



October 19, 2021

## **NOTICE OF MEETING – REQUEST FOR RSVPS**

Members of the Joint Recycled Water Policy Committee with Cities of Palo Alto, East Palo Alto and Mountain View

### **Santa Clara Valley Water District:**

Director Hon. Tony Estremera  
Director Hon. Gary Kremen, Committee Chair  
Director Hon. Richard P. Santos

### **City of Palo Alto:**

Councilmember Hon. Alison Cormack  
Councilmember Hon. Eric Filseth

### **City of East Palo Alto:**

Councilmember Hon. Lisa Gauthier  
Councilmember Hon. Carlos Romero, Alternate

### **City of Mountain View:**

Councilmember Hon. Pat Showalter  
Councilmember Hon. Lucas Ramirez, Alternate

### **Supporting Valley Water Staff Members:**

Rick Callender, Esq., Chief Executive Officer  
Melanie Richardson, Assistant Chief Executive Officer  
Aaron Baker, Chief Operating Officer, Water Utility  
Rachael Gibson, Chief of External Affairs  
Darin Taylor, Chief Financial Officer  
Carlos Orellana, District Counsel  
Anthony Fulcher, Senior Assistant District Counsel  
Brian Hopper, Senior Assistant District Counsel  
Heath McMahon, Deputy Operating Officer, Water Utility Capital  
Vincent Gin, Deputy Operating Officer, Water Supply Division  
Don Rocha, Deputy Administrative Officer, Office of Government Relations  
Gregory Williams, Deputy Operating Officer, Raw Water Division  
Kirsten Struve, Assistant Officer, Water Supply Division Deputy's Office  
Hossein Ashktorab, Unit Manager, Recycled & Purified Water  
Charlene Sun, Treasury and Debt Manager  
Henry Barrientos, Senior Water Resources Specialist  
Sherilyn Tran, Civic Engagement Unit Manager  
Kristen Yasukawa, Supervising Program Administrator  
Elise Latedjou-Durand, Senior Environmental Planner

**Supporting City of Palo Alto Staff Members:**

Phil Bobel, Assistant Director of Public Works Department  
Danielle Kang, Assistant City Clerk  
Karla Dailey, Senior Resources Planner, Utilities Department  
Brad Eggleston, Director Public Works  
Samantha Engelage, Senior Engineer  
Diego Martinez Garcia, Associate Engineer, Environ Servs Div. Public Works  
Lesley Milton, City Clerk  
Karin North, Manager, Watershed Protection

**Supporting City of East Palo Staff Member:**

Michelle Daher, Management Analyst  
Kamal Fallaha, Public Works Dir/City Engr  
Humza Javed, Senior Engineer  
Walfred Solorzano, City Clerk/Public Information Officer

**Supporting City of Mountain View Staff Member:**

Lisa Au, Assistant Public Works Director  
Dawn Cameron, Public Works Director  
Heather Glaser, City Clerk  
Wanda Wong, Deputy City Clerk

The regular meeting of the Santa Clara Valley Water District Joint Recycled Water Advisory Committee with Cities of East Palo Alto//Mountain View/Palo Alto is scheduled to be held on **Monday, October 25, 2021, at 2:00 p.m.**, via Zoom; <https://valleywater.zoom.us/j/81779591894>

A copy of the agenda and corresponding materials are on the following link:  
<https://www.valleywater.org/how-we-operate/committees/board-advisory-committees>.

Please have these materials available for the meeting.

Thank you!

Glenna Brambill  
Management Analyst II  
Santa Clara Valley Water District  
Office of the Clerk of the Board  
1-408-630-2408

Join Zoom Meeting

<https://valleywater.zoom.us/j/81779591894>

Meeting ID: 817 7959 1894

One tap mobile

+16699009128,,81779591894# US (San Jose)

+12532158782,,81779591894# US (Tacoma)

Dial by your location

+1 669 900 9128 US (San Jose)

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Meeting ID: 817 7959 1894

Find your local number: <https://valleywater.zoom.us/u/kcRSMXMNzh>





## Santa Clara Valley Water District Joint Recycled Water Policy Committee with Cities of PA/EPA/MV

**Teleconference Via Zoom**

**Join Zoom Meeting:**

**<https://valleywater.zoom.us/j/81779591894>**

### REGULAR MEETING AGENDA

**Monday, October 25, 2021  
2:00 PM**

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

JOINT RECYCLED WATER POLICY  
COMMITTEE W/ CITIES OF PALO  
ALTO, EAST PALO ALTO &  
MOUNTAIN VIEW

Gary Kremen - District 7, Committee  
Chair

Tony Estremera - District 6  
Richard P. Santos - District 3

During the COVID-19 restrictions, all public records relating to an open session 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 to the public through the legislative body agenda web page 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 participate in the legislative body's meeting. Please advise the Clerk of the Board Office of any special needs by calling (408) 265-2600.

Ms. Kirsten Struve, (Staff  
Liaison)

Ms. Glenna Brambill, (COB  
Liaison)  
Management Analyst II  
gbrambill@valleywater.org  
1-408-630-2408

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

**Santa Clara Valley Water District**  
**Joint Recycled Water Policy Committee with Cities of PA/EPA/MV**  
**REGULAR MEETING**  
**AGENDA**

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Monday, October 25, 2021

2:00 PM

Teleconference Via Zoom

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IMPORTANT NOTICES

This meeting is being held in accordance with the Brown Act as currently in effect and Santa Clara Valley Water District Resolution 21-85, adopted on September 28, 2021, in compliance with the provisions of AB361 (Rivas), that allows attendance by members of the Board of Directors, Board Committees, District staff, and the public to conduct and participate in meetings of the legislative bodies by teleconference, videoconference, or both.

In accordance with the requirements of Gov. Code Section 54954.3(a), members of the public wishing to address the Board/Committee at a video conferenced meeting, during public comment or on any item listed on the agenda, should use the "Raise Hand" tool located in the Zoom meeting link listed on the agenda, at the time the item is called. Speakers will be acknowledged by the Board Chair in the order requests are received and granted speaking access to address the Board.

Santa Clara Valley Water District (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 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/81779591894>**

**Dial by your location**  
**+1 669 900 9128 US (San Jose)**  
**Meeting ID: 817 7959 1894**

**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 Committee on any item not listed on the agenda should access the "Raise Hand" tool located in Zoom meeting link listed on the agenda. Speakers will be acknowledged by the Committee Chair in order requests are received and granted speaking access to address the Committee. Speakers comments should be limited to two minutes or as set by the Chair. The law does not permit Committee action on, or extended discussion of, any item not on the agenda except under special circumstances. If 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 Committee may take action on any item of business appearing on the posted agenda.*

**3. APPROVAL OF MINUTES:**

3.1. Approval of Minutes

[21-1076](#)

Recommendation: Approve the June 4, 2021, Meeting Minutes

Manager: Candice Kwok-Smith, 408-630-3193

Attachments: [Attachment 1: 06042021 Jt RWPC Draft Mins](#)

Est. Staff Time: 5 Minutes

**4. ACTION ITEMS:**

- 4.1. Update on collaboration with partners related to purified water. [21-1078](#)

Recommendation: Receive information on Valley Water collaboration with partners related to purified water including update on P3 (public private partnership) and provide feedback

Manager: Kirsten Struve, 408-630-3138

Est. Staff Time: 20 Minutes

- 4.2. Countywide Water Reuse Master Plan. [21-1077](#)

Recommendation: Receive information on the final Countywide Water Reuse Master Plan.

Manager: Kirsten Struve, 408-630-3138

Attachments: [Attachment 1: CoRe Plan PowerPoint](#)

[Attachment 2: CoRe Plan-Link](#)

[Attachment 3: CoRe Plan Appendices LINK](#)

Est. Staff Time: 20 Minutes

- 4.3. Next Meeting and Agenda Items. [21-1079](#)

Recommendation: Discuss and confirm next meeting date and agenda items.

Manager: Candice Kwok-Smith, 408-630-3193

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 to be called to order in compliance with the Brown Act as currently in effect and Santa Clara Valley Water District Resolution 21-85, adopted on September 28, 2021, in compliance with the provisions of AB361 (Rivas).





# Santa Clara Valley Water District

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**File No.:** 21-1076

**Agenda Date:** 10/25/2021

**Item No.:** 3.1.

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## COMMITTEE AGENDA MEMORANDUM

### Joint RWPC with Cities of Palo Alto/E. Palo Alto/Mtn View

**SUBJECT:**

Approval of Minutes

**RECOMMENDATION:**

Approve the June 4, 2021, Meeting 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.

**ATTACHMENTS:**

Attachment 1: 06042021 Jt RWPC Meeting Minutes

**UNCLASSIFIED MANAGER:**

Candice Kwok-Smith, 408-630-3193





**JOINT RECYCLED WATER POLICY COMMITTEE MEETING  
(CITIES OF PALO ALTO/EAST PALO ALTO/MOUNTAIN VIEW/VALLEY WATER)**

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# DRAFT MINUTES

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**FRIDAY, JUNE 4, 2021  
12:00 PM**

(Paragraph numbers coincide with agenda item numbers)

A meeting of the Joint Recycled Water Policy Committee (Palo Alto/East Palo Alto, Mountain View) (Committee) was held on June 4, 2021, via Zoom in San Jose, California.

**1. CALL TO ORDER/ROLL CALL**

A meeting of the Joint Recycled Water Policy Committee (Palo Alto/East Palo Alto, Mountain View) was called to order by Committee Chair Director Gary Kremen at 12:03 p.m.

Committee Members in attendance were: City of East Palo Alto Mayor/Councilmember: Hon. Lisa Gauthier; City of Mountain View Councilmember: Hon. Pat Showalter, City of Palo Alto Council Member: Hon. Alison Cormack and Hon. Eric Filseth; Valley Water Board Representatives: Director Tony Estremera (District 6), Director Gary Kremen (District 7), and Director Richard P. Santos (District 3).

Valley Water Staff in attendance were: Gina Adriano, Hossein Ashktorab, Henry Barrientos, Rechelle Blank, Glenna Brambill, Domingo Candelas, Phillippe Daniel (Contractor), Sunshine Julian, Albert Le, Marta Lugo, Heath McMahon, Kirsten Struve, Sherilyn Tran, and David Tucker.

Guests in attendance were: City of East Palo Alto: Bartool Zaro, City of Palo Alto: Karla Dailey, Diego Martinez Garcia, and Karin North, City of Mountain View: Lisa Au, and Silicon Valley Advisors LLC: Pete Carrillo.

Public attendees were: Greg Bazydola, A. Bowers, Sanjay Reddy, and Director John L. Varela (Valley Water, District 1).

Attachment 1  
Page 1 of 3

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

There was no one present who wished to speak.

**3. APPROVAL OF MINUTES**

It was moved by Director Richard P. Santos, seconded by Hon. Pat Showalter and carried, by roll call and unanimous vote to approve the minutes of the February 22, 2021, Joint Recycled Water Policy Committee meeting, as presented.

**4. ACTION ITEMS**

**4.1 UPDATE ON PURIFIED WATER PROJECT**

Ms. Kirsten Struve and Ms. Sherilyn Tran Ashktorab reviewed the materials as outlined in the agenda item.

The Joint Recycled Water Policy Committee (Palo Alto/East Palo Alto, Mountain View) discussed the following: suggested outreach organizations in Mountain View (Carbon Free Mountain View and Mountain View Coalition for Sustainable Planning), wetlands have been delineated, risk allocation defined, schedule, check presentation event on June 18<sup>th</sup> at 9:00 a.m., and drought emergency.

Ms. Karin North and Director Tony Estremera were available to answer questions.

The Joint Recycled Water Policy Committee (Palo Alto/East Palo Alto, Mountain View) took no action.

**4.2 DISCUSS SOUTH SAN FRANCISCO BAY SHORELINE PHASE II FEASIBILITY STUDY**

Ms. Rechelle Blank reviewed the materials as outlined in the agenda item.

The Joint Recycled Water Policy Committee (Palo Alto/East Palo Alto, Mountain View) discussed the following: San Mateo-Safer Bay project, cost share-percentages of construction, Charleston Slough. A1/A2W Restoration projects, salt ponds and levees, noted these type of projects began approximately 15 years ago to emphasize habitat restoration but also vital for sea level rise and flood protection.

Ms. Lisa Au gave an update on the Ponds A1 and A2W managed by the California State Coastal Conservancy (CSCC). Started with eastern pond in Mountain View is A2W. CSCC will be hauling in soil this summer after receiving excavation permit. Also, CSCC is near completion of the design plans, once final, they will go out to bid to hire contractor to start South Bay Salt Pond

Restoration Project A2W. Mountain View is continuing to work on design of A1, along with Coast Casey Levee, coordination with the Charleston Slough and Palo Alto subbasin.

The Joint Recycled Water Policy Committee (Palo Alto/East Palo Alto, Mountain View) took no action.

#### **4.3 NEXT MEETING AND AGENDA ITEMS**

Committee Chair Director Kremen reviewed the materials as outlined in the agenda item.

The Joint Recycled Water Policy Committee (Palo Alto/EPA, Mtn View) took no action.

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

Board Committee Liaison Ms. Glenna Brambill reported there were no action items for Board consideration.

#### **6. ADJOURNMENT**

Committee Chair Director Gary Kremen adjourned the meeting at 12:47 p.m. to be called to order in compliance with the State Emergency Services Act, the Governor's Emergency Declaration related to COVID-19, and the Governor's Executive Order N-29-20.

Glenna Brambill  
Board Committee Liaison  
Office of the Clerk of the Board

Approved:





# Santa Clara Valley Water District

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**File No.:** 21-1078

**Agenda Date:** 10/25/2021

**Item No.:** 4.1.

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## COMMITTEE AGENDA MEMORANDUM

### Joint RWPC with Cities of Palo Alto/E. Palo Alto/Mtn View

#### **SUBJECT:**

Update on collaboration with partners related to purified water.

#### **RECOMMENDATION:**

Receive information on Valley Water collaboration with partners related to purified water including update on P3 (public private partnership) and provide feedback

#### **SUMMARY:**

Valley Water and Palo Alto staff continue to collaborate on the Purified Water Project. The following topics will be presented at this meeting:

#### **A. Update on VW collaboration with partners related to purified water project**

Valley Water and City of Palo Alto staff have continued to collaborate on developing agreements for a land lease and RO Concentrate, coordinating outreach, as well as coordinating with regulators (see more detail below).

Valley Water and City of San José staff mutually agreed on a facilitator and have scheduled the first facilitated meeting to resume discussions on agreements needed for the Purified Water Project.

#### **B. Coordination with the San Francisco Regional Water Quality Control Board (Water Board) on RO Concentrate**

Valley Water and the City of Palo Alto have continued their collaborative efforts focused on the proper management of RO Concentrate (ROC) resulting from the future Advanced Water Purification Facility (AWPF) in Palo Alto.

Specifically, Valley Water staff - in coordination with the City of Palo Alto - prepared a plan of action (ROC Management Plan) to address ROC, which was presented to the Water Board in May 2021. Upon review of the proposed plan, the Water Board provided feedback and a second meeting was convened in August to further discuss the ROC Management Plan.

Subsequently the Water Board issued a Letter of Concurrence to Valley Water on Sep. 9, 2021 indicating that “the discharge of ROC through the existing outfall at the Palo Alto Regional Water Quality Control Plant (RWQCP) appears to be feasible”. The Letter of Concurrence also states that in the short term, compliance for ROC discharge should be achievable based on permit modifications supported by the technical studies proposed in the ROC Management Plan.

Based on the timeline of AWPf completion in 2028, the Water Board will consider necessary permit changes to the NPDES permit for Palo Alto’s RWQCP when up for renewal in 2024. These might be contingent upon continued dialogue regarding anticipated copper discharges and additional management practices to ensure compliance with foreseeable effluent limitations.

Staff will continue to work with the City of Palo Alto to carry out the steps proposed in the ROC Management Plan which include various technical studies and evaluations. It is anticipated that the aforementioned would be completed within the next three (3) years.

### **C. Status of Agreements**

Staff from both agencies continue to work on a ROC Management (ROCM) term sheet that will serve as the basis for a final ROCM Agreement. The ROCM Agreement will stipulate the agency responsibilities of the parties for and associated liabilities pertinent to proper management for future ROC discharges

### **D. Update on Land for the regional facility (Renderings and Homeless housing)**

Staff is currently reviewing the draft lease terms for the future AWPf located in Palo Alto, and is also working on the completion of a Feasibility Study to evaluate potential cleanup requirements for Area B of the former Los Altos Treatment Plant (LATP) site. In addition, renderings for the future AWPf have been drafted and will be shared with the Committee. Lastly, on August 27, 2021 the Palo Alto City Council authorized the City manager to apply for a grant to fund the temporary installation of an emergency shelter in Area C of the LATP. Valley Water, Palo Alto, and Project HomeKey staff have been coordinating on the shelter and purified water projects.

### **E. Outreach**

Valley Water continues to conduct stakeholder outreach to various groups and faith-based organizations in the Palo Alto and Mountain View areas. On September 7, staff met with Spark Church, a multi-denominational, multi-ethnic, and multi-generational church located in Palo Alto, to discuss the Purified Water Project. On September 9, Valley Water staff presented the project to the Mountain View Coalition of Sustainable Planning & Greenspaces. Staff also presented the Purified Water Project at the Palo Alto Parks and Recreation Commission on September 28. Additionally, on September 30, Valley Water met with the Santa Clara County Medical Association Environmental Committee. Staff will continue to follow up and pursue



letters of support and referrals to other organizations for continued outreach.

**F. Update on P3 (public private partnership)**

Valley Water received eight Statements of Qualification in response to the Request for Qualifications and is currently reviewing them to prepare a shortlist. The Request for Proposal is being drafted for release in early 2022.

**ATTACHMENTS:**

None.

**UNCLASSIFIED MANAGER:**

Kirsten Struve, 408-630-3138





# Santa Clara Valley Water District

File No.: 21-1077

Agenda Date: 10/25/2021

Item No.: 4.2.

## COMMITTEE AGENDA MEMORANDUM

Joint RWPC with Cities of Palo Alto/E. Palo Alto/Mtn View

### SUBJECT:

Countywide Water Reuse Master Plan.

### RECOMMENDATION:

Receive information on the final Countywide Water Reuse Master Plan.

### SUMMARY:

This item provides an update on the completion of the Santa Clara Valley Water District's (Valley Water) Countywide Water Reuse Master Plan (CoRe Plan), an integral component of Valley Water's Water Supply Master Plan. The objective of the CoRe Plan is to identify and evaluate future water reuse opportunities in collaboration with recycle water producers, wholesalers, retailers, users, and other interested stakeholders in Santa Clara County. Valley Water has set a goal of meeting at least 10% of the County's total water demand using recycled and purified water. Consequently, Valley Water developed a CoRe Plan that presents direction to provide up to 24,000 acre-feet per year of potable water reuse by 2028. The CoRe Plan (Attachment 2) was completed in June 2021 and accepted by the Valley Water Board of Directors at the August 10, 2021 Board meeting.

Since November 2018, the CoRe Plan has integrated over 15 critical engineering reports that form the Plan's reuse planning foundation and includes key stakeholder feedback into the Plan's key recommendations. The CoRe Plan has assembled the following technical memoranda into a planning compendium for future potable reuse implementation:

- Project Definition Technical Memorandum
- Baseline Analysis Technical Memorandum
- Conceptual Alternatives Technical Memorandum
- 1% Conceptual Alternatives Design
- Feasible Project Portfolios Technical Memorandum
- Draft Countywide Water Reuse Master Plan
- Non-Potable Onsite Reuse Survey
- Public Outreach and Engagement Survey
- California Water Reuse Governance Survey
- South Bay Water Recycling (SBWR) Master Plan Updates

The CoRe Plan represents the assemblage of these critical engineering and planning documents into a comprehensive water reuse planning document that describes available source water, relevant institutional arrangements, existing reuse systems, expanded reuse potential, feasible project

portfolios, and initial cost and rate payer implications. Key benefits of the CoRe Plan include:

- Describes drought-resilient water reuse opportunities that could reduce our dependence on imported water and groundwater pumping,
- Supports habitat preservation and endangered species protection by reducing freshwater discharges to the South Bay and minimizes wastewater discharge to the Pajaro River in South County,
- Enhances estuarine ecosystem improvements, including freshwater fish habitat, in statewide watersheds resulting from reduced imported water reliance,
- Reduces the concentration of emerging contaminants in potable water reuse through advanced treatment techniques that reduces emerging environmental concerns with source waters, and
- Provides planning opportunities and water supply options with improved adaptation to anticipated climate change impacts.

The CoRe Plan represents an integrated plan after three years of technical planning, development of 10 water supply portfolios with indirect and direct potable reuse options, involvement of 60 stakeholder agencies, 60+ meetings and workshops, and 1200 pages of technical support documentation (Attachment 3). The Plan includes an Executive Summary, expanded discussion of fiscal and rate payer impacts, evaluation of on-site non-potable reuse opportunities, and options for phased project implementation.

Staff will present the vision underlying the master planning effort, the journey taken to develop the CoRe Plan, and the path ahead to support future potable reuse planning and implementation throughout the County and with emphasis in Palo Alto, East Palo Alto, and Mountain View.

**ATTACHMENTS:**

- Attachment 1: PowerPoint Presentation
- Attachment 2: CoRe Plan Link Only
- Attachment 3: CoRe Plan Appendices Link Only

**UNCLASSIFIED MANAGER:**

Kirsten Struve, 408-630-3138

Regional  
**Collaboration**



Visionary  
**Results**



# Valley Water Countywide Water Reuse Master Plan (CoRe Plan)

Joint Water Recycling Policy Committee Meeting

October 25, 2021



**Valley Water**

**Brown AND Caldwell**

with HydroScience Engineers, and Trussell Technologies Inc

# Topics



1. **Vision:** Goals and Objectives.



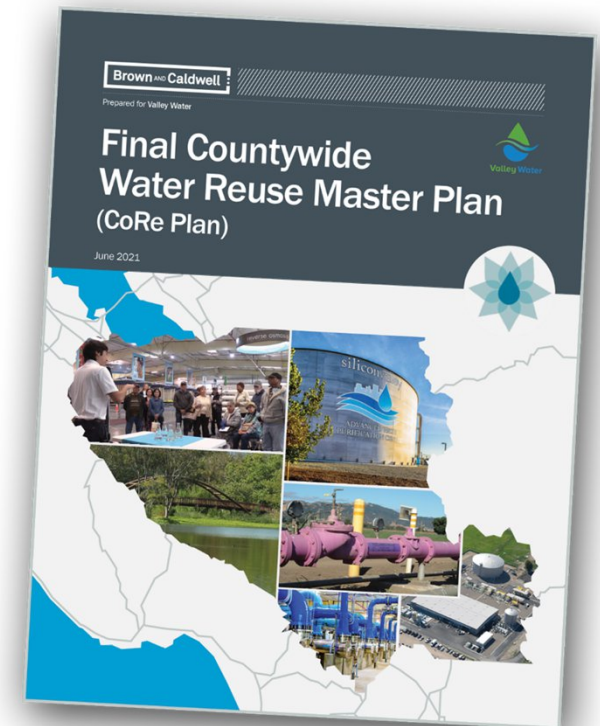
2. **Journey:** CoRe Plan development approach, reuse options evaluated, and key findings.



3. **Path Ahead:** Near-term next steps and foundation for future decision-making.

Abbreviation:

CoRe Plan = [Countywide Water Reuse Master Plan](#)



# 1. Vision

- 2. Journey
- 3. Path Ahead



with HydroScience Engineers, and Trussell Technologies Inc.



Valley Water

## Vision:

- Integrating County agencies across jurisdictional boundaries
- Building on past studies and plans developed by Valley Water and each of the four Partner Agencies
- Informed through a robust and collaborative engagement process
- Framework for collaborative decisions and integrated actions
- Programmatic and adaptive to support flexibility in future implementation



## Goal:

Identify feasible opportunities for expanding reuse as part of Valley Water's strategy to improve water supply reliability and regional self-reliance

- Aligned with Valley Water's One Water Plan and Water Supply Master Plan 2040
- Through substantial engagement and collaboration with Partner Agencies

## Objectives:

- Integrate existing recycled water systems and expand non-potable reuse
- Develop purified water systems





# Partner Agencies



Palo Alto RWQCP

Sunnyvale WPCP

San José/Santa Clara RWF

SCRWA

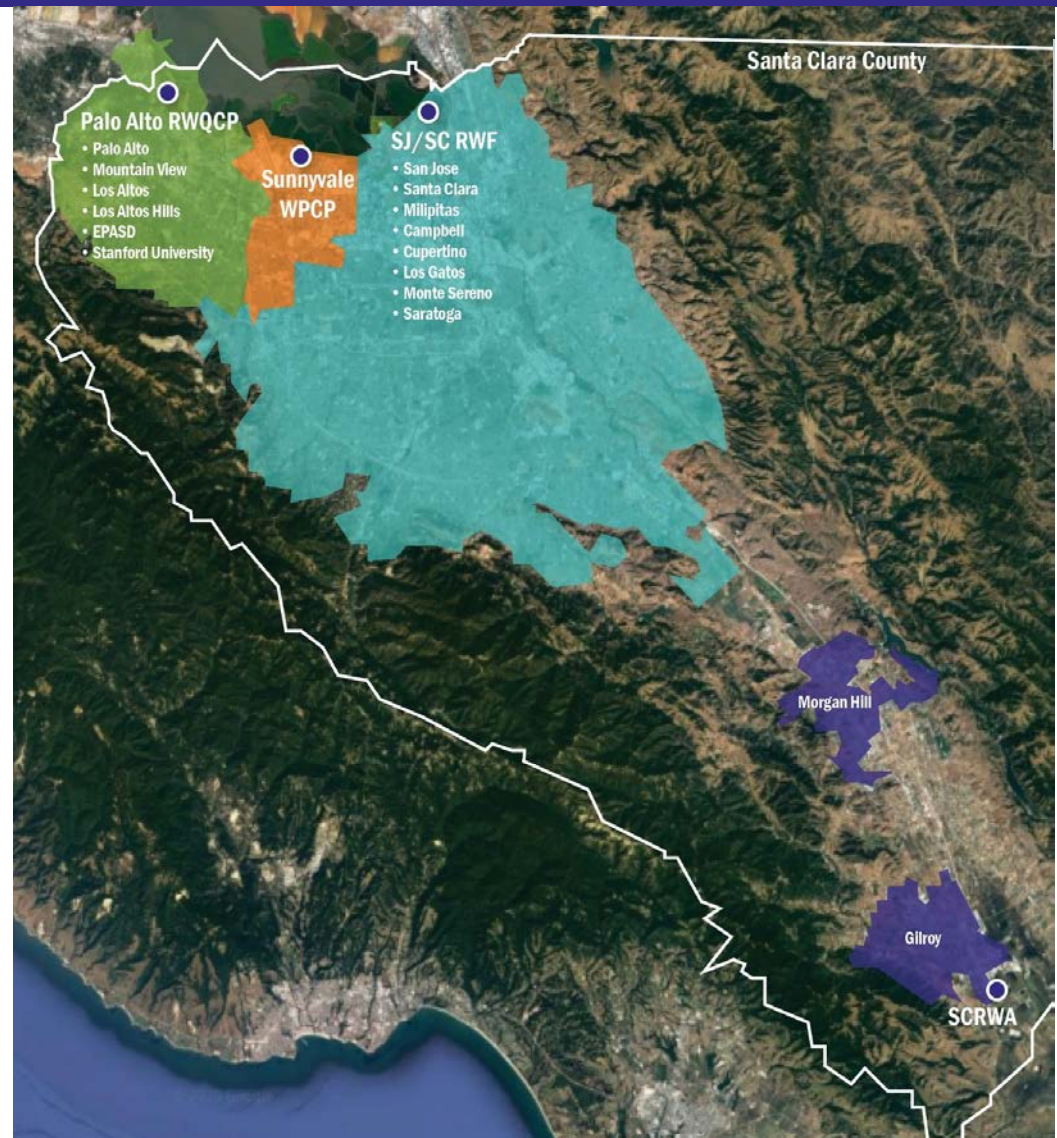


Palo Alto/Mountain View RWS

Sunnyvale RWS

South Bay Water Recycling

South County RWS (Gilroy)



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# Multiple Levels of Engagement

## Valley Water

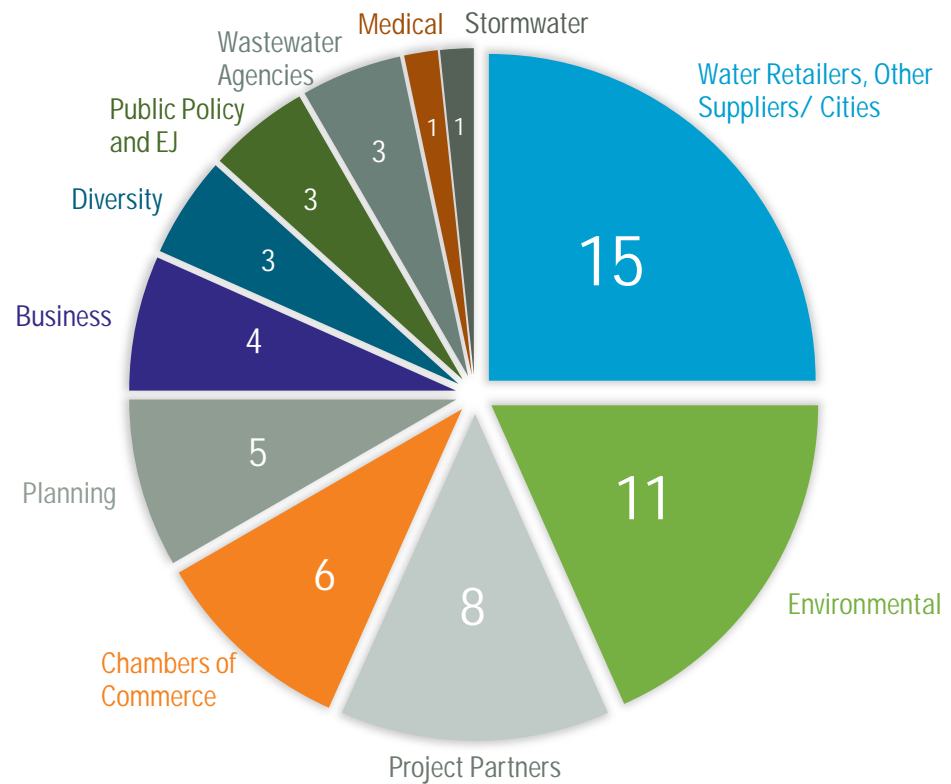
- Board and staff

## Project Partners

- City Councils and staff

## Advisory Groups

- Stakeholders (chart to right)
- Regulators
- Independent Advisory Panel (IAP)



- 1. Vision
- 2. Journey
- 3. Path Ahead

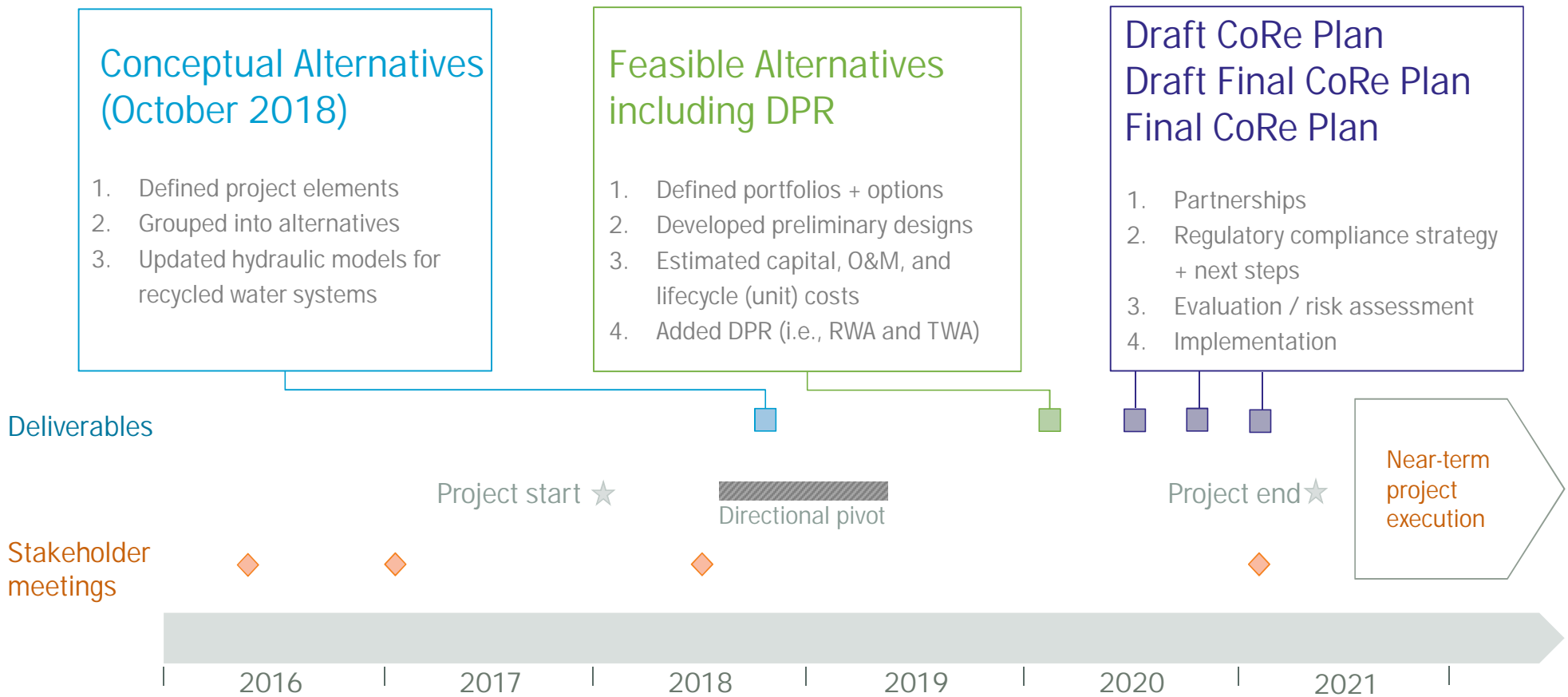


with HydroScience Engineers, and Trussell Technologies Inc.



**Valley Water**

# Project Background




# Final CoRe Plan Overview


By the numbers:

1,000+  
Pages of technical documentation

60+  
Meetings



10  
Reuse portfolios developed



100  
Pages in the CoRe Plan



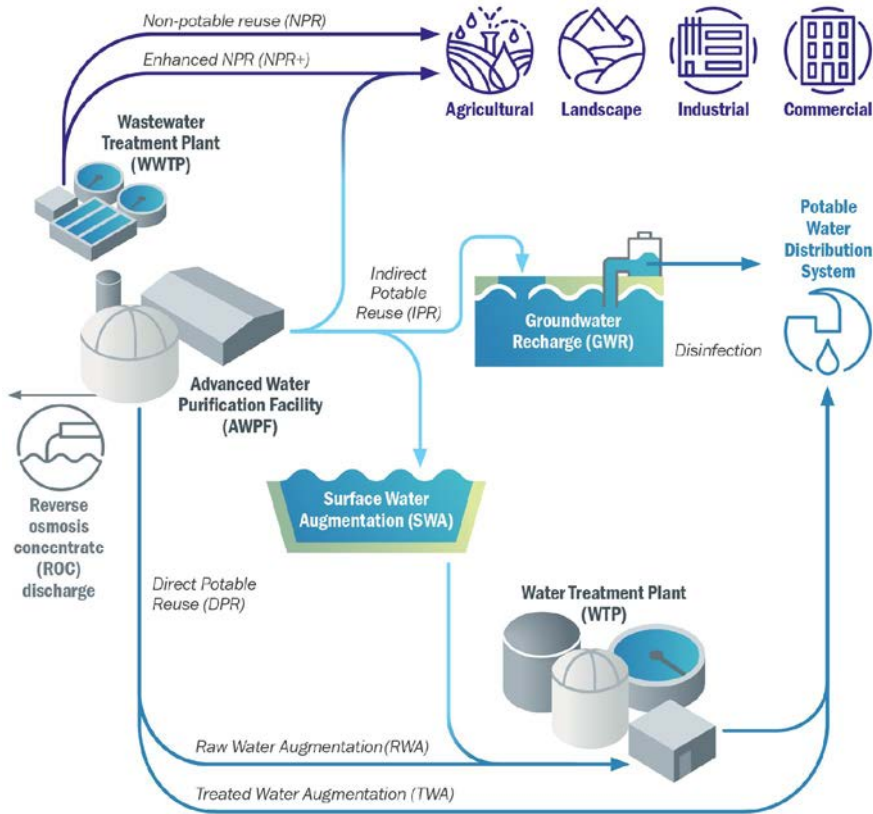
60  
Stakeholder entities involved

3  
Years in the making



1 Integrated Plan

# Glossary Defines Terms



Wastewater treatment plant (WWTP)

Non-potable reuse (NPR)

Enhanced NPR (NPR+)

Indirect potable reuse (IPR)

Groundwater recharge (GWR)

Surface water augmentation (SWA)

Direct potable reuse (DPR)

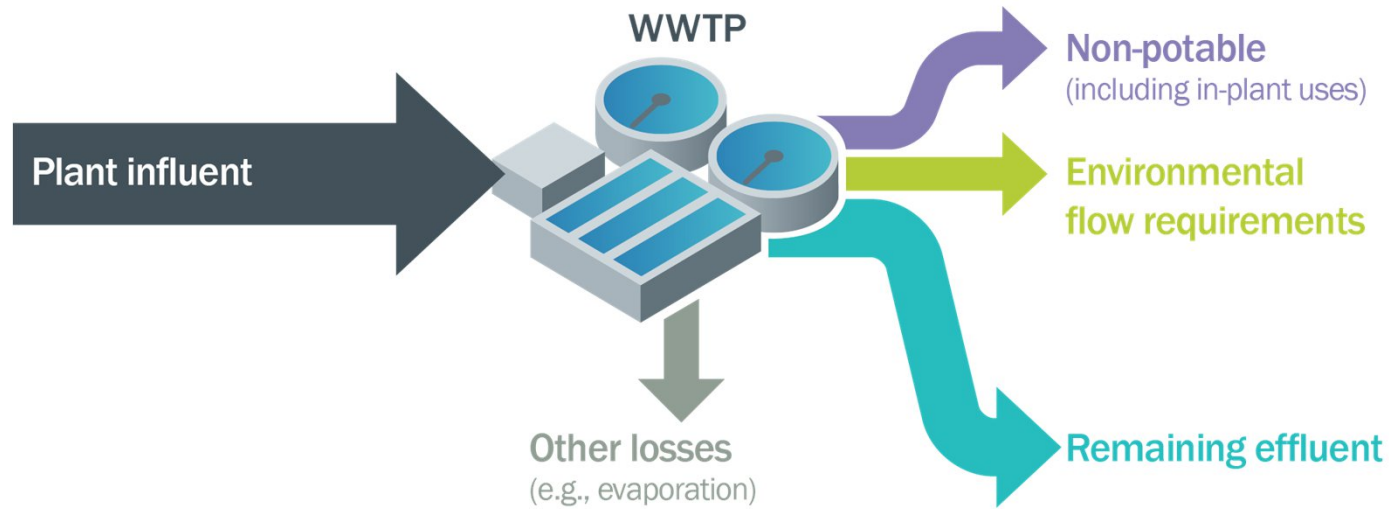
Raw water augmentation (RWA)

Treated water augmentation (TWA)

Advanced water purification facility (AWPF)

Water treatment plant (WTP)

# Source Water Availability



Potential annual yield of purified water for potable reuse, considering producer and source water availability	
Facility	Potential yield (AFY) <sup>a</sup>
San José AWPF	24,000
Palo Alto AWPF	11,700 – 13,200
Sunnyvale AWPF	5,500 – 9,800
Palo Alto and Sunnyvale (combined)	17,300 <sup>b</sup> – 23,000
Morgan Hill Satellite AWPF	1,900

Note:  
24,000 AFY  
Potable  
Reuse Goal

# Programmatic Approach: Reuse Portfolios and Options

Reuse Opportunities			
Countywide Expansion of NPR/NPR+ (Recycled Water Distribution Systems)	North County		South County Options
	Portfolio 1 San José AWWP	One AWWP in San José 1a: GWR via LGRP 1b: RWA via Penitencia WTP 1c and 1d: TWA deliveries to Santa Clara, San José, and Valley Water retailers (using an existing pipeline [1c] or a new pipeline [1d])	
	Portfolio 2 Combined Regional AWWP	One AWWP with combined flows from Palo Alto and Sunnyvale 2a: AWWP in Palo Alto for GWR via LGRP 2b: AWWP in Sunnyvale for GWR via LGRP	
Portfolio 4 Separate Regional AWWPs	Two separate AWWPs in Palo Alto and Sunnyvale for GWR via LGRP		
Alternative Elements and Future Opportunities			
Alternative pipeline alignments, interties, and delivery points. Resized designs. Additional TWA opportunities.			

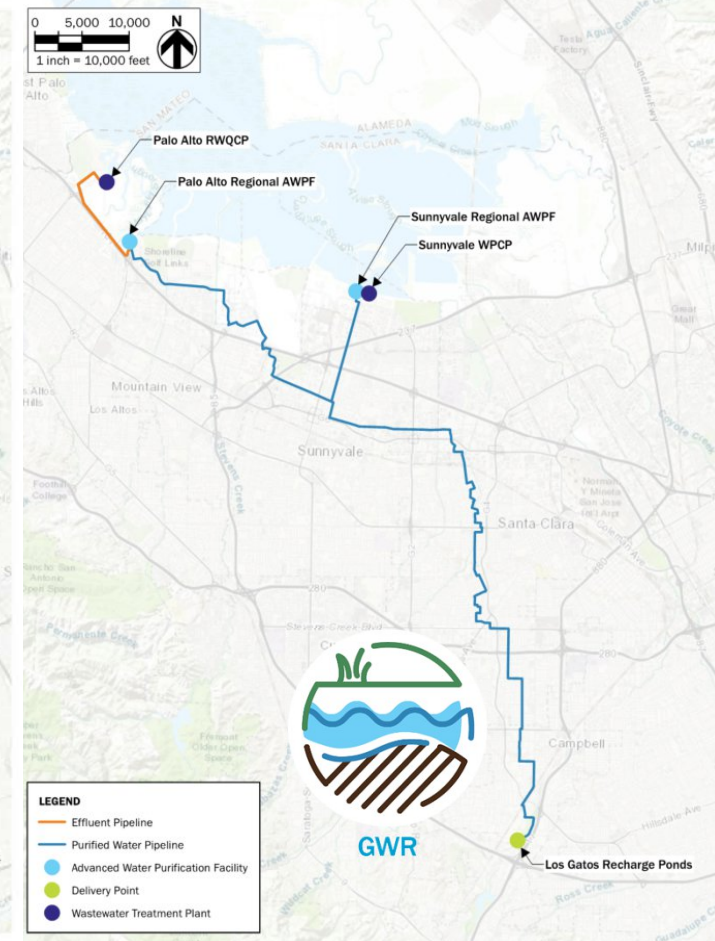
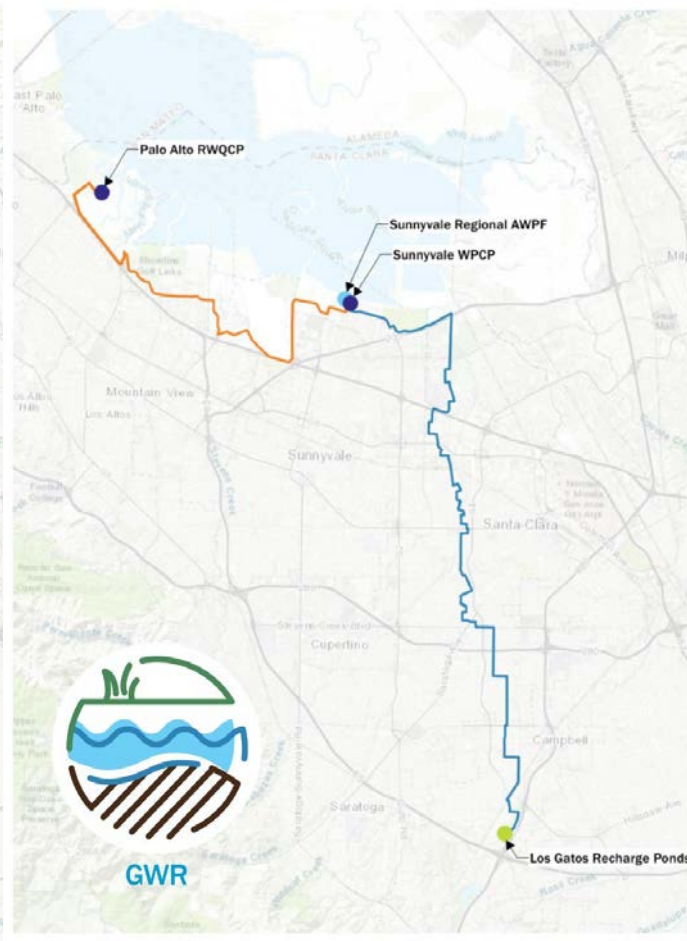
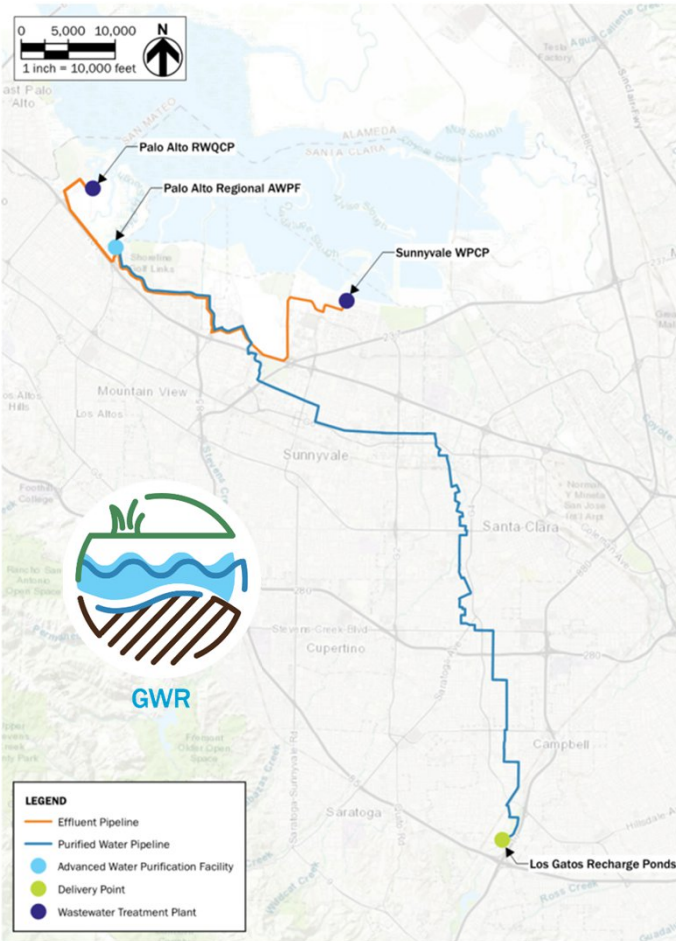


# GWR to Los Gatos Recharge System

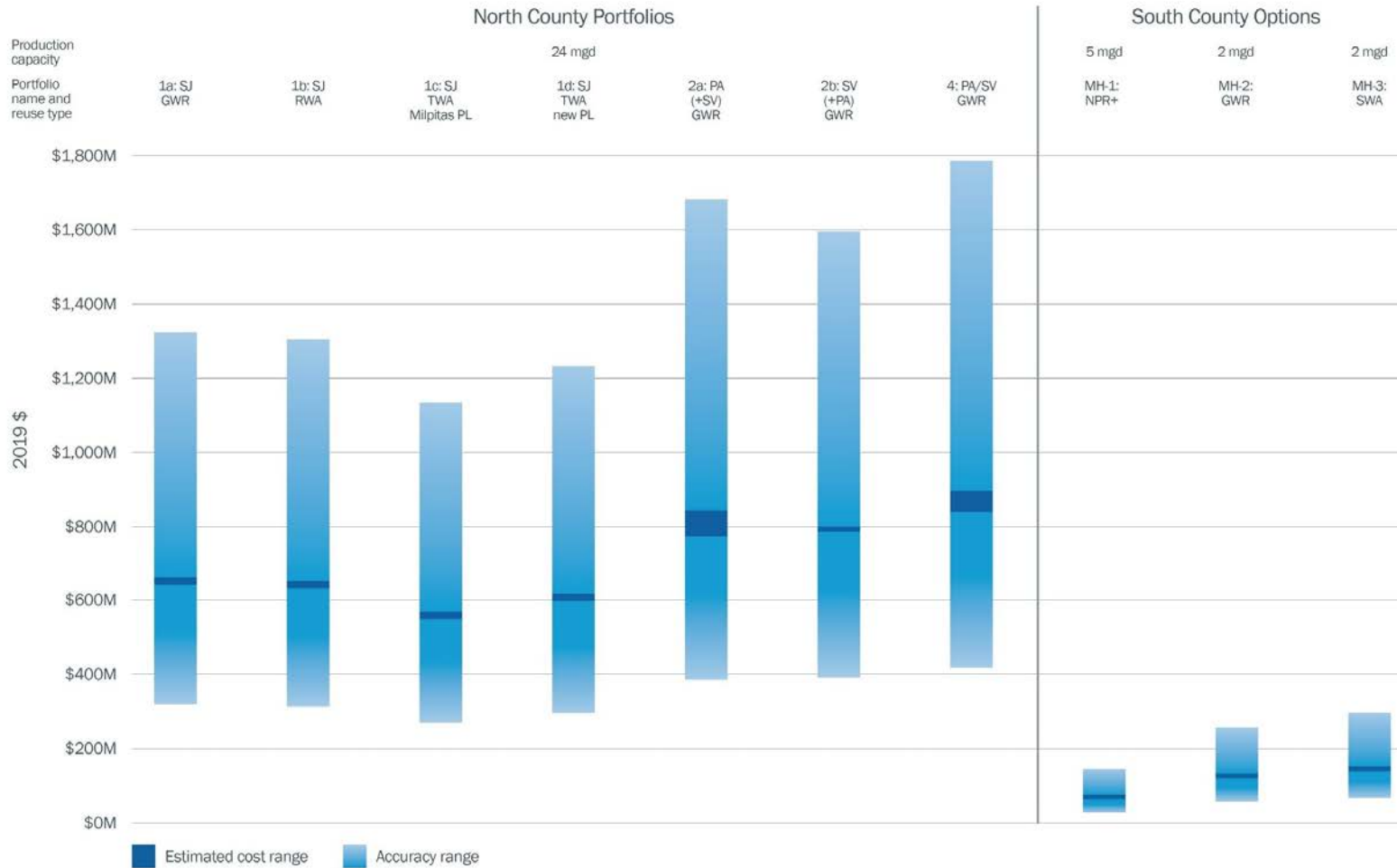
(Portfolio 2a)

(Portfolio 2b)

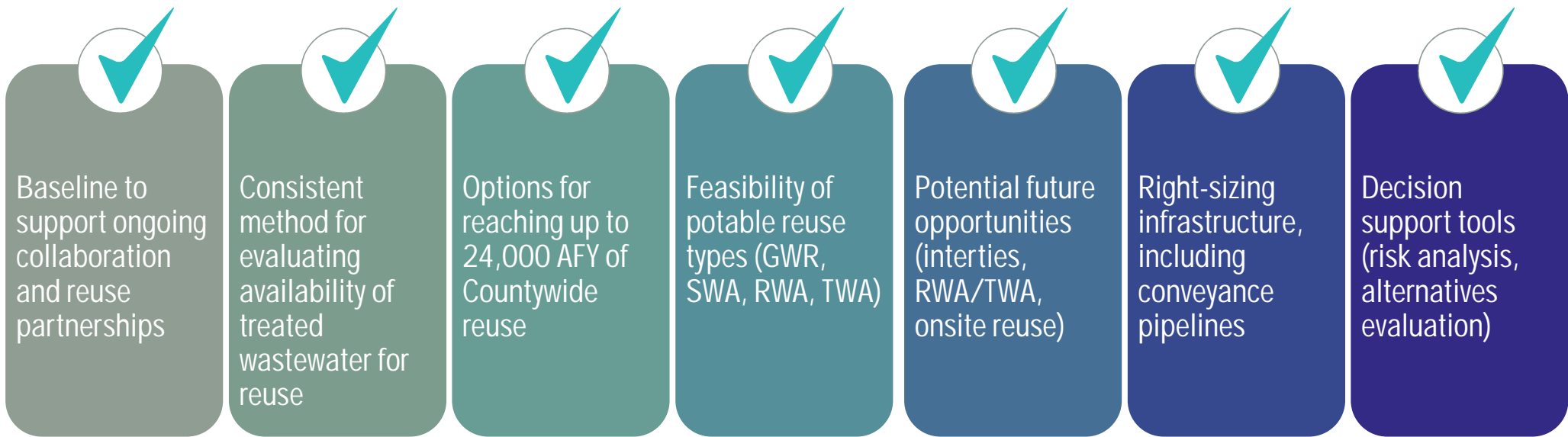
(Portfolio 4)



# Estimated Capital Costs



# Final CoRe Plan Value and Key Take-Aways



1. Introduction
2. Countywide Reuse Project Status

# 3. Path Ahead



with HydroScience Engineers, and Trussell Technologies Inc.



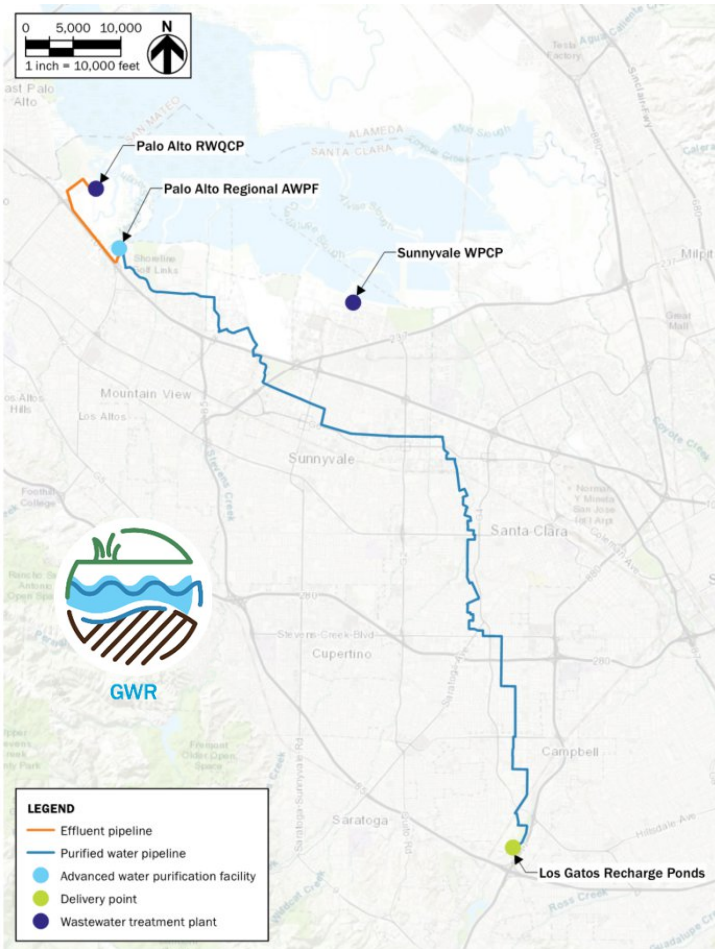
**Valley Water**

What's Next?

## Implement Board's Potable Reuse Directive

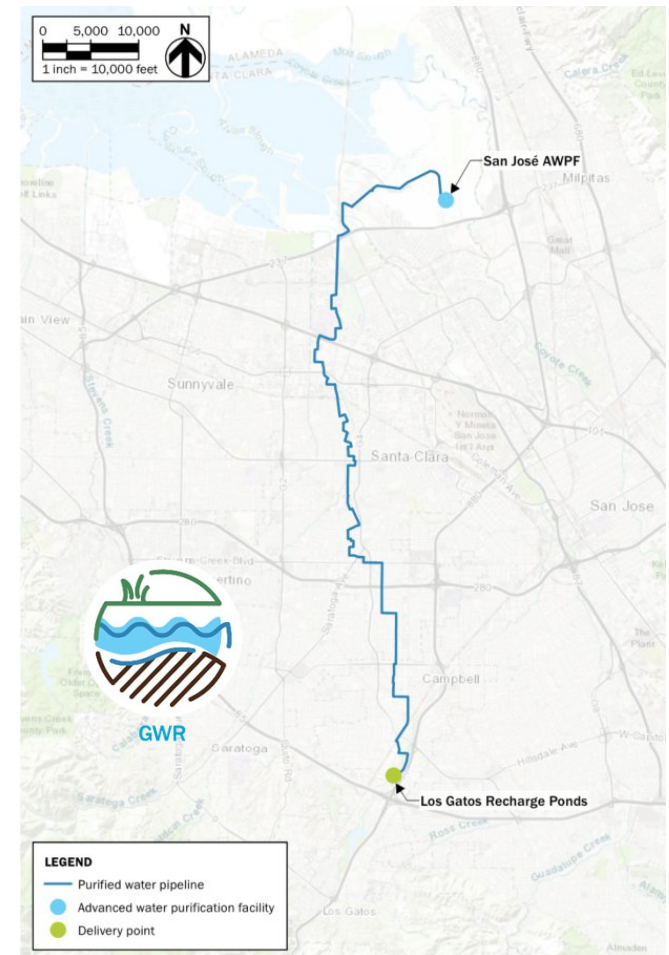


# Near-Term 10 mgd Project Concept



Near-Term  
10 mgd  
GWR Project

← Palo Alto AWWP  
or  
San José AWWP →



# Flexibility Analysis (FLEX)

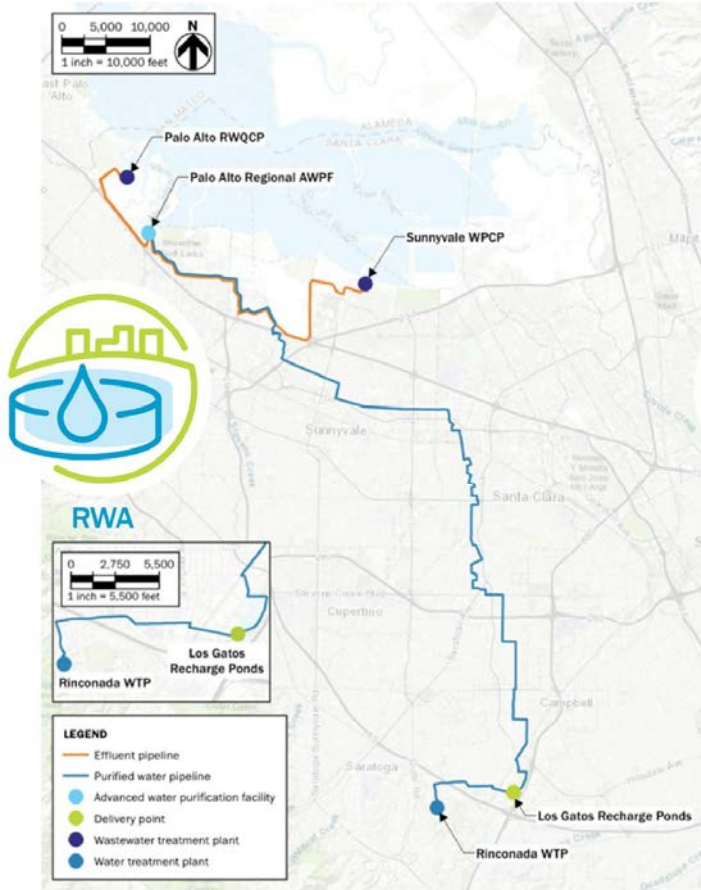


Figure 9-6. Flexible implementation from San José-based AWP: RWA Flex facility locations and pipeline alignments

Note: GWR Flex map is consistent with Figure 6-2 (Portfolio 2a: PA (+SV) GWR)



Figure 9-7. Flexible implementation from San José-based AWP: TWA Flex facility locations and pipeline alignments

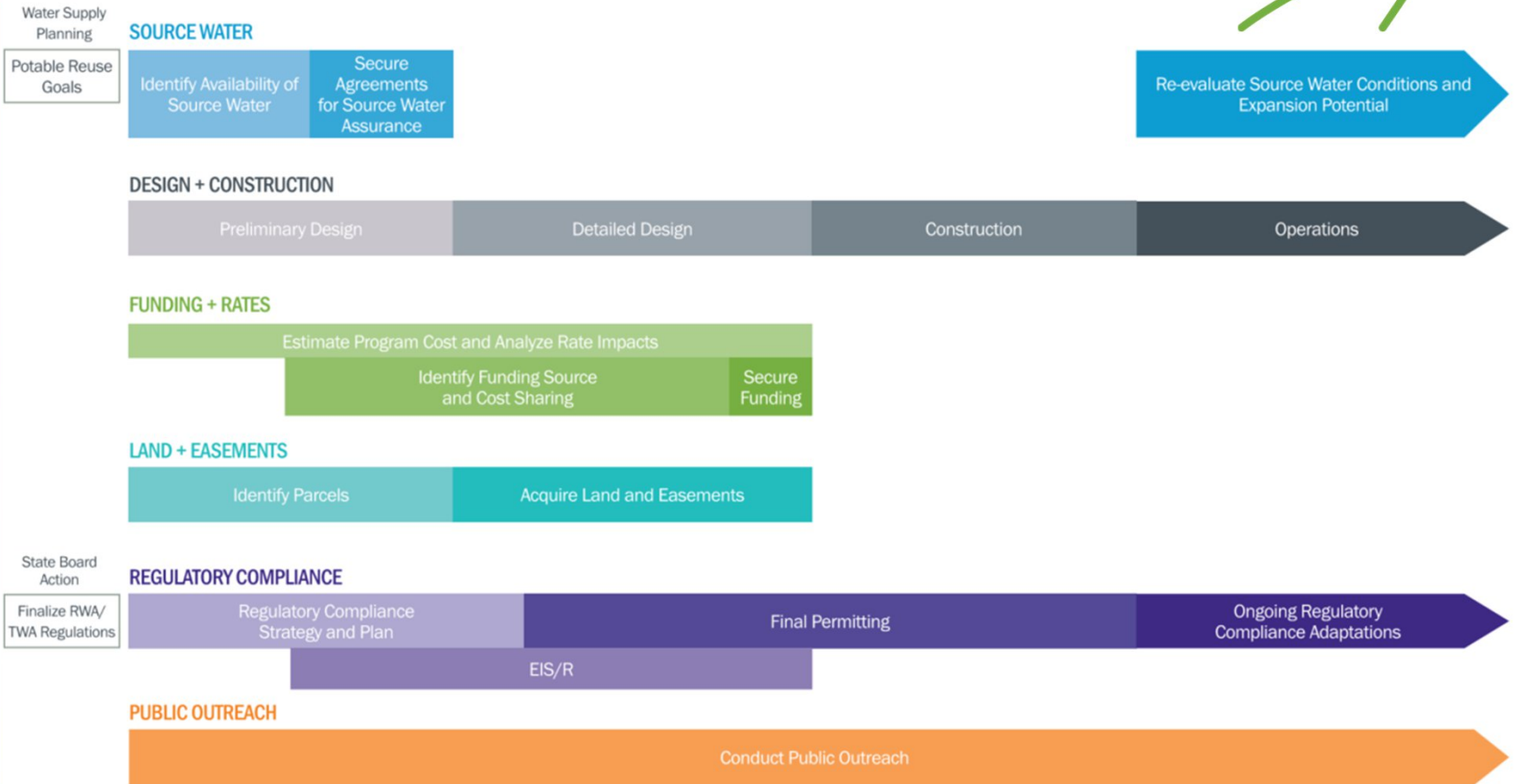


# Next Steps for Implementation



## Partnerships

Ongoing collaboration and discussion





Thank you.  
Questions?



with HydroScience Engineers, and Trussell Technologies Inc.



Valley Water

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**Brown AND Caldwell**

Prepared for Valley Water



# Final Countywide Water Reuse Master Plan (CoRe Plan)

June 2021





# Countywide Water Reuse Master Plan (CoRe Plan) Appendices

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Prepared for  
Santa Clara Valley Water District (Valley Water)  
June 2021

A Full Copy of the Document can be viewed by clicking link:

[https://fta.valleywater.org/dl/iswkny8VCO/?](https://fta.valleywater.org/dl/iswkny8VCO/)



75 E Santa Clara Street, Suite 375  
San José, CA 95113

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# Santa Clara Valley Water District

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File No.: 21-1079

Agenda Date: 10/25/2021  
Item No.: 4.3.

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## COMMITTEE AGENDA MEMORANDUM

Joint RWPC with Cities of Palo Alto/E. Palo Alto/Mtn View

**SUBJECT:**  
Next Meeting and Agenda Items.

**RECOMMENDATION:**  
Discuss and confirm next meeting date and agenda items.

**SUMMARY:**  
Review calendar for potential meeting dates in 2022.

**ATTACHMENTS:**  
None.

**UNCLASSIFIED MANAGER:**  
Candice Kwok-Smith, 408-630-3193

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