Scoping Meeting: Purified Water Project Environmental Impact Report

Presented by: **Kirsten Struve**, Assistant Officer
Jim O'Toole, Project Director, ESA

Valley Water

Scoping Meeting Purpose

- Provide orientation and updates on the Purified Water Project and EIR
- Provide opportunity for suggestions regarding the EIR scope and content
- Provide opportunity to further define environmental issues, feasible alternatives and mitigation measures
- Comments received will be considered in prepared the Draft EIR

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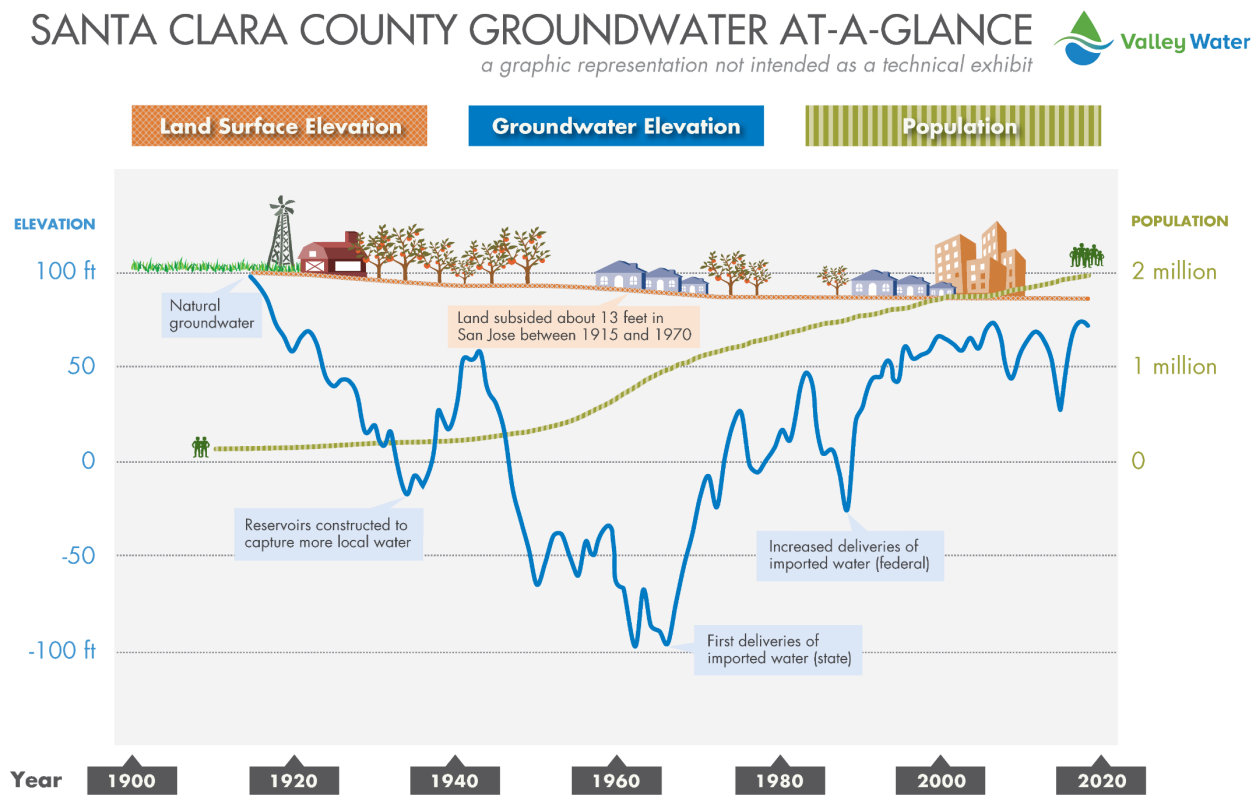
Climate Change Risks Continue to Drive Urgency for Addressing Water Supply Reliability

Droughts

Economic impacts

Land subsidence risk



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

Local Water (30%)
- Groundwater aquifer
- Reservoirs

Imported Water (50%)
- Delta conveyed
- Hetch Hetchy

Recycled Water (5%)
- Wastewater Treatment
- Advanced Purification

Conservation (15%)
- Residential
- Commercial, Agriculture

Purpose of this Project

- Recycled and purified water is a drought-resilient and locally controlled water supply
- Improve supply reliability consistent with Water Supply Master Plan 2040
- Meet our goal of about 10% of Santa Clara County's water demand from water reuse

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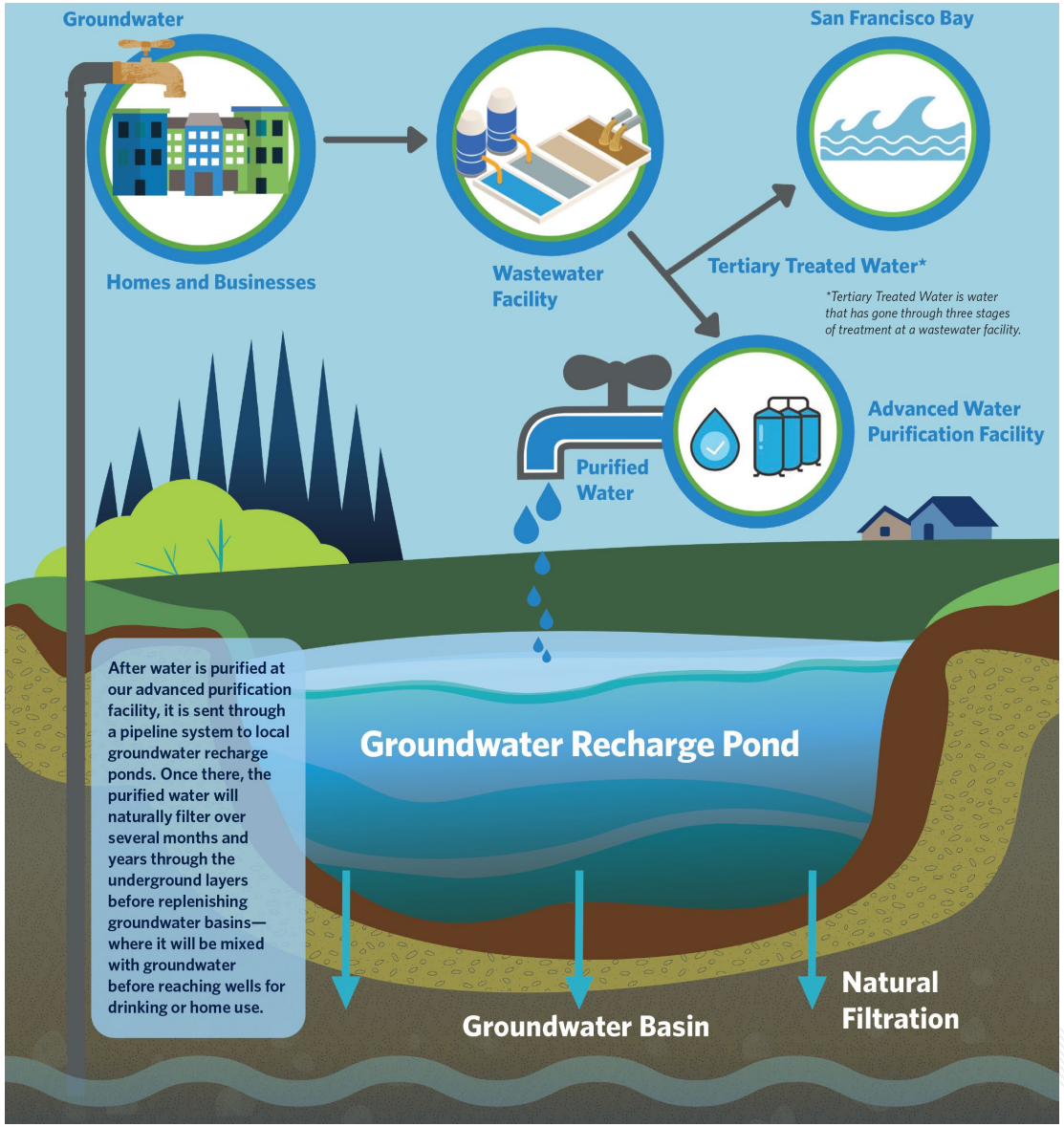
Recycled and Purified Water



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

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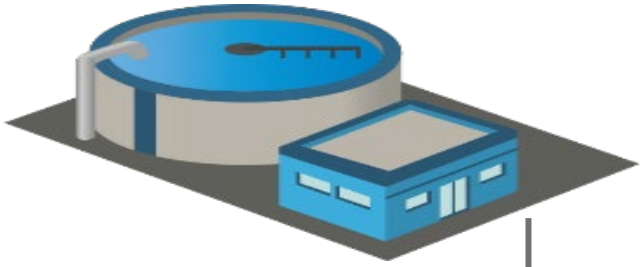
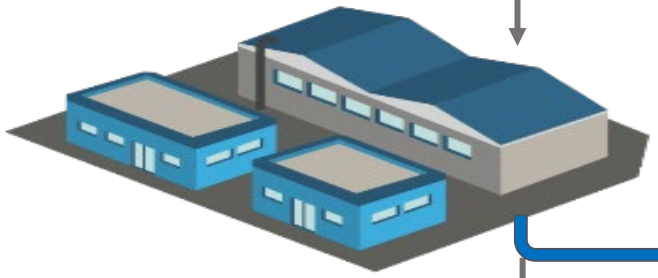
Purified Water Project



Treated Wastewater Supply (from PA or SJ)



Purification Center

RO Concentrate

Purified Water Pump Station and Pipeline

Los Gatos Recharge System

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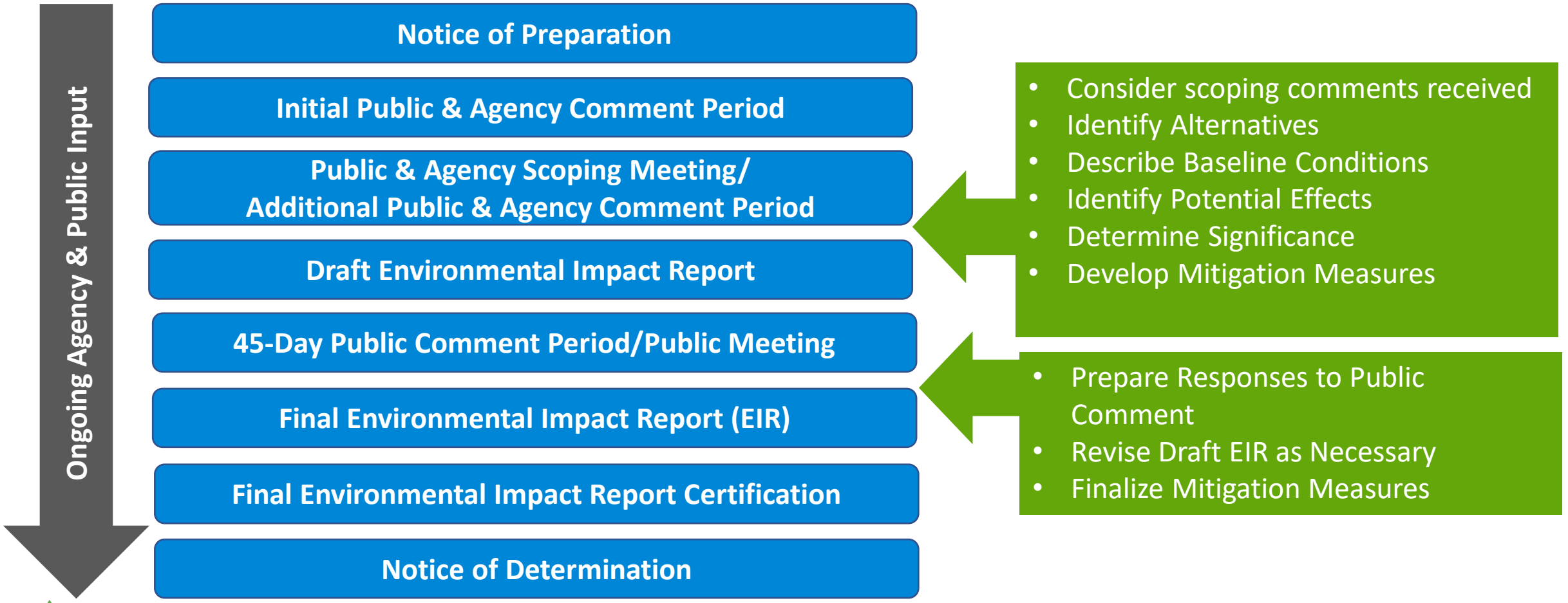
California Environmental Quality Act EIR Process



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CEQA Project Objectives

- 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 WSMP 2040.
- Implement a potable reuse supply project that provides 10 MGD to 12.5 MGD production capacity for an annual yield of approximately 11,200 AFY of sustainable purified water supply for long-term/future demands.
- Implement the project in a manner that reduces or minimizes environmental impacts.
- In partnership with recycled water producers, develop new, local, drought-resilient water supplies in a cost efficient and timely manner.

Project EIR Approach

- Project EIR
  - Evaluate the site adjacent to San Jose SVAWPC as Valley Water's Preferred Project
  - Examine the Palo Alto FLATP Site Alternative at an equal level of detail
  - Compare and contrast the distinctions between the two sites

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Project Components

- Advanced Water Purification Facility
  - 10 mgd capacity
  - Adjacent to Existing SVAWPC
- Source Water and Concentrate Management Pipelines to/from the SJ/SC Regional Wastewater Facility
- Conveyance Pipeline to Los Gatos Pond Complex

Project Components (cont.)

- New advanced water purification facility located immediately adjacent to the existing SVAWPC, located on Zanker Road in San José.

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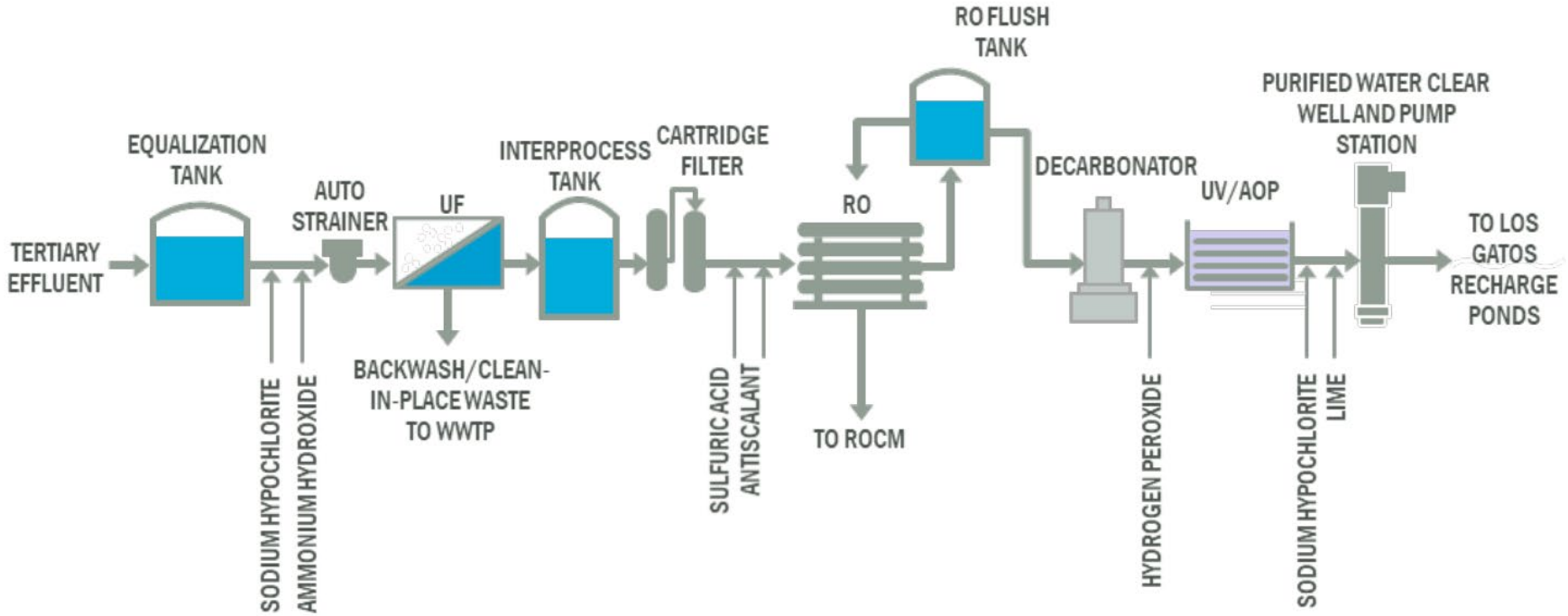
Purified Water Treatment Process



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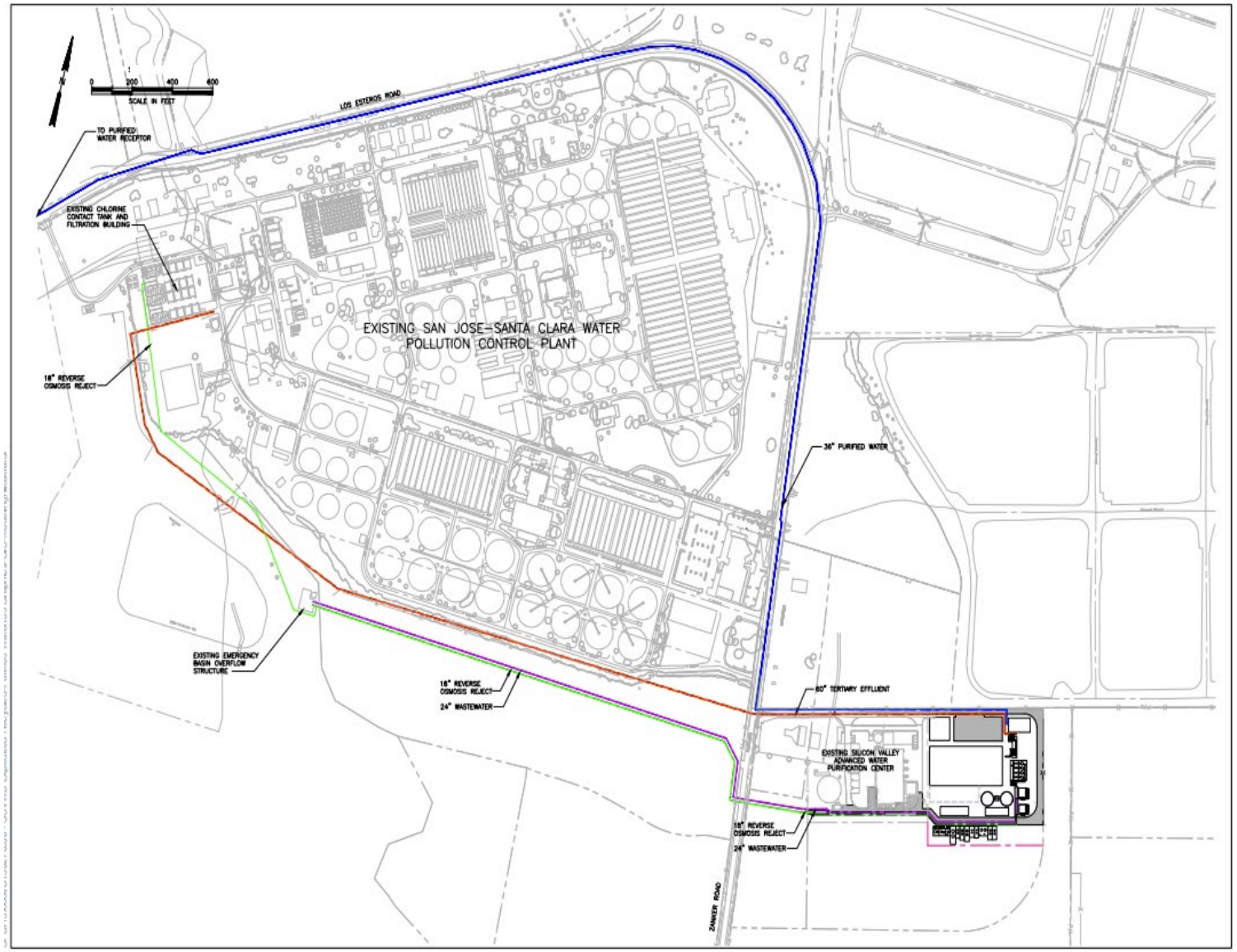
Project Components (cont.)

- Source Water and Concentrate Management Pipelines to/from the SJ/SC Regional Wastewater Facility)



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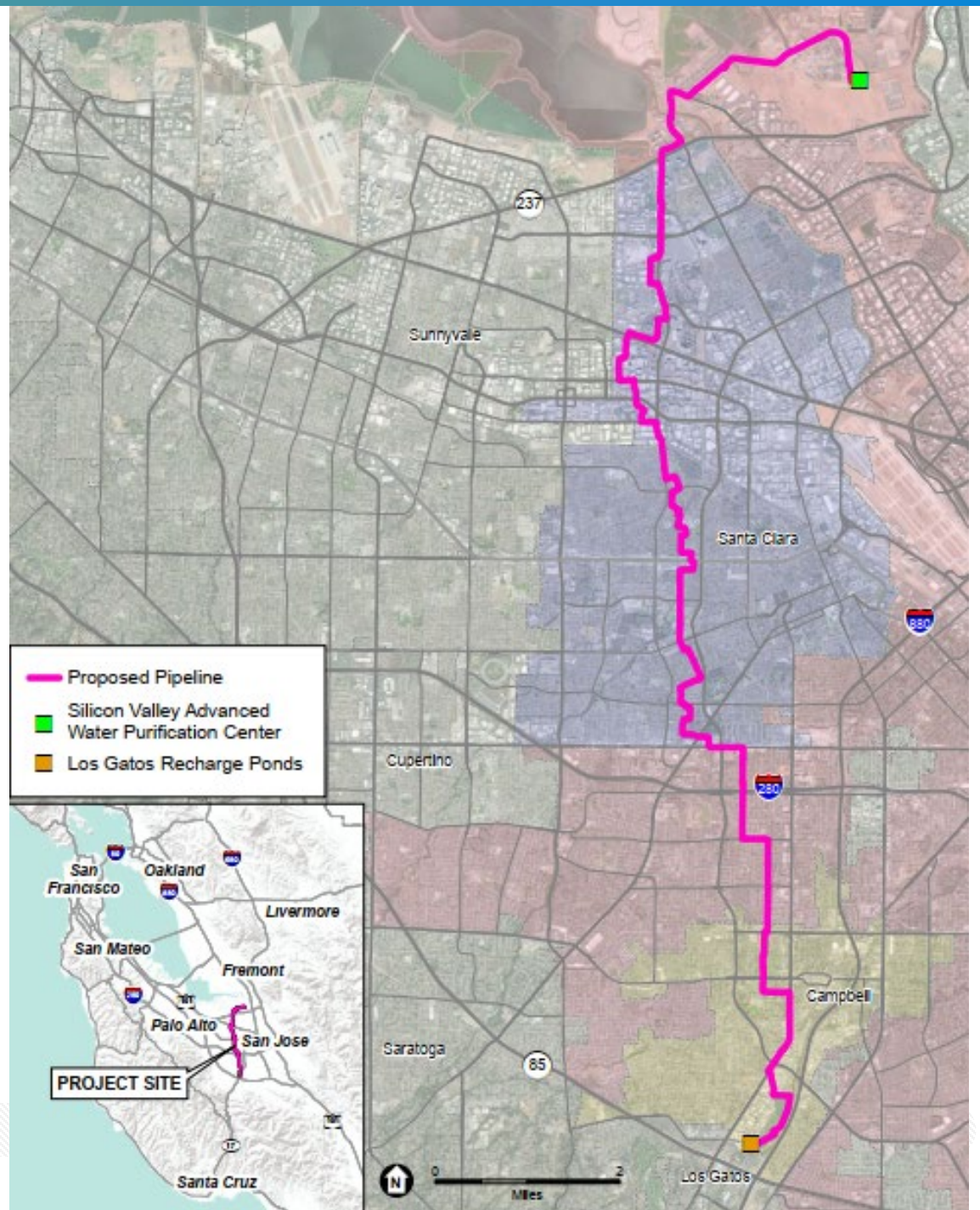
Project Components (cont.)

- Conveyance Pipeline: Approximately 18-mile water pipeline constructed within existing roadways



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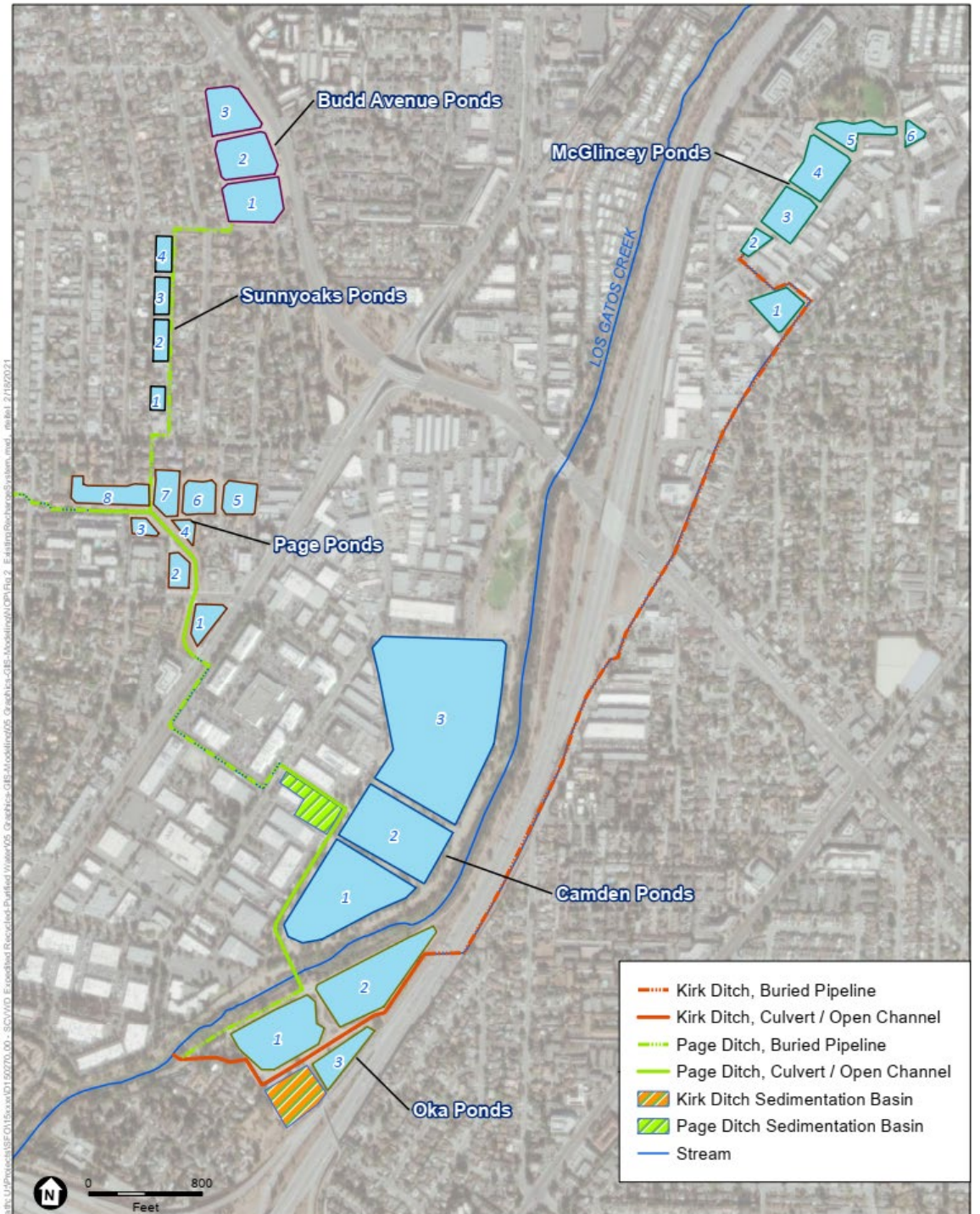
Project Components (cont.)

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



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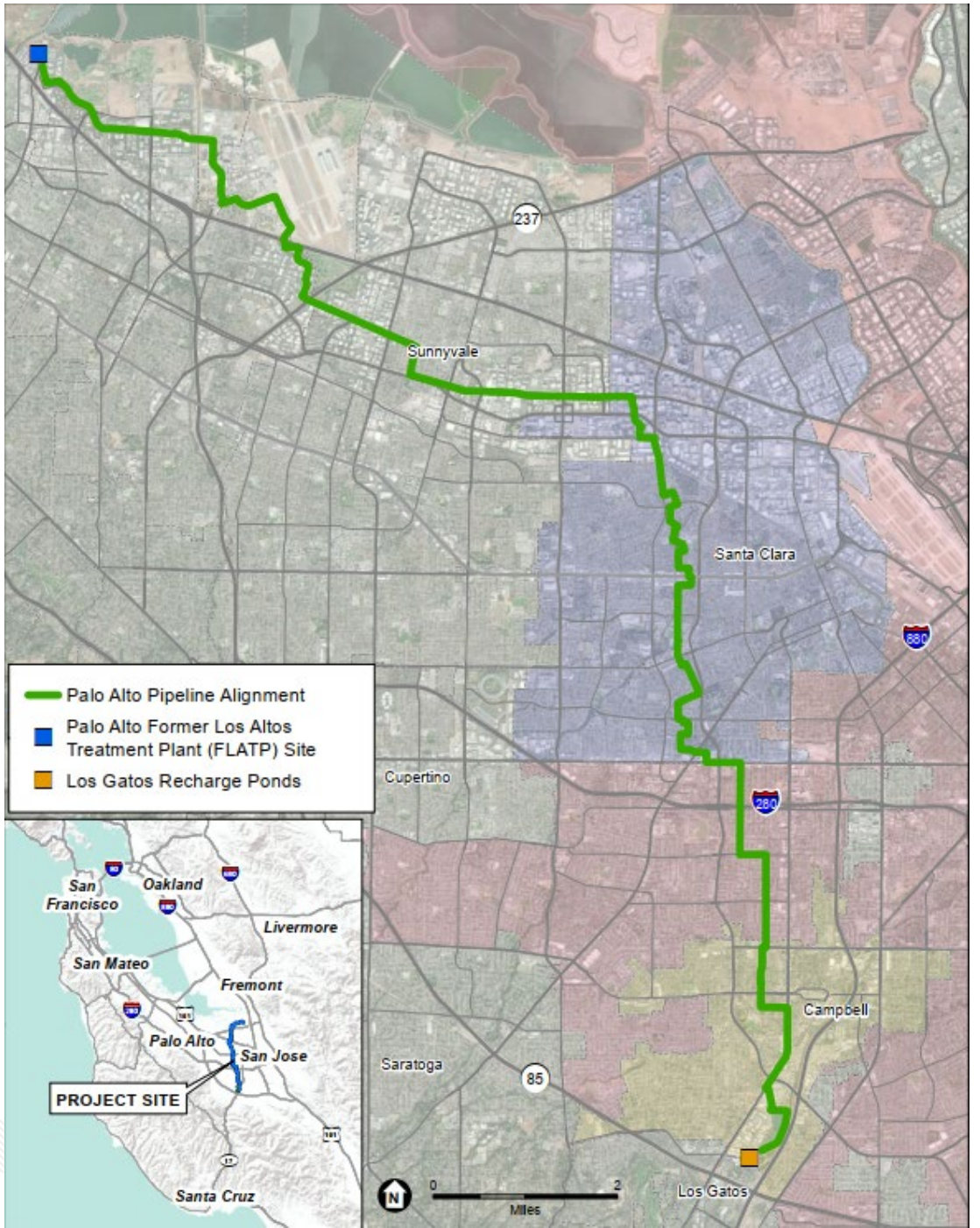
Alternative: Palo Alto FLATP

- Former Palo Alto Los Altos Treatment Plant (FLATP) Site
  - 10 mgd Advanced Water Purification Facility
  - Source Water and Concentrate Management Pipelines
  - Conveyance Pipeline to Los Gatos Recharge Complex



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Alternative:
Palo Alto FLATP (cont.)

- Former Palo Alto Los Altos Treatment Plant (FLATP) Site

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Alternative:
Palo Alto FLATP (cont.)

- Source Water and Concentrate Management Pipeline Connections to/from Palo Alto RWQCP

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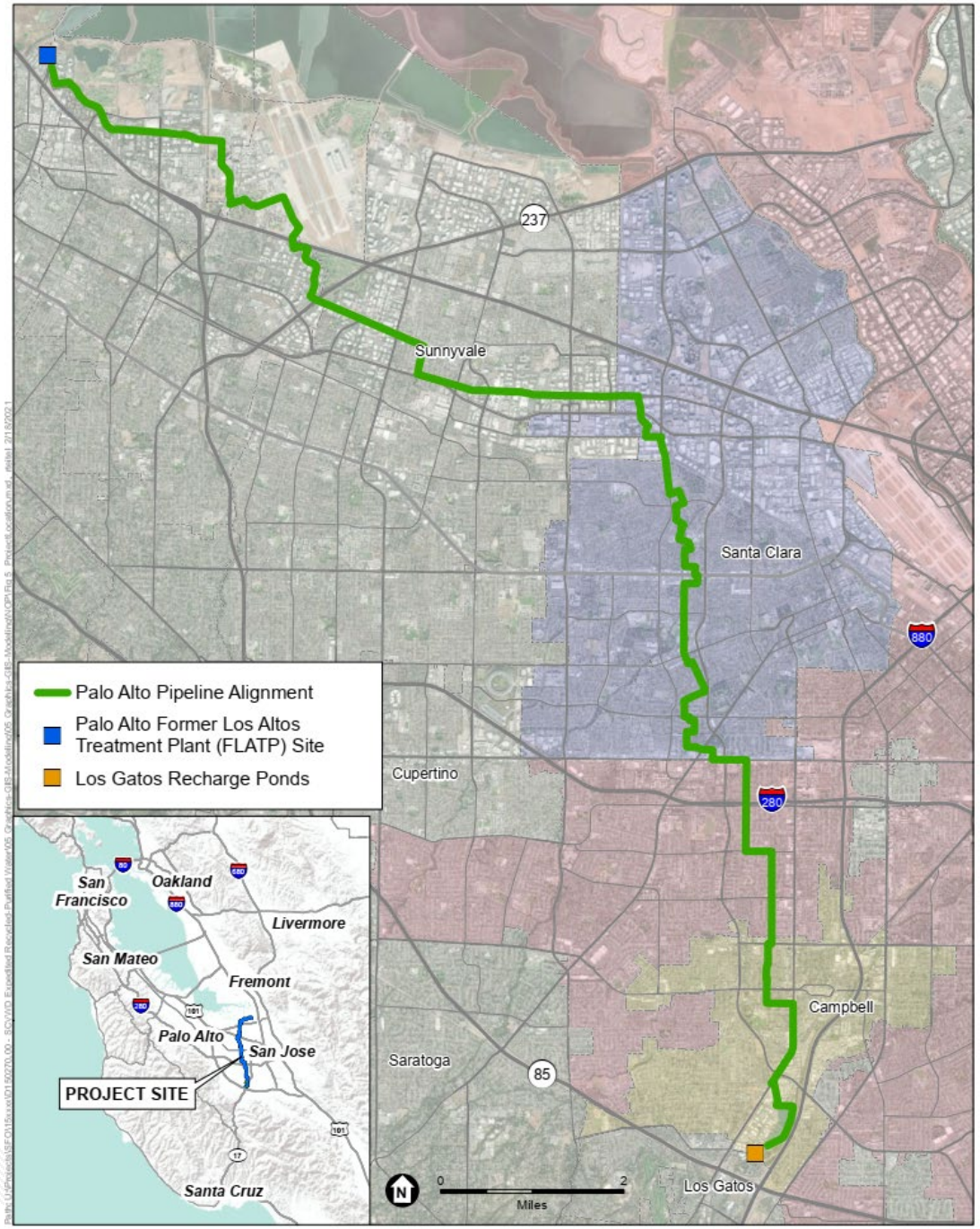
Alternative:
Palo Alto FLATP (cont.)

- Conveyance Pipeline Route



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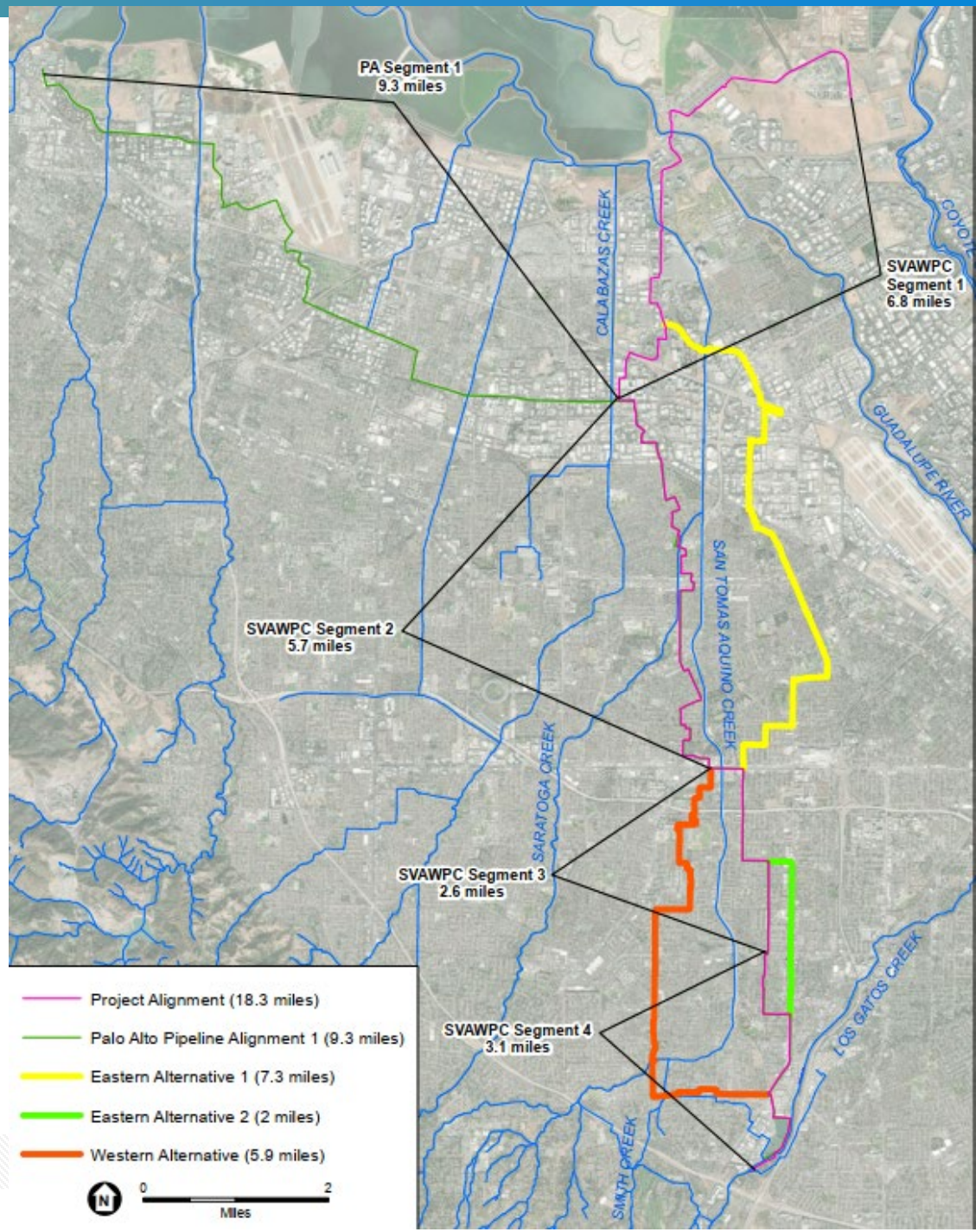
Project Alternatives

- No Project Alternative
- Alternative Pipeline Routes
  - Western and Eastern Alignments
- Concentrate Management Alternatives
- Reduced Project Alternatives



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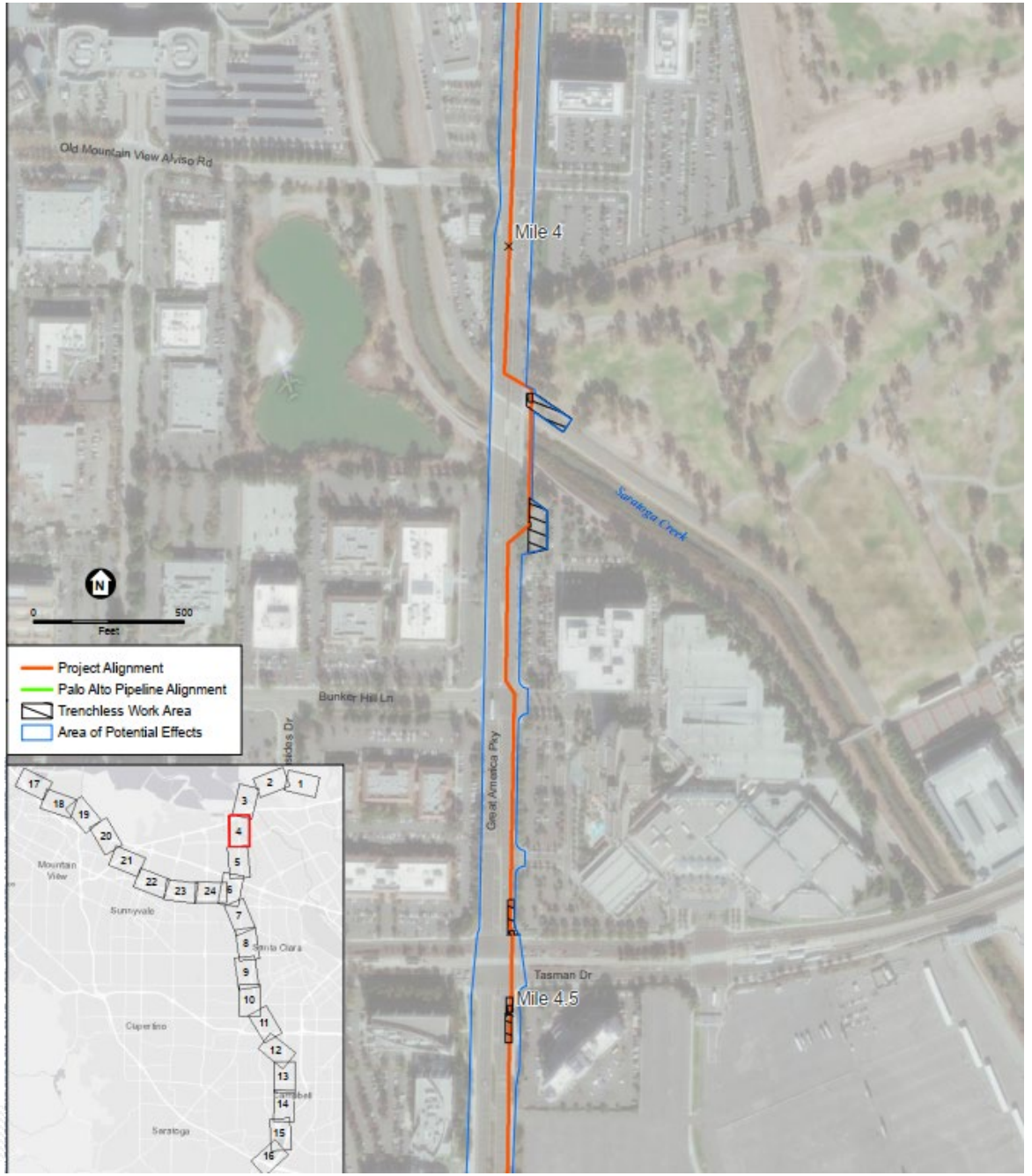
Analysis Topics

- Aesthetics
- Agricultural and Forestry
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Mineral Resources
- Noise
- Population and Housing
- Public Services
- Recreation
- Transportation
- Tribal Cultural Resources
- Utilities and Service Systems
- Wildfire

Key Issue Areas

- Construction Impacts:
  - Temporary Impacts: traffic, noise, air quality, water quality
  - Valley Water BMPs will be applied.
- Biological Resources
  - Majority of Project in Roadways
  - Some wetland resources on project and alternative sites
- Cultural Resources
  - Potential Effects at Project Site/Pipeline Routes



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Key Issue Areas (cont.)

- Water Quality:
  - Purified using Reverse Osmosis Process: similar to SVAWPC
  - Groundwater Recharge Los Gatos Pond Complex
    - In compliance with DDW Groundwater Replenishment Standards
  - Concentrate Management: Preferred Project
    - Blended and discharged with treated effluent under NPDES Permit
    - Other options to be examined

Schedule

- NOP and Scoping Meetings
  - March 2021
- Draft EIR
  - October 2021
- Final EIR
  - December 2021
- Certification
  - January 2022

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Scoping Comment Process

Public Scoping Comment Period:

Comments due by:

April 27, 2021

Written Scoping Comments:

- Email:

EDurand@valleywater.org

- Letters:

Santa Clara Valley Water District
Attn: Elise Latedjou-Durand
5750 Almaden Expressway
San Jose, CA 95118

QUESTIONS

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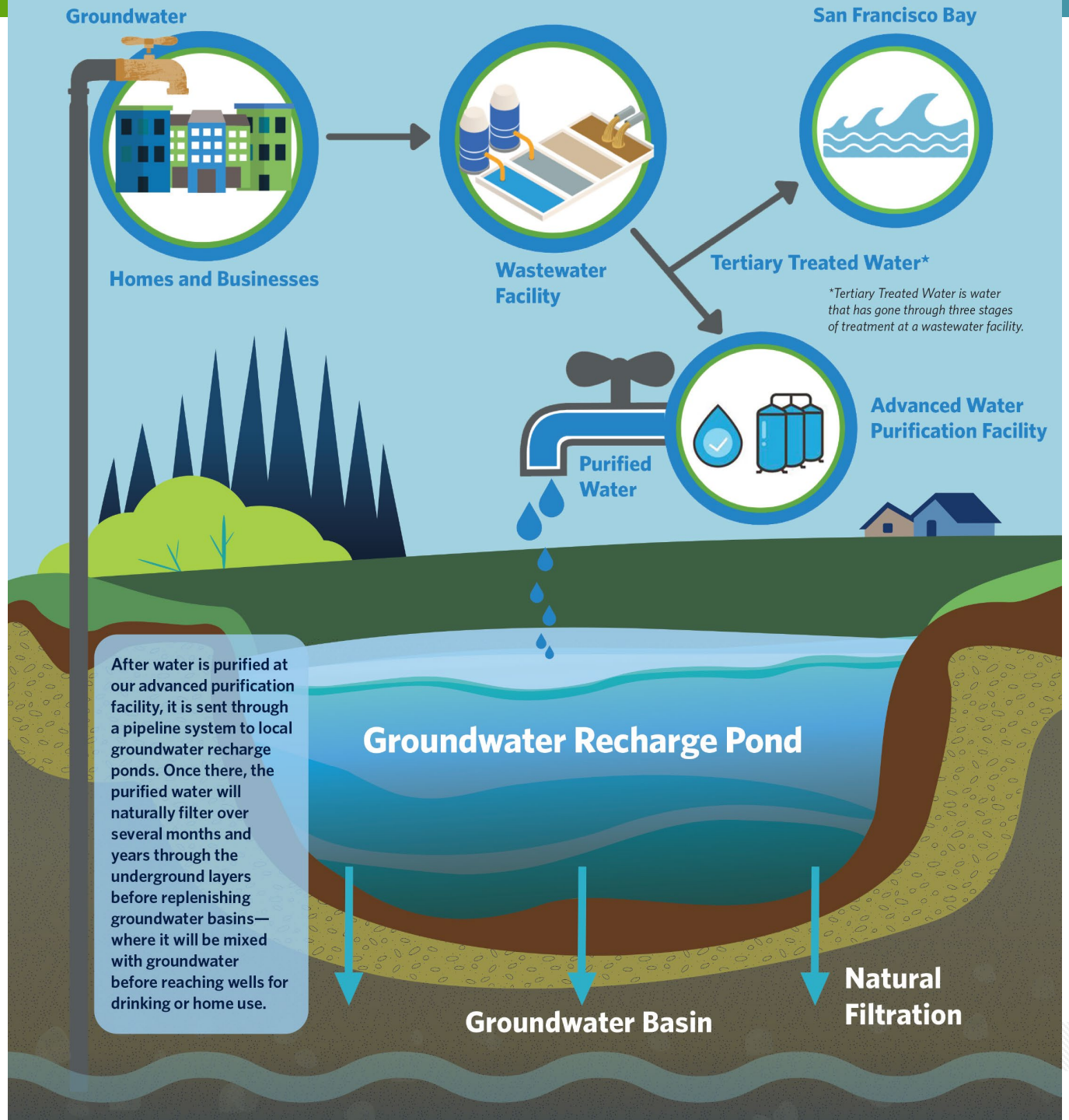
Clean Water • Healthy Environment • Flood Protection



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