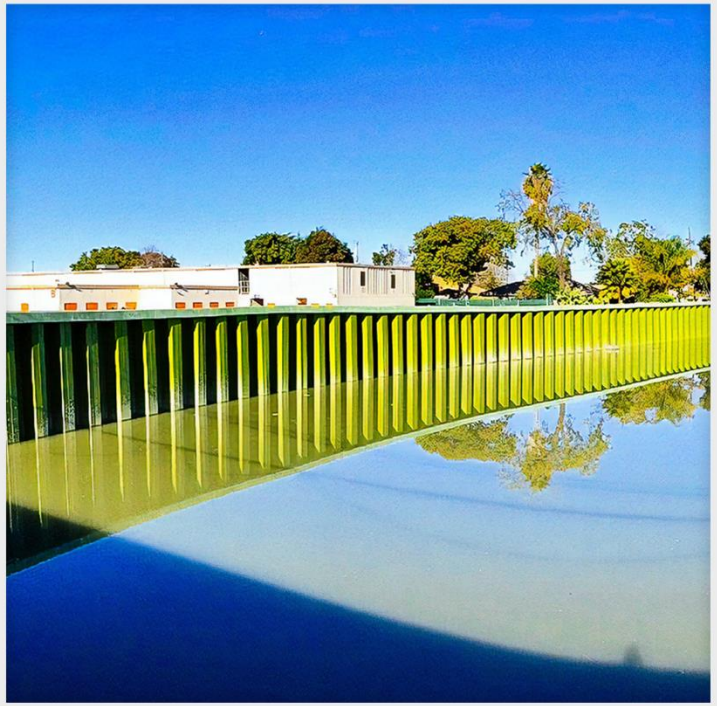
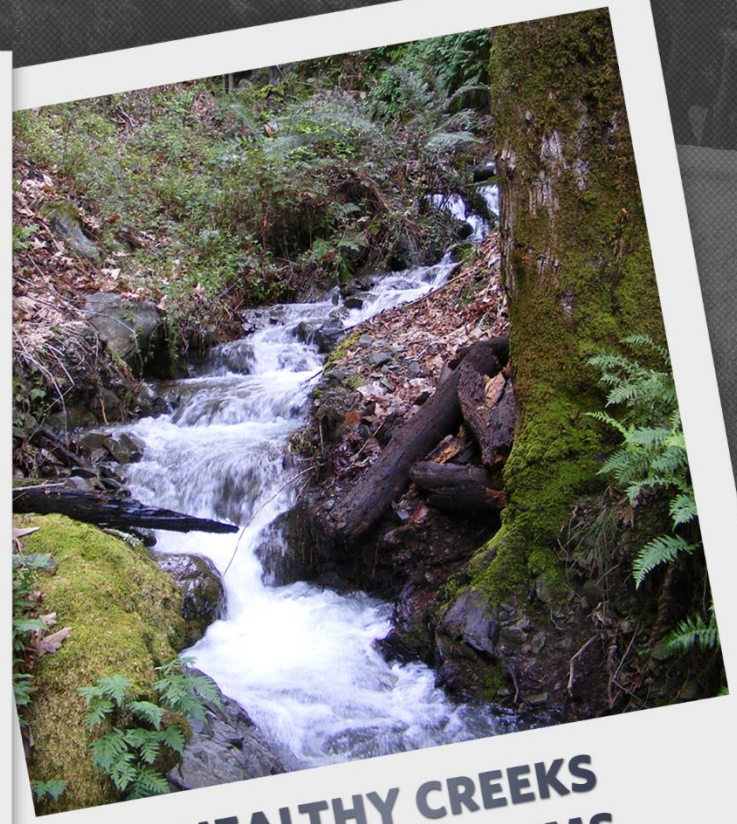

siliconvalley
ADVANCED WATER PURIFICATION CENTER
Valley Water

Valley Water provides:

CLEAN, RELIABLE WATER



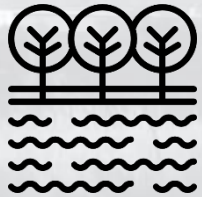
FLOOD PROTECTION



HEALTHY CREEKS AND ECOSYSTEMS

Valley Water

By the Numbers

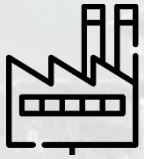


294

miles owned out of 800 miles of streams in Santa Clara County

10

dams and surface water reservoirs



3

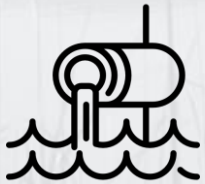
water treatment plants

1

advanced water purification center

1

state-of-the-art water quality laboratory



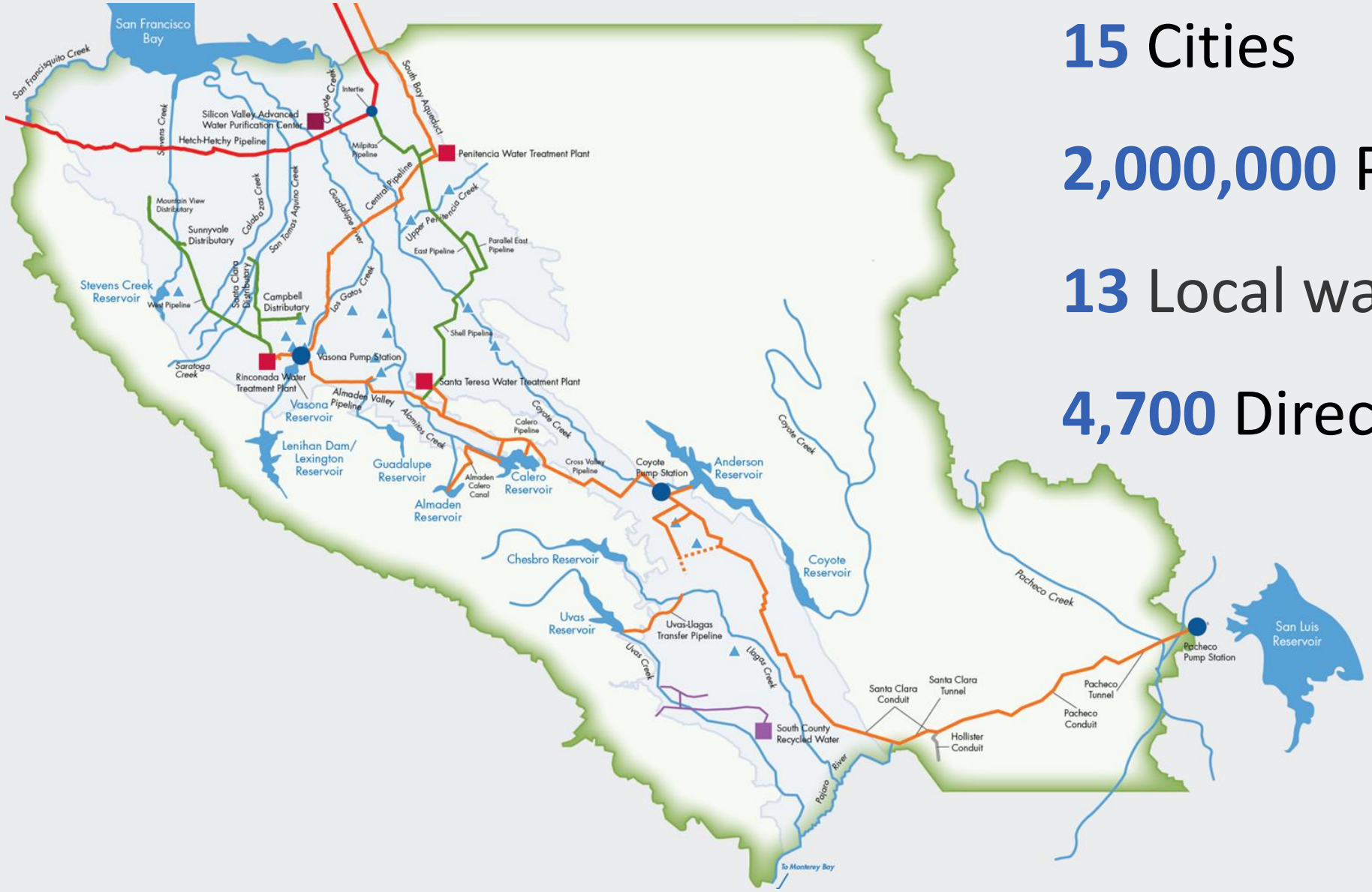
142

miles of pipelines

102

groundwater recharge ponds covering 277 acres

Comprehensive Water Supply System



15 Cities

2,000,000 People

13 Local water providers

4,700 Direct well owners

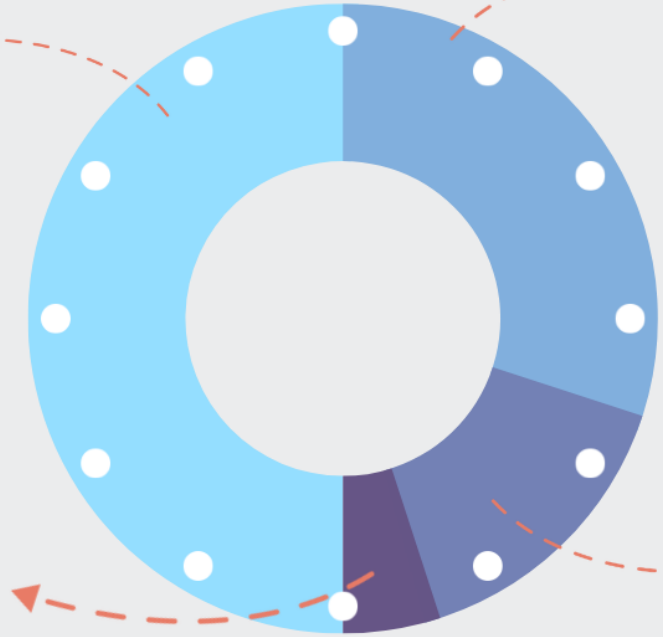
Water Supply Breakdown

Santa Clara County
WATER SUPPLIES

Imported Water 50%
Water from the Sierra Snowpack that melts and fills state reservoirs

40% Delta supplies
10% Hetch Hetchy

Local Water 30%
Rainwater captured in Valley Water reservoirs and natural groundwater



Conservation 15%
Consistent short and long-term reductions in water use

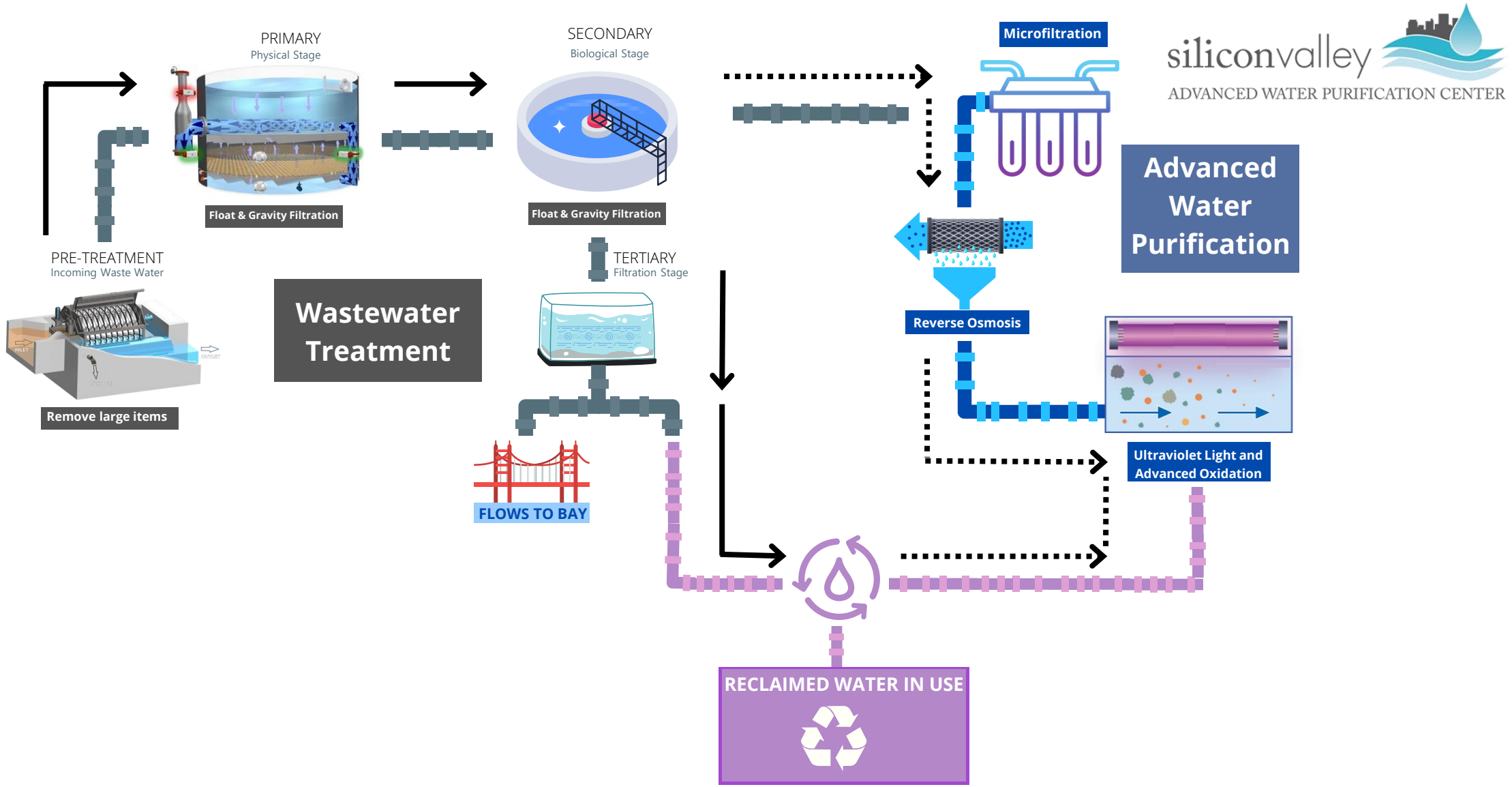
Water Reuse 5%
Treated wastewater used as recycled water

A new source of water

A partnership with cities of San Jose and Santa Clara

- Opened in early 2014
- Provides purified water to enhance the quality of SBWR's recycled water
- Serves as a demonstration, research, and educational facility
- Hosts educational tours provided on-site and virtual

The Purification Process



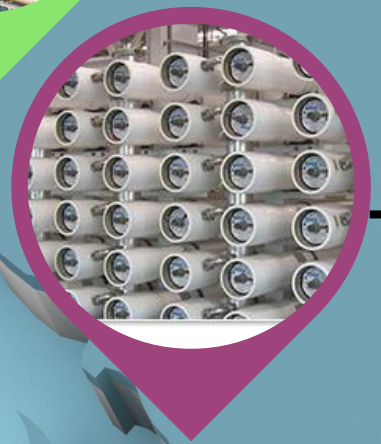
SVAWPC → 8MGD (2014)
New Project (2028)
Est 2014

Pure Water Soquel → 7.5 MGD (2024)
Est 2014

Monterey One Water → 6MGD
Est 1972

LA (Hyperion) LASAN

170MGD 2035
LA Recycle 100%
of Water



Orange County (GWRS)

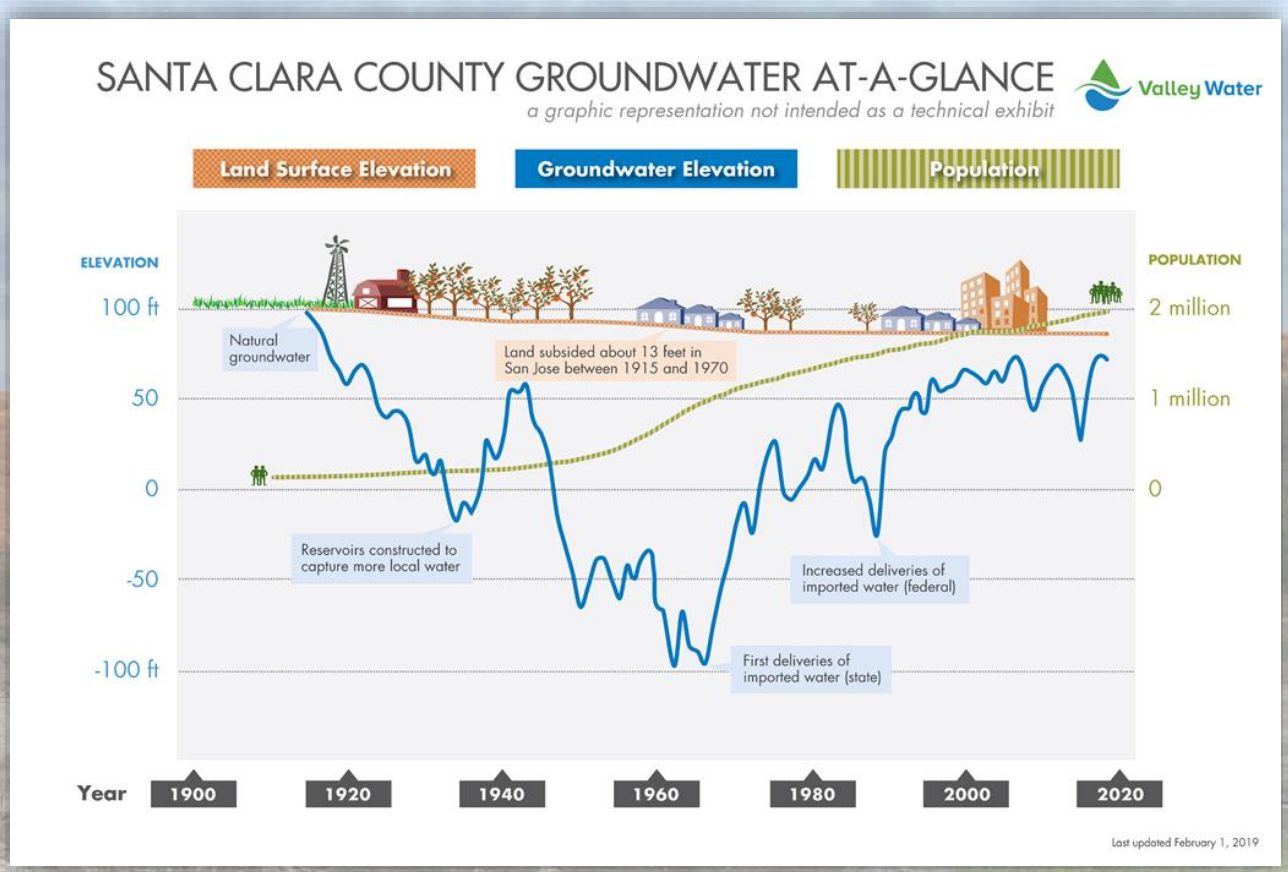
130MGD* (2023)
Est 2008

Pure Water SD

30MGD (2021)
83 MGD (2035)
Est 2001

Why Water Reuse

- 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 and protects against subsidence



Water Supply Master Plan

Ensure Sustainability Strategy

1. Secure existing supplies and infrastructure

2. Expand conservation and reuse

3. Optimize the system

Countywide Water Reuse Master Plan (CoRe Plan)

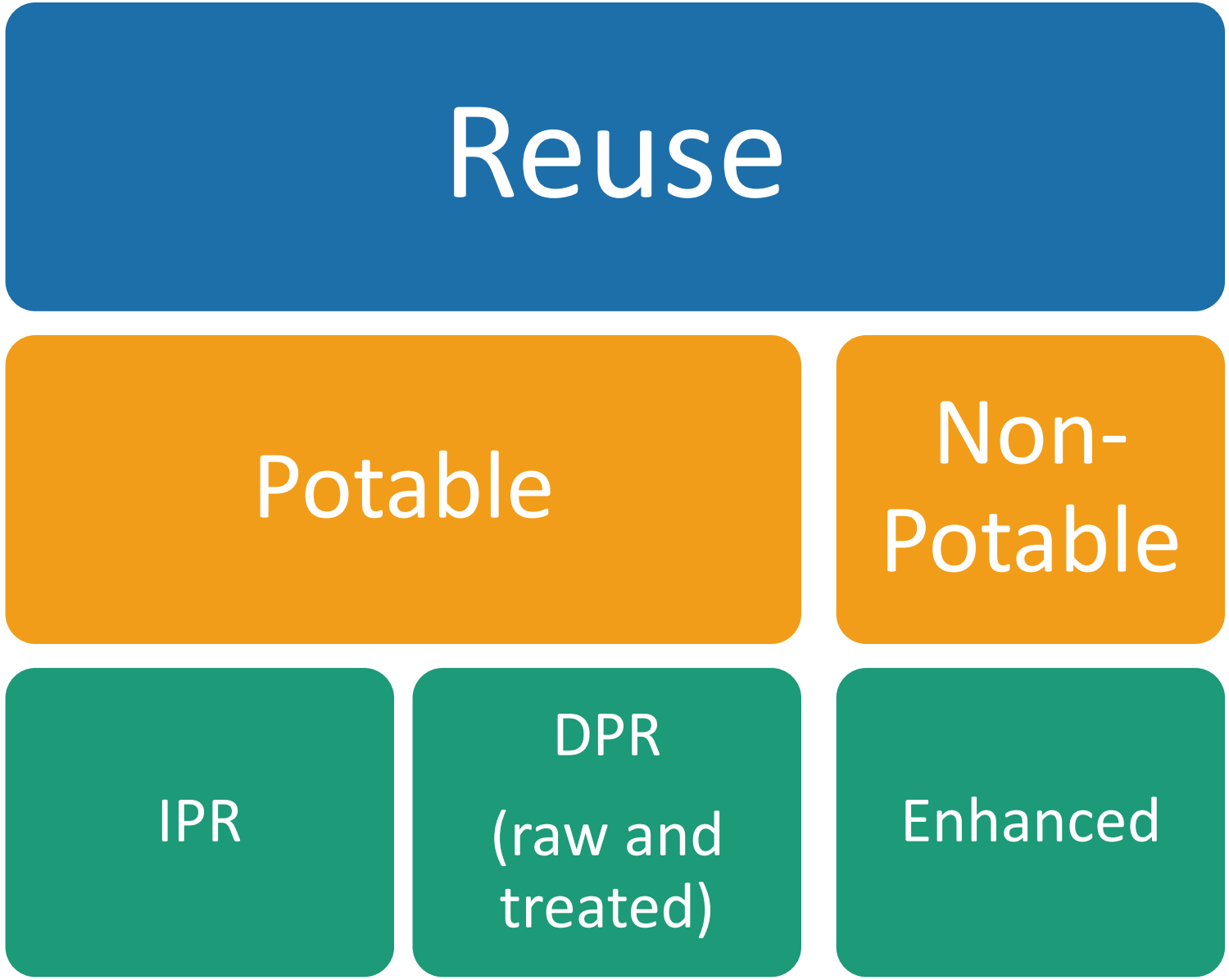
PROGRAM OBJECTIVES

- Identify **water available** for potable and non-potable reuse
- Evaluate opportunities for **system integration**
- Guide expansion via **interagency agreements**

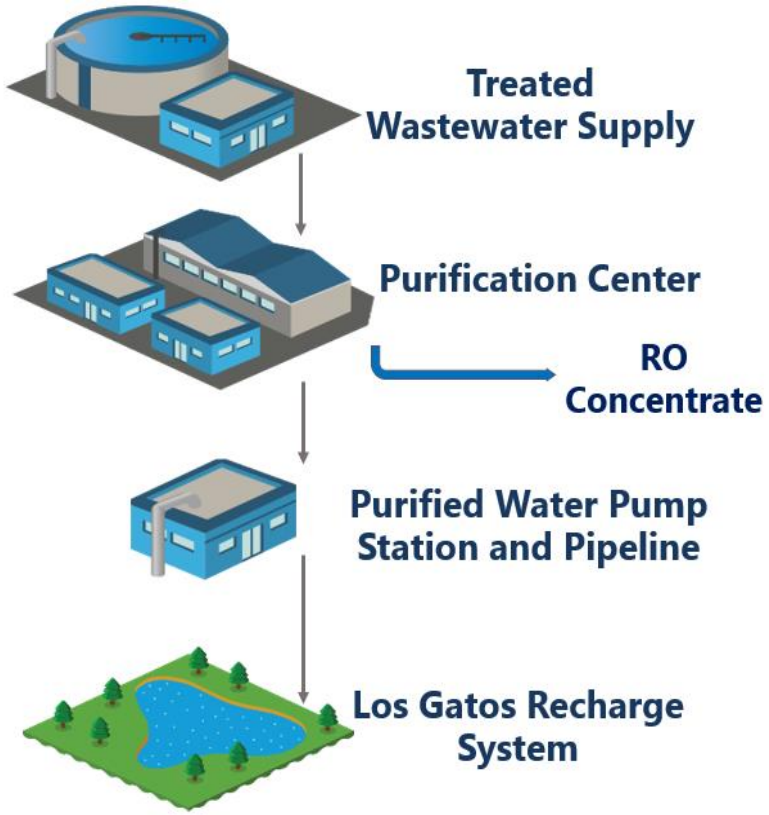
and governance structures

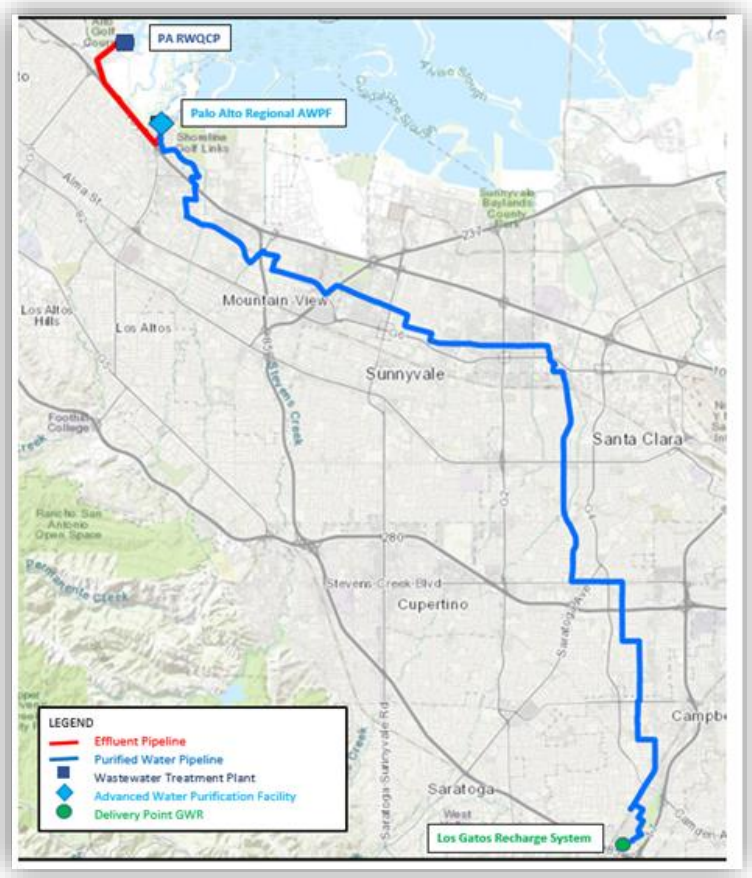
- Generate support by **engaging stakeholders**
- **Goal: 24,000 AF of Potable Reuse**

Countywide Water Reuse Master Planning Encompassed Various Projects

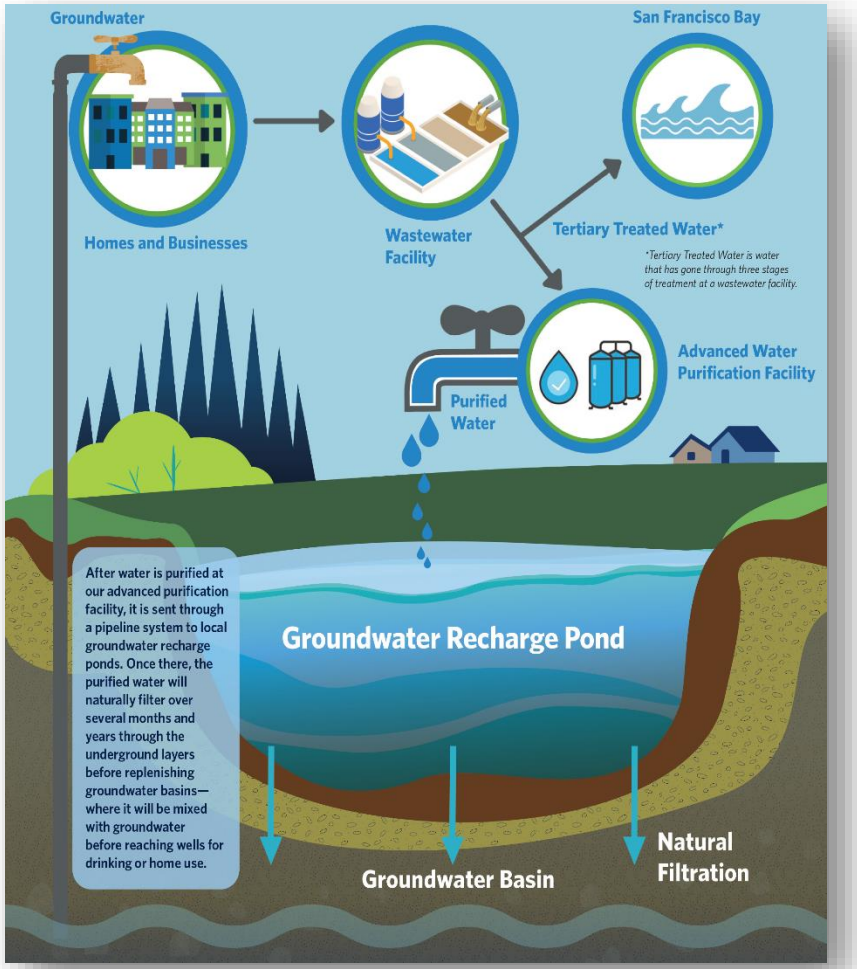


Purified Water Project





Palo Alto/Mountain View



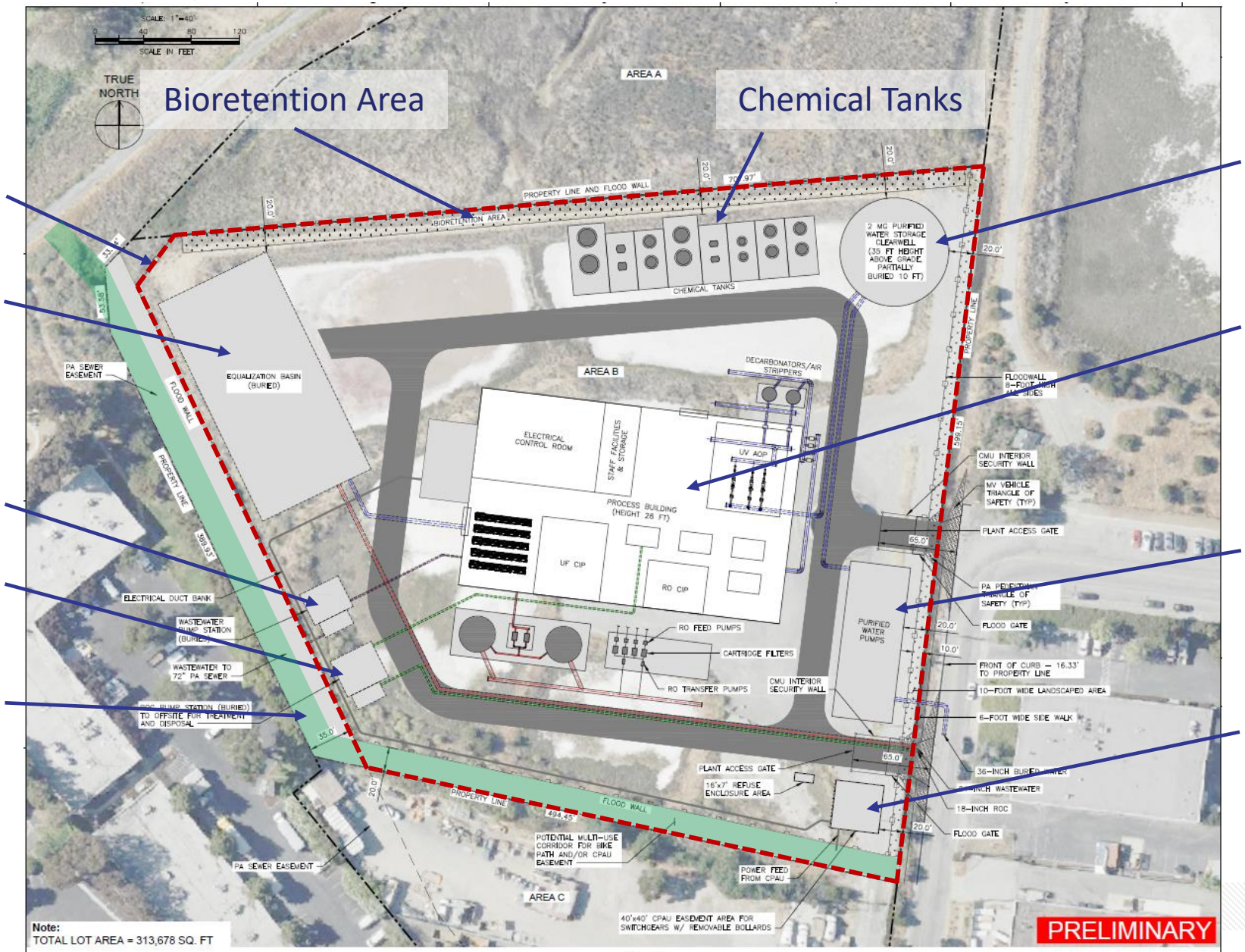
Indirect Potable Reuse

SWPS Rendering

AWPF Depiction - Overhead

Valley Water

AWPF Conceptual Site Plan



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Alternative Project Delivery Method

- Using Design-Build-Finance-Operate-Maintain Delivery Method.

  A *private entity delivers the project, Valley Water retains ownership and partners with the private entity as part of a P3.*

- Cost: about $1.2 billion

(P3) Public Private Partnership

Stakeholder & Community Outreach

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