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)
+1 253 215 8782 US (Tacoma)
+1 346 248 7799 US (Houston)
+1 312 626 6799 US (Chicago)
+1 646 558 8656 US (New York)
+1 301 715 8592 US (Washington DC)
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.

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

Monday, October 25, 2021  2:00 PM  Teleconference Via Zoom

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
   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.  
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.  
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.  
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. Adjoin 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).
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
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).
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 18th 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:
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
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
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.
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 RW5
Sunnyvale RW5
South Bay Water Recycling
South County RW5 (Gilroy)
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
Project Background

**Conceptual Alternatives (October 2018)**
1. Defined project elements
2. Grouped into alternatives
3. Updated hydraulic models for recycled water systems

**Feasible Alternatives including DPR**
1. Defined portfolios + options
2. Developed preliminary designs
3. Estimated capital, O&M, and lifecycle (unit) costs
4. Added DPR (i.e., RWA and TWA)

**Draft CoRe Plan**
- Draft Final CoRe Plan
- Final CoRe Plan
1. Partnerships
2. Regulatory compliance strategy + next steps
3. Evaluation / risk assessment
4. Implementation

**Deliverables**
- **Project start** ★
- **Directional pivot**
- **Project end** ★

**Stakeholder meetings**

**Timeline**
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021

**Near-term project execution**
Final CoRe Plan Overview

By the numbers:

1,000+ Pages of technical documentation

100 Pages in the CoRe Plan

60+ Meetings

60 Stakeholder entities involved

10 Reuse portfolios developed

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

<table>
<thead>
<tr>
<th>Facility</th>
<th>Potential yield (AFY)¹</th>
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<tbody>
<tr>
<td>San José AWPF</td>
<td>24,000</td>
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<tr>
<td>Palo Alto AWPF</td>
<td>11,700 – 13,200</td>
</tr>
<tr>
<td>Sunnyvale AWPF</td>
<td>5,500 – 9,800</td>
</tr>
<tr>
<td>Palo Alto and Sunnyvale (combined)</td>
<td>17,300² – 23,000</td>
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<tr>
<td>Morgan Hill Satellite AWPF</td>
<td>1,900</td>
</tr>
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Note: 24,000 AFY Potable Reuse Goal
### Programmatic Approach: Reuse Portfolios and Options

#### Countywide Expansion of NPR/ NPR+ (Recycled Water Distribution Systems)

<table>
<thead>
<tr>
<th>Portfolio 1</th>
<th>San José AWP</th>
<th>North County</th>
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<tbody>
<tr>
<td></td>
<td>One AWP in San José</td>
<td>1a: GWR via LGRP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1b: RWA via Penitencia WTP</td>
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<tr>
<td></td>
<td></td>
<td>1c and 1d: TWA deliveries to Santa Clara, San José, and Valley Water retailers (using an existing pipeline [1c] or a new pipeline [1d])</td>
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<table>
<thead>
<tr>
<th>Portfolio 2</th>
<th>Combined Regional AWP</th>
<th>South County Options</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>One AWP with combined flows from Palo Alto and Sunnyvale</td>
<td>Morgan Hill Option 1: NPR+ from SBWR</td>
</tr>
<tr>
<td></td>
<td>2a: AWP in Palo Alto for GWR via LGRP</td>
<td>Morgan Hill Option 2: Satellite AWP for GWR</td>
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<tr>
<td></td>
<td>2b: AWP in Sunnyvale for GWR via LGRP</td>
<td>Morgan Hill Option 3: Satellite AWP for SWA</td>
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<th>Portfolio 4</th>
<th>Separate Regional AWPFs</th>
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<tr>
<td></td>
<td>Two separate AWPFs in Palo Alto and Sunnyvale for GWR via LGRP</td>
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#### 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**

### North County Portfolios

- 17 SJ GWR
- 17 SJ RWA
- 17 SJ TWA Muphos PL
- 17 SJ TWA new PL
- 24 mgd

### South County Options

- 5 mgd
- 2 mgd
- 2 mgd

**Production capacity**

**Portfolio name and reuse type**

<table>
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<tr>
<th>Production capacity</th>
<th>Portfolio name and reuse type</th>
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<tr>
<td>2019 $</td>
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<td>Accuracy range</td>
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Final CoRe Plan Value and Key Take-Aways

- Baseline to support ongoing collaboration and reuse partnerships
- Consistent method for evaluating availability of treated wastewater for reuse
- Options for reaching up to 24,000 AFY of Countywide reuse
- Feasibility of potable reuse types (GWR, SWA, RWA, TWA)
- Potential future opportunities (interties, RWA/TWA, onsite reuse)
- Right-sizing infrastructure, including conveyance pipelines
- Decision support tools (risk analysis, alternatives evaluation)
1. Introduction
2. Countywide Reuse Project Status
3. Path Ahead

with HydroScience Engineers, and Trussell Technologies Inc.
What’s Next?

Implement Board’s Potable Reuse Directive
Near-Term 10 mgd Project Concept

Near-Term 10 mgd GWR Project

← Palo Alto AWPF or San José AWPF →
Flexibility Analysis (FLEX)

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

Note: GWR Flex map is consistent with Figure 9-2 (Part A: PA + SWG)

Figure 9-7. Flexible implementation from San José-based ARPP: TWA Flex facility locations and pipeline alignments.
Next Steps for Implementation

**Partnerships**
- Ongoing collaboration and discussion
  - Water Supply Planning
    - Potable Reuse Goals

**Source Water**
- Identify Availability of Source Water
- Secure Agreements for Source Water Assurance

**Design + Construction**
- Preliminary Design
- Detailed Design
- Construction
- Operations

**Funding + Rates**
- Estimate Program Cost and Analyze Rate Impacts
- Identify Funding Source and Cost Sharing
- Secure Funding

**Land + Easements**
- Identify Parcels
- Acquire Land and Easements

**Regulatory Compliance**
- Final Permitting
- Ongoing Regulatory Compliance Adaptations
  - EIS/R

**Public Outreach**
- Conduct Public Outreach

Re-evaluate Source Water Conditions and Expansion Potential
Thank you.

Questions?
Final Countywide Water Reuse Master Plan (CoRe Plan)

June 2021
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