



Valley Water Purified Water Project

Agenda Item No. 1: Prescreening Study Session

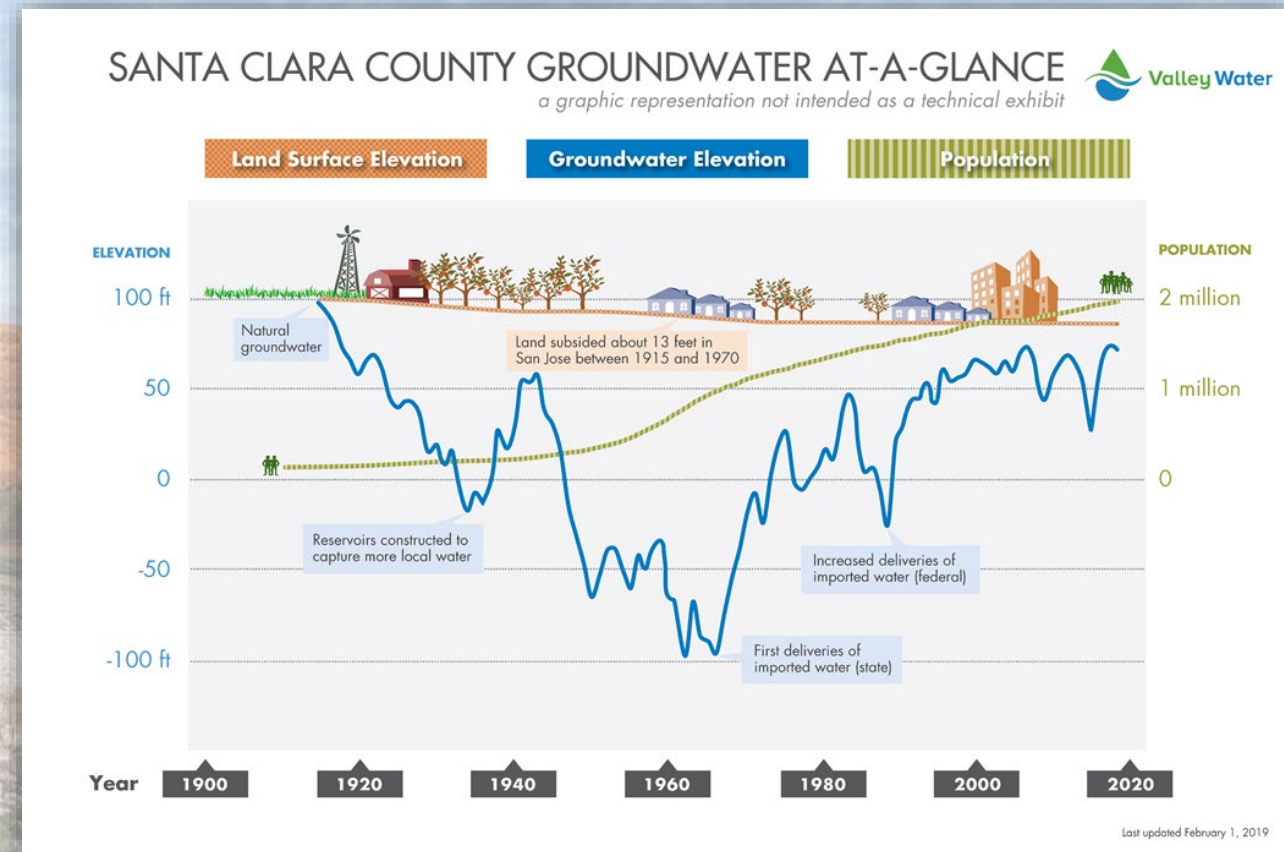
Monday, June 5, 2023







Project Overview

Purified Water: Future Water Supply Reliability

- Protects us from impacts of climate change
- Creates a new drought-resilient and locally-controlled water supply
- Reduces dependency on imported water
- Protects our region's groundwater supplies



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

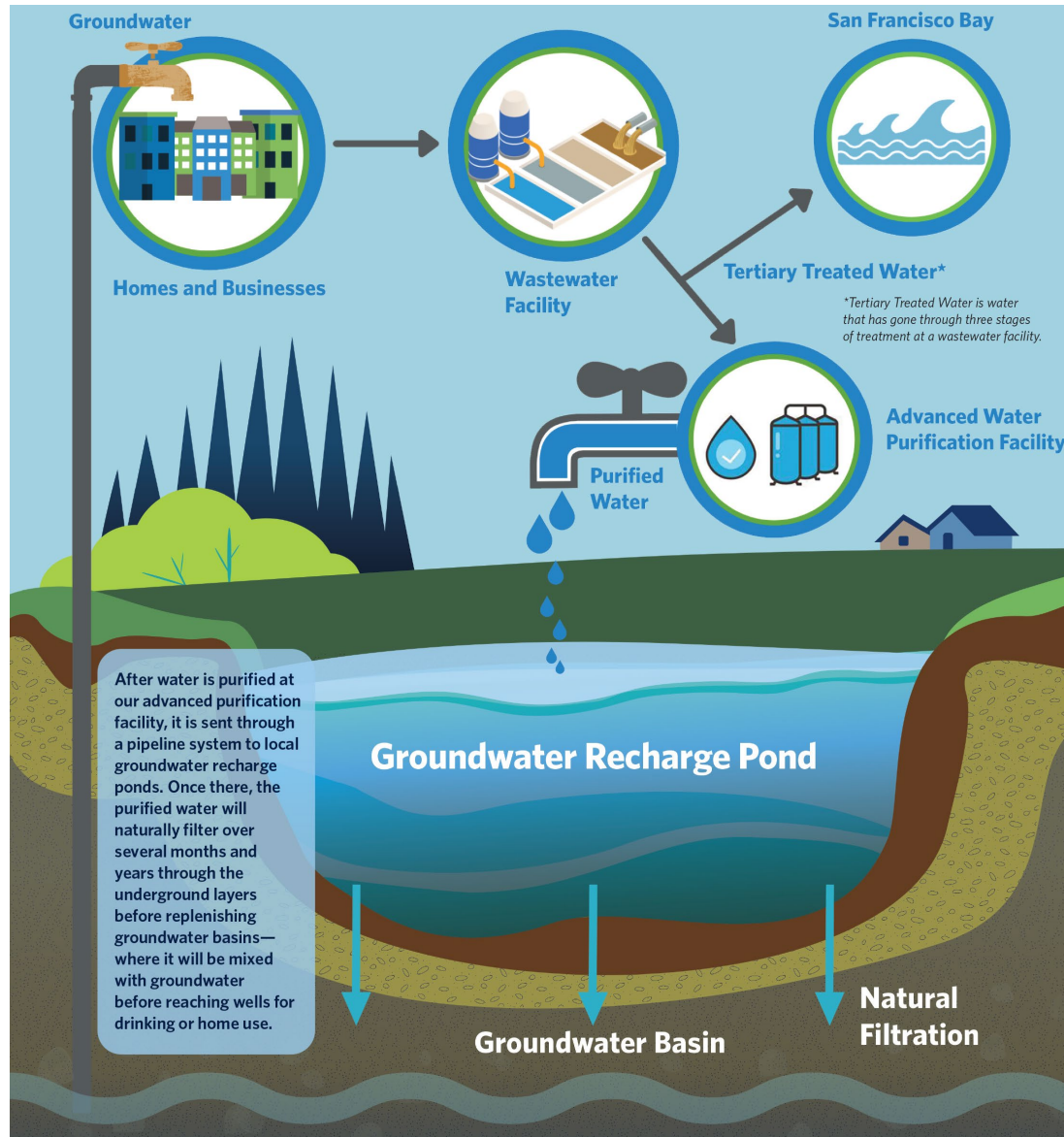
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|---|--|
|  | <p><i>Local Water (30%)</i></p> <ul style="list-style-type: none">• Groundwater aquifer• Reservoirs |
|  | <p><i>Imported Water (50%)</i></p> <ul style="list-style-type: none">• Delta conveyed• Hetch Hetchy |
|  | <p><i>Recycled Water (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 |

Existing 2019 Partnership Agreement to Advance Resilient Water Reuse Programs

- Valley Water funding of \$16 million (for local salt removal facility or other water related projects)*
- Effluent transfer option to Valley Water for a regional purification facility (\$0.2M/yr → \$1M/yr when exercised)*
- Water supply option for the Cities of Palo Alto and Mountain View

*Amounts escalated annually per 2019 Agreement

Indirect Potable Reuse



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

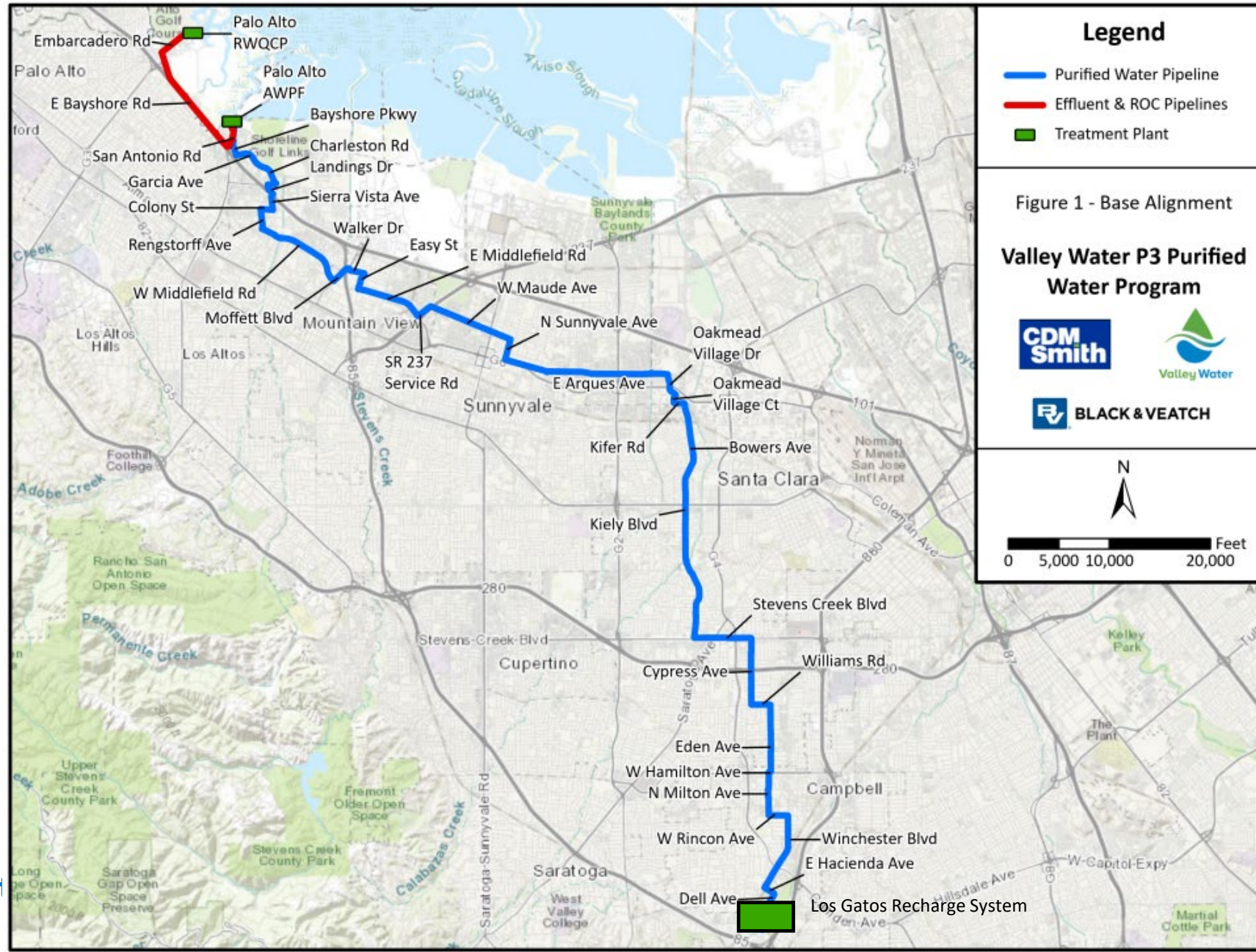


#2 REVERSE OSMOSIS

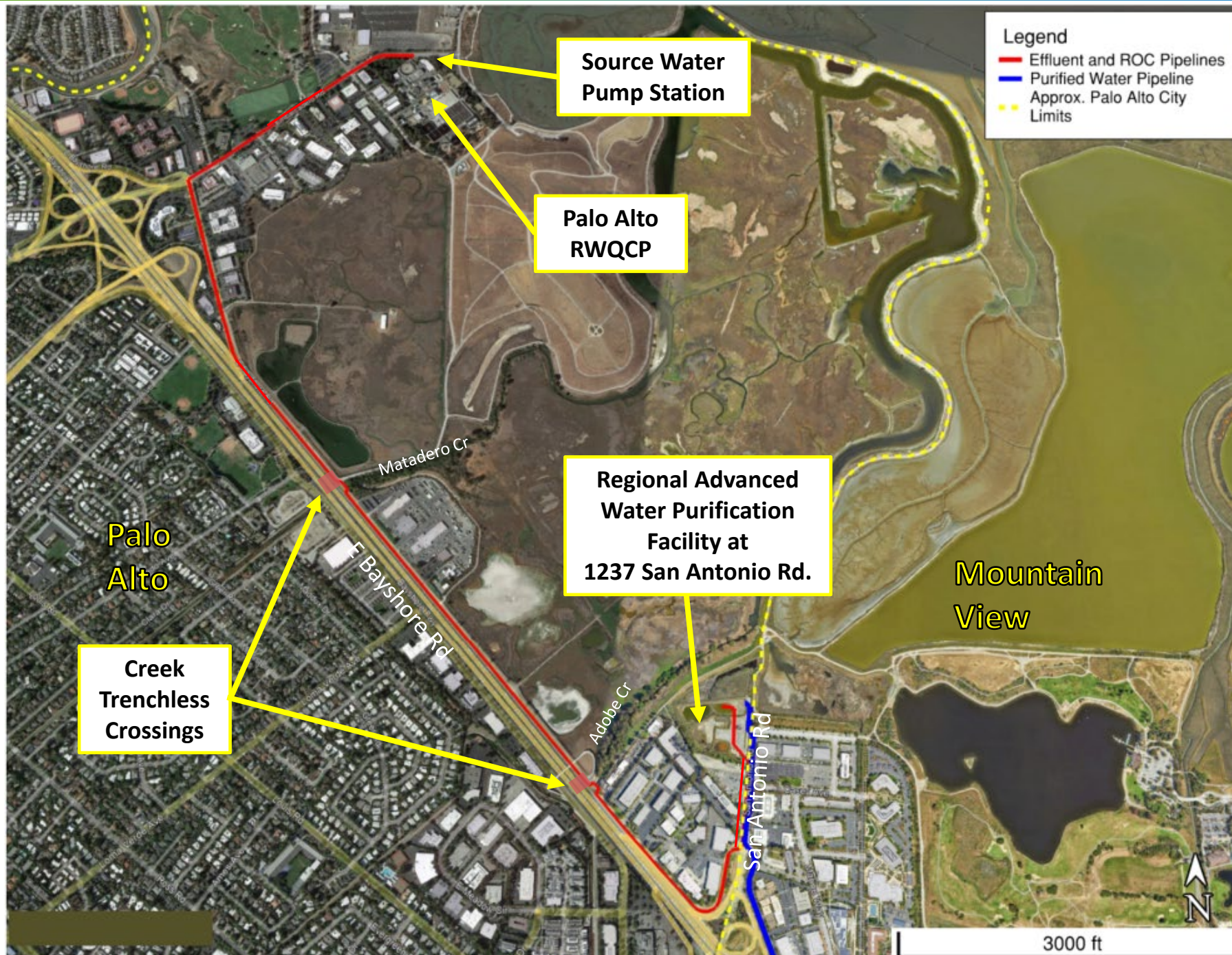


#3 UV LIGHT DISINFECTION AND ADVANCED OXIDATION

Purified Water Project Overview



Project Elements in Palo Alto





Source Water Pump Station (SWPS) and Tie-in Locations

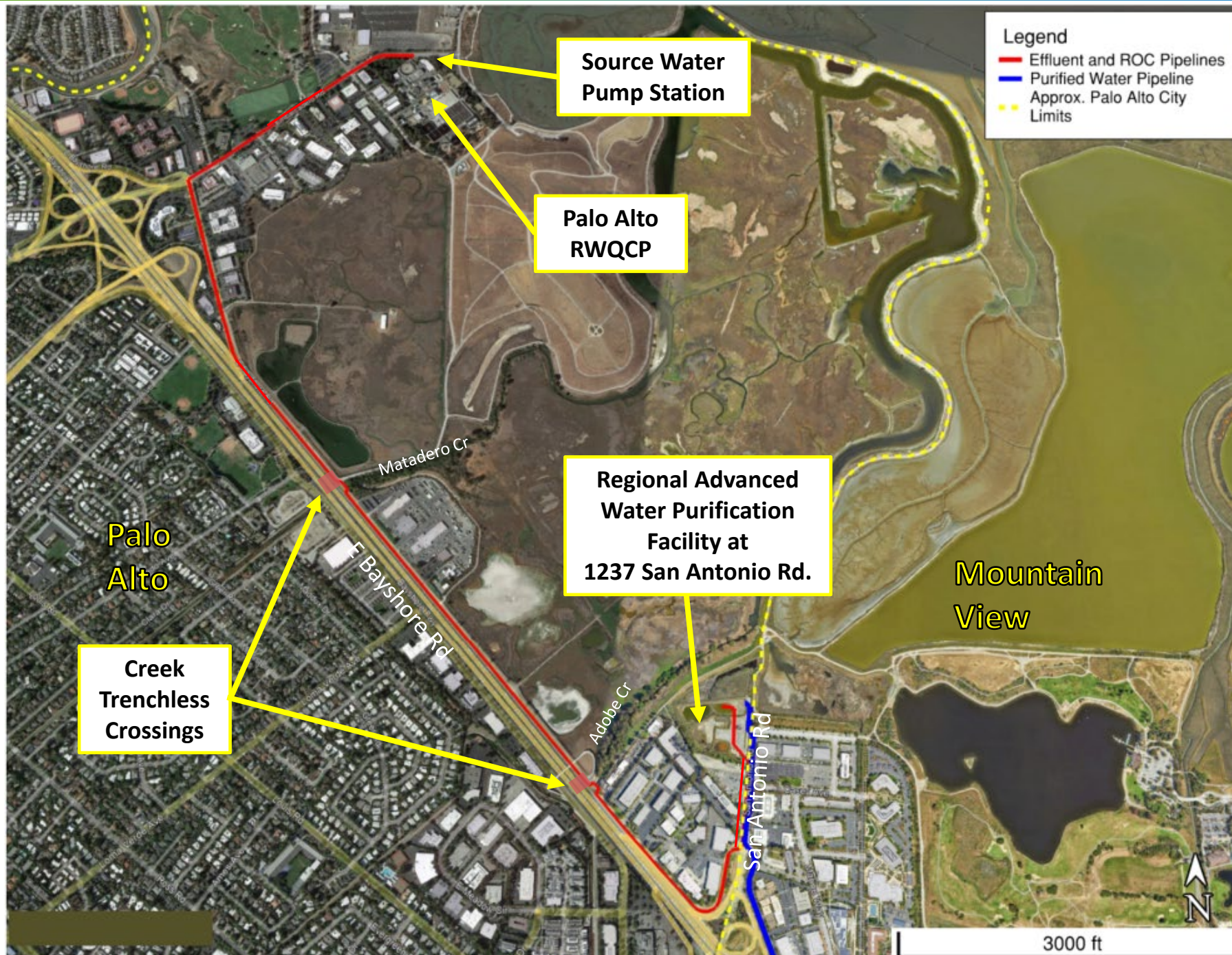
SWPS Rendering

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valleywater.org

Project Elements in Palo Alto



Regional AWWPF At 1237 San Antonio Road

- Former Los Altos Treatment Plant (LATP) Site
- Deemed most feasible location based on the Northwest County Recycled Water Strategic Plan (RMC, 2020)
- Environmental work delineated wetlands and characterized contaminated materials on the site – currently working on approvals to address these
- Performed geotechnical field investigations
- Requires a Comprehensive Plan Amendment
- Coordinating with the design team of the adjacent Project HomeKey

AWPF Depiction - Overhead

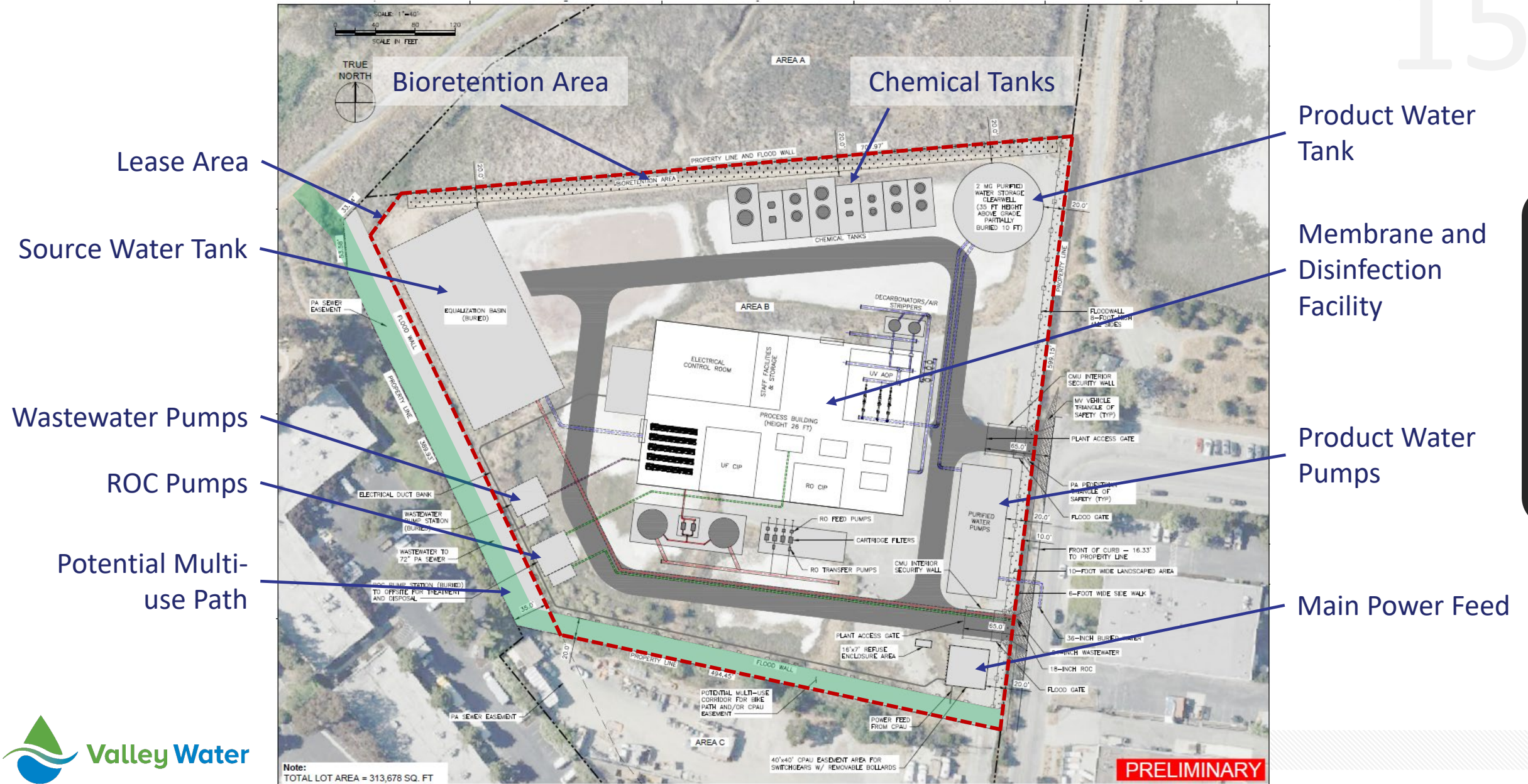


AWPF Depiction - Overhead



AWPF Conceptual Site Plan

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Project Delivery Method

- Using Design-Build-Finance-Operate-Maintain (DBFOM) Delivery Method
 - A private entity delivers the project, Valley Water retains ownership and partners with the private entity as part of a P3
- We are currently preparing a concept level design to include in the upcoming RFP release (Q3 2023)
- Estimated project cost: \$1.2B



**(P3) Public Private
Partnership**



Project Agreements

Executed and Pending Agreements

Executed:

- 2019 Partnership Agreement to Advance Resilient Water Reuse Programs
- Staff Funding Agreement

Pending:

- Ground Lease Agreements
 - Option to Lease
 - LATP Site
 - Pump station and tie-in pipe runs at RWQCP site
- O&M Agreement, including ROC



CEQA and Coordination with Planning Department

CEQA

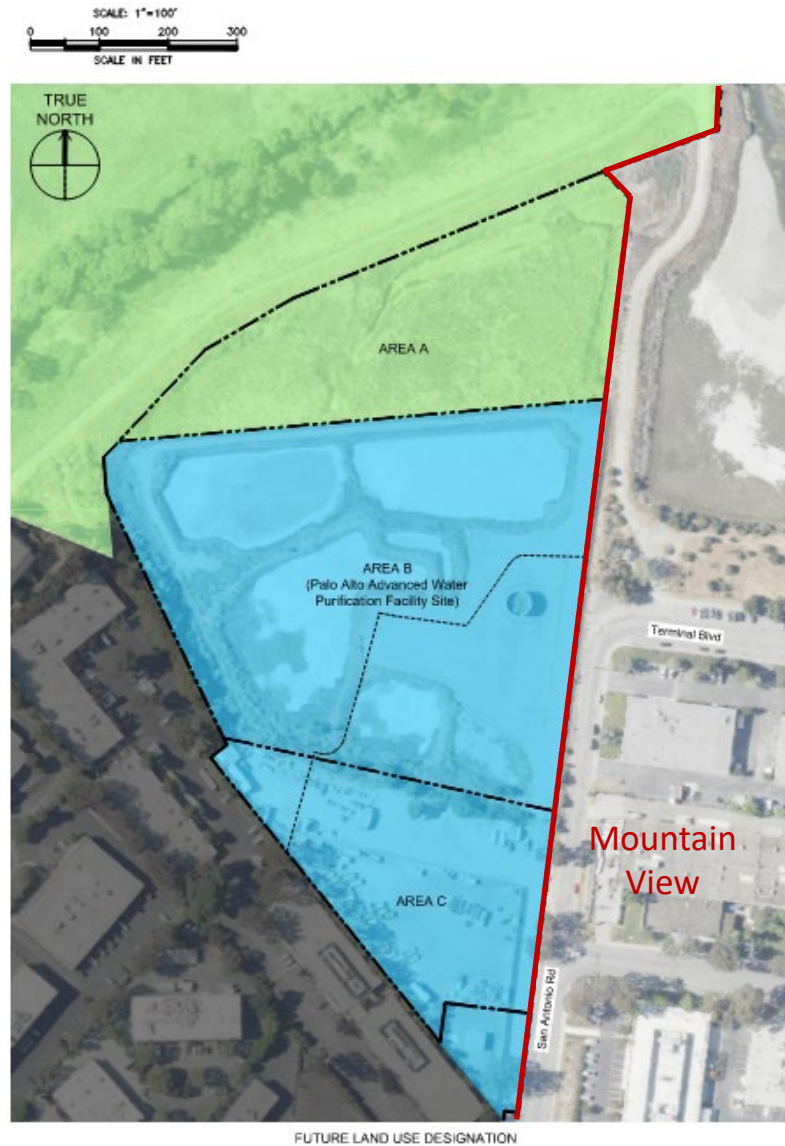
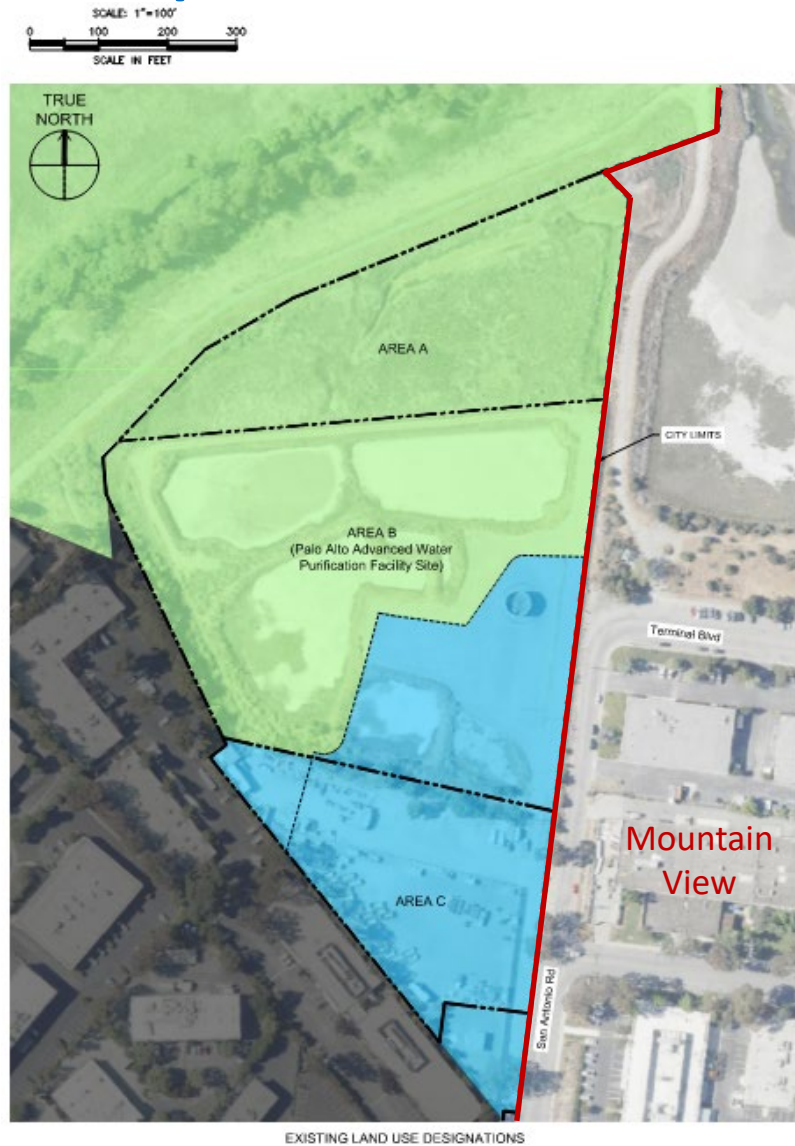
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- Working with Palo Alto and other Partners on the draft EIR
- Releasing the DEIR for 45-day public review once RFP is issued

Coordination with Planning Department

- Prescreening Application submitted
- Conducted meetings with the Development Review Committee
- Upcoming: Comprehensive Plan Amendment for LATP site
- Upcoming: Four Planning Applications
- Upcoming: Separate Rough Grading and Building Permits

Comprehensive Plan Amendment for LATP Site



- Public Conservation Land
- Major Institution/Special Facilities
- Research/Office Park

Stakeholder & Community Outreach

- Public Meetings
- Website
- Mailers
- Media campaign
- Public Tours
- Stakeholder meetings
- Continued collaboration with City staff
- Committee and Council updates

**Pure Water.
Pure Life.**

Hear what Zoe says! ▶
www.purewater4u.org

Zoe Lofgren
Congresswoman
19th Congressional District




Valley Water

THE Bulletin
Official Magazine of the Santa Clara County Medical Association
Vol. 29 | No. 2 Second Quarter 2023



SPECIAL ISSUE

**WATER AND HEALTH:
THE COMING WATER CRISIS AND
WHAT WE CAN DO ABOUT IT**

**Purified Water
& Conservation**

**Together,
our future is
drought-
proof.**



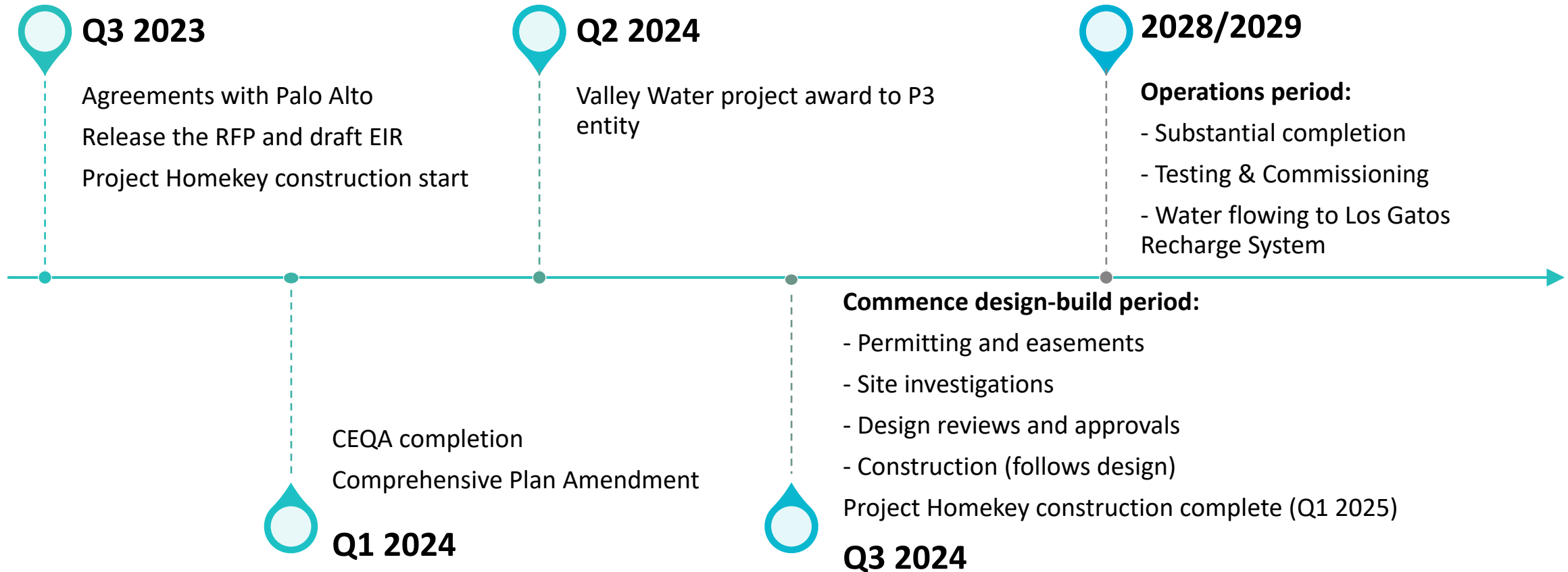
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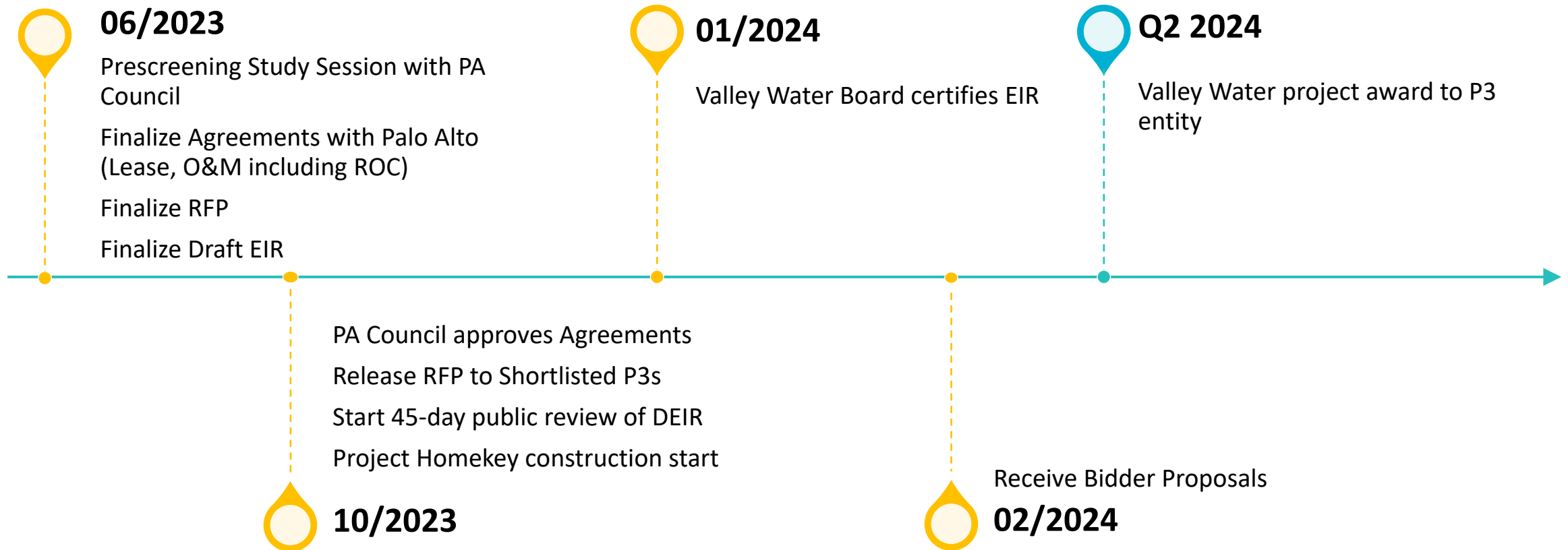


Project Timeline

Tentative Timeline



Twelve-Month Lookahead





Questions?



Valley Water

Clean Water • Healthy Environment • Flood Protection