acre feet, WSD- Water Storage District, WCD – Water Conservation District, WD – Water District, M&I – Municipal & Industrial

#### San Joaquin River Restoration Program

The SJRRP was codified in 2009 and is a collaborative effort that seeks to restore flows and fish populations to the San Joaquin River. However, channel capacity constraints in the San Joaquin River have limited the implementation of Restoration Flows, which are sourced from water that would otherwise be delivered to local agencies and irrigation districts within the Friant Division that hold CVP contracts (herein referred to as Friant Division Contractors). Restoration Flow requirements are defined in a flow hydrograph in Exbibit B of the Settlement and average 320,000 acre-feet per year but vary by water year type (NRDC et al. 2006). The current SJRRP flow hydrograph, referred to as the funding constrained hydrograph, differs from the hydrograph in Exhibit B because it reduces peak flows and spreads flows over longer periods to meet existing channel capacity constraints. Increased releases of Restoration Flows consistent with Exhibit B will occur as channel capacity improvements are implemented by the SJRRP.

Even though full implementation of the SJRRP has not been realized, Restoration Flow releases have impacted water supplies available to the Friant Division. As these impacts have occurred, per the SJRRP objectives, Reclamation has actively helped reduce water delivery impacts by facilitating and/or participating in the following activities: recapture, recirculation, exchange, transfer, and reuse of Restoration Flows; delivery of wet year water supplies based on quantified impacts of reduced deliveries as recorded in the Recovered Water Account; construction of groundwater recharge facilities; and other activities. Additional projects will be needed to advance and expand these activities in the future to minimize water delivery impacts, especially with full implementation of the SJRRP. The average annual decrease in available water supplies to Friant Division contractors is estimated to be 254 TAF per year at full implementation of the SJRRP including a 39 TAF per year reduction to Class 1 supplies and a 215 TAF per year reduction to Class 2 supplies (Reclamation 2011). The impacts to future water supplies were allocated to each subbasin using the percentage of Class 1 and Class 2 contract amounts in each subbasin (Table 2-3).

Table 2-3: Estimated Water Supply Impacts of the San Joaquin River Restoration Program By Subbasin.

Subbasin	Class 1 (TAF)	Class 2 (TAF)	Class 1 (% of Total Class 1)	Class 2 (% of Total Class 2)	Full Implementation of SJRRP* (TAF/yr)
Chowchilla	55.00	160.00	6.88%	11.42%	27
Madera	85.20	200.00	10.65%	14.27%	35
Kings	107.10	75.00	13.39%	5.35%	17
Kaweah	123.00	189.90	15.38%	13.55%	35
Tule	242.70	380.30	30.34%	27.14%	70
Kern	187.00	396.28	23.38%	28.28%	70
Total	800.00	1401.48	100%	100%	254

Notes:

Key:

TAF- thousand acre-feet, TAF/yr- thousand acre-feet per year, SJRRP- San Joaquin River Restoration Program

<sup>\*</sup> Assumes long-term average annual contribution of 39 TAF per year from Class 1 supplies and 215 TAF per year from Class 2 and 215 supplies. Rounded to the nearest 1 TAF per year

#### **Healthy Rivers and Landscapes Program**

The Healthy Rivers and Landscapes Program is currently being negotiated. However, the MOU signed in 2022 outlines the terms and obligations including flow contributions from the San Joaquin River Basin, Friant Division, and other sources (HRLP 2022; Table 2-4). As mentioned previously, the MOU includes placeholders for contributions for the San Joaquin tributaries because water rights holders on those rivers did not sign the MOU. Here, the projected water supply impacts of the Healthy Rivers and Landscapes program are estimated for each subbasin using several assumptions (Table 2-5). Friant's obligation of 50 thousand acre-feet (TAF) per year in dry, below normal and above normal water year types was allocated to contractors using the same allocation as for the SJRRP and then aggregated to the subbasin level. The contribution of the SWP and CVP to Healthy Rivers and Landscapes is an export reduction of 125 TAF in dry and below normal years and a reduction of 175 TAF in above normal years. For modeling purposes, these reductions have been allocated equally among the SWP and CVP. The San Joaquin River Basin obligation to Healthy Rivers and Landscapes was allocated to the Stanislaus River but with reservoir reoperation on the Tuolumne and Stanislaus Rivers to regulate water historically leaving the subbasin to achieve a desired release schedule. The estimated water supply impacts for entities in the San Joaquin Valley average 68 TAF acre-feet/year.

Table 2-4: Contributions by Participant to the Healthy Rivers and Landscapes Program.

	Water	Water Year Type & Frequency						
Water Source	С	D	BN	AN	W	Weighted	Obligation	
	15%	22%	17%	14%	32%	Average		
	[TAF]	[TAF]	[TAF]	[TAF]	[TAF]	[TAF]		
CVP/SWP Export Reduction	0	125	125	175	0	73.25	50/50 SWP/CVP	
Friant	0	50	50	50	0	26.50	Friant Contractors	

Source: https://resources.ca.gov/-/media/CNRA-Website/Files/NewsRoom/Voluntary-Agreement-Package-March-29-2022.pdf

Table 2-5: Estimated Contributions by Subbasin to the Healthy Rivers and Landscapes Program.

Subbasin	Contributions [TAF]							
	SJR Tributaries	Friant	SWP	CVP	Total			
Eastern San Joaquin	0	0	0	0	0			
Tracy		0	0	1	1			
Delta-Mendota		0	0.05	8.09	8			
Modesto	0	0	0	0	0			
Turlock	0	0	0	0	0			
Merced	0	0	0	0	0			
Chowchilla		2.82	0	0	3			

Madera	3.61	0	0	4
Westside	0	0	18.53	19
Pleasant Valley	0	0	0	0
Tulare Lake	0	1.36	0	1
Kings	1.73	0	0.85	3
Kaweah	3.76	0	0.08	4
Tule	7.27	0	0.99	8
Kern	7.32	8.88	0.85	17
White Wolf	0	0	0	0
Total	26.51	10.29	30.39	68

Notes

SWP is 50% of the 73.25 and then allocated to contractors by Table A contract amounts, of which approximately 25% are in the San Joaquin Valley

CVP is 50% of the 73.25 and then allocated to contractors by South of Delta amounts, of which approximately 83% are in the San Joaquin Valley

#### Hydrologic Variability

Forecasted warmer temperatures and associated changing precipitation patterns will affect water demands and in-valley surface water supplies. Forecasted warmer temperatures will directly increase evapotranspiration and, consequently, irrigation demand. In addition, forecasted warmer temperatures will cause winter precipitation to fall as rain (as opposed to snow). In addition to this directly increasing the likelihood of flooding (DWR 2024), it could conflict with the designed operation of many flood control facilities. This includes the reservoirs in the San Joaquin Valley designed to provide flood control during the winter months and to manage snowmelt during the late spring and summer months to meet irrigation and other demands. It is possible that increased winter precipitation falling as rain will result in increased flood releases necessary to maintain storage capacity for flood protection. This, and a decrease in snowmelt, could result in a net decrease of regulated water necessary to meet demands in the San Joaquin Valley.

#### **Imported Surface Water Supplies**

The Delta is the keystone of California's water system because it is where major rivers in the Central Valley converge and because it is the largest source of imported surface water supplies for many areas south of the Delta. Water from the Delta, the majority of which is sourced from the Sacramento River in the northern portion of the state, is diverted into the CVP and SWP for conveyance to areas south of the Delta. The Delta is the focus of a complex local, state, and federal regulatory framework that manages deliveries to the Delta, exports from the Delta, and water quality in the Delta. The management of the Delta involves multiple state and federal agencies including Reclamation, California Department of Water Resources, Delta Stewardship Council, State Water Board, Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Wildlife, and others.

The CVP and SWP include storage and conveyance facilities north and south of the Delta. Facilities north of the Delta are used, in part, to manage water and make deliveries to the Delta. CVP facilities south of the Delta include the DMC and the San Luis Canal. The California Aqueduct supplies

<sup>\*</sup>Total rounded to nearest 1 TAF.

water to South-of-Delta SWP contractors (Table 2-6, from DWR (2024a) Bulletin 132-2021). The CVP units south of the Delta provide water to 37 contractors with contracts exceeding 3.5 MAF/year (Table 2-7, from USBR [2016]).

**Table 2-6: South-of-Delta State Water Project Contractors and Contract Amounts.** 

Water District	Contract Amount (TAF)	Subbasin with Study Area
Alameda County Flood Control & WCD, Zone 7	80.62	-
Alameda County WD	42.00	-
Santa Clara Valley WD	100.00	-
County of Kings	9.31	Tulare Lake
Dudley Ridge WD	50.34	Tulare Lake
Empire West Side ID	2.00	Tulare Lake
Kern County Water Agency	982.73	Kern
Oak Flat WD	5.70	Delta-Mendota
Tulare Lake Basin WSD	88.92	Tulare Lake
San Luis Obispo County Flood Control & WCD	25.00	-
Santa Barbara County Flood Control & WCD	45.49	-
Antelope Valley-East Kern Water Agency	141.40	-
Castaic Lake Water Agency	92.50	-
Coachella Valley WD	138.35	-
Crestline-Lake Arrowhead Water Agency	5.80	-
Desert Water Agency	55.75	-
Littlerock Creek ID	2.30	-
Mojave Water Agency	82.80	-
Palmdale WD	21.30	-
San Bernadino Valley Municipal WD	102.60	-
San Gabriel Valley Municipal WD	28.80	-
San Gorgonio Pass Water Agency	17.30	-
Metropolitan WD of Southern CA	1,911.50	-
Ventura Country Flood Control District	20.00	-
South of Delta Total	4,055.21	

**Table 2-7: South of Delta Central Valley Project Contractors and Contract Amounts.** 

Contractor	Contract Amount (TAF)	Subbasin within Study Area
Refuge Level II	325.00	Various
Central California ID	532.40	Delta-Mendota
Firebaugh Canal WD	85.00	Delta-Mendota
San Luis Canal Company	163.60	Delta-Mendota
Columbia Canal Company	59.00	Delta-Mendota
Fresno Slough WD	4.87	Delta-Mendota
Grassland WD	53.50	Delta-Mendota (Refuge)
James ID	45.00	Kings
Reclamation District 1606	0.57	Kings
Tranquility ID	34.00	Delta-Mendota
Contra Costa WD	195.00	
Banta-Carbona ID	20.00	Tracy
City of Tracy	17.50	Tracy
Del Puerto WD	140.21	Delta-Mendota
Patterson ID	22.50	Delta-Mendota
Byron-Bethany ID	20.60	Tracy
West Side ID	5.00	Tracy
West Stanislaus ID	50.00	Delta-Mendota
Panoche WD	94.00	Delta-Mendota
San Luis WD	125.08	Delta-Mendota
Westlands WD	1,168.38	Westside
Panoche Drainage District	-	Delta-Mendota
Pleasant Valley	-	Pleasant Valley
San Benito County WD	43.80	-
Santa Clara Valley WD	154.07	-
Pajaro Valley	-	
Broadview WD	27.00	Delta-Mendota
Eagle Field WD	4.55	Delta-Mendota
Laguna WD	0.80	Kings
Mercy Springs WD	2.84	Delta-Mendota
Oro Loma WD	0.00	Delta-Mendota
Pacheco WD	10.08	Delta-Mendota
Turner Island WD	-	Delta-Mendota
FT Land LLC	0.60	
County of Fresno	3.00	Kings
Hills Valley ID	3.35	Kings
Kern-Tulare WD	53.30	Kern
Lower Tule River ID	31.10	Tule
Pixley ID	31.10	Tule
Tri-Valley WD	1.14	Kings
County of Tulare	5.31	Kaweah
Total	3,533.25	

#### Hydrologic Variability

Future warmer temperatures and associated hydrologic variability are expected to have a significant and adverse impact on Delta exports by the CVP and SWP. Sea level rise will increase the potential intrusion of high salinity water into the Delta, requiring more Delta outflow to meet water quality standards, leaving less water for export. In addition, more precipitation is expected to fall as rain, as opposed to snow, and will occur earlier in the water year. Scenarios were simulated in CalSim under various future climate scenarios. For the purposes of this Plan, a 50% level of concern (a median scenario) was used to simulate potential impacts on future Delta exports. Simulated average annual impacts to south of Delta CVP and SWP supplies are estimated to be 174,000 acre-feet and 273,000 acre-feet respectively, which includes exports to areas outside of the San Joaquin Valley. The impacts for San Joaquin Valley subbasins were estimated by allocating shortages for each project to contractors in proportion to the contract quantity, and aggregating contractor shortages to the subbasin level and total 241 TAF for the San Joaquin Valley (Table 2.16).

Table 2-8: Estimated Annual Decrease in CVP and SWP Delta Imports by Subbasin due to Climate Change.

Subbasin	Decrease in Delta Imports* (TAF)	
Tracy	4	
Delta-Mendota	48	
Westside	94	
Tulare Lake	10	
Kings	5	
Kaweah	1	
Tule	7	
Kern	72	
Total	241	

<sup>\*</sup>Simulated in CalSim and rounded to nearest 1 TAF.

#### **Groundwater Supplies**

Vast quantities of groundwater accumulated in the aquifers of the San Joaquin Valley over centuries. The primary input was the natural recharge of surface water sourced primarily from snowmelt runoff from the Sierra Nevada Mountains. As described previously, groundwater extraction began in the late 19<sup>th</sup> century and continues today. The rate of extraction over time has largely exceeded the rate of recharge due to the reduction of natural recharge due to development of surface water resources, and a general reliance on groundwater resources. As reported in GSPs submitted to DWR and made available on DWR's website, based on data from approximately the mid- to late- 20<sup>th</sup> century to the mid-2010s, around 8.5 million acre-feet per year of groundwater is extracted from aquifers of the San Joaquin Valley (Table 2-9). The estimated total reduction in groundwater storage is 1.5 million acre-feet per year (i.e., the amount by which extractions exceed inputs). Similar estimates have been developed by the Public Policy Institute of California (PPIC 2023) (Table 2-9).

Table 2-9: Estimated Historical Groundwater Extraction and Overdraft.

Subbasin	Average Annual Extraction (TAF)	Average Annual Reduction in Storage (TAF)	Average Annual Reduction in Storage (TAF)
	GSPs*	GSPs*	PPIC^
Eastern San Joaquin	732	48	55
Modesto	311	43	13
Turlock	404	64	96
Merced	735	130	130
Chowchilla	265	29	108
Madera	472	34	150
Delta-Mendota	409	92	88
Tracy – Non-Delta Area	167	3	0
Kings	1,374	217	198
Westside	324	19	28
Pleasant Valley		36	NA
Kaweah	154	28	141
Tulare Lake	381	86	92
Tule	712	160	167
Kern	1,590	277	578
White Wolf	??	??	5
Total	8,031	1,224	1,840

#### Notes:

All volumes rounded to nearest 1 TAF.

The quality of the San Joaquin Valley's groundwater is compromised by both natural and human-induced contaminants. Common pollutants include nitrates, pesticides, heavy metals, solvents, and disease-causing organisms, along with naturally occurring elements like arsenic and uranium. Salinity is a major concern, particularly on the Valley's west side, where oceanic influences have led to higher salt concentrations (Figure 2-2). Agricultural practices, water imports, and long-term land use have exacerbated salt accumulation, impairing over 1.5 million acres and causing significant economic losses including approximately 250,000 acres being taken out of agricultural production (CV SALTS 2025). Reducing groundwater levels also can adversely affect groundwater quality as contaminants accumulate in the aquifers. Groundwater quality is monitored through sampling wells, with data collected on total dissolved solids (TDS), nutrients, pesticides, trace elements, and radionuclides. Regulatory oversight is provided by the State Water Board and the Central Valley Water Quality Control Board, primarily through the SAFER program, to ensure safe drinking water access.

<sup>\*</sup> Data compiled from the most recent version of GSPs submitted to DWR.

<sup>^</sup> Data from the Public Policy Institute of California (2023).

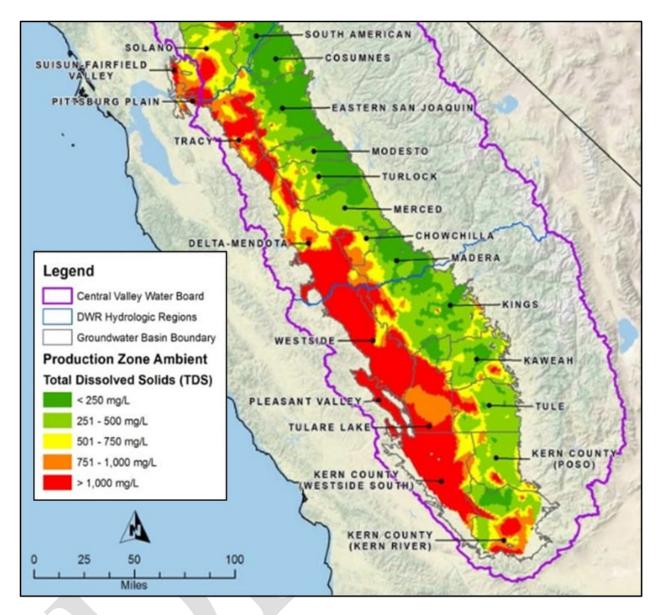


Figure from CV-SALTS 2025.

Figure 2-2: Total Dissolved Salt Concentrations in the San Joaquin Valley.

#### **Sustainable Groundwater Management**

The Sustainable Groundwater Management Act was passed in 2014 and requires critically overdrafted subbasins be brought to sustainability by 2040. It is the first region-wide groundwater management regulatory program governing the San Joaquin Valley, where water users have historically avoided a groundwater adjudication process. Subbasins, as defined in California's Groundwater (Bulletin 118), are required to develop groundwater sustainability plans (GSPs) that avoid adverse effects of groundwater overdraft including: persistent lowering of groundwater levels, significant and unreasonable reductions in groundwater storage, significant and unreasonable saltwater intrusion, significant and unreasonable degradation of water quality, significant and

unreasonable land subsidence, surface water depletion having significant and unreasonable effects on beneficial uses.

GSPs were submitted to DWR for review in 2020. After rounds of reviews by DWR and revisions by the GSAs, GSPs for all subbasins in the San Joaquin Valley have been accepted by DWR except for Delta-Mendota, Chowchilla, Pleasant Valley, Tulare Lake, Kaweah, Tule and Kern. If these the revised GSPs in these subbasins are deemed inadequate by DWR, they could be referred to the State Water Board (State Water Board). The Board could put the subbasin on probation and take over management of the subbasin. Regardless, all subbasins are required to be sustainable by 2040. For water supply, this means that the reduction in groundwater storage values in Table 2-9 need to be brought to zero and, to ensure that groundwater levels rebound beyond critical threshold, aquifers need to be replenished (i.e., the rate of recharge needs to exceed the rate of extraction). For the purposes of this Plan, it is assumed that replenishment rates need to be 50% of the average annual reduction reported in Table 2-9.

#### **Land Subsidence**

Subsidence is an ongoing regional issue and has been observed throughout the San Joaquin Valley as far back as the 1920s (Figure 2-3). Land subsidence in the region has been attributed to several activities including oil and gas extraction, but the dominant cause of subsidence has been groundwater overdraft (DWR 2024b). As mentioned, subsidence was one of the drivers of the CVP and SWP to allow for an increase in surface water deliveries in the San Joaquin Valley and elsewhere. However, the expansion of agricultural development and the reduction in availability of surface water supplies have increased reliance on groundwater in certain areas. As a result, groundwater overdraft continues to drive subsidence in many areas of the San Joaquin Valley (Figure 2-4). Subsidence occurs where the overdraft takes place and often cross geopolitical lines defining counties, communities, and local agencies and districts, including GSAs. As a result, subsidence is observed within geopolitical boundaries that are not causing it to occur.

Regional land subsidence adversely affects communities, infrastructure, and natural systems. For example, at the community level, a recent study shows that regional land subsidence in the San Joaquin Valley adversely impacts home sale values (Mehdi et al. 2025). At a regional level, linear features, such as roads and canals, are affected by differential subsidence are most susceptible to damage, experience loss of function and other negative impacts (USGS 2013, DWR 2017, Reclamation 2020). For example, subsidence in Tulare County decreased the capacity of the FKC by more than 50% through a portion known as the "Middle Reach". Over \$300M in local, state and federal investments were made through the Friant Kern Canal Phase 1 Middle Reach Capacity Correction Project to restore capacity to historical delivery capability, however additional actions are needed to address remaining capacity reductions. Subsidence has also decreased the capacity of the Delta Mendota Canal, San Luis Canal and California Aqueduct. Restoring design capacity to the FKC, DMC, SLC and California Aqueduct to address historical and projected future subsidence will require several billions of dollars in corrective actions.

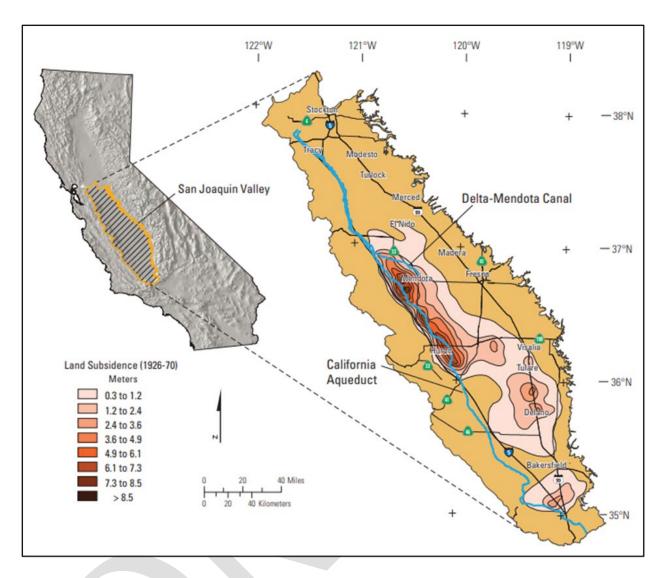


Figure from USGS 2018.

Figure 2-3: Land Subsidence in the San Joaquin Valley from 1926 to 1970.

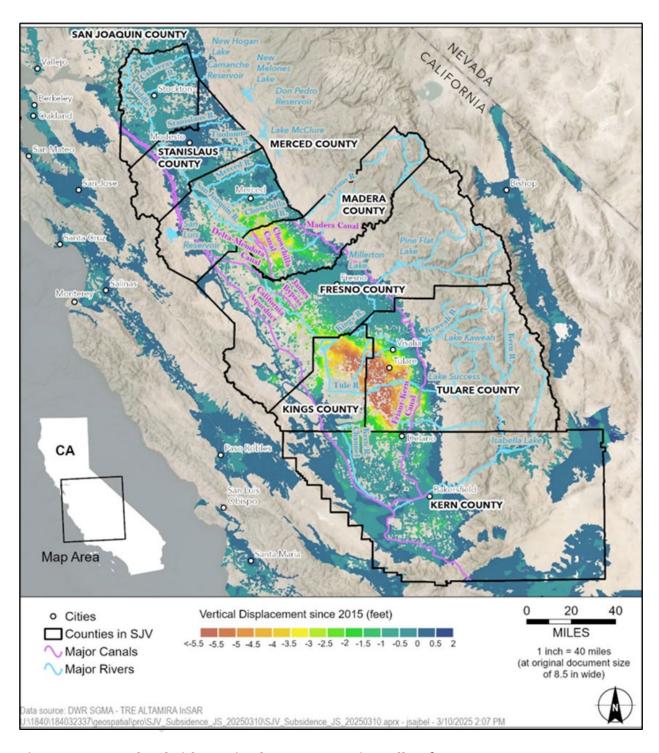


Figure 2-4: Land Subsidence in the San Joaquin Valley from 2015 to Present.

#### **Existing Demands**

Water demands in the San Joaquin Valley are influenced by the evolving regulatory environment and hydrologic variability, as well as land use changes. For the purposes of this Plan, water demands are described in-terms of their relative difference to water supplies. The relative difference, or water supply-demand gap is estimated in this section for existing conditions. Projected future changes to the existing water supply-demand gap are also estimated in this section based only on demand changes. Later in this chapter, projected future changes to water supplies are combined with these projected future changes to only demands to project a total future water supply-demand gap.

#### **Unmet Incremental Level 4 Refuge Supplies**

The San Joaquin Valley is home to 18 federal and state wildlife refuges that are required to receive water supplies as stipulated in the CVPIA. These water supplies, managed by Reclamation, are comprised of Level 2 and Level 4 supplies. The demand for full Level 4 supplies is 376.5 TAF (CVJV 2020). The CVPIA stipulates that a portion of those demands, referred to as Level 2 supplies, be delivered by Reclamation to the wildlife refuges annually and are subject to reductions during dry periods. Total Level 2 demand is about 271.0 TAF. The remaining demand of 105.5 TAF is referred to as Incremental Level 4 and is to be acquired through purchase from willing sellers. Conveyance losses add 17.2 TAF (or 15%) and require that 122.7 TAF be purchased. However, due to state and federal budget constraints, increased prices of spot market water and variability of supplies, Incremental Level 4 demands for refuges are not met consistently (CVJV 2020). Unmet water needs for wildlife refuges have been estimated to be 92.6 TAF, including 12.1 TAF for conveyance losses (CVJV 2020).

#### **Existing Supply-Demand Gap**

The Sustainable Groundwater Management Act (SGMA) requires that subbasins in the San Joaquin Valley be brought to sustainability by 2040. Assuming that groundwater has been used to meet demands that are unable to be met by surface water supplies (either in-valley or imported), it can be assumed that the existing gap between available water supplies and water demands in the San Joaquin Valley is represented by groundwater overdraft. The estimated groundwater overdraft for each subbasin is presented in Table 2-9. The total overdraft across all subbasins ranges from 1.2 to 1.8 MAF/yr as calculated from the GSPs and the PPIC, respectively. These overdraft volumes can be combined with the estimated unmet water needs for wildlife refuges to define the existing supply-demand gap, which varies from 1.3 to 1.9 MAF/yr (Table 2-10).

Table 2-10: Existing Annual Water-Supply Demand Gap in the San Joaquin Valley.

Subbasin	GSP Overdraft (TAF)	PPIC Overdraft (TAF)	Unmet IL4 Demands (TAF)	GSP Based Existing Gap (TAF)	PPIC-Based Existing Gap (TAF)
Eastern San Joaquin	48	55	0	48	55
Tracy	3	0	0	3	0
Delta-Mendota	92	88	31	123	119
Modesto	43	13	0	43	13
Turlock	64	96	0	64	96

Merced	130	130	13	143	143
Chowchilla	29	108	0	29	108
Madera	34	150	0	34	150
Westside	19	28	0	19	28
Pleasant Valley	36		0	36	
Tulare Lake	86	92	0	86	92
Kings	217	198	0	217	198
Kaweah	28	141	0	28	141
Tule	160	167	5	165	172
Kern	277	578	7	284	585
White Wolf	5	5	0	0	5
Total	1271	1,849	56	1,327	1,905

#### **Future Demand Changes**

Future changes to water demand in the San Joaquin Valley will be driven by climate change and demands for wildlife refuges. It is assumed that projected future population growth will not increase water demands because urban growth will occur via conversion of agricultural land. Climate change will increase water demands in the San Joaquin Valley due to warmer temperatures and increased evapotranspiration (ET). The PPIC (2023) estimates that ET demands will increase approximately 70.0 AF/yr across the San Joaquin Valley (or a uniform increase of approximately 1.55% when allocated across the subbasins based on irrigated acreage) (Table 2-11). Additionally, it is possible that Incremental Level 4 demands will be more difficult to acquire due to increases in the cost of acquiring supplies. As such, the difference between the full Incremental Level 4 Supplies and Unmet Level 4 supplies, referred to as the "at-risk" Incremental Level 4 supplies are assumed in changes to future demands (Table 2-11). These projected demand increases are added to the existing supply-demand gap to estimate the demand-only projected future change to the supply-demand gap (Table 2-11). In the next section, these demand changes are combined with supply changes to define the total supply-demand gap.

**Table 2-11: Projected Future Changes to Existing Annual Demands.** 

	Increase in ET Demand (TAF)	At Risk IL4 Demands (TAF)	GSP Based Future Gap from Only Demand Changes (TAF)	PPIC Based Future Gap from Only Demand Changes (TAF)
Eastern San Joaquin	6	1	54	61
Tracy	2	-	5	2
Delta-Mendota	7	44	174	170
Modesto	2	-	45	15
Turlock	3	-	67	99
Merced	4	-	147	147

Chowchilla	2	-	31	110
Madera	3	-	37	153
Westside	6	-	25	34
Pleasant Valley	_	-	36	
Tulare Lake	4	-	90	96
Kings	10	-	227	208
Kaweah	5	-	33	146
Tule	4	-	169	176
Kern	12	8	304	605
White Wolf	1	-	6	6
Total	71	52	1,450	2,028

#### **Problems and Needs**

The water supply-demand gap in the San Joaquin Valley is influenced by changes to both supplies and demands. This section of the report takes the existing water-supply demand gap defined previously with projected future changes to demand, and combines it with projected future changes to water supplies to estimate the projected future total water-supply demand gap. Water supply effects on disadvantaged communities are also addressed.

#### **Future Water Supply-Demand Gap**

The existing water supply-demand gap in the San Joaquin Valley was defined previously as ranging from 1.3 to 1.9 MAF/yr (Table 2-10) by combining estimates for groundwater overdraft with current unmet demands for wildlife refuges. Projected future changes to demands only would increase the gap to 1.4 to 2.0 MAF/yr (Table 2-11). However, as detailed in the above sections, the availability of groundwater and surface water supplies in the San Joaquin Valley is expected to decrease due to regulatory programs (e.g., SGMA, SJRRP, and HRL) and hydrologic variability. Estimated reductions from each of those sources are provided in Table 2-12, as is the projected future total water supply-demand gap, which is 2.4 to 3.0 MF/yr. This is the estimated water supply need in the San Joaquin Valley to bring each of the subbasins into balance.

Table 2-12: Total Projected Future Water Supply-Demand Gap in the San Joaquin Valley.

	Demand Changes		Groundwater	Surface Water			Supply-Demand Gap	
Subbasin	GSP Future Gap from Only Demand Changes (TAF)	PPIC Future Gap from Only Demand Changes (TAF)	Provision for Replenishment <sup>1</sup> (TAF)	SJRRP Contribution (TAF)	HRL Contribution (TAF)	Reduced Delta Imports <sup>2</sup> (TAF)	PPIC Total Supply- Demand Gap <sup>3</sup> (TAF)	GSP Total Supply- Demand Gap <sup>4</sup> (TAF)
Eastern SJ	54	61	13	-	-	-	67	74
Tracy	5	2	0	-	1	4	10	7
Delta-Mendota	174	170	23	-	8	48	253	249
Modesto	45	15	7	-	-	-	52	22
Turlock	67	99	20	-	-	-	87	119
Merced	147	147	33	-	-	-	180	180
Chowchilla	31	110	17	27	3	-	78	157
Madera	37	153	23	35	4	-	99	215
Westside	25	34	6	-	19	94	144	153
Pleasant Valley	36	-	9	-	-	-	45	-
Tulare Lake	90	96	22	\	1	10	123	129
Kings	227	208	52	17	3	5	304	285
Kaweah	33	146	21	35	4	1	94	207
Tule	169	176	41	70	8	7	295	302
Kern	304	605	107	70	17	72	570	871
White Wolf	6	6	1	-	-	-	7	7
Total*	1,450	2,028	395	254	68	241	2,408	2,977

#### Notes:

1. Provision for the future replenishment of groundwater supplies in addition to eliminating overdraft. Calculated as 25% of the average GSP and PPIC-based overdraft.

2. Includes climate change effects of local supplies on the east side of the San Joaquin Hydrologic Region and on exports from the Delta. <currently working on updates>

3. Total supply-demand gap using the GSP estimates of groundwater overdraft.

4. Total supply-demand gap using the PPIC estimates of groundwater overdraft.

Key:

Eastern SJ = Eastern San Joaquin

GSP = Groundwater sustainability plan

HRL = Healthy Rivers and Landscapes Program

PPIC = Pacific Policy Institute of California

SJRRP = San Joaquin River Restoration Program

TAF = Thousand acre-feet

#### **Water Supply Effects on Disadvantaged Communities**

Over 300 disadvantaged communities (DACs) in California's San Joaquin Valley—defined as areas with a median household income less than 80% of the statewide average—face persistent water supply challenges due to environmental burdens, limited institutional capacity, and historical disenfranchisement. Nearly all rely on groundwater for domestic use, with around 130 disadvantaged unincorporated communities (DUCs) representing the most vulnerable, totaling approximately 200,000 residents. These communities often contend with groundwater that fails to meet drinking water quality standards, lacks reliability, or is accessed through shallow wells prone to drying during droughts.

Various projects, programs, plans and other resources have been implemented to support DACs. The Safe and Affordable Funding for Equity and Resilience (SAFER) program is being implemented by the State Water Board. SAFER has made progress in identifying at-risk water supply systems and water quality issues for disadvantaged communities and implementing solutions. GSPs vary in their approaches with addressing supply needs of disadvantaged communities, with some plans proposing mitigation strategies and water level thresholds, while others lack specific programs – at least initially (PPIC 2020). Additionally, non-profit organizations like Self-Help's Community Engagement & Planning (CEP) team play a vital role by empowering community representatives to engage with GSAs, water districts, and state agencies, helping bridge the gap between technical planning and community advocacy.

To support DACs, water supply projects must promote long-term solutions that improve groundwater levels and water quality. Projects that increase surface water supplies to communities, subbasins, and regions will decrease reliance on groundwater and improve groundwater conditions for DACs. Other projects could target recharge of high-quality water near community wells and enhance drinking water over time, while setting recovery targets for groundwater levels. Additionally, the gap between water management agencies and DACs can continue to be bridged through various means such as community members serving on GSA advisory boards, providing public comments on policies and plans, attending and participating in public meetings, and advocating for themselves with various stakeholders such as water districts, GSAs, water management agencies and governing bodies. Non-profit organizations like CEP continue to support these objectives to bridge gaps.

#### **Catastrophic Risks**

Water resources in the San Joaquin Valley face critical risks from both natural and human-induced threats. Natural disasters such as earthquakes and floods can severely damage infrastructure like canals, reservoirs, and levees, which is evident in events like the 2017 Oroville Dam spillway failure caused by excess rain and high runoff. Levee failures in the Delta, including the 2004 Jones Tract flood, have caused extensive damage and pose a serious risk of saltwater intrusion, which could compromise water supplies for Southern California. Extended droughts, including the 2020–2022 event, have led to severe water rationing and threaten the reliability of water banking programs and other dry-year supplies when reservoir levels are too low to support exchanges. Anthropogenic risks further compound these challenges. Land subsidence, driven by excessive groundwater pumping, undermines infrastructure and long-term water availability. Contamination from agricultural runoff

and accidental spills has negatively affected groundwater quality. These combined risks highlight the urgent need for resilient water supply projects to protect both infrastructure and water quality in the region.

#### **Economic Considerations**

Water affordability is an increasing concern in the San Joaquin Valley, especially during drought years when surface water deliveries are low and farmers must turn to expensive spot markets to sustain crops. In such conditions, water prices can exceed \$1,000 per acre-foot. Even under long-term contracts like those of the State Water Project (SWP), fixed costs remain constant regardless of how much water is delivered. Anecdotally, for example, a 20% SWP allocation can cause per-acre-foot costs to quadruple, making water unaffordable for many growers. While a project may be economically feasible over its lifetime, fluctuating commodity prices can make annual payments unsustainable for farmers, especially during prolonged downturns.

The broader economic consequences of unreliable water supplies are substantial. If groundwater sustainability is achieved primarily through land fallowing without new water supplies, up to one million acres could be taken out of production, resulting in an estimated \$7.2 billion annual loss in farm revenue (Sunding and Roland-Holst 2020). This would lead to an average loss of 42,000 agricultural and service sector jobs, with total employment impacts (including related industries like transportation and food processing) reaching 85,000 jobs and \$2.1 billion in lost employee compensation annually. These figures underscore the urgent need for affordable, reliable water supplies to sustain the Valley's agricultural economy and communities.

# **Opportunities**

Water supply projects in the San Joaquin Valley offer a unique opportunity to address not only the region's chronic supply-demand imbalance but also a range of interconnected flood, environmental and social challenges. Investments in new and aging water infrastructure can improve the flexibility and reliability of surface water deliveries, support groundwater recharge, reduce flood risks, and support wildlife refuges and other environmental needs. A multi-sector approach to constructing new facilities and making upgrades to aging facilities can simultaneously replenish aquifers, restore domestic wells, and enhance ecosystem health, particularly in the face of climate-driven extremes like drought and flooding (DWR 2023). As outlined in Chapters 3 and 4 of this report, potential investments could address environmental and flood control problems and needs, as well. Furthermore, potential investments can advance water equity by improving access to water for disadvantaged communities and improving groundwater levels for municipal and domestic wells that serve disadvantaged communities and other rural communities.

Opportunities also exist for regional and statewide partnerships that could be used to address the cost of large investments. Exploring potential partnership opportunities with water supply agencies around the region and state could lead to the development of projects that provide multiple benefits to multiple regions. For example, investments into surface and groundwater storage projects in the San Joaquin Valley could provide benefits to water agencies that are able to access supplies through the CVP, SWP, and other conveyance systems.

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# Plenary Group Meeting Agenda

## Tuesday, September 30, 2025 | 3:00-5:00

## **Meeting Link:**

 $\underline{https://fresnostate.zoom.us/j/82667330959?pwd=skXMBx8KdaPovwtamnpfe5qGfLnNyN.1}$ 

**Meeting ID:** 826 6733 0959 **Passcode:** 12346

Time	Item	Description
3:00	1	Call to Order – Sarah Woolf  a. Review Agenda - Sarah  b. Updates – All
3:10	2	Prop 4 – 2025-26 Funding Levels and Next Steps for the CAP
3:30	3	California Natural Resources Agenda Guidance for Prop 4 Programs – Julie Alvis, CNRA Deputy Director
4:15	4	CAP Prioritization Tool – Jim Kramer
4:45	5	October 6 – 7 In-person Meeting – Jim Kramer
5:00	5	Adjourn – Sarah Woolf