



## **Santa Clara Valley Water District Water Supply and Demand Management Committee**

HQ. Bldg. Boardroom, 5700 Almaden Expressway, San Jose, California  
Join Zoom Meeting: <https://valleywater.zoom.us/j/92597340524#>

### **REGULAR MEETING AGENDA**

**Monday, August 26, 2024  
10:00 AM**

**District Mission: Provide Silicon Valley safe, clean water for a healthy life, environment and economy.**

**COMMITTEE OFFICERS:**

Richard Santos, Chairperson  
Director District 3  
Barbara Keegan, Vice Chairperson  
Director District 2  
Nai Hsueh, Member  
Director District 5

All public records relating to an item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body will be available for public inspection at the Office of the Clerk of the Board at the Santa Clara Valley Water District Headquarters Building, 5700 Almaden Expressway, San Jose, CA 95118, at the same time that the public records are distributed or made available to the legislative body. Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to attend Board of Directors' meeting. Please advise the Clerk of the Board Office of any special needs by calling (408) 265-2600.

**STAFF LIAISONS:**

Vincent Gin  
Kirsten Struve  
Ryan McCarter  
Stephanie Simunic  
(COB Liaison)  
Deputy Clerk II  
[ssimunic@valleywater.org](mailto:ssimunic@valleywater.org)  
408-630-2408

**Note: The finalized Board Agenda, exception items and supplemental items will be posted prior to the meeting in accordance with the Brown Act.**

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**Santa Clara Valley Water District**  
**Water Supply and Demand Management Committee**  
**REGULAR MEETING**  
**AGENDA**

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Monday, August 26, 2024

10:00 AM

HQ. Bldg. Boardroom,  
5700 Almaden Expressway, San Jose, California

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**\*\*\*IMPORTANT NOTICES AND PARTICIPATION INSTRUCTIONS\*\*\***

Santa Clara Valley Water District (Valley Water) Board of Directors/Board Committee meetings are held as a “hybrid” meetings, conducted in-person as well as by telecommunication, and is compliant with the provisions of the Ralph M. Brown Act.

To maximize public safety while still maintaining transparency and public access, members of the public have an option to participate by teleconference/video conference or attend in-person. To observe and participate in the meeting by teleconference/video conference, please see the meeting link located at the top of the agenda. If attending in-person, you are required to comply with Ordinance 22-03 - AN ORDINANCE OF THE SANTA CLARA VALLEY WATER DISTRICT SPECIFYING RULES OF DECORUM FOR PARTICIPATION IN BOARD AND COMMITTEE MEETINGS located at <https://s3.us-west-2.amazonaws.com/valleywater.org.if-us-west-2/f2-live/s3fs-public/Ord.pdf>

In accordance with the requirements of Gov. Code Section 54954.3(a), members of the public wishing to address the Board/Committee during public comment or on any item listed on the agenda, may do so by filling out a Speaker Card and submitting it to the Clerk or using the “Raise Hand” tool located in the Zoom meeting application to identify yourself in order to speak, at the time the item is called. Speakers will be acknowledged by the Board/Committee Chair in the order requests are received and granted speaking access to address the Board.

- Members of the Public may test their connection to Zoom Meetings at: <https://zoom.us/test>
- Members of the Public are encouraged to review our overview on joining Valley Water Board Meetings at: <https://www.youtube.com/watch?v=TojJpYCxXm0>

Valley Water, in complying with the Americans with Disabilities Act (ADA), requests individuals who require special accommodations to access and/or participate in Valley Water Board of Directors/Board Committee meetings to please contact the Clerk of the Board’s office at (408) 630-2711, at least 3 business days before the scheduled meeting to ensure that Valley Water may assist you.

This agenda has been prepared as required by the applicable laws of the State of California, including but not limited to, Government Code Sections 54950 et. seq. and has not been prepared with a view to informing an investment decision in any of Valley Water’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 Valley Water's bonds, notes or other obligations and investors and potential investors should rely only on information filed by Valley Water on the Municipal Securities Rulemaking Board's Electronic Municipal Market Access System for municipal securities disclosures and Valley Water's Investor Relations website, maintained on the World Wide Web at <https://emma.msrb.org/> and <https://www.valleywater.org/how-we-operate/financebudget/investor-relations>, respectively.

Under the Brown Act, members of the public are not required to provide identifying information in order to attend public meetings. Through the link below, the Zoom webinar program requests entry of a name and email address, and Valley Water is unable to modify this requirement. Members of the public not wishing to provide such identifying information are encouraged to enter "Anonymous" or some other reference under name and to enter a fictional email address (e.g., attendee@valleywater.org) in lieu of their actual address. Inputting such values will not impact your ability to access the meeting through Zoom.

**Join Zoom Meeting:**  
**<https://valleywater.zoom.us/j/92597340524>**  
**Meeting ID: 92597340524**  
**Join by Phone:**  
**1 (669) 900-9128, 92597340524#**

**1. CALL TO ORDER:**

1.1. Roll Call.

**2. TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON THE AGENDA.**

*Notice to the public: Members of the public who wish to address the Board/Committee on any item not listed on the agenda may do so by filling out a Speaker Card and submitting it to the Clerk or using the "Raise Hand" tool located in the Zoom meeting application to identify yourself to speak. Speakers will be acknowledged by the Board/Committee Chair in the order requests are received and granted speaking access to address the Board/Committee. Speakers' comments should be limited to three minutes or as set by the Chair. The law does not permit Board/Committee action on, or extended discussion of, any item not on the agenda except under special circumstances. If Board/Committee action is requested, the matter may be placed on a future agenda. All comments that require a response will be referred to staff for a reply in writing. The Board/Committee may take action on any item of business appearing on the posted agenda.*

**3. APPROVAL OF MINUTES:**

3.1. Approval of June 24, 2024 Water Supply and Demand Management Committee (WSDMC) Minutes.

[24-0735](#)

Recommendation: Approve the minutes.

Manager: Candice Kwok-Smith, 408-630-3193  
Attachments: [Attachment 1: 062424 WSDMC Draft Minutes](#)  
Est. Staff Time: 5 Minutes

#### **4. REGULAR AGENDA:**

- 4.1. Receive Information on the Safe Clean Water Conservation Program - [24-0704](#)  
Project A2: Water Conservation Rebates and Programs.  
Recommendation: Receive an update on the Safe Clean Water funded Conservation Programs. This is a discussion item, and no action is required.  
Manager: Kirsten Struve, 408-630-3138  
Attachments: [Attachment 1: PowerPoint](#)  
Est. Staff Time: 20 Minutes
- 4.2. Receive Update on the B.F. Sisk Dam Raise and Reservoir Expansion [24-0705](#)  
Project.  
Recommendation: Receive an update on the B.F. Sisk Dam Raise and Reservoir Expansion Project.  
Manager: Vincent Gin, 408-630-2633  
Attachments: [Attachment 1: PowerPoint](#)  
Est. Staff Time: 45 Minutes
- 4.3. Receive an Informational Update on the Unique Requirements for the [24-0725](#)  
Pacheco Reservoir Expansion Project, Including Resulting Unique Benefits.  
Recommendation: Receive an informational update on the unique requirements for the Pacheco Reservoir Expansion Project, including resulting unique benefits.  
Manager: Ryan McCarter, 408-630-2983  
Attachments: [Attachment 1: PowerPoint](#)  
Est. Staff Time: 45 Minutes
- 4.4. Review and Discuss the Water Supply and Demand Management [24-0734](#)  
Committee (WSDMC) Work Plan.  
Recommendation: Review and discuss the WSDMC Work Plan.  
Manager: Candice Kwok-Smith, 408-630-3193.  
Attachments: [Attachment 1: 2024 WSDMC Workplan](#)  
Est. Staff Time: 5 Minutes

#### **5. CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS.**

*This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the*

*Committee during the meeting.*

**6. ADJOURN:**

6.1. Adjourn to Regular Meeting at 10:00 a.m. on Monday, September 23, 2024.



# Santa Clara Valley Water District

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**File No.:** 24-0735

**Agenda Date:** 8/26/2024

**Item No.:** 3.1.

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## **COMMITTEE AGENDA MEMORANDUM** **Water Supply and Demand Management Committee**

Government Code § 84308 Applies: Yes ☐ No ☒  
(If "YES" Complete Attachment A - Gov. Code § 84308)

### **SUBJECT:**

Approval of June 24, 2024 Water Supply and Demand Management Committee (WSDMC) Minutes.

### **RECOMMENDATION:**

Approve the minutes.

### **SUMMARY:**

A summary of Committee discussions, and details of all actions taken by the Committee, during all open and public Committee meetings, is transcribed and submitted for review and approval.

Upon Committee approval, minutes transcripts are finalized and entered into the District's historical records archives and serve as historical records of the Committee's meetings.

### **ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:**

The approval of minutes is not subject to environmental justice analysis.

### **ATTACHMENTS:**

Attachment 1: 062424 WSDMC Draft Minutes.

### **UNCLASSIFIED MANAGER:**

Candice Kwok-Smith, 408-630-3193

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For full meeting record, please review meeting videos at:  
<https://www.valleywater.org/how-we-operate/committees/board-committees>

WATER SUPPLY AND DEMAND  
MANAGEMENT COMMITTEE MEETING

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# DRAFT MINUTES

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**REGULAR MEETING  
MONDAY, JUNE 24, 2024  
11:00 AM**

(Paragraph numbers coincide with agenda item numbers)

**1. CALL TO ORDER:**

A regular meeting of the Santa Clara Valley Water District (Valley Water) Water Supply and Demand Management Committee (Committee) was called to order in the Valley Water Headquarters Building Boardroom at 5700 Almaden Expressway, San Jose, California, and by Zoom teleconference, at 11:00 a.m.

**1.1. Roll Call.**

Committee members in attendance were District 3 Director Richard Santos, Chairperson presiding, District 2 Director Barbara Keegan, Vice Chairperson, and District 5 Director Nai Hsueh, constituting a quorum of the Committee.

Staff members in attendance were:

Gina Adriano, Karen Adriano, Joseph Aranda, Aaron Baker, Lisa Bankosh, Roseryn Bhudsabourg, Neeta Bijoor, Kendra Boutros, Justin Burks, Rick Callender, Isela Chaparro, Theresa Chinte, Vanessa De La Piedra, Phil Dolan, James Downing, Gavin Downs, Vincent Gin, Walter Gonzalez, Samantha Green, Andy Gschwind, Chris Hakes, Alina Hare, Robert Harvie, Dana Jacobson, Cindy Kao, Angela Ke, Matt Keller, Kaho Kong, Candice Kwok-Smith, Dave Leon, Jess Lovering, Sadie Lum, Michael Martin, Ryan McCarter, Katherine Maher, Nicole Merritt, Carmen Narayan, Julianne O'Brien, Carlos Orellana, Steve Peters, Sarah Piramoon, Amrita Ramesh, Metra Richert, Nicholas Simard, Stephanie Simunic, Kirsten Struve, Charlene Sun, Jing Wu, Genevieve Yip, and Tina Yoke.

Public in attendance were:

Chuck Gardner (Hallmark Group), Jerry Brown (Sites Project Authority)  
Molly Culton and Katja Irvin (Sierra Club), Jack Kiefer (Hazen), Jennifer Allen (CCWD), James Carney, Kurt Elvert, Lizzie Foss, Charles Gardner, Jim Kuhl, Juan Liem, Taryn Ravazzini, Bill Tuttle, iPhone X114.

**2. TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON THE AGENDA:**

Katja Irvin made comments expressing concern relating to Committee operations.

**3. APPROVAL OF MINUTES:**

**3.1 Approval of May 17, 2024 Water Supply and Demand Management Committee (WSDMC) Minutes.**

Recommendation: Approve the minutes.

The Committee considered the minutes of the May 17, 2024 Water Supply and Demand Management Committee (WSDMC) meeting.

Public Comments: None.

It was moved by Vice Chairperson Keegan, seconded by Director Hsueh, and unanimously carried, to approve the May 17, 2024 Water Supply and Demand Management Committee (WSDMC) minutes.

**4. REGULAR AGENDA:**

**4.1 Receive an Update on Los Vaqueros Reservoir Expansion Project; Recommend to the Board to Provide Policy Direction for Continued Negotiation of Project Agreements; Recommend to the Board to Authorize Staff to Reduce Valley Water's Storage Participation Request From 50,000 Acre-Feet to 20,000 Acre-Feet to Address Oversubscription.**

Recommendation:

- A. Receive and discuss information on the Los Vaqueros Reservoir Expansion Project.
- B. Recommend to the Board to provide policy direction to Staff for continued negotiation of Project agreements.
- C. Recommend to the Board to authorize staff to reduce Valley Water's storage participation request from 50,000 acre-feet to 20,000 acre-feet to address storage oversubscription in the Project.

Katherine Maher reviewed the information on this item, per the attached Committee Agenda Memo and in the attachments and was available to answer questions.

The Directors expressed support for staff's recommendation. Discussion ensued between the Committee and staff relating to the project budget, acre-feet projections, and policy matters. Director Keegan requested that staff return to a future meeting with an analysis relating to the Contra Costa Water District regarding benefits with and without the expansion, and what impacts are to participating agencies. Taryn Ravazzini, Strategic Affairs and Water Policy Expert/Executive Director, Los Vaqueros Reservoir Joint Powers Authority, provided further information about the project including general cooperation efforts and timelines between member agencies. Director Hsueh

suggested staff reference the letter from the Contra Costa Water District as a framework for issues raised.

Public Comments: Katja Irvin expressed her opinion that 30,000 is better and more consistent with the Water Supply Master Plan, and the need for more information and analysis on the project. In response to a question from Bill Tuttle, staff stated the project is a water supply project.

It was moved by Director Hsueh, seconded by Chairperson Santos, and unanimously carried, to recommend to the Board to authorize staff to reduce Valley Water's storage participation request from 50,000 acre-feet to 20,000 acre-feet to address storage oversubscription in the Project and to recommend to the Board to provide policy direction to staff for continued negotiation for Project agreements.

#### **4.2 Receive and discuss information on the Sites Reservoir Project.**

**Recommendation: Receive and discuss information on the Sites Reservoir Project.**

Katherine Maher reviewed the information on this item, per the attached Committee Agenda Memo and in the attachments and was available to answer questions.

Jerry Brown, Executive Director, Sites Project Authority, commended staff efforts on the project and provided a forecast of future project decisions and his openness for ideas on the project.

Public Comments: None.

The Committee received the information, provided positive feedback, and took no formal action.

#### **4.3. Receive Information on the B.F. Sisk Dam Raise and Reservoir Expansion Project.**

**Recommendation: Receive and discuss information on the B.F. Sisk Dam Raise and Reservoir Expansion Project.**

Dana Jacobson reviewed the information on this item, per the attached Committee Agenda Memo and was available to answer questions. Brief discussion ensued relating to project updates regarding negotiations for an agreement related to cost share and reservoir management. Mr. Jacobson stated that the department expects to bring agreements to the Committee in fall 2024.

Public Comments: Katja Irvin asked what uncertainty remains relating to schedule, milestones and agreements to be negotiated to implement the project.

The Committee received the information, provided positive feedback, and took no formal action.

**4.4. Receive Information on the Draft Drought Response Plan Framework.**

**Recommendation: Receive and discuss the Draft Drought Response Plan Framework Update and provide feedback to staff on the Drought Response Framework.**

Michael Martin reviewed the information on this item, per the attached Committee Agenda Memo and in the attachments and was available to answer questions.

Discussion ensued relating to responses to past drought scenarios, communication to the public including utilizing the current approved water shortage contingency plan. Kirsten Struve stated that in the previous drought, outreach kits were sent to retailers, and communication can be coordinated between agencies in the future.

Public Comments: Katja Irvin commended the staff for the drought planning framework, expressed concern that only the first two stages fit into the Boards policy, and encouraged more in-depth discussion on the subject.

The Committee received the information, provided positive feedback, and took no formal action.

**4.5. Receive Information on the Water Supply Master Plan 2040 Conservation and Stormwater Capture Project Update - “No Regrets” Package Implementation.**

**Recommendation: Receive information on the Water Supply Master Plan 2040 Conservation and Stormwater Capture Project Update - “No Regrets” package implementation.**

Metra Richert reviewed the information on this item, per the attached Committee Agenda Memo, and was available to answer questions.

In response to an inquiry from Vice Chairperson Keegan relating to private parties vs. commercial rebates, Ms. Richert stated she will return to the Committee with that information, and staff stated that the cistern rebate is by volume and is .50 cents a gallon. Vice Chairperson Keegan stated that she was in a meeting with female elected officials interested in Model Water Efficient New Development Ordinance (MWENDO), and discussion ensued relating to communication between cities on a political level relating to MWENDO and various rebate programs.

Chairperson Santos inquired how many people in his district have rain barrels, to which Ms. Richert stated she will return to the Committee with that information.

Public Comments: None.

The Committee received the information, provided positive feedback, and took no formal action.

**4.6 Receive and Discuss Information on Stormwater Capture Opportunities.**

**Recommendation: Receive and Discuss Information on Stormwater Capture Opportunities.**

Samantha Greene reviewed the information on this item, per the attached Committee Agenda Memo and in the attachment and was available to answer questions.

Public Comments: None

Chairperson Santos requested that Soap Lake data is captured in a future report.

The Committee received the information, provided positive feedback, and took no formal action.

**4.7 Review and Discuss the Water Supply and Demand Management Committee (WSDMC) Work Plan and Approve 2024 Regular Meeting Schedule.**

**Recommendation: Review and discuss the WSDMC Work Plan and approve 2024 regular meeting schedule.**

Public Comments: None

The Committee unanimously approved to change the meetings from 11 a.m. to 10 a.m.

**5. CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS:**

*This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the Committee during the meeting.*

Relating to the Los Vaqueros Reservoir Expansion Project, Director Keegan requested staff provide an analysis relating to the Contra Costa Water District regarding benefits with and without the expansion, and what the impact is to participating agencies at a future meeting.

**6. Adjourn:**

**6.1. Adjourn to Regular Meeting at 11:00 a.m. on Monday July 22, 2024.**

Chairperson Santos adjourned the meeting at 1:10 p.m., to the next regular meeting on July 22, 2024, at 10 a.m.

Date Approved:

Stephanie Simunic  
Assistant Deputy Clerk II

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# Santa Clara Valley Water District

**File No.:** 24-0704

**Agenda Date:** 8/26/2024

**Item No.:** 4.1.

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## **COMMITTEE AGENDA MEMORANDUM** **Water Supply and Demand Management Committee**

Government Code § 84308 Applies: Yes ☐ No ☒  
(If "YES" Complete Attachment A - Gov. Code § 84308)

### **SUBJECT:**

Receive Information on the Safe Clean Water Conservation Program - Project A2: Water Conservation Rebates and Programs.

### **RECOMMENDATION:**

Receive an update on the Safe Clean Water funded Conservation Programs. This is a discussion item, and no action is required.

### **SUMMARY:**

Through the 2020 voter-approved Measure S, a renewal of Santa Clara Valley Water District's (Valley Water) Safe, Clean Water and Natural Flood Protection Program (SCW), up to \$1 million per year is for water conservation program activities, including rebates, technical assistance, and public education, within the first seven (7) years of the SCW. SCW funding not only helps Valley Water meet its countywide long-term water conservation goal of 110,000 acre-feet of water per year by 2040, but these water conservation programs also increase water supply reliability, help reduce greenhouse gases, and irrigation runoff pollution to the Bay. In Fiscal Year 2024 (FY24), SCW continued to provide an opportunity to enhance and create the following programs:

- Landscape Rebate Program
- Lawn Busters Program
- Qualified Water Efficient Landscaper Training

### **Landscape Conversion Program Enhancements**

To increase participation in Valley Water's conservation program, SCW funding was utilized to increase the Landscape Conversion Rebate rate from \$1 per square foot (sf) to \$2 per sf and was also utilized to increase payment to local non-profit Our City Forest for the Lawn Busters Program from \$2 per sq ft to \$4 per sq ft. The Lawn Busters Program is offered to low-income community members, United States veterans, and other disadvantaged community members. FY24 resulted in 23,000 square feet (sq. ft.) of lawns converted through the Lawn Busters program across 23 projects.

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The increased funding for the Landscape Rebate Program led to the conversion of over 1.4 million sq ft of lawn, 1,000,000 sq ft of which was eligible for SCW funding. The total square footage of lawn converted in FY24 was approximately 29% lower than the previous fiscal year; however, it remains significantly higher than pre-Safe, Clean Water Program funding, at nearly 316% higher than FY21. In FY23 and FY24, it's also notable that participation from commercial, industrial, and institution (CII) and multi-family (MF) sites experienced a shift. Previously CII and MF sites accounted for about 5% of the applications rebated and about 25% of total lawn square footage converted. In FY23 and FY24, CII and MF participation rose to about 10% of the applications rebated and about 43% of the lawn conversion square footage. This increase in CII and MF participation is likely due to the increased per sq ft landscape conversion rate made possible by Safe, Clean Water funding and the July 1, 2022, site cap increase from \$50,000 to \$100,000. In addition, the ban on the irrigation of non-functional turf on CII and MF sites adopted by both Valley Water and the State of California likely attributed to increased rebate participation from those sectors.

### **Technical Assistance and Public Education**

The SCW program allowed Valley Water to pilot new programs and create new resources to help the public better conserve water. In FY24, enhanced training for landscape professionals was made possible by SCW funding, with securing a contractor, California Water Efficiency Partnership (CalWEP), to administer the EPA WaterSense certified Qualified Water Efficient Landscaper (QWEL) training for landscape professionals who live or work within Santa Clara County. The QWEL training, offered in both Spanish and English, equips our local landscapers, contractors, and designers with the tools they need to provide water-efficient landscaping to the residents of Santa Clara County. Over the contract term, the training provided 165 participants in five (5) classes with knowledge in water-efficient and sustainable landscape practices, including water management and preservation of other valuable resources. In the spring of 2024, the last training under this contract was offered in Spanish at Valley Water's facility, with 30 attendees.

### **Next Steps**

SCW funding offered an opportunity to pilot not just the QWEL training but also the Webinar Series, annual Landscape Summit, and Permaculture Pilot offered in previous years. These pilots were highly successful and as a result, Valley Water has pursued extensions and expansions of these programs to continue offering them to the public. Valley Water is securing a contract to offer the Landscape Summit and Workshops series as a permanent program and will be releasing an RFP in FY25 to continue the QWEL training into the future. The popular Permaculture Pilot has received a Valley Water grant to continue the program in Spanish, with graduates of the SCW funded pilot helping to teach the new series. The Lawn Busters Program ended June 30, 2024, and a new contract has been secured to offer an enhanced Landscape Direct Installation Program for low income residents in Santa Clara County. This program has been expanded to include Graywater laundry-to-landscape systems, rainwater capture, irrigation equipment upgrades, and urban street tree planting in addition to lawn conversion. This new program will be offered to participants on the Lawn Busters waitlist before being launched to the general public.

In FY25, SCW funding will continue to support the Landscape Rebate Program, allowing for the \$2



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per square foot conversion rate to continue. Increase participation in this program will help ensure Valley Water reached its 2040 Water Conservation Goals. Funding will also be used for the design of a 26,000 square foot demonstration garden adjacent to Valley Water's Headquarters building, presented to this committee at the May 2024 meeting.

**ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:**

Environmental justice and equity impacts on local communities are expected/likely to result from implementation of the water conservation program toward meeting the long-term water conservation 2030 and 2040 goals. Water conservation offers a range of environmental justice benefits by promoting equitable access to clean water, reducing pollution, protecting ecosystems, mitigating climate change, saving costs for vulnerable communities, enhancing drought resilience, and empowering residents with knowledge and skills for sustainable water use. Valley Water provides such water conservation information in multiple languages and via various outreach techniques to reach all members of our community. Valley Water acknowledges that during drought, disadvantaged communities may be disproportionately impacted. To address these impacts, Valley Water promotes access to equitable and affordable water supplies (Water Supply Goal 2.6). Valley Water offers specific programs, such as the Lawn Busters program to provide water-efficient landscapes to low-income, elderly, disabled, or veteran homeowners and schools within disadvantaged communities.

**ATTACHMENTS:**

Attachment 1: PowerPoint

**UNCLASSIFIED MANAGER:**

Kirsten Struve, 408-630-3138

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# Safe Clean Water – A2: Conservation Programs Update

Water Supply and Demand Management Committee, August 26, 2024  
Ashley Shannon, Sr. Water Conservation Specialist



# Safe Clean Water- Conservation Program Update

- Measure S, Safe Clean Water and Natural Flood Protection
- \$1 Million per year for Water Conservation activities
- Opportunity to enhance and create Water Conservation programs and resources



**Safe, Clean Water**  
and Natural Flood Protection



Priority A: Ensure a safe, reliable water supply

# Landscape Conversion Program Enhancements

## Landscape Rebate Program

- Increase rate from \$1/sq ft to \$2/sq ft
- Over 1.4 Million sq ft converted in FY24
- Increased Commercial, Institutional, and Multi-family participation

## Lawn Busters

- Partnership with Our City Forest
- Increase funding from \$2/sq ft to \$4/sq ft
- Low-income, US veterans, and other disadvantaged community members
- 23,000 sq ft over 23 projects



# Technical Assistance and Public Education

## Qualified Water Efficient Landscaper Training:

- 165 participants, 5 classes
- Offered in English and Spanish
- EPA WaterSense Certified Program




Participants study irrigation equipment at a previous in-person class. The current course will cover all sections of the QWEL reference manual.



**Sign up NOW!**

**Interested in becoming a Qualified Water Efficient Landscaper? FREE in-person training is now available!**

Become a U.S. EPA WaterSense certified professional in sustainable landscaping and irrigation efficiency.

The Qualified Water Efficient Landscaper (QWEL) course is open to landscape professionals working within Santa Clara County.

**Sponsored by**  **Valley Water**

**Free in-person Spanish QWEL Training Course:**

- November 28, December 5, 12, and 19 (exam date).
- From 7:30 a.m. – 2:00 p.m.
- At Santa Clara Valley Water District  
5750 Almaden Expressway, San José, CA 95118.
- Includes 18 hours of live instruction and an in-person irrigation audit.
- The final exam must be taken in-person and will be administered at the same location on Tuesday, December 19, 2023.

Space is limited! Please register at:  
<https://www.qwel.net/pub/class/403>  
or scan QR code.



**Have a question about QWEL?**

Email: [QWEL@calwep.org](mailto:QWEL@calwep.org)  
Call: (916) 475-1203

Funding for this project has been provided in part from the Water Quality, Supply and Infrastructure Improvement Act of 2014, and through an agreement with the State Department of Water Resources.



# Next Steps

## Pilots to Programs:

- Landscape Summit
- Webinar Series
- Permaculture Training
- Landscape Direct Installation Program

## FY25 SCW Funding:

- Landscape Conversion Rebate
- Valley Water Demonstration Garden Design



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# Santa Clara Valley Water District

File No.: 24-0705

Agenda Date: 8/26/2024

Item No.: 4.2.

## COMMITTEE AGENDA MEMORANDUM Water Supply and Demand Management Committee

Government Code § 84308 Applies: Yes ☐ No ☐  
(If "YES" Complete Attachment A - Gov. Code § 84308)

### SUBJECT:

Receive Update on the B.F. Sisk Dam Raise and Reservoir Expansion Project.

### RECOMMENDATION:

Receive an update on the B.F. Sisk Dam Raise and Reservoir Expansion Project.

### SUMMARY:

The U.S. Bureau of Reclamation (Reclamation) and the San Luis & Delta-Mendota Water Authority (SLDMWA) are jointly developing the B.F. Sisk Dam Raise and Reservoir Expansion Project (Project). This Project will raise the existing B.F. Sisk Dam by 10 feet and increase the storage capacity of San Luis Reservoir, the Nation's largest off-stream reservoir, by 130,000 acre-feet (AF). This Project is separate and distinct from the B.F. Sisk Safety of Dams Modification Project, which is being undertaken by Reclamation and the Department of Water Resources (DWR) to address seismic risks of the existing dam and will not increase the storage capacity. However, in order for this expansion Project to move forward at a desirable cost and timeline, it will need to be constructed concurrently with the seismic retrofit project.

Reclamation and SLDMWA, together with Project participants, are in the midst of negotiations for a Cost Share and Capacity Management Agreement (Management Agreement), which will describe how the costs and benefits of the Project will be shared. The Management Agreement will provide the specificity on key operational and cost allocation features needed to perform a business case analysis to justify project participation. The parties to the Management Agreement will be limited to Reclamation and SLDMWA, while Valley Water will continue to participate in the Project through the activity agreement with SLDMWA. However, approval from the Valley Water Board will be required prior to SLDMWA executing major Project agreements and ultimately making a decision to participate in the Project.

### Cost Share and Capacity Management Agreement

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The Management Agreement is the primary agreement that defines the rights and obligations of each party for the duration of the Project. It will become effective upon execution and will remain in place through construction and operation of the Project. Negotiations are ongoing and key terms are still subject to change. However, Valley Water staff anticipates that the final terms will be substantially similar to those described below.

### *Construction Responsibilities*

Reclamation and SLDMWA have tentatively agreed that Reclamation would be responsible for managing the design and construction of the dam raise, which would be incorporated into the final phase of the seismic retrofit project, while SLDMWA would be responsible for completion of the required modifications of State Route 152. This division of labor is intended to improve the overall efficiency of the Project and will require that SLDMWA contract with an experienced project manager or defer to the California Department of Transportation for implementation. However, the Management Agreement provides sufficient flexibility such that either party can assume the responsibility for the upgrades to State Route 152.

### *Potential Water Supply Benefits*

Reclamation will continue to own and operate the expanded San Luis Reservoir, while participants will be provided storage capacity in proportion to their investments that can be used to store any water type available to them. For Valley Water this includes CVP and State Water Project (SWP) contractual supplies and supplemental water transfers. The Management Agreement also provides for allocation and storage of surplus CVP water diverted by Reclamation, a benefit that provides participants access to CVP water supplies that would not have been available without the Project. Valley Water will also be able to store Delta surplus supplies available through our SWP contract that we rarely take advantage of now because of a lack of storage capability.

Project participants will have the discretion to determine which water is stored and withdrawn upon their request, with some limitations that are currently being negotiated. It is also anticipated that participants will be able to lease or market their share of capacity to third parties to offset project costs.

Of the 130,000 AF of additional water storage capacity created by the Project, Reclamation anticipates reserving 39,000 AF (30%) to use at its discretion to support federal wildlife refuges and other Central Valley Project (CVP) purposes for which water contractors do not have a repayment obligation. Project participants expect to reserve the remaining 91,000 AF (70%) for their benefit under the terms of the Management Agreement. Project planning, design and construction costs will be shared between Reclamation and Project participants in this proportion.

### *Operations - Risks*

The security of the water stored on behalf of Project participants has been one of the more difficult issues to resolve through negotiations. Reclamation has maintained that there are certain times when it may need to use participants' stored CVP water supplies to satisfy its higher priority contractual or statutory obligations or to protect public health and safety. This is likely to occur only

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during a severe or multi-year drought. Non-CVP water and other types of water are expected to have a higher level of protection, with the details on these issues are still under negotiation. More detail on water security will be provided to the Water Supply and Demand Management Committee when the Management Agreement is finalized.

### *Other Associated Agreements*

The Management Agreement will also serve as an umbrella for a series of future agreements necessary to implement the Project, each of which will be attached as exhibits. A brief description of each agreement follows.

1. Contributed Funds Agreement - Mechanism for transferring funds between SLDMWA and Reclamation for planning, design, and construction costs.
2. Spend Plan - Defines magnitude and timing of future financial contributions and serves as mechanism for maintaining an appropriate cost share.
3. Coordination Agreement - Describes communication and coordination between Reclamation and Project participants through an entity designated as the Water Coordinator.
4. Operations and Maintenance Agreement - Describes cost share obligations for future Project operations, maintenance, and replacements.
5. Final Storage Benefits - Describes the final allocation of storage benefits and serves as a mechanism to adjust the cost share if necessary.

### **Project Funding**

Valley Water has made a total financial contribution of approximately \$1.8 million towards the planning phase of the Project. Collectively, the participants have previously contributed approximately \$3.9 million. The next request for funding is anticipated to occur in late 2024 or early 2025 and would require an additional \$3.5 million collectively from the participants. This would be followed by a more significant contribution of approximately \$20 million in early 2026 to complete Project design. In total, it is expected that the total cost of the planning and design for project participants would add up to about \$27.5 million. Major construction funding and approval of the Project is expected in early 2028.

Reclamation has made a total commitment of \$170 million of federal funding available from the Water Infrastructure Improvements for the Nation Act (WIIN Act) to cover the 30 percent federal share of the Project. Execution of the Management Agreement will allow Reclamation to access these funds for construction. Project participants will fund the remaining 70 percent share, with Valley Water covering 65 percent of participant costs, corresponding to our 60,000 AF storage reservation. However, Valley Water and SLDMWA are currently pursuing additional State and federal transportation funding that may offset Project costs for participants.

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**Next Steps**

Reclamation is currently developing the schedule and milestones for the Project, but some uncertainty remains. After completion of the Management Agreement, Reclamation will move into the design phase of the project. It will also begin negotiating the series of agreements described above, as well as those agreements with DWR that are needed to implement the Project.

**Water Supply Master Plan (WSMP) Context**

Valley Water's water supply planning process indicates that Valley Water frequently uses the Semitropic Groundwater Storage Bank in Kern County to meet its storage needs, and that greater diversification of storage investments may be required to meet level of service goals in the future. As described in the WSMP, Valley Water's existing supplies exceed our needs in some years, and additional facilities may increase the ability to store these excess supplies for use in dry years. The Sisk Dam Raise could provide a potential water storage to augment Semitropic or an alternative if our share in Semitropic were reduced. Valley Water is in the process of updating the WSMP analysis to include evaluation of this Project, in addition to other storage projects.

**ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:**

The B.F. Sisk Dam and Reservoir Expansion Project addresses water supply equity by ensuring a cost-effective, high-quality supply is available for all of Santa Clara County, including disadvantaged communities.

**ATTACHMENTS:**

Attachment 1: PowerPoint

**UNCLASSIFIED MANAGER:**

Vincent Gin, 408-630-2633



# B.F. Sisk Dam Raise and Reservoir Expansion Project

Water Supply and Demand Management Committee, August 26, 2024

# Concurrent Projects

## Safety of Dams Project:

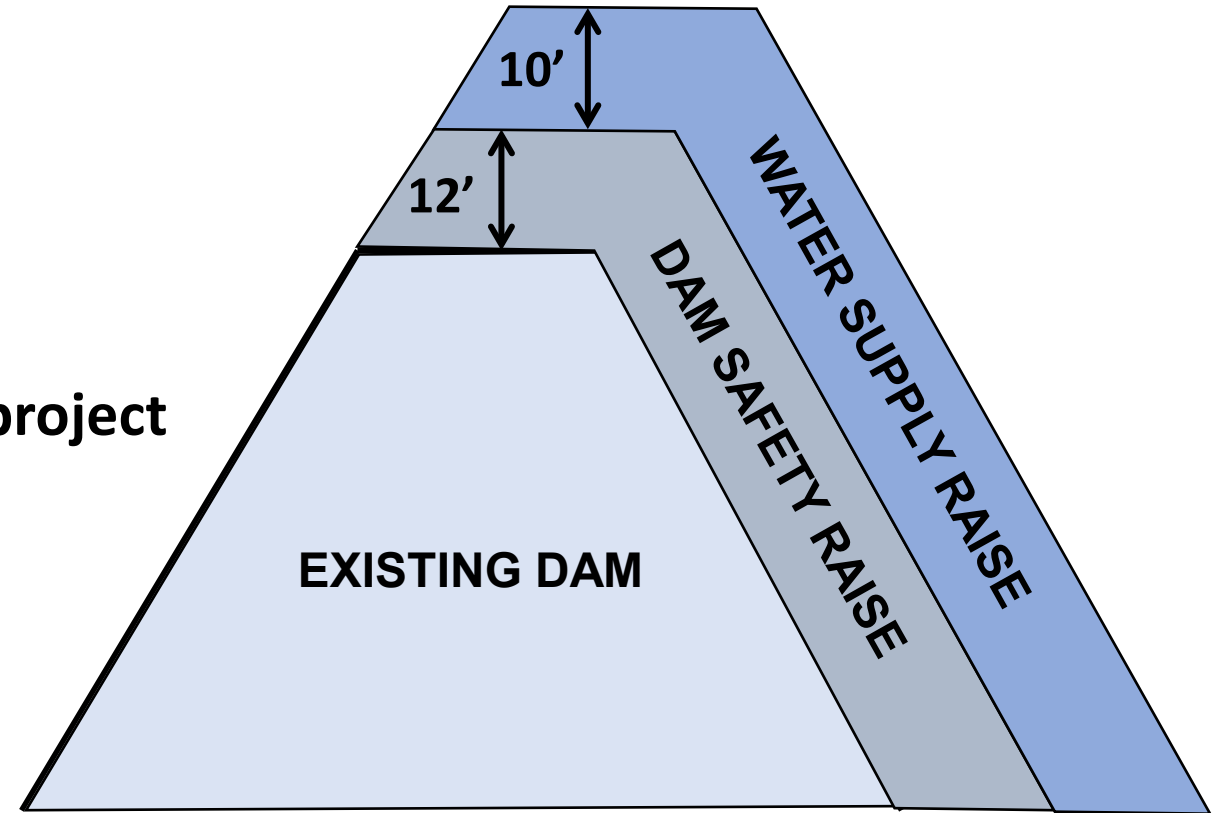
- Seismic repairs
- No additional storage
- Already underway

## B.F. Sisk Dam Raise Project:

- 130,000 acre-feet (AF) new storage
- Schedule driven by Safety of Dams project

## Combined Projects:

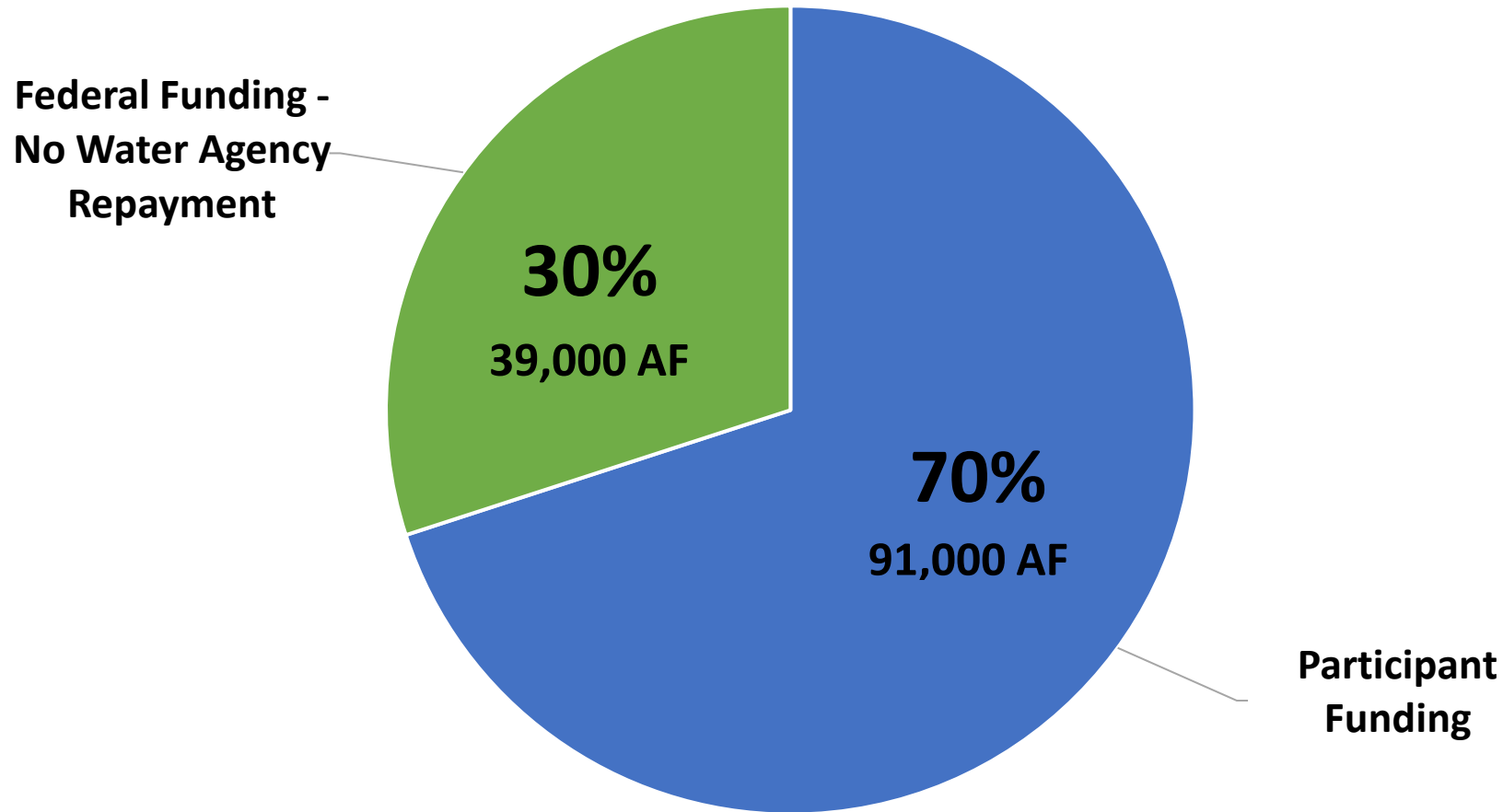
- Cost and schedule savings
- Reduced environmental impact



# Proposed Funding and Storage Split

➤ **WIIN Act: 30 percent**

➤ **Project Partners: 70 percent**





# Current Storage Requests

Participating Agency	Requested Storage Capacity (AF)	Participation Level*
Santa Clara Valley Water District	60,000	65.9%
Westlands Water District	11,253	12.4%
City of Tracy	5,000	5.5%
San Benito County Water District	5,000	5.5%
San Luis Water District	4,497	4.9%
Del Puerto Water District	3,650	4.0%
Byron Bethany Irrigation District	1,000	1.1%
Pacheco Water District	600	0.7%
<b>Total</b>	<b>91,000</b>	<b>100.0%</b>

\*Reflects each Investor's share of the 70% non-federal portion of the Project, while the federal share constitutes the remaining 30%.



# Cost Share and Management Agreement

- **Construction responsibilities**
  - **Dam Raise: U.S. Bureau of Reclamation**
  - **State Route 152: SLDMWA or CalTrans**
- **Operations framework**
  - **Reclamation retains ownership of San Luis Reservoir**
  - **Participants provided contractual storage rights**

# Cost Share and Management Agreement

- **Participant benefits**
  - **Flexible and reliable south of the Delta storage**
  - **Ability to capture surplus water already available through existing contracts/water rights**
  - **Non-Central Valley Project water and other water types expected to have a high level of protection**
  - **Option to lease or market capacity to offset costs**

# Cost Share and Management Agreement

- **Participant risks**

- **Reclamation may access stored Central Valley Project water during droughts**
- **Shared project subject to group governance**

# Cost Share and Management Agreement

- **Associated future agreements**
  - **Contributed funds agreement**
  - **Spend plan**
  - **Coordination agreement**
  - **Operations and maintenance agreement**
  - **Final storage benefits**

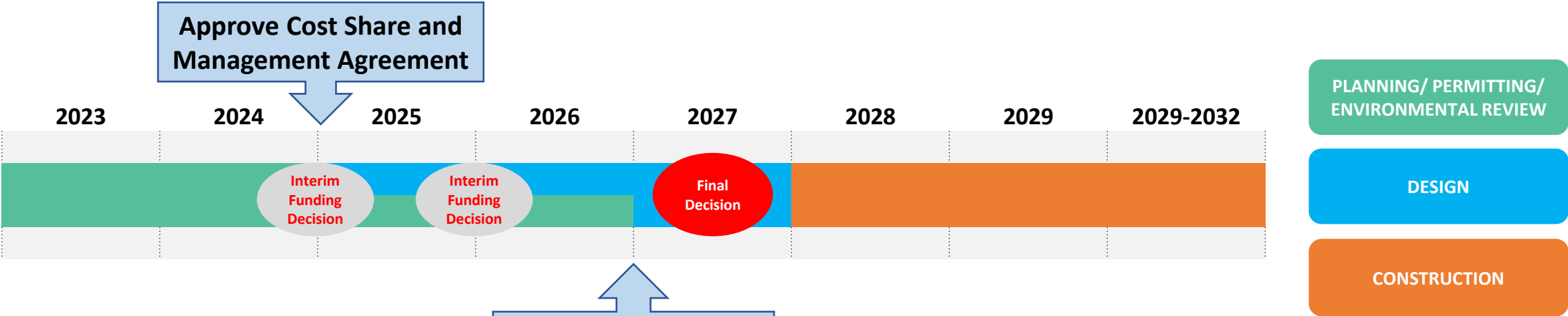
# Board Decision Schedule

**Planning cost requests:**  
(Valley Water share \$15.5 million)

**\$3.5 Million - Late 2024**  
**\$20 Million - Early 2026**

**Construction funding :**  
(Valley Water share \$435 million)

**\$659 Million - Early 2028**  
(2023 dollars - without financing)



# Next Steps

- **Complete negotiations on Management Agreement**
- **Board approval of Management Agreement and additional funding – late 2024**
- **Begin negotiations for subsequent agreements**
- **Evaluate financing and governance options**



# Valley Water

Clean Water • Healthy Environment • Flood Protection

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# Santa Clara Valley Water District

**File No.:** 24-0725

**Agenda Date:** 8/26/2024

**Item No.:** 4.3.

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## **COMMITTEE AGENDA MEMORANDUM** **Water Supply and Demand Management Committee**

Government Code § 84308 Applies: Yes ☐ No ☒  
(If "YES" Complete Attachment A - Gov. Code § 84308)

### **SUBJECT:**

Receive an Informational Update on the Unique Requirements for the Pacheco Reservoir Expansion Project, Including Resulting Unique Benefits.

### **RECOMMENDATION:**

Receive an informational update on the unique requirements for the Pacheco Reservoir Expansion Project, including resulting unique benefits.

### **SUMMARY:**

On October 13, 2023, staff and Committee Member Hsueh presented potential topics regarding the Pacheco Reservoir Expansion Project (Project) to be brought before the Water Storage Exploratory Committee (now the Water Supply and Demand Management Committee (WSDM)) for more detailed discussion in future quarterly updates, and later, to be brought before the full Board of Directors (Board) for discussion. This approach and these proposed Project topics were discussed before the Board and approved.

In response to this list of future topics, staff has prepared a presentation detailing several elements that are unique to this Project.

Operations of the expanded reservoir will differ from other Valley Water reservoirs in that it will be primarily used as emergency water supply. Existing Valley Water reservoirs operate on an annual fill and drain pattern, whereas the expanded Pacheco reservoir will follow a multi-year fill and drain pattern. An expanded Pacheco reservoir would allow Valley Water to capture additional Municipal & Industrial (M&I) water supply and improve M&I water quality by modifying delivery patterns from San Luis Reservoir. However, this may require changes to imported-water water rights or water service contracts. Valley Water will also seek its own new water right on the North Fork of Pacheco Creek, while honoring the existing water right for the Pacheco Pass Water District by requesting to change the point of storage.

Additionally, the Project will provide unique environmental benefits by releasing water for fish benefit

in the Pacheco Creek system and separately providing water to the San Joaquin Watershed wildlife refuges.

As part of the Water Storage Investment Program, the Project will require Public Benefit Contracts with the Administering Agencies, in this case the California Department of Water Resources and the California Department of Fish and Wildlife. A full funding agreement with the California Water Commission will also need to be completed.

The Project will provide a unique opportunity to capture surplus imported water supplies, supplemental contract water that cannot be stored at any CVP and SWP facilities, which would need to be moved to a Valley Water facility.

Staff will also discuss other unique elements, such as incidental flood control and the partnership opportunity, which will also be a topic for a future presentation.

After this meeting, staff intends to discuss these unique Project elements to the Board in October 2024. Staff will then present the next Project topic from the list to the WSDM in December 2024 and to the Board in January 2025.

**ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:**

There are no Environmental Justice impacts associated with this item.

**ATTACHMENTS:**

Attachment 1: PowerPoint

**UNCLASSIFIED MANAGER:**

Ryan McCarter, 408-630-2983





# Pacheco Reservoir Expansion Project

Water Supply and Demand Management Committee Meeting  
August 26, 2024



# Operations of Expanded Pacheco Reservoir



# Expanded Pacheco Reservoir Operations

## Emergency Water Supply

*WSIP Public Benefit*



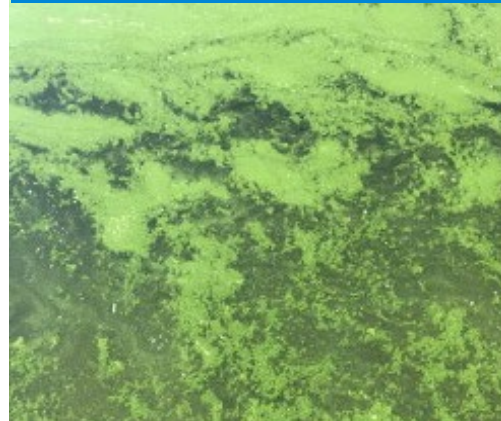
Capture and store local and imported water during wet periods with excess supplies and use during emergencies (e.g., system outages) and droughts

## M&I Water Supply (non-emergency)



Capture and store water (including CVP/SWP allocations) during periods with excess supplies and release to meet unmet Valley Water customer demands

## M&I Water Quality



Modify delivery patterns from San Luis Reservoir and release stored supplies from expanded Pacheco Reservoir during low point events at San Luis Reservoir

## Environmental Enhancement: Pacheco Creek Fisheries

*WSIP Public Benefit*



Capture natural inflows for release to Pacheco Creek for improved flow and temperature conditions for federally threatened South-Central California Coast Steelhead

## Environmental Enhancement: San Joaquin Watershed Wildlife Refuges

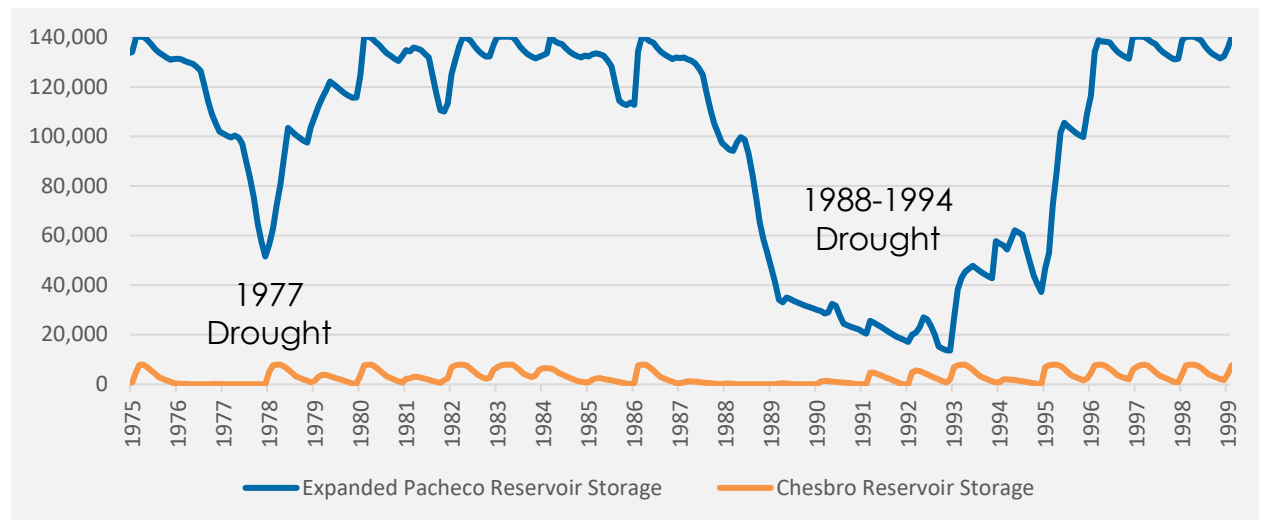
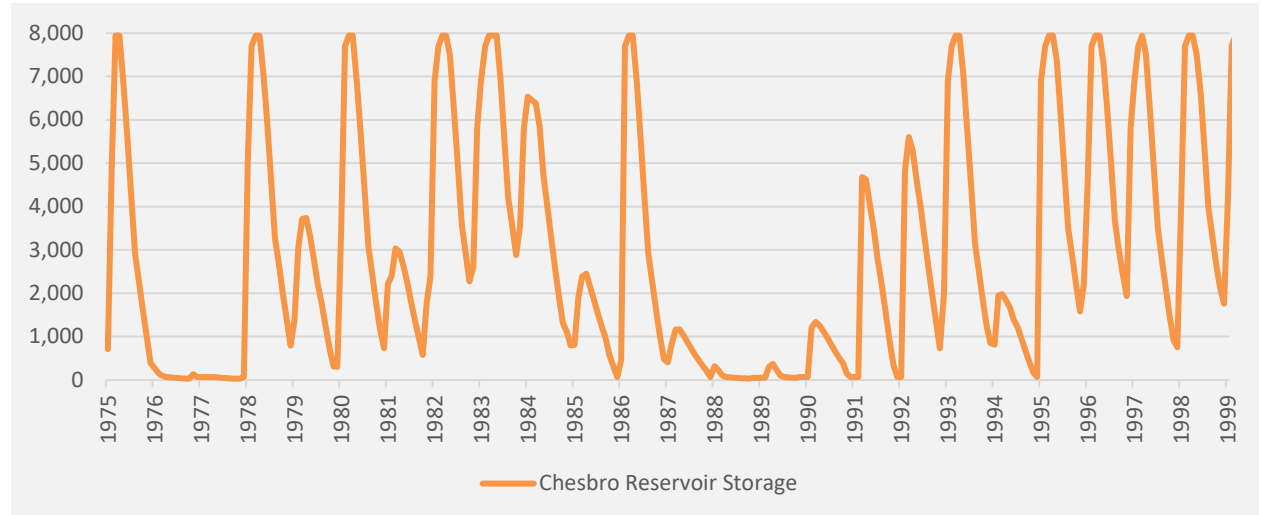
*WSIP Public Benefit*



Through improved system flexibility and efficiency, provide additional water supplies to south of Delta wildlife refuges in below-normal years

# Reservoir Operations: Annual vs. Multi-Year

- Existing Valley Water reservoirs
  - Annual fill and drain pattern
  - Limited water quantities carried to next year water reserves
  - Limited ability to provide supplies during droughts
- Expanded Pacheco Reservoir
  - Multi-year fill and drain patterns (wet period to drought period)
  - Significant water quantities carried over in reservoir as future water supply reserves
  - Significant ability to provide supplies during system outage emergencies and droughts



Notes:

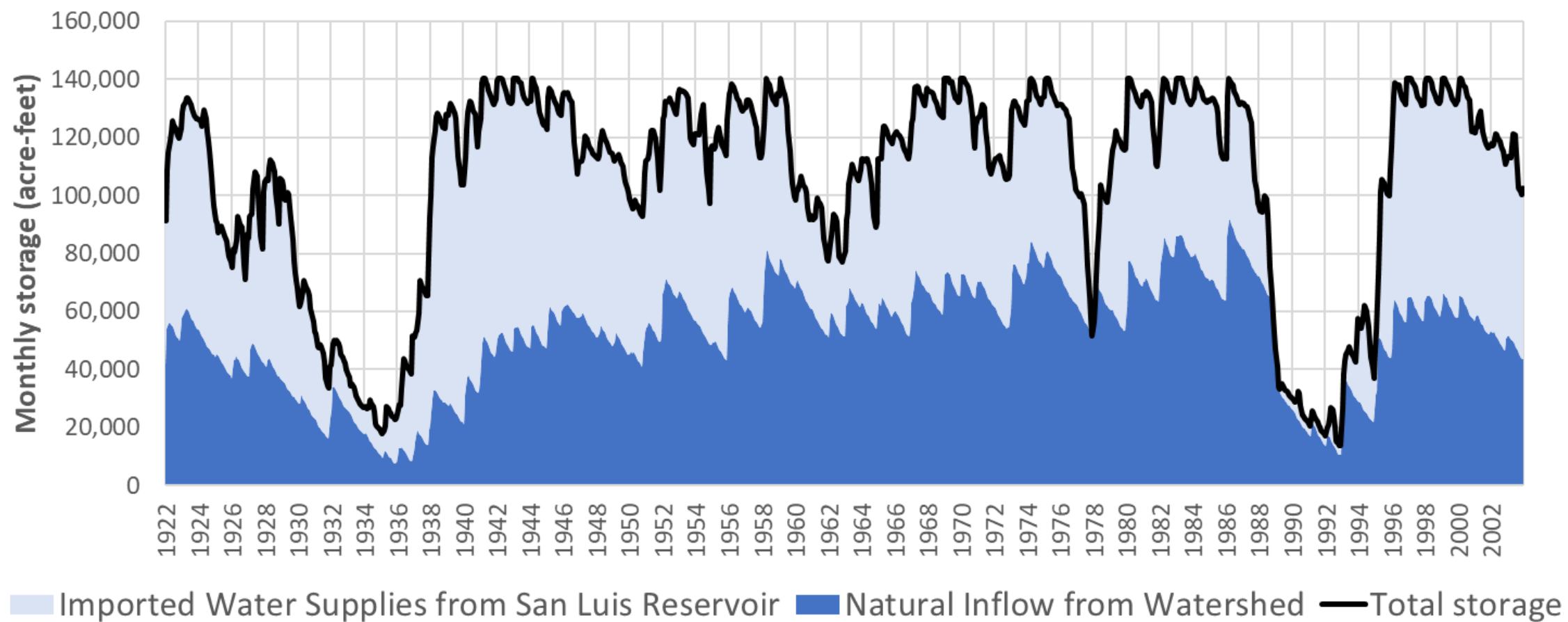
- Based on Draft EIR simulations for 2030 conditions (including climate change)



# Water Rights Processes with California State Water Resources Control Board



# Expanded Reservoir Water Sources



Results from Proposed Project for 2030 conditions (including climate change)



# Water Rights

7

Potential Changes to Imported Water Contracts or Water Rights



Water right or contractual changes may be necessary to store imported water supplies, pending upcoming discussions

Pacheco Pass Water District Water Right Permit 004312 (7,250 acre-feet annually)



Change petition to modify point of diversion for existing North Fork Dam to location of new dam

New Water Right for North Fork Pacheco Creek Natural Inflows



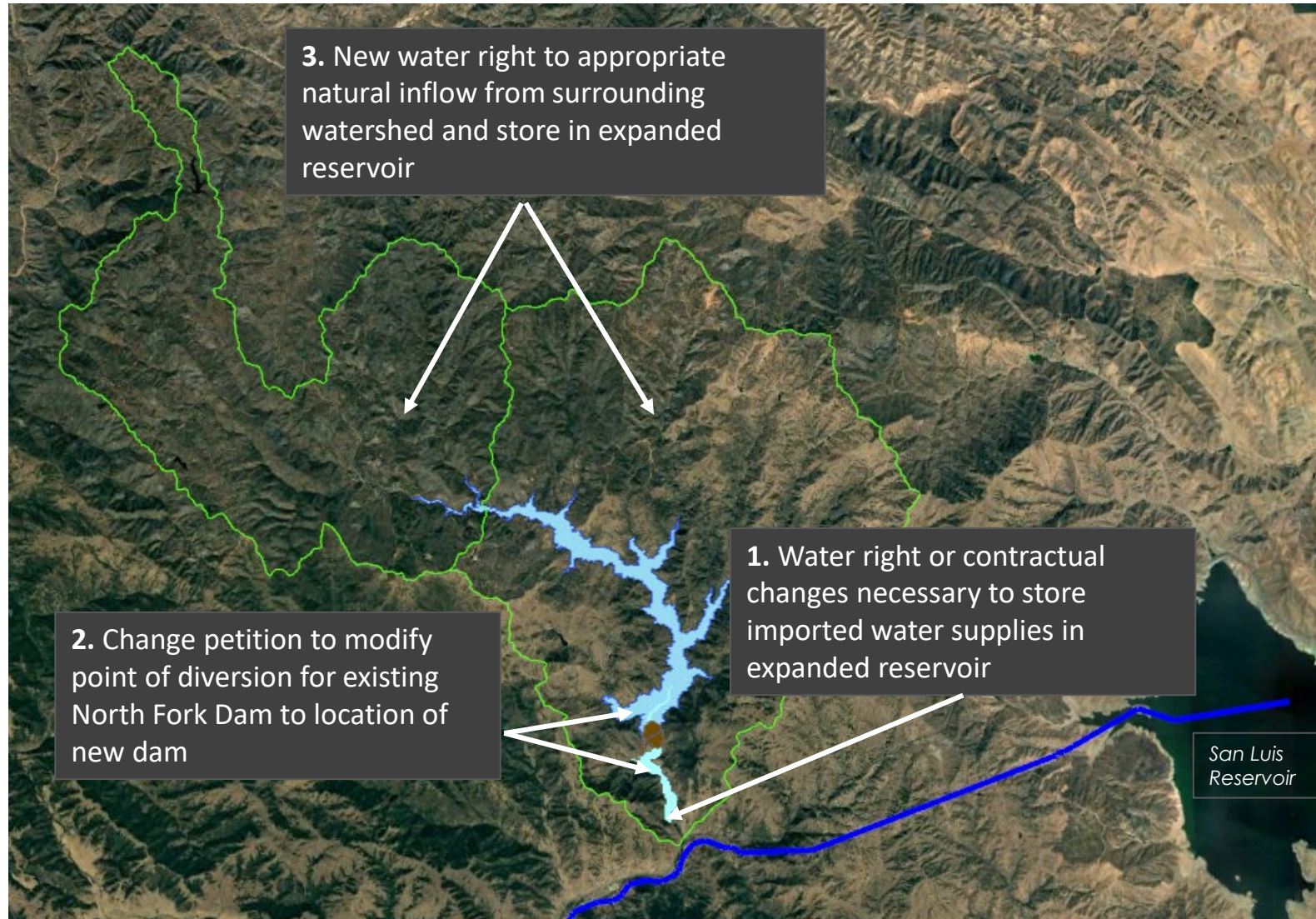
New water right to appropriate natural inflow from surrounding watershed for storage



# Water Rights Process

8

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# Water Storage Investment Contracts for Program Public Benefits and Funding Agreement



# Water Storage Investment Program Contracts and Agreements



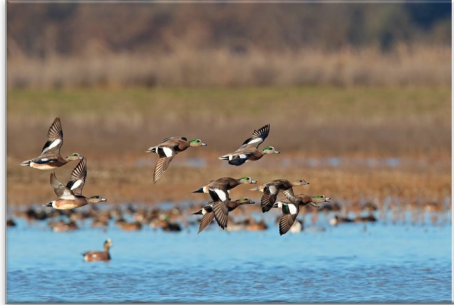
- Public Benefit Contracts with Administering Agencies (DWR and CDFW)
  - Required for each public benefit
    - Emergency response
    - Environmental enhancement - Pacheco Creek Fisheries
    - Environmental enhancement - San Joaquin Watershed Wildlife Refuges
  - Each contract to include an adaptive management plan for public benefit including monitoring, metric evaluation methods, and decision-making processes
- Funding Agreement
  - California Water Commission



*Pictured above: Pacheco Creek below Existing North Fork Dam*



# WSIP Contracts for Administering Public Benefits

Public Benefit Type	Contract Entity	Contract Considerations
	Emergency Water Supply	California Department of Water Resources
	Environmental Enhancement: Pacheco Creek Fisheries	California Department of Fish and Wildlife
	Environmental Enhancement: San Joaquin Watershed Wildlife Refuges	California Department of Fish and Wildlife

# California Water Commission Funding Agreement

*Requirements for final approval of the WSIP funding agreement and encumbrment of funds requires:*

- Contracts executed with DWR and CDFW for public benefits (emergency water supply and environmental enhancements)
- Completed feasibility studies
- Completed final environmental documentation
- Obtained federal, state, and local approvals and permits
- Contracts executed with other beneficiaries that derive benefits from the project



Pictured above: Existing Pacheco Reservoir March 2024



# Ability to Capture Natural Inflows and Unstorable\* CVP and SWP Supplies



\*Excess Delta Water that can not be stored at any CVP or SWP storage facilities – need to be moved to Valley Water facilities



# Ability to Capture Natural Inflows and Unstorable CVP and SWP Supplies

- Capture of natural inflows in expanded Pacheco Reservoir
- Section 215 water (unstorable CVP supplies) can be conveyed via Delta-Mendota Canal, San Luis Reservoir, and Pacheco Conduit to expanded Pacheco Reservoir
- Article 21 water (unstorable SWP supplies) can be conveyed via California Aqueduct, San Luis Reservoir, and Pacheco Conduit to expanded Pacheco Reservoir
- Storing unstorable water in Pacheco during wet years can help reduce reliance on Delta during drier years



# Ability to Secure Drought and Emergency Water Supply: 2023 Water Year Case Study

15

42,900 acre-feet

**Natural Inflow**

- Increased capture of natural inflow by expanded reservoir

58,000 acre-feet

**SWP Article 21 and CVP Section 215**

- Increased capture of unstorable CVP and SWP water supplies and storage within expanded reservoir

20,200 acre-feet

**San Luis Reservoir Carryover Protection**

- CVP water in San Luis Reservoir that could have been stored in Pacheco for future use

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# Other Unique Elements

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## Partnership Opportunity

- Up to 50,000 AF of storage capacity available for Partners.
- More in depth presentation to follow in the future.

## Incidental Flood Protection

- Operated without flood rule curve but with empty space for winter flood flow capture.
- Reduces extensive flooding even for frequent/small events; 3 events in last seven years.

## First new reservoir in Santa Clara County since 1957 (Uvas)

- Expands upon an existing reservoir not currently owned by Valley Water.

# QUESTIONS



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# Santa Clara Valley Water District

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**File No.:** 24-0734

**Agenda Date:** 8/26/2024

**Item No.:** 4.4.

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## **COMMITTEE AGENDA MEMORANDUM** **Water Supply and Demand Management Committee**

Government Code § 84308 Applies: Yes ☐ No ☒  
(If "YES" Complete Attachment A - Gov. Code § 84308)

### **SUBJECT:**

Review and Discuss the Water Supply and Demand Management Committee (WSDMC) Work Plan.

### **RECOMMENDATION:**

Review and discuss the WSDMC Work Plan.

### **SUMMARY:**

Under direction of the Clerk, Work Plans are used by Board Committees to increase Committee efficiency, provide increased public notice of intended Committee discussions, and enable improved follow-up by staff. Work Plans are dynamic documents managed by Committee Chairs and are subject to change.

### **ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:**

The Committee's Work Plan is not subject to environmental justice analysis.

### **ATTACHMENTS:**

Attachment 1: 2024 WSDMC Work Plan

### **UNCLASSIFIED MANAGER:**

Candice Kwok-Smith, 408-630-3193.

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## PROPOSED Water Supply and Demand Management Committee 2024 WORKPLAN

Task	Agenda Item	January	February	March	April	May	June	July	August	September	October	November	December
<b>FY 24</b>	<b>Drought Preparation</b>												
1.1	Drought Response Plan						X						
<b>FY 23</b>	<b>WSMP Strategy 1: Secure Existing Supplies - 99,000 AF Conservation by 2030</b>												
2.1	Water Conservation Savings Model/Annual Water Conservation Savings					X							
2.2	Water Conservation as a Way of Life recommendations (including water waste restrictions)								X				
2.3	New Programs (Lawn Busters, Pilot programs, landscape design assistance, demonstration garden, + affordability discussion/supporting underserved communities)					X			X				
2.5	Safe Clean Water (SCW) Funding (Landscape Rebate Prog. (LRP) & Demo Garden)							X					
2.6	Collaboration with Retailers+outreach, including Renters/Landlords											X	
<b>FY 24</b>	<b>WSMP Strategy 2: Increase Water Conservation (109,000 AF) and Stormwater Capture (1,000 AF) by 2040</b>												
3.1	Investments in no-regrets package, including stormwater resource plan						X						
3.2	Stormwater Capture/ FloodMAR						X						
3.3	Find opportunities to ensure new development has improved water wise features (MWENDO, land use coordination)								X				
3.4	Resource Needs										X		
3.5	Review long-term goals as part of WSMP update	X				X							
<b>FY 24</b>	<b>WSMP Strategy 3 Optimize the Use of Existing Supplies and Infrastructure (SGMA/groundwater management and storage projects)</b>												
4.1	Sustainable Groundwater Management Act (SGMA) - annual update										X		
4.2	South County Recharge										X		
4.3	Los Vaqueros Reservoir Expansion Project						X					X	
4.4	Sites Reservoir Expansion						X						
4.5	BF Sisk Dam Raise						X		X				X
4.6	Groundwater Banking Opportunities										X		
4.7	Semitropic Groundwater bank										X		
4.8	Pacheco Reservoir Expansion Project					X			X			X	

\*Red item added.



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