



**Santa Clara Valley Water District
Board of Directors Meeting**

Teleconference Zoom Meeting

**SPECIAL JOINT MEETING WITH CITY OF SUNNYVALE
AGENDA**

**Wednesday, October 6, 2021
6:00 PM**

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

DISTRICT BOARD OF DIRECTORS Tony Estremera, Chair - District 6 Gary Kremen, Vice Chair - District 7 John Varela - District 1 Barbara Keegan - District 2 Richard P. Santos - District 3 Linda J. LeZotte - District 4 Nai Hsueh - District 5	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, or through a link in the Zoom Chat Section during the respective meeting. 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.	RICK L. CALLENDER, ESQ. Chief Executive Officer MICHELE L KING, CMC Clerk of the Board (408) 265-2600 Fax (408) 266-0271 www.valleywater.org
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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
Board of Directors
SPECIAL JOINT MEETING WITH CITY OF SUNNYVALE
AGENDA

Wednesday, October 6, 2021

6:00 PM

Teleconference Zoom Meeting

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 (District), in complying with the Americans with Disabilities Act (ADA), requests individuals who require special accommodations to access and/or participate in District Board meetings to please contact the Clerk of the Board's office at (408) 630-2711, at least 3 business days before the scheduled District Board meeting to ensure that the District 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 the District 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/82627248061>
Meeting ID: 826 2724 8061
Join by Phone:
1 (669) 900-9128, 82627248061#

1. CALL TO ORDER:

- 1.1. Roll Call.
- 1.2. Pledge of Allegiance/National Anthem.
- 1.3. Introductions/Opening Comments.
- 1.4. 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 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 Board Chair in order requests are received and granted speaking access to address the Board. Speakers comments should be limited to three minutes or as set by the Chair. The law does not permit Board action on, or extended discussion of, any item not on the agenda except under special circumstances. If Board 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 may take action on any item of business appearing on the posted agenda.

2. TIME CERTAIN:

6:00 PM

- 2.1. Receive an Update on the Water Shortage Emergency Condition and Call for Conservation. [21-1042](#)
- Recommendation: Receive an Update on the Water Shortage Emergency Condition and Call for Conservation.
- Manager: Aaron Baker, 408-630-2135
- Attachments: [Attachment 1: PowerPoint](#)
- Est. Staff Time: 10 Minutes
- 2.2. Update on Valley Water Purified Water Program. [21-1008](#)
- Recommendation: Receive an update on Valley Water's Advance Purified Water efforts.
- Manager: Kirsten Struve, Valley Water Assistant Officer, 408-630-3138
- Attachments: [Attachment 1: Valley Water PowerPoint](#)
- Est. Staff Time: 20 Minutes
- 2.3. Receive an Update on the Sunnyvale Clean Water Program. [21-1091](#)
- Recommendation: Receive an update on the Sunnyvale Clean Water Program.
- Manager: Chip Taylor, Sunnyvale Director of Public Works, 408-730-7415
Ramana Chinnakotla, Sunnyvale Director of Environmental Services, 408-730-7900
- Attachments: [Attachment 1: Sunnyvale PowerPoint](#)
- Est. Staff Time: 10 Minutes
- 2.4. Sunnyvale East/West Channels Flood Protection Project Update. [21-1043](#)
- Recommendation: Receive an update on the Sunnyvale East/West Channels Flood Protection Project.
- Manager: Rechelle Blank, 408-630-2615
- Attachments: [Attachment 1: Valley Water PowerPoint](#)
- Est. Staff Time: 10 Minutes

- 2.5. Receive an Update on the Moffett Park Specific Plan.

[21-1009](#)

Recommendation: Receive an update on the Moffett Park Specific Plan.

Manager: Michelle King, Sunnyvale Project Manager MPSP,
408-730-7463

Attachments: [Attachment 1: Sunnyvale PowerPoint](#)

Est. Staff Time: 10 Minutes

- 2.6. Receive an Update on the South San Francisco Bay Shoreline Study.

[21-1011](#)

Recommendation: Receive an update on the South San Francisco Bay Shoreline Study.

Manager: Rechelle Blank, Valley Water Deputy Operating Officer,
408-630-2615

Attachments: [Attachment 1: PowerPoint](#)

Est. Staff Time: 10 Minutes

3. ADJOURN:

- 3.1. Closing Remarks.

- 3.2. Adjourn to 11:00 a.m. Closed Session and 1:00 p.m. Regular Meeting on October 12, 2021, 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).



City of Sunnyvale

Agenda Item

21-0167

Agenda Date: 10/6/2021

Receive an Update on the Water Shortage Emergency Condition and Call for Conservation



Santa Clara Valley Water District

File No.: 21-1042

Agenda Date: 10/6/2021
Item No.: 2.1.

BOARD AGENDA MEMORANDUM

SUBJECT:

Receive an Update on the Water Shortage Emergency Condition and Call for Conservation.

RECOMMENDATION:

Receive an Update on the Water Shortage Emergency Condition and Call for Conservation.

SUMMARY:

On June 9, 2021, the Santa Clara Valley Water District (Valley Water) Board of Directors declared a water shortage emergency condition pursuant to California Water Code §350, called for water use restrictions of 15% compared to 2019, and urged the County of Santa Clara to proclaim a local emergency. The County of Santa Clara proclaimed a local emergency on June 15, which was ratified by the Board of Supervisors on June 22.

The U.S. Drought Monitor Report from September 14, 2021, indicates that the majority of the County is in extreme drought, and the northeastern portion of the County is in exceptional drought. The Sierra Nevada snowpack, a primary source of imported water, is at 0% of average as of August 30, 2021, and 0% of average statewide.

Reflecting critically dry conditions across the state, the Central Valley Project and State Water Project have drastically reduced imported water allocations, which comprise half of Valley Water's typical annual water supply. Valley Water has been negotiating purchases of emergency transfer water supplies; however, potential state regulatory actions pose significant uncertainty to water transfers. Of the 71,500 AF Central Valley Project Municipal and Industrial allocation, about 28,500 AF was conditionally approved Public Health & Safety water from Reclamation with deliveries of this water planned for July through October.

Furthermore, Valley Water is impacted by the unavailability of Anderson Reservoir as a surface water storage facility for the duration of the Anderson Dam Seismic Retrofit Project, which is expected to last 10 years. The loss of Anderson, lower imported water supplies, and uncertainty over emergency water transfers could result in rapid and significant drops in our groundwater levels and resulting in the potential for subsidence and dry wells. In South County, groundwater is the only drinking water supply.

Consequently, water conservation is an important strategy to help alleviate these negative impacts. Valley Water continues to conduct public outreach to encourage water conservation and participation in Valley Water's conservation programs. Participation in these programs has increased dramatically in 2021.

Countywide Water Use Reduction

Valley Water is engaging with local government officials to encourage drought response actions. The County of Santa Clara and 11 cities in Santa Clara County have taken actions to their Councils in response to the extreme drought conditions and to Valley Water's call to reduce water use by 15% compared to 2019 levels. These actions ranged from adopting local emergency resolutions to encouraging residents and businesses to use less water. Many jurisdictions also activated their citywide Water Shortage Contingency Plans to immediately implement mandatory water-use restrictions and other conservation measures. Other jurisdictions have also taken drought-related actions such as by increasing conservation messaging. On July 27, 2021, the Sunnyvale City Council adopted a resolution declaring a Stage 2 Water Supply Shortage and setting a goal of 15% water use reduction compared to 2019. The progress of Sunnyvale towards achieving the call for water use reduction will be presented.

Countywide, the percent change of water used compared to 2019 has been steadily decreasing since March 2021, showing that retailers, cities, and our communities are responding to the call for conservation. In March 2021, water use in Santa Clara County was 25% higher when compared to March 2019. In July 2021, Santa Clara County used 6% less water compared to July 2019. Valley Water anticipated that reducing water use countywide by 15% would be a gradual process, however it is encouraging to see the numbers trending in the right direction.

FINANCIAL IMPACT:

There is no financial impact related to staff's recommendation to receive information on the water shortage emergency condition and call for conservation.

CEQA:

The recommended action does not constitute a project under CEQA because it does not have a potential for resulting in direct or reasonably foreseeable indirect physical change in the environment.

ATTACHMENTS:

Attachment 1: PowerPoint

UNCLASSIFIED MANAGER:

Aaron Baker, 408-630-2135



Water Shortage Emergency Condition and Call for Conservation

Special Joint Meeting with City of Sunnyvale
October 6, 2021

Drought Status

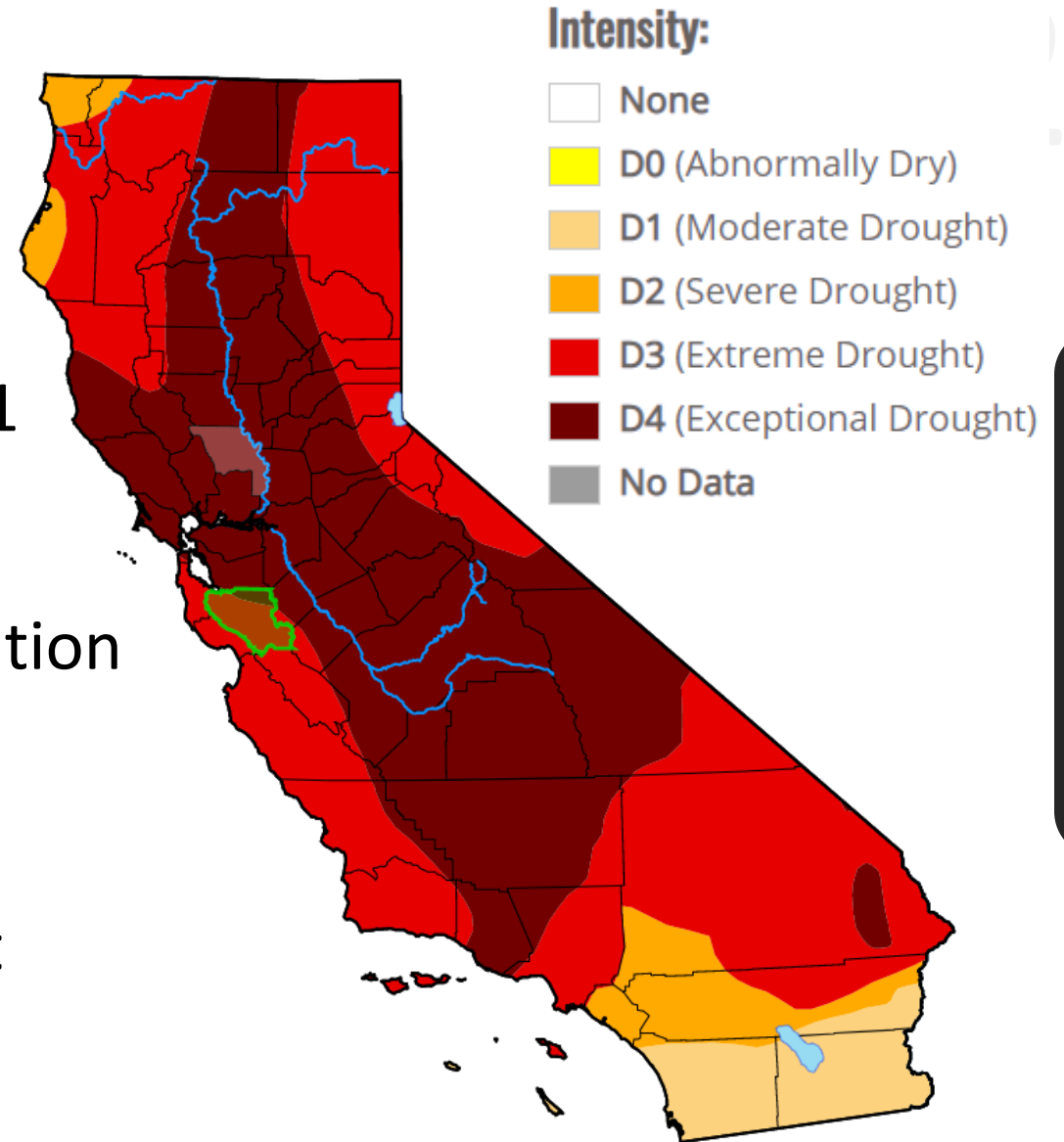
Extreme/Exceptional Drought

May 10 – State drought proclamation in 41 counties





June 8 – Water Shortage Emergency Condition

June 22 - County proclaims drought

July 8 – County included in State's drought proclamation



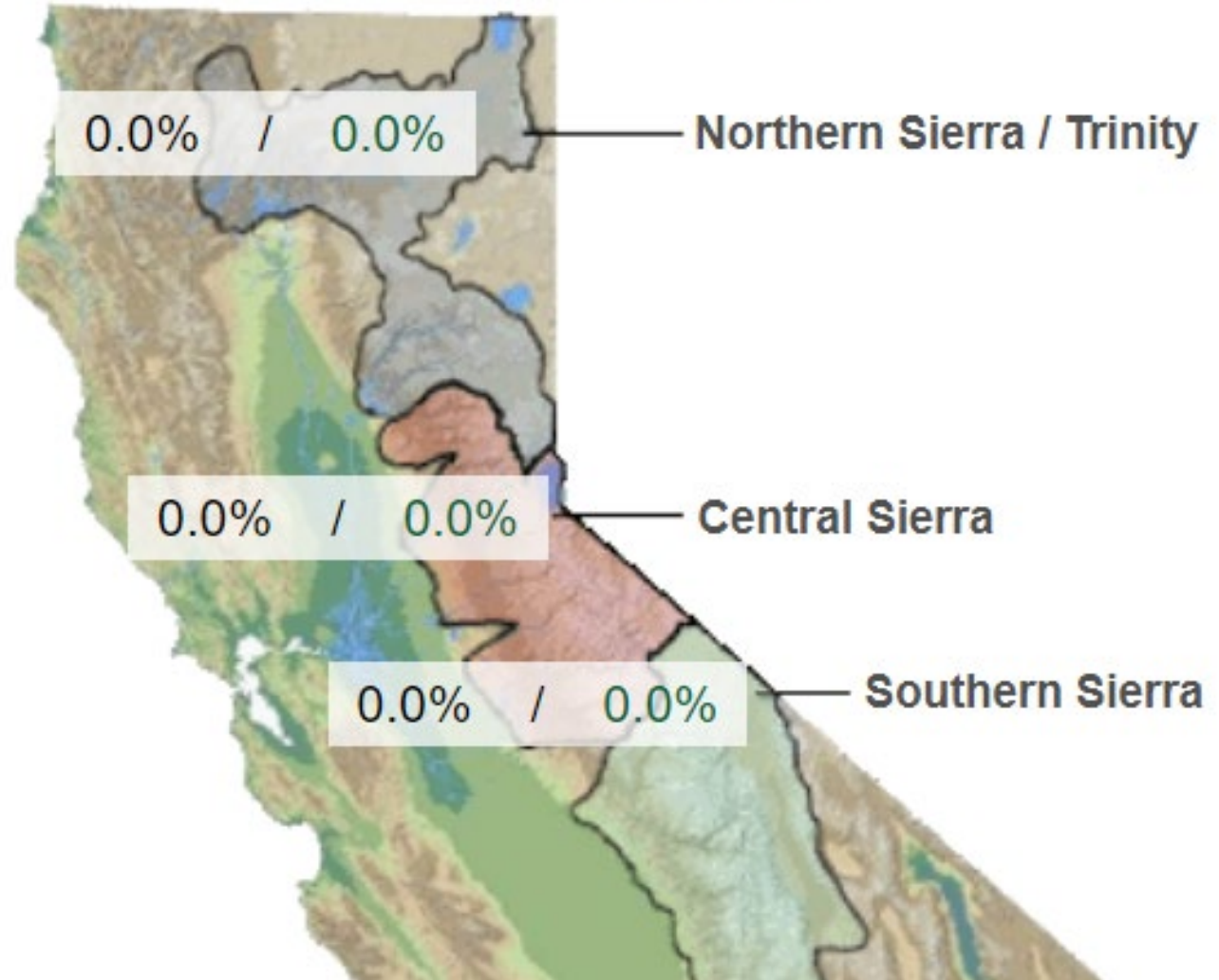
Fifty percent of our water is imported

	<p><i>Local Water (30%)</i></p> <ul style="list-style-type: none">• Groundwater aquifer• Reservoirs
	<p><i>Imported Water (50%)</i></p> <ul style="list-style-type: none">• Delta conveyed• Hetch Hetchy
	<p><i>Recycled Water (5%)</i></p> <ul style="list-style-type: none">• Wastewater Treatment• Advanced Purification
	<p><i>Conservation (15%)</i></p> <ul style="list-style-type: none">• Residential• Commercial, Agriculture

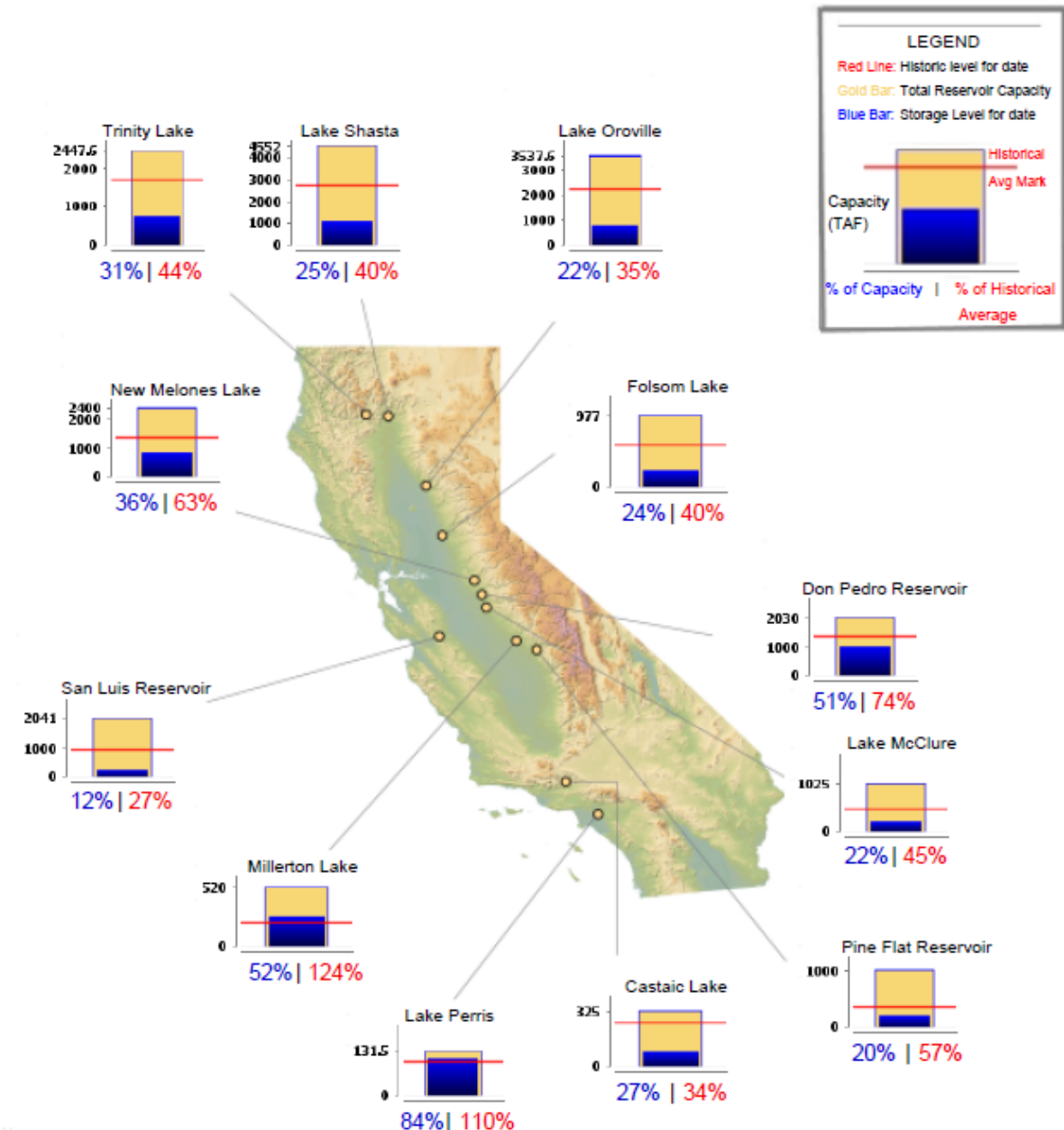
Snowpack:
Zero percent of
average

Data For: 30-Aug-2021

% Apr 1 Avg. / % Normal for this Date



Conditions for Major Reservoirs



2021 Drought Impacts to Valley Water

Local water supplies are low

Imported water allocations are low:

State Water Project: 5%

Central Valley Project:

0% Agriculture

25% Municipal & Industrial*

*Conditional approval of Public Health and Safety request

Loss of Anderson Increases Risk

Drained by federal mandate for seismic retrofit
(89,278 acre-feet capacity)



Risk to Water Supply

8

Groundwater levels and storage continue to decline

Risk of impacts, such as wells going dry, in 2022 without emergency imported water supplies, additional conservation

Groundwater is about 40% of county water use

Groundwater is the only drinking water source in South County

Water Shortage Emergency Condition

- Declared Water Shortage Emergency Condition calling for Water Use Restriction on June 9, 2021
- County proclaimed local emergency June 22, 2021
- Resolution includes:
 - Valley Water to aggressively promote water conservation programs to all water users
 - Calls for a maximum of three days a week watering of ornamental landscapes and lawns

Valley Water Drought Response

10

- Landscape Conversion Rebate – \$1 to \$2 per sq. ft.
- Increased conservation messaging
- Interactive webpage
- Reduce retailer deliveries
- Ensure adequate recharge in South County
- Paused imported water releases to most creeks and ponds
- Monthly Board drought emergency updates



Water Conservation Programs

- Residential Programs
- Landscape Programs
- Commercial, Industrial, Institutional (CII) Programs
- Agriculture Programs
- Water Waste Inspectors
- Education/Workshops/Resources



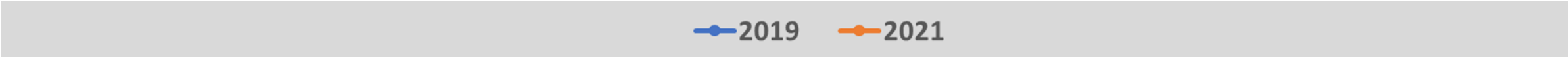
Jurisdictions Take Drought Action*

12

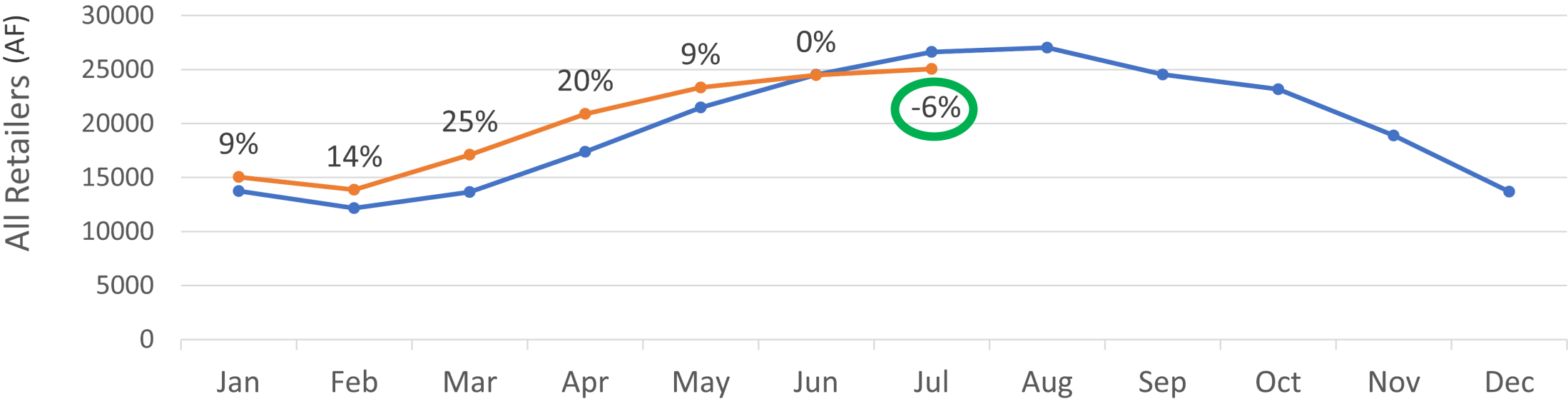
- County of Santa Clara
- Morgan Hill
- Los Altos
- Santa Clara
- Saratoga
- Cupertino
- Sunnyvale
- Los Altos Hills
- Gilroy
- Campbell
- Los Gatos
- Milpitas
- San José Municipal Water
- San Jose Water Company
- Great Oaks Water Company
- California Water Service

*The cities and towns listed above have taken actions to their Councils.

Steady drop in retailer water use compared to 2019



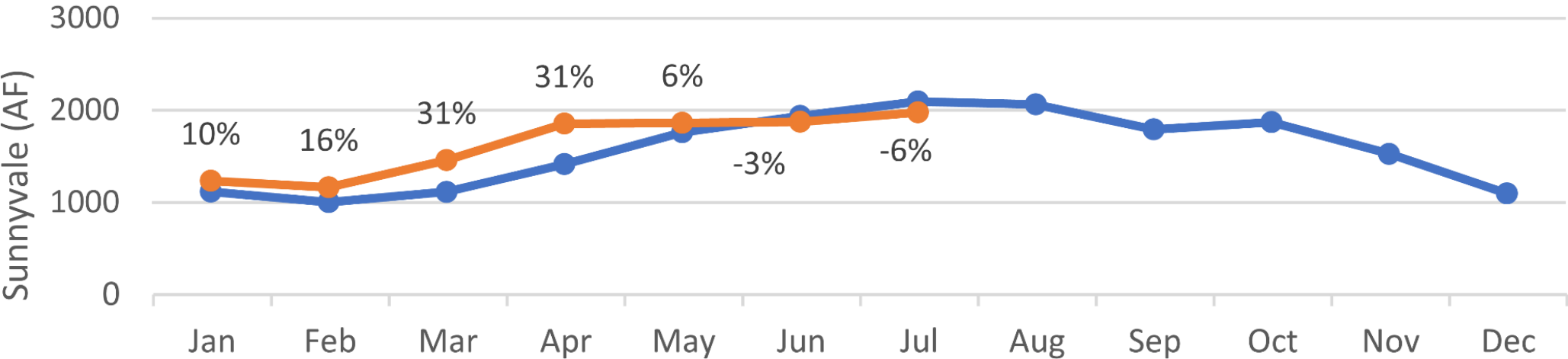
The percent increase (+) or percent decrease (-) in water use from 2019 to 2021 is shown for each month.



Sunnyvale's drop in water use compared to 2019

— 2019 — 2021

The percent increase (+) or percent decrease (-) in water use from 2019 to 2021 is shown for each month.



Model Water Efficient New Development Ordinance (MWENDO)

15

Developed to ensure new development meets strong water efficiency standards

Valley Water engaging with jurisdictions to adopt and implement the ordinance



City of Sunnyvale

Agenda Item

21-0970

Agenda Date: 10/6/2021

Update on Valley Water Purified Water Program



Santa Clara Valley Water District

File No.: 21-1008

Agenda Date: 10/6/2021

Item No.: 2.2.

BOARD AGENDA MEMORANDUM

SUBJECT:

Update on Valley Water Purified Water Program.

RECOMMENDATION:

Receive an update on Valley Water's Advance Purified Water efforts.

SUMMARY:

Santa Clara Valley Water District's (Valley Water) 2040 Water Supply Master Plan (WSMP) recommends developing at least 24,000 acre feet per year (AFY) of additional potable water reuse (above a target of 33,000 AFY of non-potable reuse) by 2040. Valley Water has recently completed a Countywide Water Reuse Master Plan (CoRe Plan) that evaluates potable reuse opportunities throughout Santa Clara County, including identifying options for achieving the WSMP's water reuse targets.

In September 2020, the Board approved a Design-Build-Finance-Operate-Maintain (DBFOM) procurement process under a Public/Private Partnership (P3) to expand indirect potable reuse (IPR). The proposed Project includes the construction of a new advanced water purification facility (AWPF), water conveyance pipelines to the existing Los Gatos Recharge System complex located in the City of Campbell, lateral pipelines, and associated facilities. The AWPF would be located either at the existing Silicon Valley Advanced Water Purification Center on Zanker Road in San José or located at the Former Los Altos Treatment Plant (FLATP) in Palo Alto due to the amount of treated wastewater available for the project. The proposed Project would use advanced water purification processes, including reverse osmosis (RO) treatment and would generate purified water for ground water recharge.

The purpose of the proposed Project is to establish greater water supply reliability for Santa Clara County and to help ensure continued groundwater sustainability. The proposed Project's objectives to meet this purpose are as follows:

Partnership with Cities:

- Support Valley Water's water supply reliability goals, including the provision of at least 10% of all water supplies through recycled water
- Develop the use of purified water, consistent with Valley Water's adopted Water Supply Master

Plan 2040.

- Implement a potable reuse supply project that provides 10 MGD to 12.5 million gallons per day (MGD) production capacity for an annual yield of approximately 11,200 AFY of sustainable purified water supply for long-term/future demands.

The project will utilize a Public-Private Partnership (P3) model as a way to deliver this project more cost-effectively. Procurement for the private partner, public outreach efforts, and development of an Environmental Impact Report are ongoing.

The CoRe plan is the master plan for increasing purified water development to 24,000 AFY including the path ahead to support future potable reuse planning and implementation throughout the County. This item will provide an update on the Purified Water Project and potential future expansion in Sunnyvale.

FINANCIAL IMPACT:

There is no financial impact associated with this item.

CEQA:

The recommended action does not constitute a project under CEQA because it does not have the potential for resulting in direct or reasonably foreseeable indirect physical change in the environment.

ATTACHMENTS:

Attachment 1: Valley Water PowerPoint

UNCLASSIFIED MANAGER:

Kirsten Struve, Valley Water Assistant Officer, 408-630-3138



Purified Water Project



Droughts



Economic
impacts



Land
subsidence risk

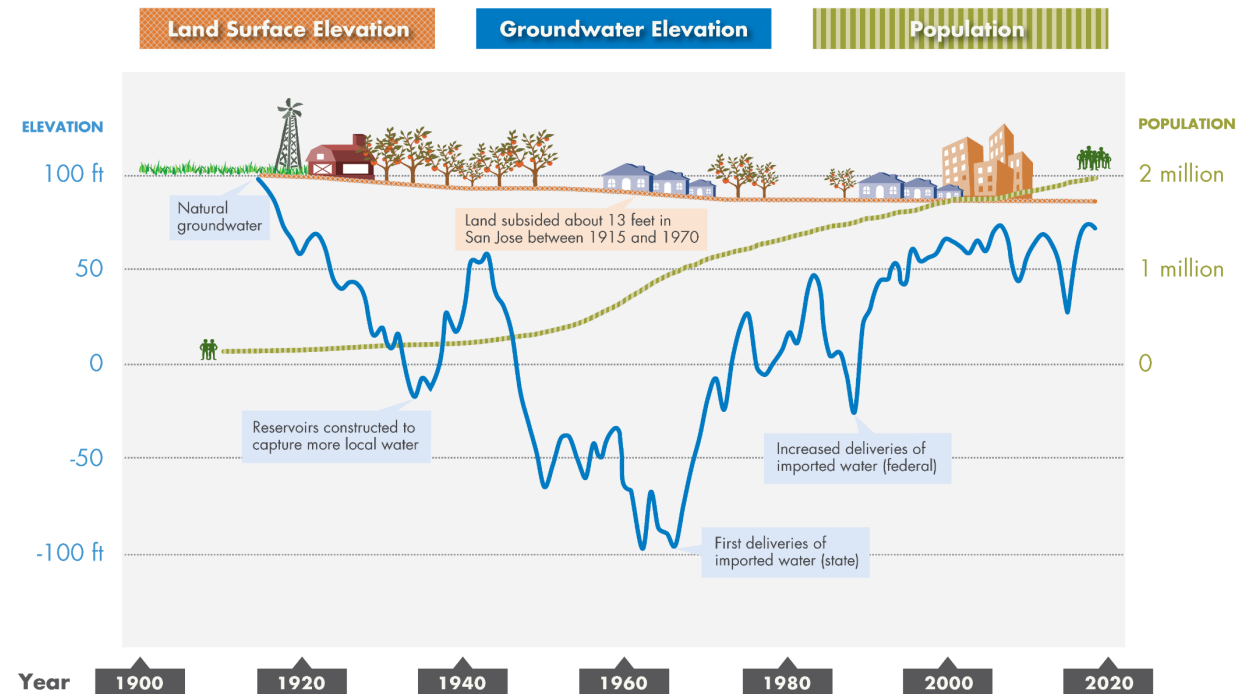
Climate Change Risks Continue to Drive Urgency for Addressing Water Supply Reliability

2

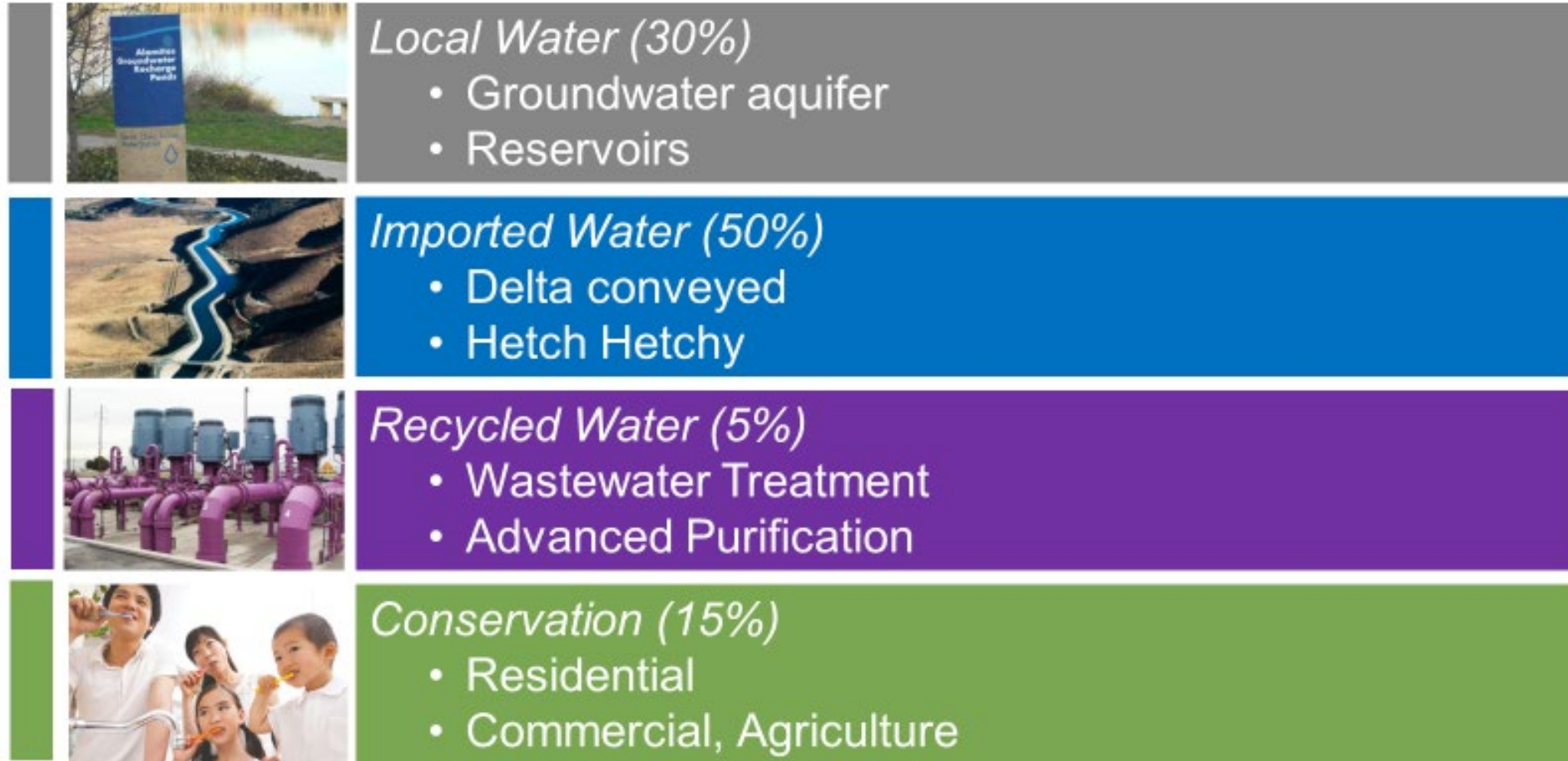


SANTA CLARA COUNTY GROUNDWATER AT-A-GLANCE

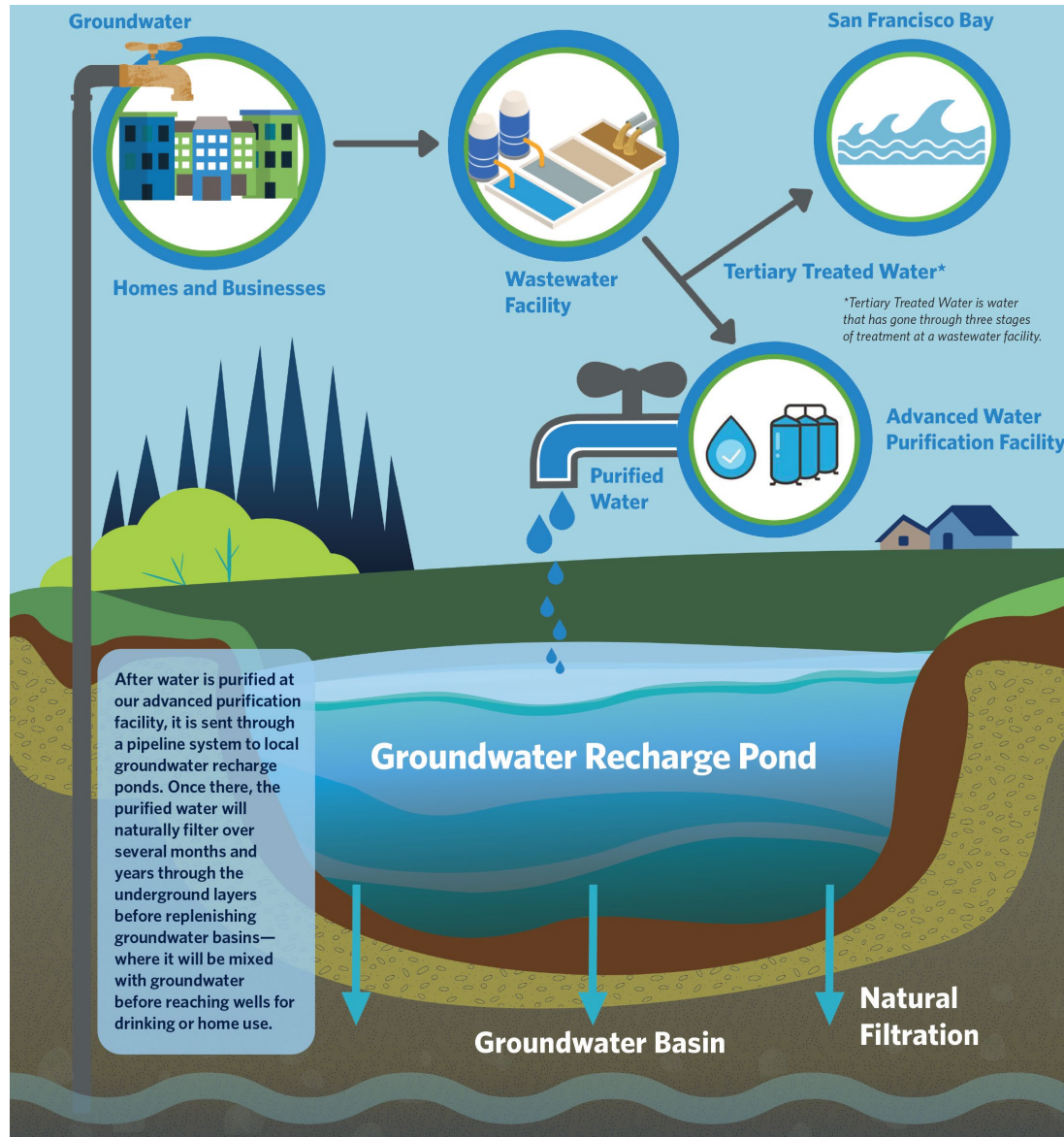
a graphic representation not intended as a technical exhibit



Recycled and Purified Water is an important component of the water supply portfolio



Recycled and Purified Water



ADVANCED WATER PURIFICATION PROCESS

HIGHLY TREATED WASTEWATER

This water originally comes from the drains of homes and businesses and is treated three times at a wastewater facility.



#1 MICROFILTRATION



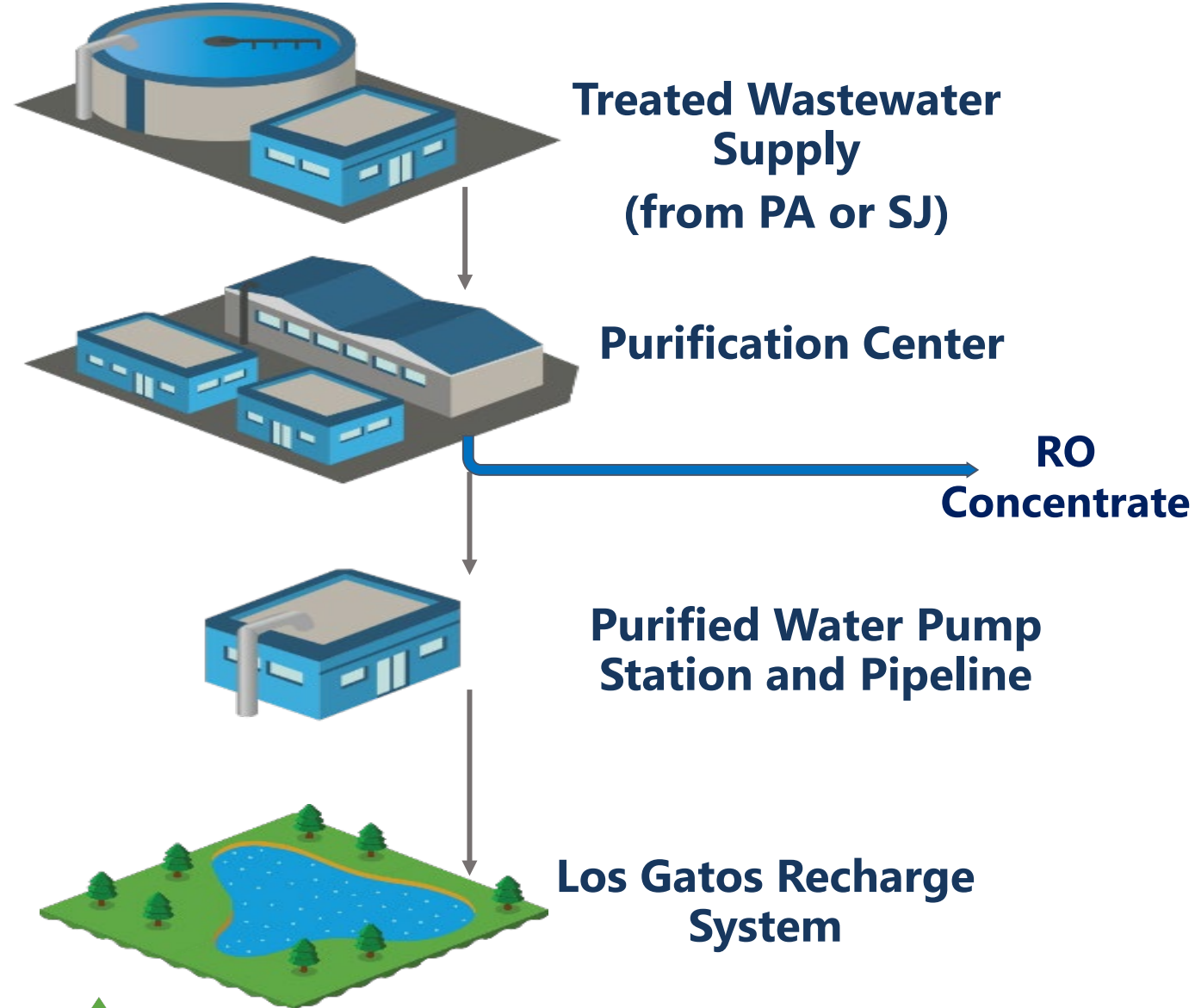
#2 REVERSE OSMOSIS



#3 UV LIGHT DISINFECTION AND ADVANCED OXIDATION

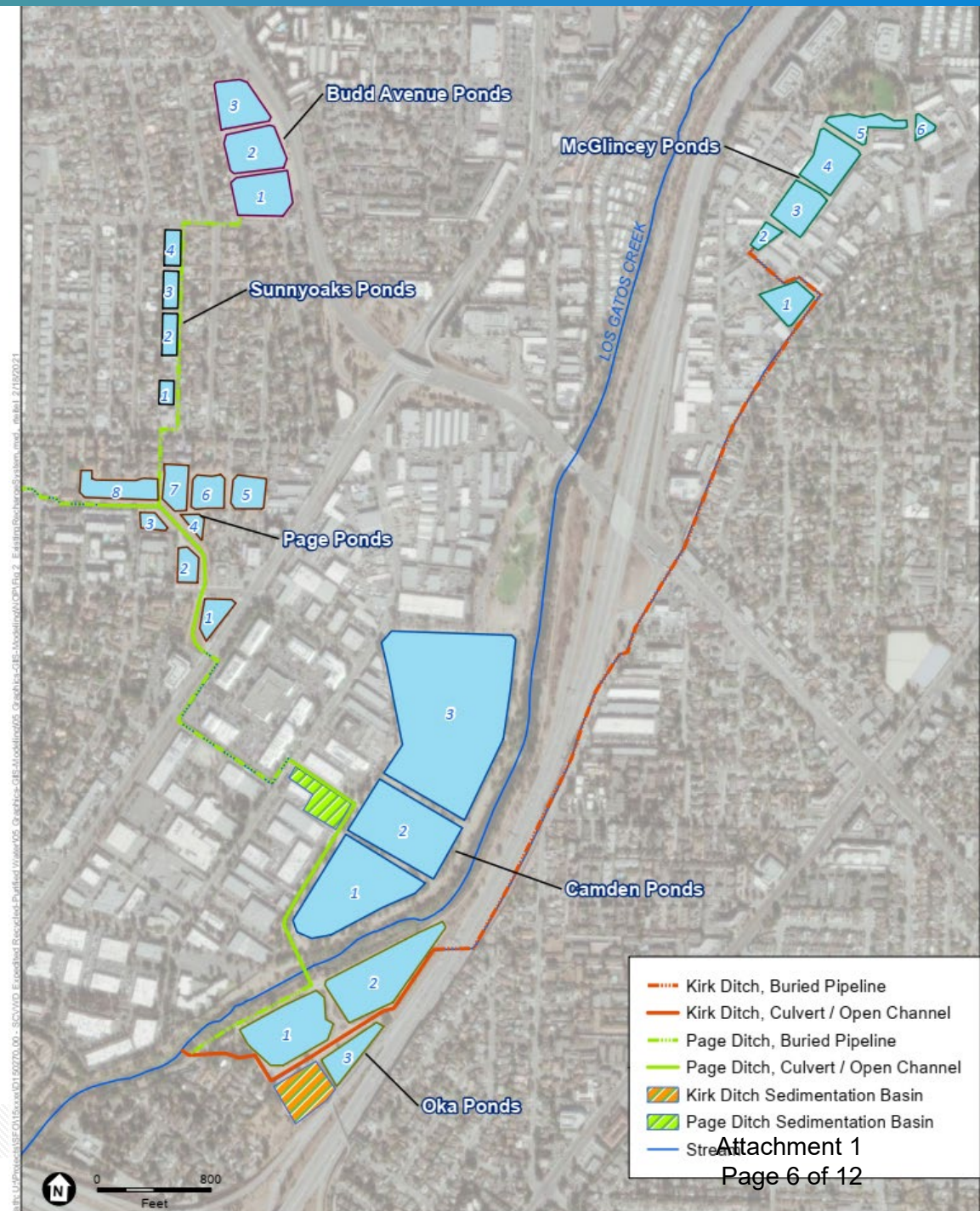
4

Purified Water Project



Project Components Cont'd

- Purified water conveyed to Los Gatos Recharge System
- Integrated into supply sources for groundwater recharge
- Indirect Potable Reuse



Timeline

- Fall 2021: Board decision on project site
- 2022: Valley Water plans to award the project
- 2024: Private partner completes design and permitting (with defined community benefits)
- 2028: Construction will be completed and water flowing to the Los Gatos Recharge system



Environmental/Public Review

- An Environmental Impact Report (EIR) is being created and will be released at a later date.
- EIR Scoping Meeting on March 29, 2021
- Any impacts and mitigations will be identified in the EIR.



CountyWide Reuse Master Plan

Goal:

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

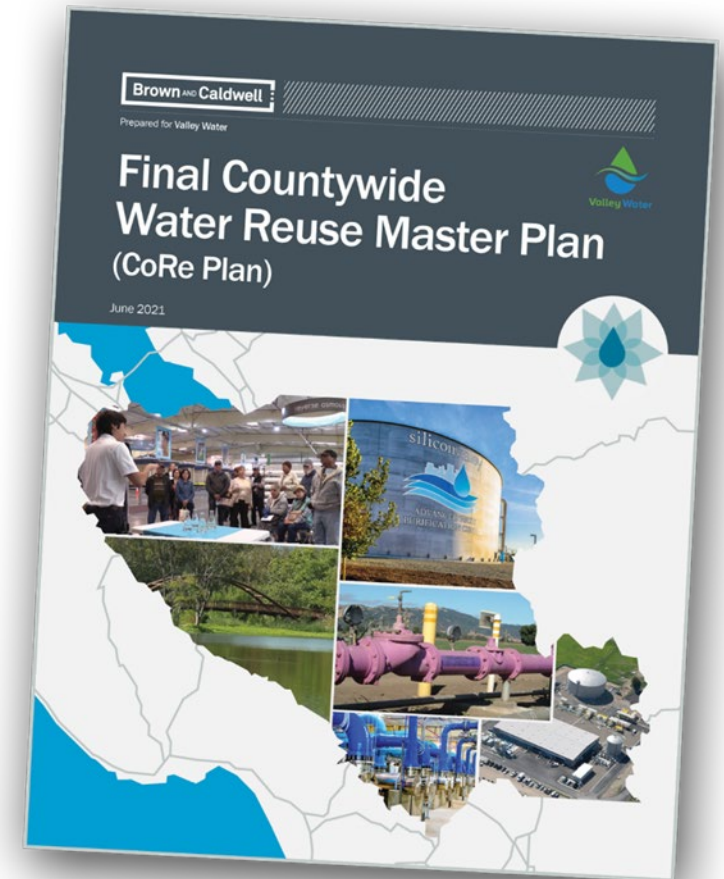
Aligned with Valley Water's One Water Plan and Water Supply Master Plan 2040

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



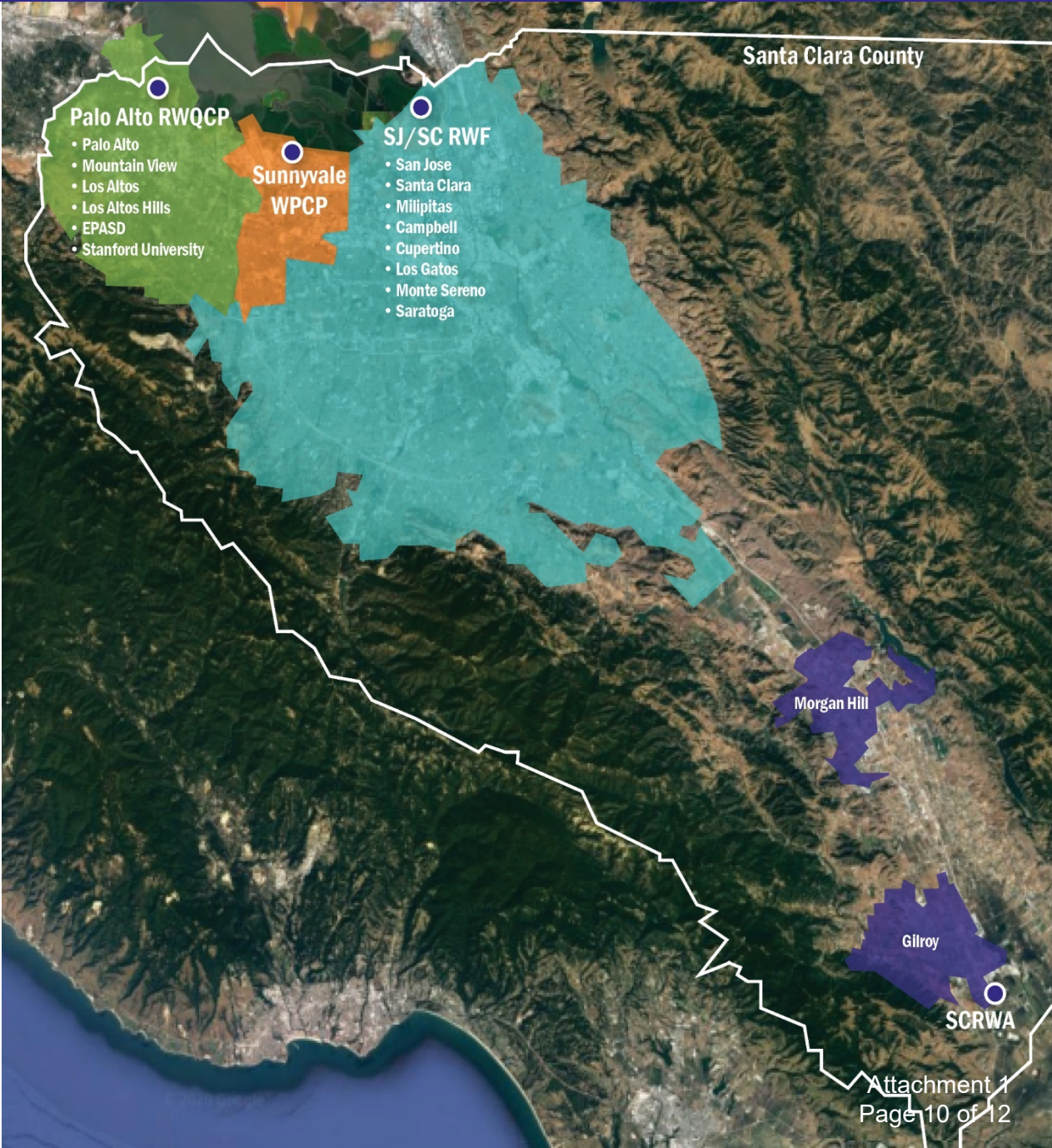
Recycled Water Producers (WWTP)

- Palo Alto RWQCP
- Sunnyvale WPCP
- San José/Santa Clara RWF
- SCRWA



Recycled Water Systems (RWS)

- Palo Alto/Mountain View RWS
- Sunnyvale RWS
- South Bay Water Recycling
- South County RWS (Gilroy)



Flexibility Analysis (FLEX)

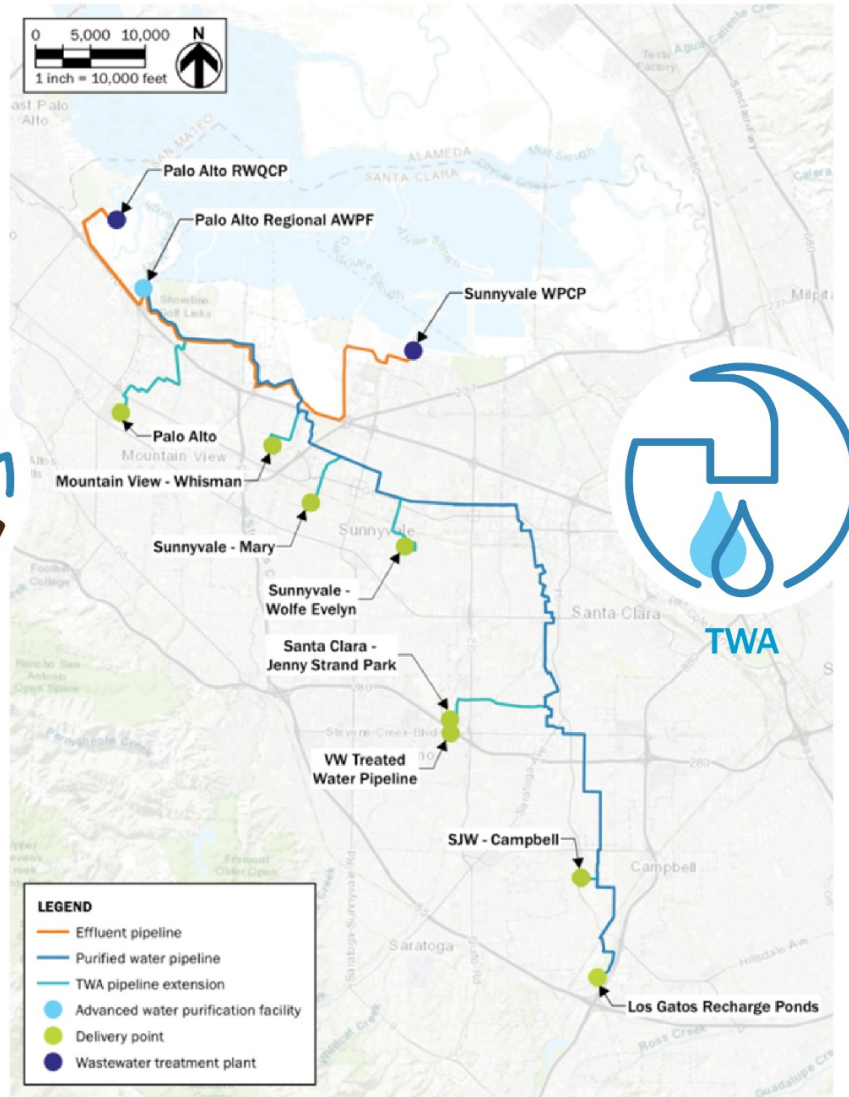
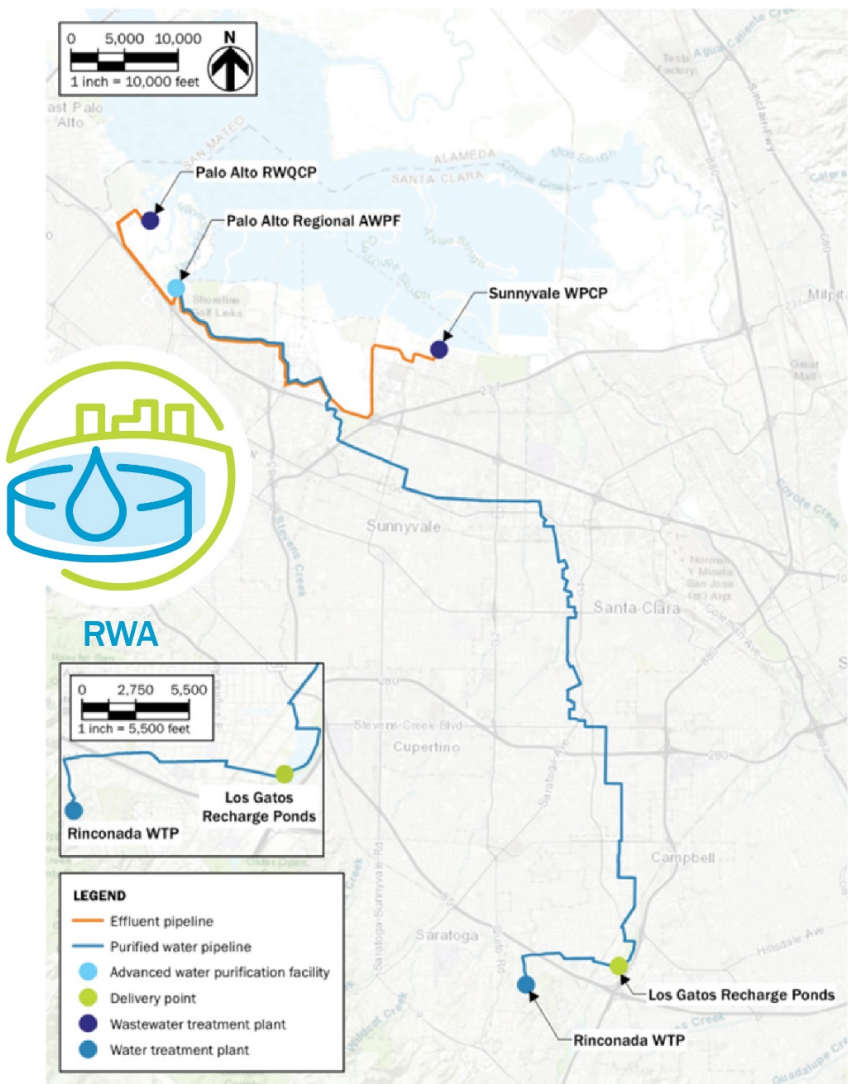


Figure 9-6. Flexible implementation from San José-based AWPf: RWA Flex facility locations and pipeline alignments

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

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

QUESTIONS





City of Sunnyvale

Agenda Item

21-0971

Agenda Date: 10/6/2021

Receive an Update on the Sunnyvale Clean Water Program



Sunnyvale

Sunnyvale Cleanwater Program

Chip Taylor, Ramana Chinnakotla

Santa Clara Valley Water District
Board of Directors Meeting

October 6, 2021



Sunnyvale Water Pollution Control Plant (WPCP)



Sunnyvale Water Pollution Control Plant (WPCP)



Sunnyvale Cleanwater Master Plan



Purpose of the Cleanwater Program



**Comply with
regulatory
standards.**



**Extend the
facilities' life.**



**Keep the
Plant safe
and dry.**



**Optimize cost
for
ratepayers.**



**Improve
reliability of
power
supply.**

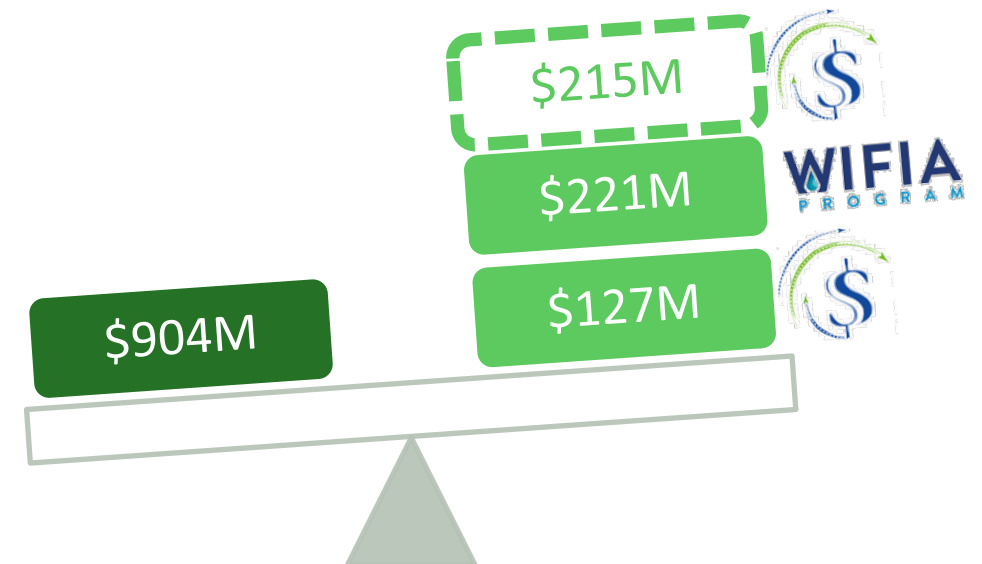
Sunnyvale Cleanwater Program



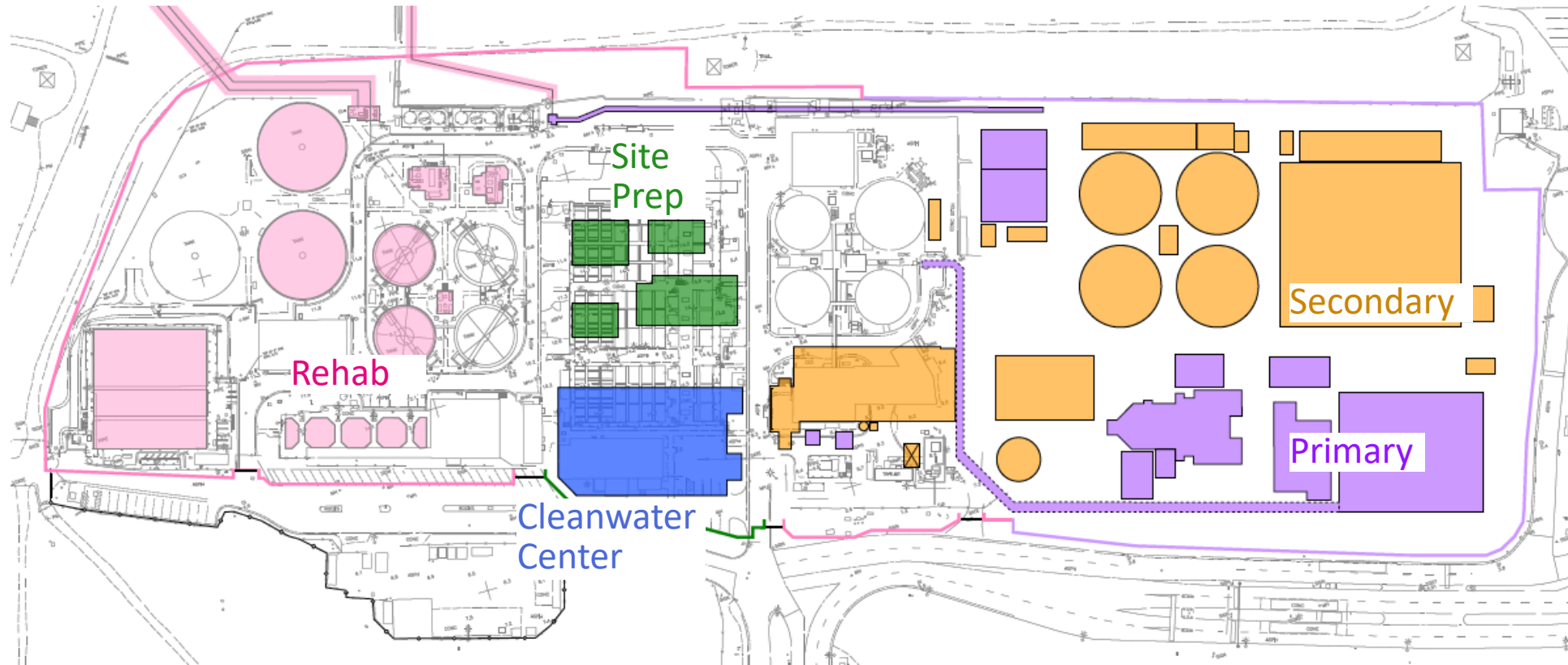
Financing

Costs

Loans



Current Projects



Headworks/Primary Treatment




Cleanwater Center



Perimeter Wall



Construction Schedule

2021				2022				2023				2024				2025			
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Primary/Headworks																			
		Site Prep																	
						Secondary Project (Main)													
						Plant Rehab (Main)													
										Perimeter Wall									
													Pipeline Rehab						
												Cleanwater Center*							

Master Plan Update—Strategic Issues



- Codigesting food waste
- Capacity increase for Moffett Park Specific Plan
- Secondary treatment alternatives
- Odor management
- Sea level rise
- PFAS and biosolids disposal

Thank You

- Environmental Services Department
 - ◆ Ramana Chinnakotla, Director
 - 408-730-7785
 - rchinnakotla@sunnyvale.ca.gov
- Public Works Department
 - ◆ Charles Taylor, Director
 - 408-730-7552
 - ctaylor@sunnyvale.ca.gov



Questions



City of Sunnyvale

Agenda Item

21-0968

Agenda Date: 10/6/2021

Sunnyvale East/West Channels Flood Protection Project Update



Santa Clara Valley Water District

File No.: 21-1043

Agenda Date: 10/6/2021

Item No.: 2.4.

BOARD AGENDA MEMORANDUM

SUBJECT:

Sunnyvale East/West Channels Flood Protection Project Update.

RECOMMENDATION:

Receive an update on the Sunnyvale East/West Channels Flood Protection Project.

SUMMARY:

The Sunnyvale West Channel Flood Protection Project upgrades the capacity of approximately 3 miles of existing storm drain channel to provide 1% (or 100-year) flood protection for 47 acres of highly valuable industrial lands, including the former Onizuka Air Force Station. The Sunnyvale East Channel Flood Protection Project upgrades the existing capacity of approximately 6 miles of existing storm drain channel to provide 1% flood protection for 1,618 parcels. Construction improvements along both storm drain channels will also decrease turbidity and sediment by repairing various erosion sites, thereby improving water quality.

In the early stages of the project design process, staff joined both improvement projects into one combined flood protection project (Project), with a single Environmental Impact Report (EIR), to reduce construction costs and minimize construction coordination issues between the two channels. The Project does not protect against tidal flooding.

Project Update:

- Final EIR was certified by Valley Water Board of Directors in September 2014;
- Completion of the 100% design is on-going and is expected to be completed by Fall 2021;
- To date, five permanent, necessary right-of-way acquisitions have been acquired, and staff is working with Santa Clara County Parks and Recreation Department and San Francisco Public Utilities Commission (SFPUC) to acquire final leasing agreements, for temporary construction areas necessary for the Project. It is anticipated that all acquisitions will be completed by March 2022;
- In June 2017, Valley Water submitted all the required permit applications to the various state and federal regulatory agencies. The permitting process is ongoing and staff is responding to requests for additional information from the California Department of Fish and Wildlife and the Regional Water Quality Control Board. Final permits are anticipated to be received sometime in Winter 2021-22, with construction contract advertisement anticipated to occur upon receipt of the required permits;

-
- Valley Water has engaged in partnering with Google, LLC since October 2017 to provide an additional environmental enhancement project along 1,100 linear feet of the Sunnyvale West Channel (Caribbean Drive upstream to Caspian Court). These enhancements include improvements to existing public infrastructure and an opportunity for on-site excess mitigation that may be utilized by Valley Water to offset Project impacts. Negotiations with Google are ongoing;
 - Google and Valley Water finalized a cost sharing agreement in 2020 for grading and surfacing a portion of the San Francisco Bay trail within the Valley Water Project limits;
 - Valley Water and the City of Sunnyvale have a pending draft agreement to construct a shared joint wall for their Water Pollution Control Plant (WPCP). This wall will serve as a security perimeter wall for the WPCP and as a floodwall for Valley Water's Project;
 - In 2016, Valley Water and the City of Sunnyvale executed both a Joint Use Agreement (JUA) and Cost Sharing Agreement for public trails along portions of the West Channel and the East Channel; and
 - A Conditional Letter of Map Revision (CLOMR) application has been submitted to and reviewed by the Federal Emergency Management Agency (FEMA). The final CLOMR re-submission for FEMA's review is pending completion of the CEQA process with the issuance of the various required Resource Agency permits.

FINANCIAL IMPACT:

There is no financial impact associated with this item.

CEQA:

The recommended action does not constitute a project under CEQA because it does not have a potential for resulting in direct or reasonably foreseeable indirect physical change in the environment.

ATTACHMENTS:

Attachment 1: Valley Water PowerPoint

UNCLASSIFIED MANAGER:

Rechelle Blank, 408-630-2615



West Channel looking upstream from Caribbean, Fall 2020

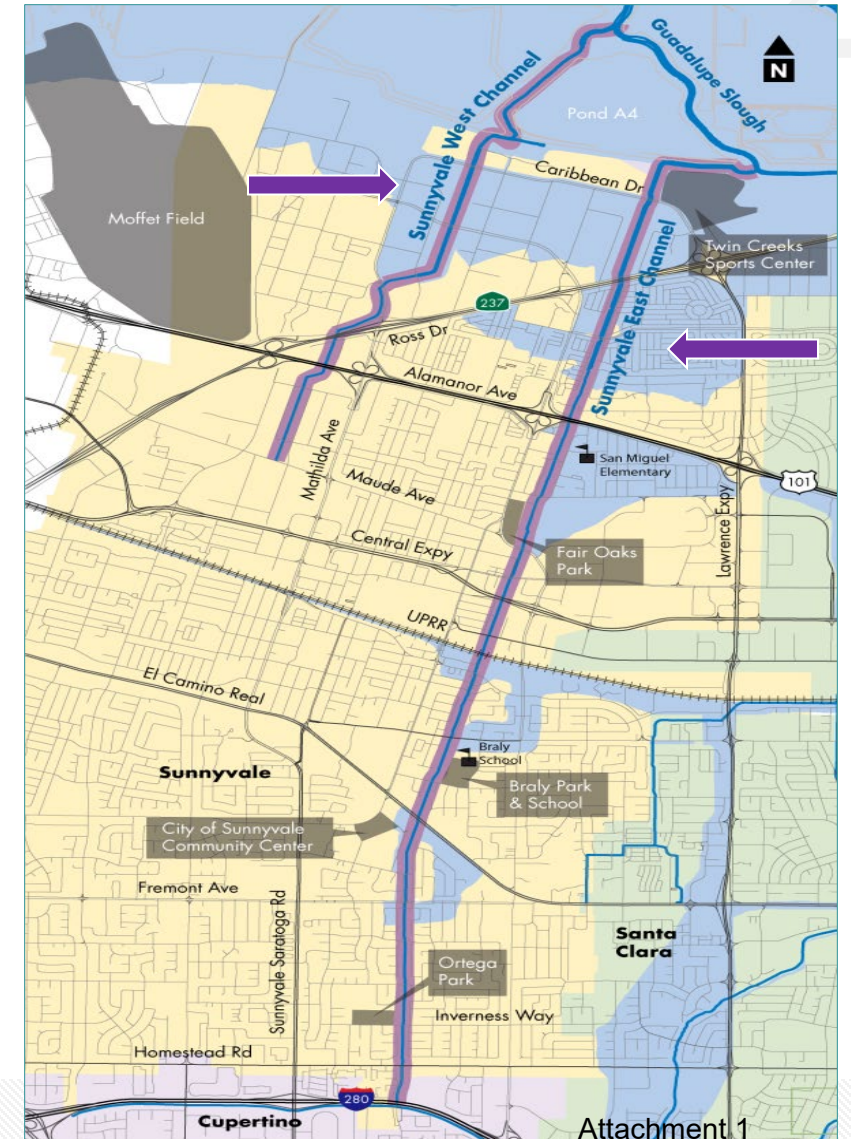
Sunnyvale East-West Flood Protection Project

Presented by: **Mr. Stephen M. Ferranti, P.E.** Engineering Unit Manager

Sunnyvale East-West Flood Protection Project

Overview (1 of 2)

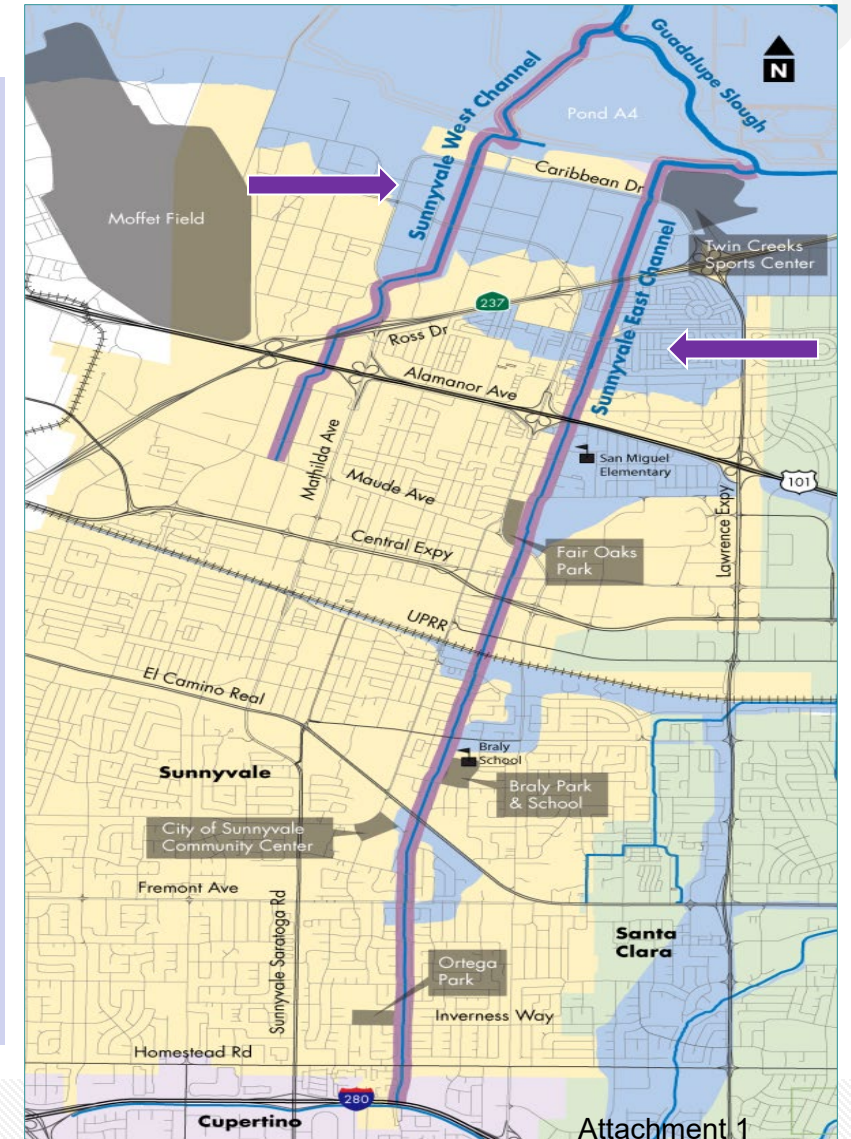
- Storm drain channels constructed by the District in 1960's;
- Historical flooding in 1963, 1968, 1983, 1986 and 1998;
- Project funded by Safe Clean Water measure;
- Design 99% Complete (9± miles)



Sunnyvale East-West Flood Protection Project

Overview (2 of 2)

- Submitted permit applications to Resource Agencies (June 2017);
- Permanent right-of-way acquisition complete
- Temporary Construction Area's pending;
- Trail cost share agreement and JUA complete with City of Sunnyvale;
- Bay Trail cost share agreement complete with Google
- Construction Contract Award – planned sometime in 2022



Sunnyvale East-West Flood Protection Project

Historic Flooding

Flooding from
Sunnyvale East
Channel at Caribbean
Drive and Crossman
Avenue— Feb. 3, 1998



Sunnyvale West Channel Project

Typical channel



Looking south from Carl Road

5

valleywater.org

Sunnyvale East Channel Project

Typical channel

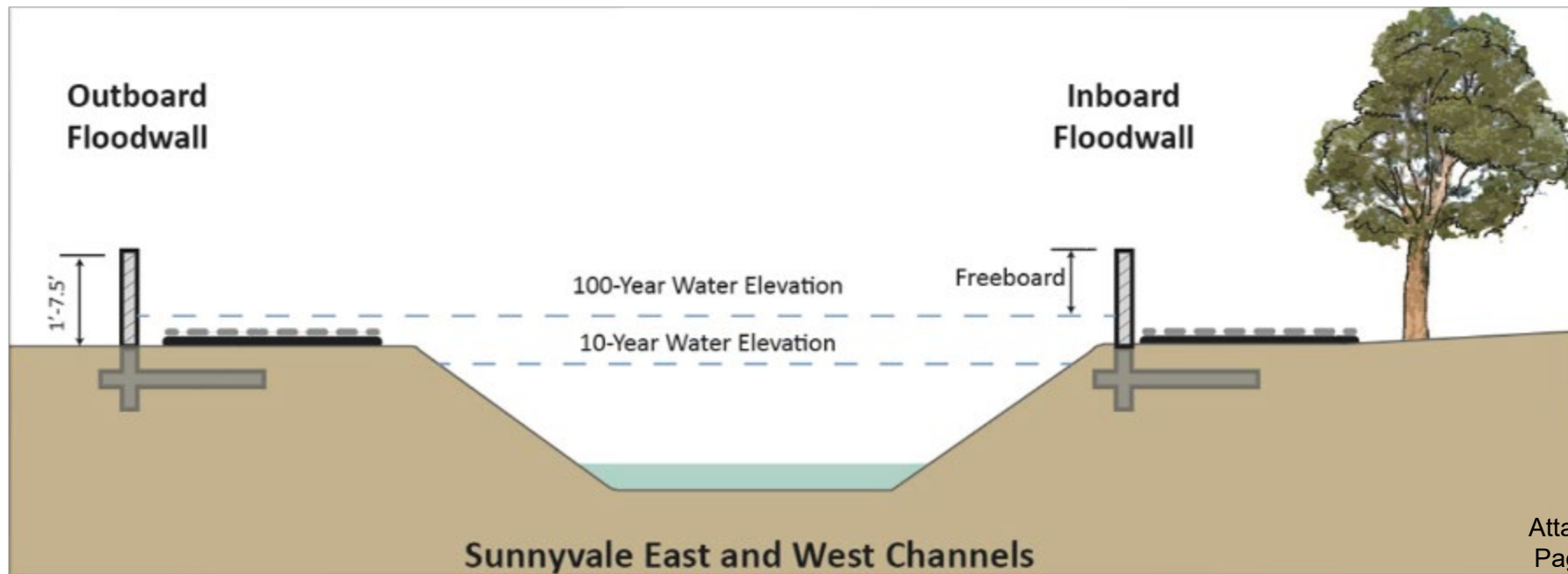


Sunnyvale East Channel:
Looking north from Blythe Avenue

Sunnyvale East-West Flood Protection Project

Proposed Floodwalls

- Provides 100-year flood protection and meets freeboard standards
- East Channel: S.F. Bay to U.S. 101
- West Channel: S.F. Bay to Mathilda Avenue
- Vertical heights ranging from 1 foot to 7.5 feet above existing ground
- Graphic artwork on bridge headwalls and form liners on floodwalls



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8

- valleywater.org**



Sunnyvale East-West Flood Protection Project

Proposed Bridge/Culvert Modifications

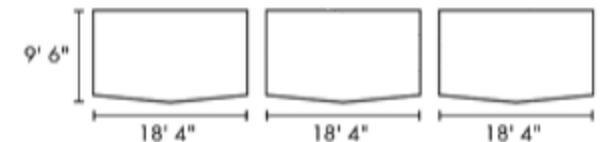
Bridge/culvert Replacements

- East Channel: Caribbean Drive Bridge
 - Replace with larger bridge, triple cell box culvert
 - Requires traffic management during construction
- West Channel:
 - Carl Road Culvert: Replace with larger, single box culvert
 - Java Drive: Reinforced Concrete Box culvert extension
- Provide 100-year flood protection and meet FEMA freeboard standards

Caribbean Drive Bridge at Sunnyvale East Channel



Triple Box Culvert Section



Trail Cost Share Agreements



- City of Sunnyvale, Joint Use Agreement and Cost Share Agreement (2016)
- Google, SF Bay Trail Cost Share Agreement (2020)
- Actual cost for public trails, will be determined at construction award (TBD)

— District Storm Drain
— City of Sunnyvale Trail JUA
— SF Bay trail cost share with Google

Sunnyvale East-West Flood Protection Project

Shared Wall with City of Sunnyvale WPCP

11

- Proposed shared wall to serve as a security fence (City) and as a wall for flood protection (VW)
- Estimated construction 2023 by City
- Alignment to be finalized after City Agreement with PG&E and VW review, timing TBD
- Pending cost share agreement between VW and City for WPCP wall



Sunnyvale East-West Flood Protection Project

Summary and Project Update

12

- 100% Design Complete - Fall 2021
- Final Agreement with Google on West Channel (Pending)
- EIR Addendum and Permit Discussions (On-going)
- Resource Agency Permits in 2022 (TBD)
- Construction Advertisement upon Receipt of Resource Agency Permits (TBD) *

* Timeline dependent on final agreement with Google and receipt of various Resource Agency permits

QUESTIONS



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City of Sunnyvale

Agenda Item

21-0175

Agenda Date: 10/6/2021

Receive an Update on the Moffett Park Specific Plan

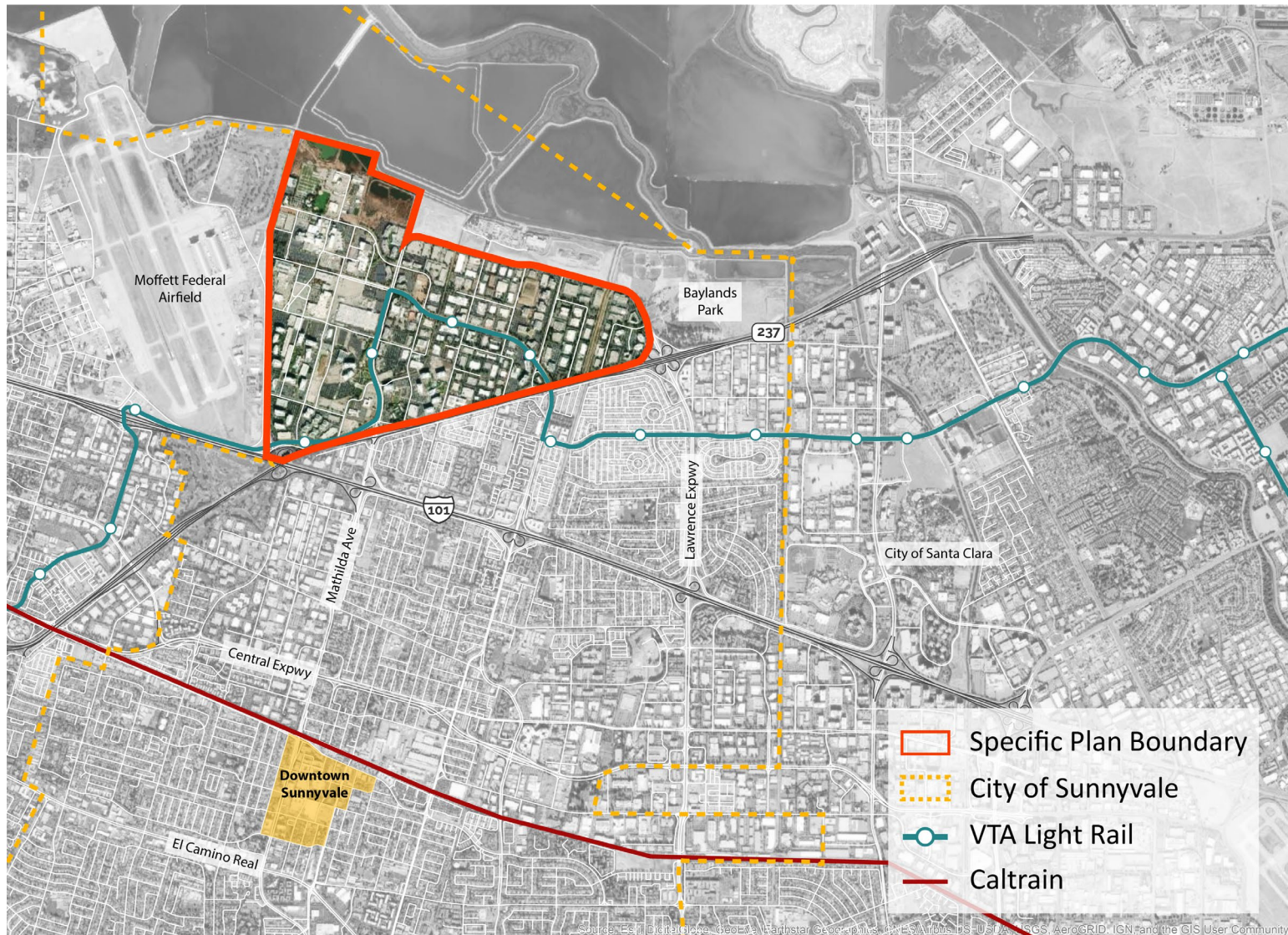


Moffett Park Specific Plan

Joint Meeting:
Sunnyvale City Council and Valley Water Board

October 6, 2021

Moffett Park Specific Plan



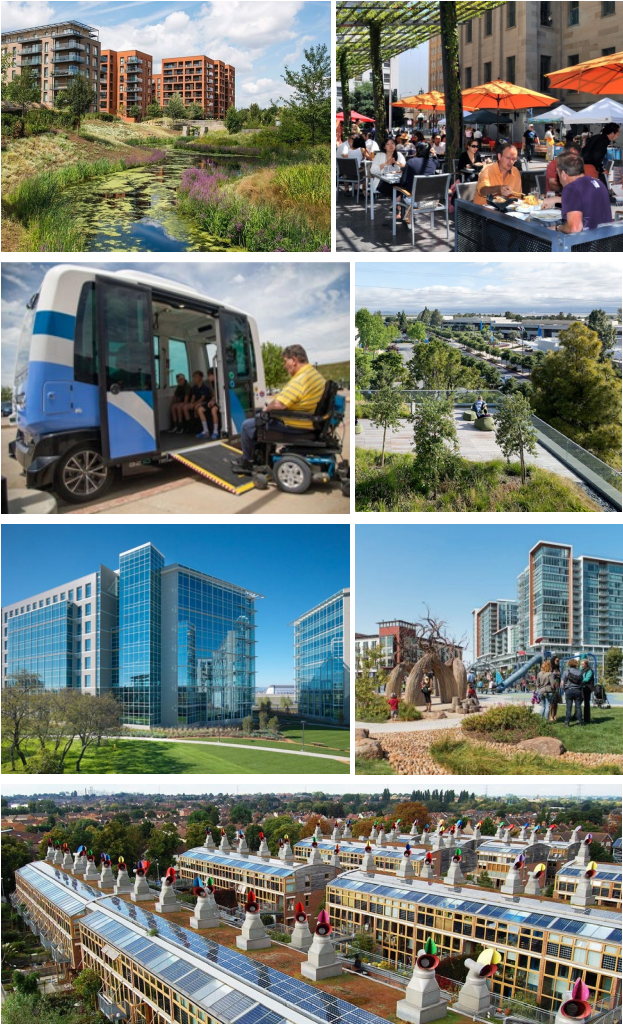
Vision Statement

Redefine the Moffett Park Specific Plan as an
“Ecological and Innovation District”



Moffett Park is an integral part of Sunnyvale and is a well-connected ecological innovation district with a diverse mix of uses that serves as a model of resilience, climate protection, equity and economic opportunity.

Guiding Principles Summary



1. *Resilient + Equitable*
2. *Vibrant + Inclusive*
3. *Diverse Economy + Prosperity*
4. *Accessible + Pedestrian Friendly*
5. *Dynamic + Connected Public Spaces*
6. *Healthy + Biodiverse Environment*
7. *Innovative + Emerging Technology*

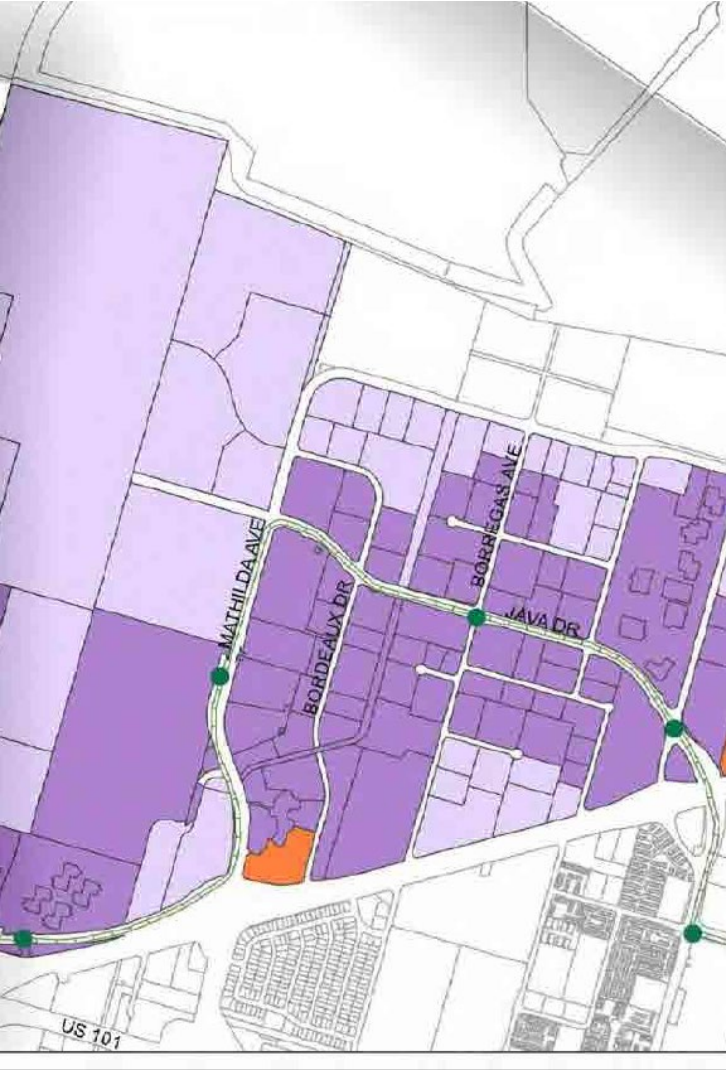
What is a Specific Plan?

- A **comprehensive** planning and zoning tool for a small area
- Establishes the **vision and guiding principles**
- Defines **policy and development standards**
- Strong focus on **implementation**



CITY OF SUNNYVALE MOFFETT PARK SPECIFIC PLAN





Specific Plan Requirements

- **Distribution, location, and extent of the uses of land**, including open space
- Proposed distribution, location, and extent and intensity of major components of **transportation and infrastructure**
- **Development standards**
- A program of **implementation measures**
- A statement of the **relationship of the specific plan to the general plan**



City Council + Planning Commission Direction

- Create comprehensive **community involvement strategy**
- Consider the potential **economic impacts of adding housing** while directing growth toward **transit supportive uses and improvements**
- Redefine the Moffett Park Specific Plan as an **“Ecological and Innovation District”**
- Improve vehicular, pedestrian, bicycle and transit **connectivity**
- Develop and implement **urban design standards for streets, streetscapes, buildings and open space**, which promote walkable and livable environments
- Prepare an **implementation strategy for infrastructure** and services
- Prepare a program-level environmental impact report

Past Project Meetings

- Virtual Public Workshops and Special City Council Study Session Series
 - **11/30/20:** Sea Level Rise & Climate Change
 - **02/01/21:** Transportation & Infrastructure
 - **03/02/21:** Land Use, Housing, Open Space, & Market Conditions
- May 2021: Land Use Concepts and Alternatives
- Aug 2021: EIR Notice of Preparation Released

Moffett Park Specific Plan Land Use Direction

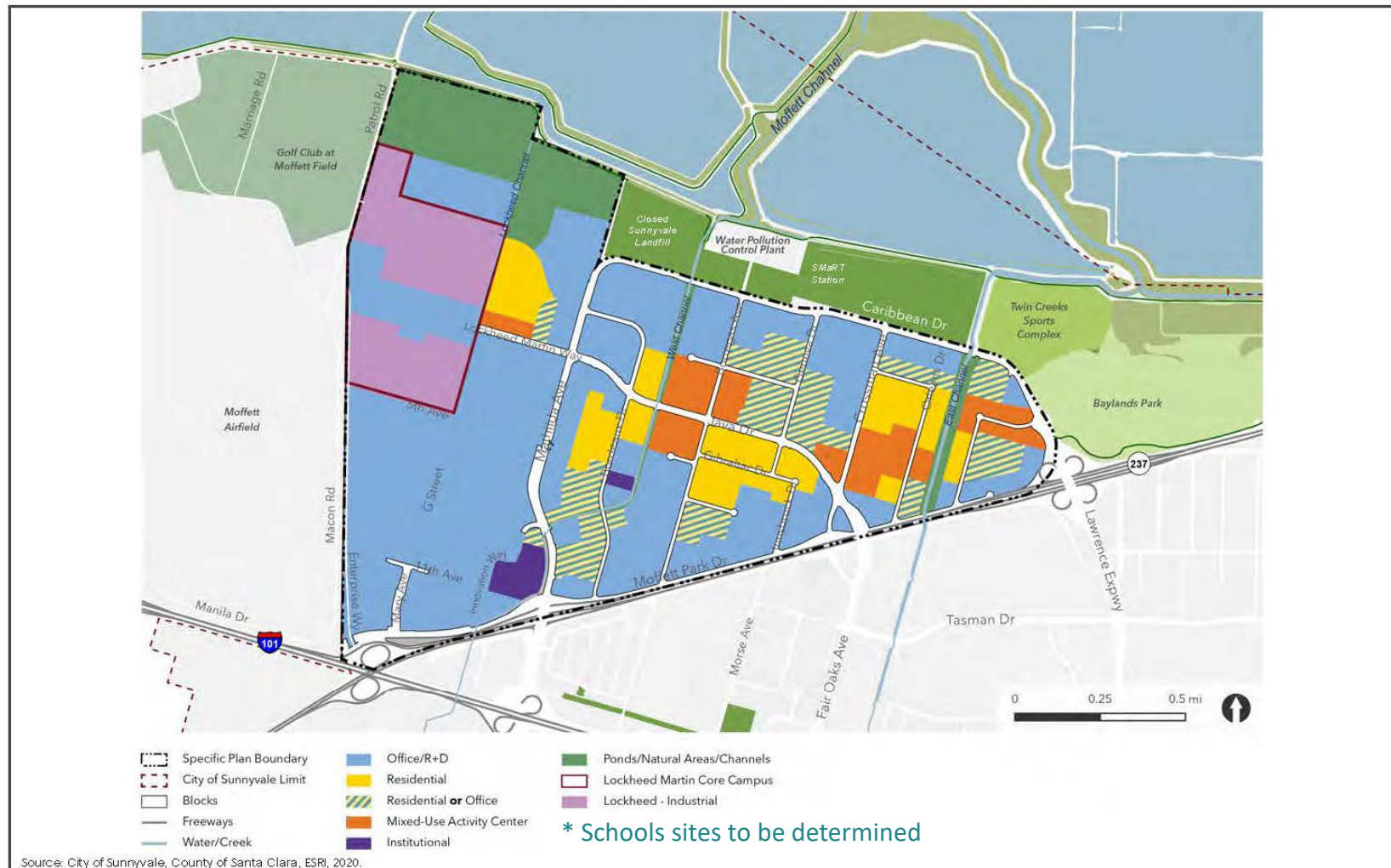


FIGURE 4

Land Use Program for Study

- + 10 million sf (net new) of Office/R+D/Flex
- + 20,000 housing units
- + 500,000 (net new) sf commercial
 - 2 Activity Centers (200K or larger)
 - 3 to 5 Neighborhood Corners (3-10K)

Open Space/Urban Ecology

- Parks, plazas and other open space
- Connected network of eco-patches (Eco-Corridors/Linear Parks)

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Land Use Program for Study

...continued from prior page

Community Facilities and Services

- Public school/s

Circulation/Mobility Network

- Explore Connected network of streets/paths/trails/and open spaces
 - Linkages across Streets and Water Channels
 - Live
 - Work
 - Shopping
 - Play

Environmental Issue Areas under Study

- Aesthetics
- Air Quality
- Biological Resources
- Cultural Resources
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use
- Noise and Vibration
- Population and Housing
- Public Services
- Recreational Facilities
- Transportation
- Tribal Cultural Resources
- Utilities and Service Systems

Technical Working Group

- Affordable House Advocates
- Sunnyvale School District
- Santa Clara Valley Unified School District
- Fremont School District
- Foothill-De Anza Community College
- Airport Land Use Commission
- Valley Transportation Agency
- CalTrans
- California Fish and Wildlife
- Valley Water
- Silicon Valley Clean Energy
- Ecology Advocates
- Neighboring jurisdictions
- All City of Sunnyvale Departments

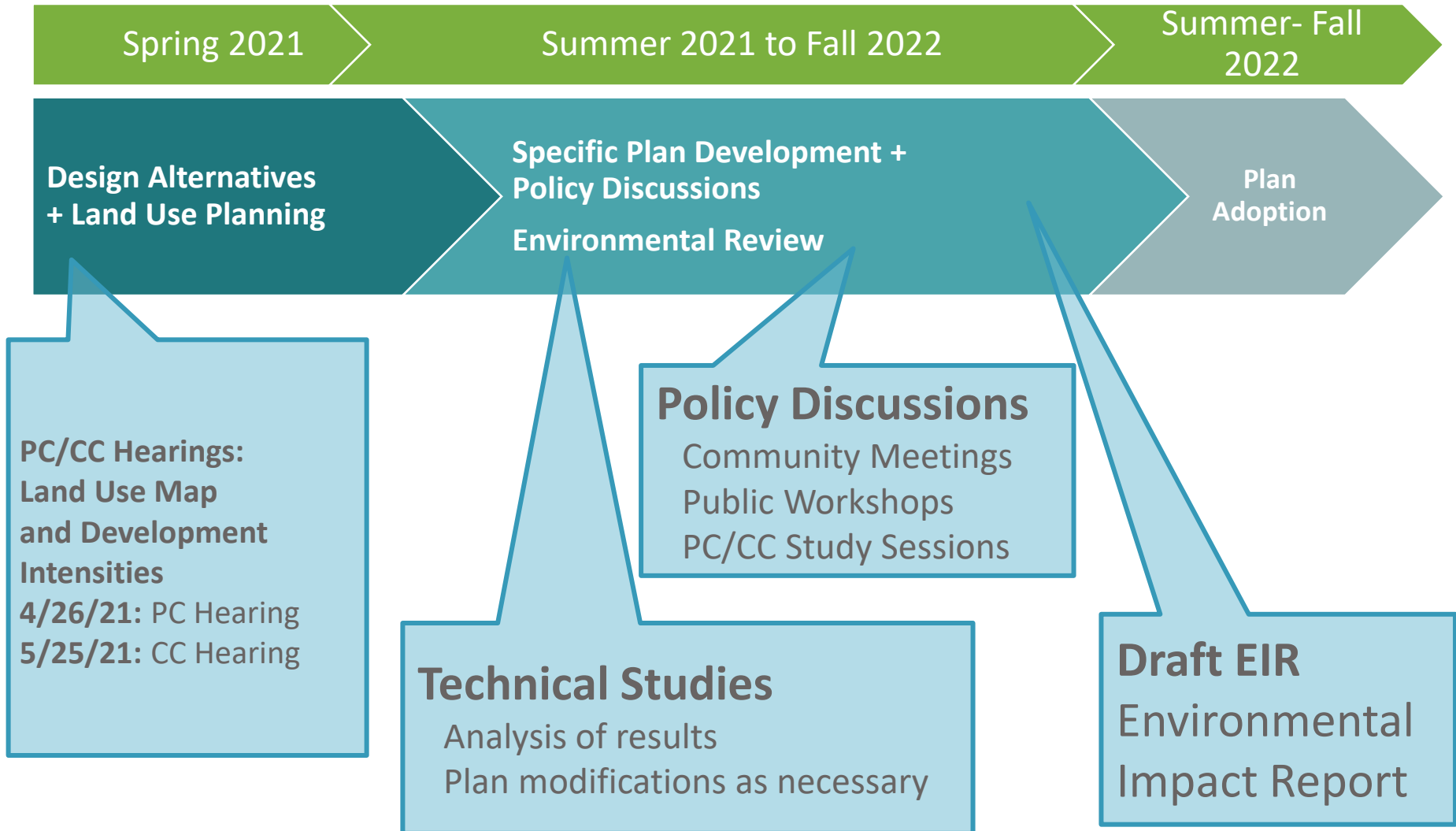
Outreach and Coordination Efforts

<https://www.moffettparksp.com>

- Project Updates
- Technical Studies
- Informative videos
- Study sessions and public events materials



Planning Process Overview



Next Steps

- Upcoming Study Sessions
- Further Collaboration with Technical Working Group, Stakeholders, Advocates
- Online Engagement
- Draft Specific Plan
- Draft EIR
- Public Hearings: Planning Commission and City Council
- Completion Fall 2022

An aerial photograph of the Moffett Park area in San Francisco. The image shows a mix of urban development, including residential neighborhoods, commercial areas, and industrial zones. A large green semi-transparent rectangle is overlaid on the center of the image, containing the text "Questions & Comments". In the background, the San Francisco Bay and the Golden Gate Bridge are visible under a clear blue sky.

Questions & Comments



City of Sunnyvale

Agenda Item

21-0967

Agenda Date: 10/6/2021

Receive an Update on the South San Francisco Bay Shoreline Study



Santa Clara Valley Water District

File No.: 21-1011

Agenda Date: 10/6/2021

Item No.: 2.6.

BOARD AGENDA MEMORANDUM

SUBJECT:

Receive an Update on the South San Francisco Bay Shoreline Study.

RECOMMENDATION:

Receive an update on the South San Francisco Bay Shoreline Study.

SUMMARY:

The South San Francisco Bay Shoreline Study (Shoreline Study) will study the feasibility of implementing a project to safeguard hundreds of homes, schools, and businesses along Santa Clara County's 18 miles of shoreline from the risk of coastal flooding. The Shoreline Study will also study restoring tidal marsh and related habitat that was lost due to former salt production activities, providing recreational opportunities and public access along the bay shoreline, and takes into consideration safeguarding against sea level rise over a 50-year period (through Year-2067).

The Shoreline Study is being undertaken by Santa Clara Valley Water District (Valley Water) in partnership with the United States Army Corps of Engineers (USACE) and the State Coastal Conservancy (Conservancy). Congressional authorization to conduct the Shoreline Study was granted by the Water Resources Development Act in 1976. Valley Water and the Conservancy are the non-federal sponsors, also referred to as "local study sponsors." The Shoreline Study efforts began in 2005 for all of Santa Clara County, which was divided into 11 areas, called Economic Impact Areas (EIA). In September 2010, Valley Water requested that USACE re-evaluate the study scope and conduct the Shoreline Study in phases beginning with the area among the highest potential for flood damages and economic impacts. Conducting the study in phases was requested because studying the entire 18 miles was proving to take too long and resulting in study cost overruns. Valley Water's Board endorsed this new scope in March 2011, and the Feasibility Study was thereafter refocused to the EIA 11 area located in north San Jose between the Alviso Slough and Coyote Creek.

Phase I of the Shoreline Study in north San Jose received authorization for design and construction in December 2015, followed by receipt in July 2018 of a fixed federal fund amount of \$124.3 million from the Bipartisan Budget Act to design and construct the 'Project'. Phase I of the Shoreline Project has since realized significant cost growth compared to the 2015 Feasibility Study cost estimate. Despite the project team's due diligence to identify cost drivers and implement cost savings, the design and construction cost has grown from \$194M to \$518M (a 267% increase in cost). This is now posing significant challenges to fully implement this project by the study partners.

In September of 2019, the study partners entered into a Feasibility Study Cost Share Agreement to conduct the Phase II Shoreline Feasibility Study for the remaining EIAs 1-10. However, USACE is bound to conduct a Feasibility Study in 3 years and \$3M cost shared 50-50 between USACE and local study sponsors. Within the first quarter of the Phase II Feasibility Study, it was determined that Phase II of the study would once again have to be narrowed to a single local area. As a result of an in-depth scoping analysis by USACE, the Phase II study was identified to focus on EIAs 1-4 mostly in the City of Palo Alto. It should also be noted that USACE has additionally now identified a need to increase the Feasibility Study timeline by nearly 3 years and increase the study cost by nearly \$3M. The study timeline and cost increase are due to meeting California's stringent environmental National Environmental Policy Act and California Environmental Quality Act requirements.

Initiation of a Shoreline Feasibility Study for Phase III is pending receipt of USACE funding for EIAs 5-10. USACE has requested funds in their fiscal year 2022 budget to initiate the Phase III Feasibility Study but funds have not been appropriated to date. In the meantime, Valley Water has been working with SFEI and ESA in collaboration with the City of Sunnyvale, NASA, Google, Lockheed Martin, the Conservancy and U.S. Fish and Wildlife Service on a Sunnyvale Shoreline Resilience Vision Process to identify acceptable coastal levee alignments to the local agencies and to gather as much information as possible to be ready to begin the Phase III Feasibility Study when USACE receives funds. The Vision document is in the final stages of review.

FINANCIAL IMPACT:

There is no financial impact associated with this item.

CEQA:

The recommended action does not constitute a project under CEQA because it does not have the potential for resulting in direct or reasonably foreseeable indirect physical change in the environment.

ATTACHMENTS:

Attachment 1: PowerPoint

UNCLASSIFIED MANAGER:

Rechelle Blank, Valley Water Deputy Operating Officer, 408-630-2615

South San Francisco Bay Shoreline Study



US Army Corps
of Engineers.



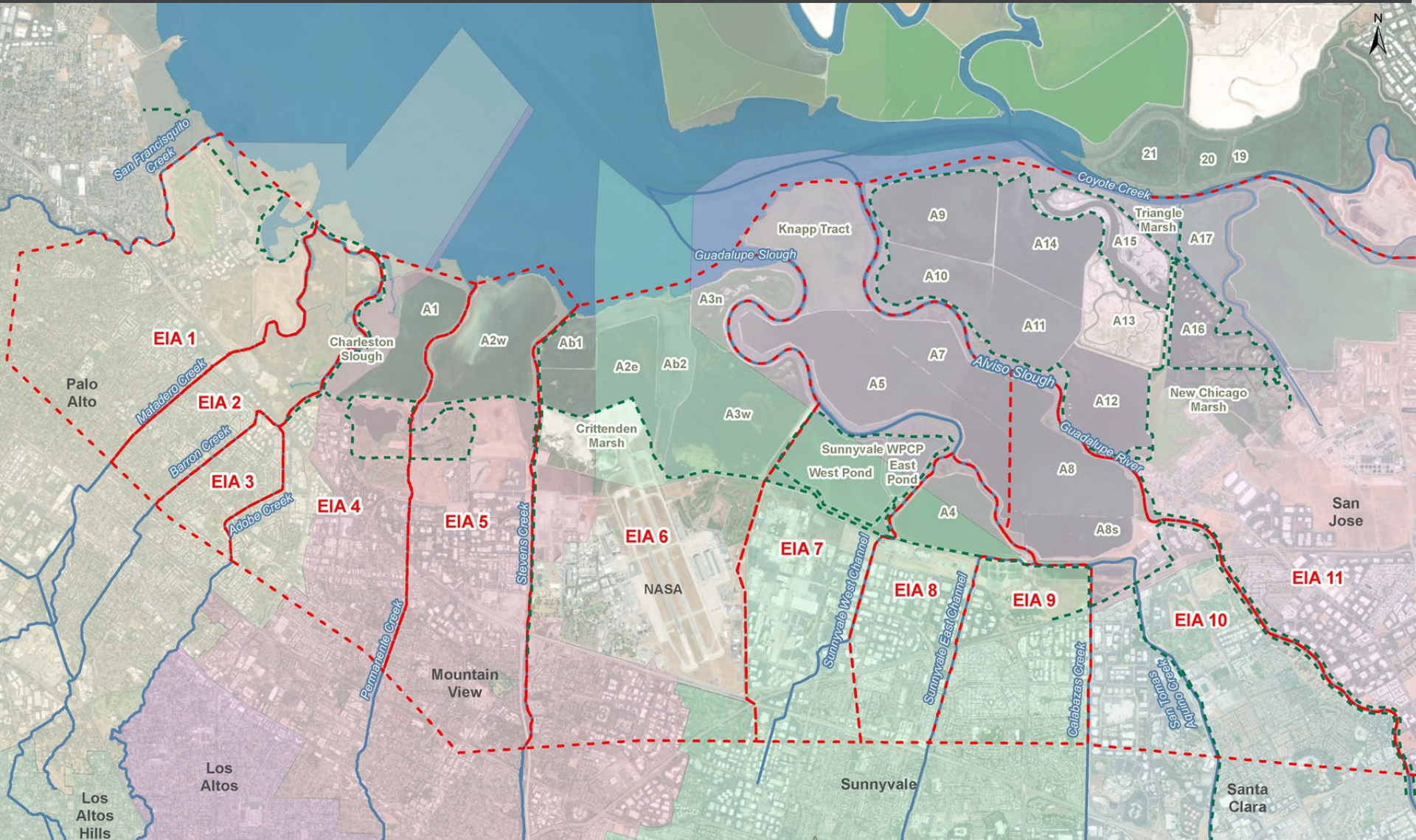
Coastal
Conservancy



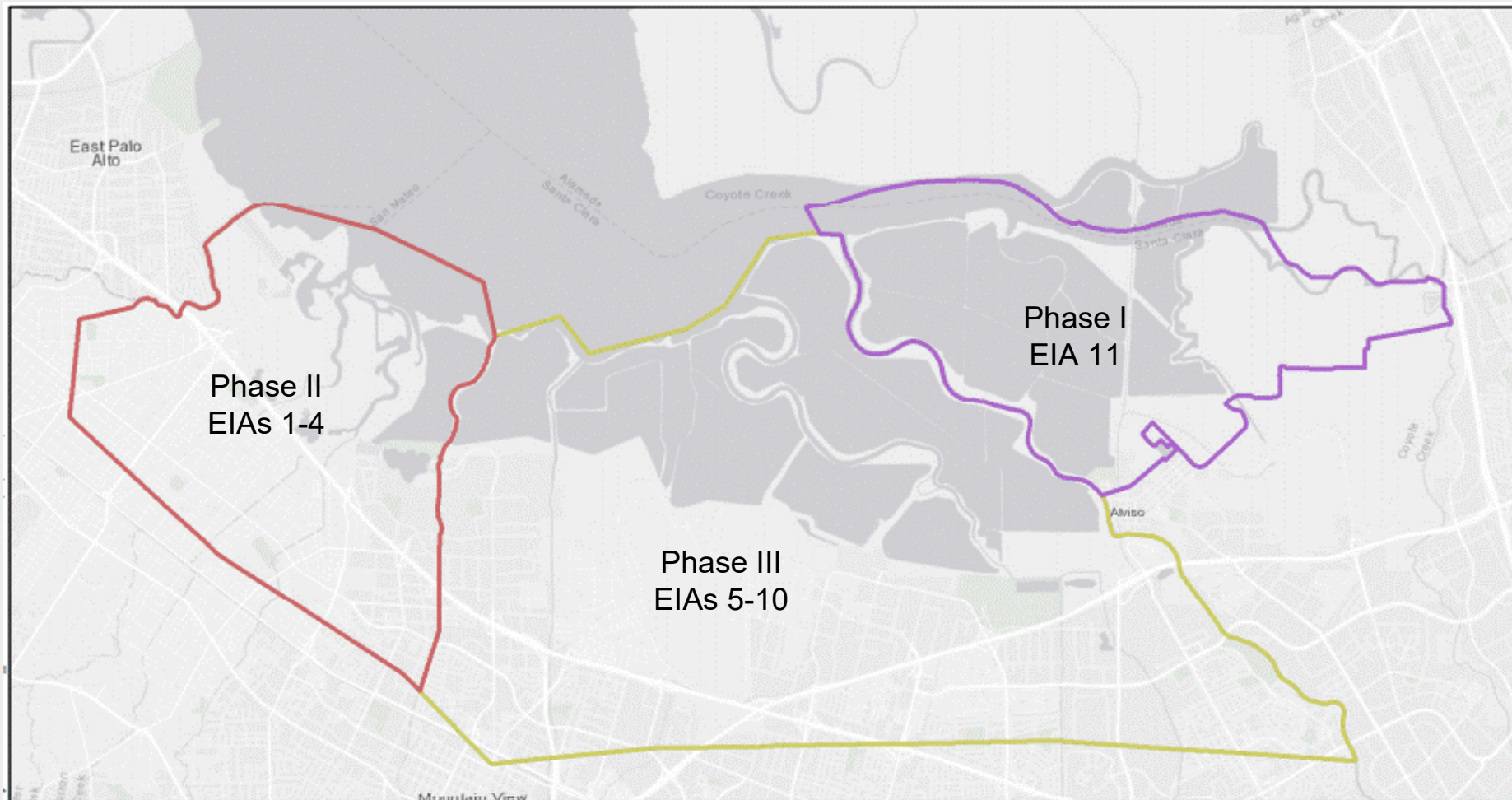
Valley Water



Shoreline Study Authorization Area in Santa Clara County



Shoreline Study Phases



Phase I: Construction 2021-2036 (pending funding availability)

Phase II: Feasibility Study 2019-2025

Phase III: Future Feasibility Study (pending federal funding)

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