The Regional Groundwater Facilities Project Phase I – Feasibility Study Results

Zone 7 Board Meeting

January 21, 2026

ZONE 7 WATER AGENCY

Supporting Strategic Goals and Initiatives

Strategic Goals

Initiatives

# 5	Develop a diversified water supply plan and implement supported projects and programs
# 9	Implement the PFAs Management Strategy
# 11	Manage the Groundwater Sustainability Agency and implement the Groundwater Sustainability Plan

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Topics of Discussion

- Project Workflow
- Project Overview
- Feasibility Study Results
- Basis of Design Report
- Q&A

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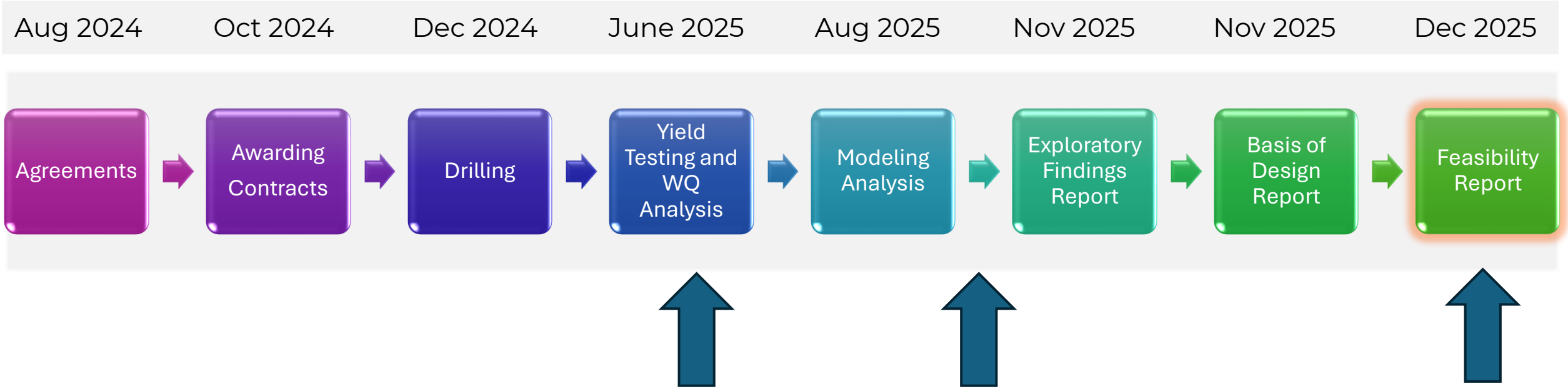
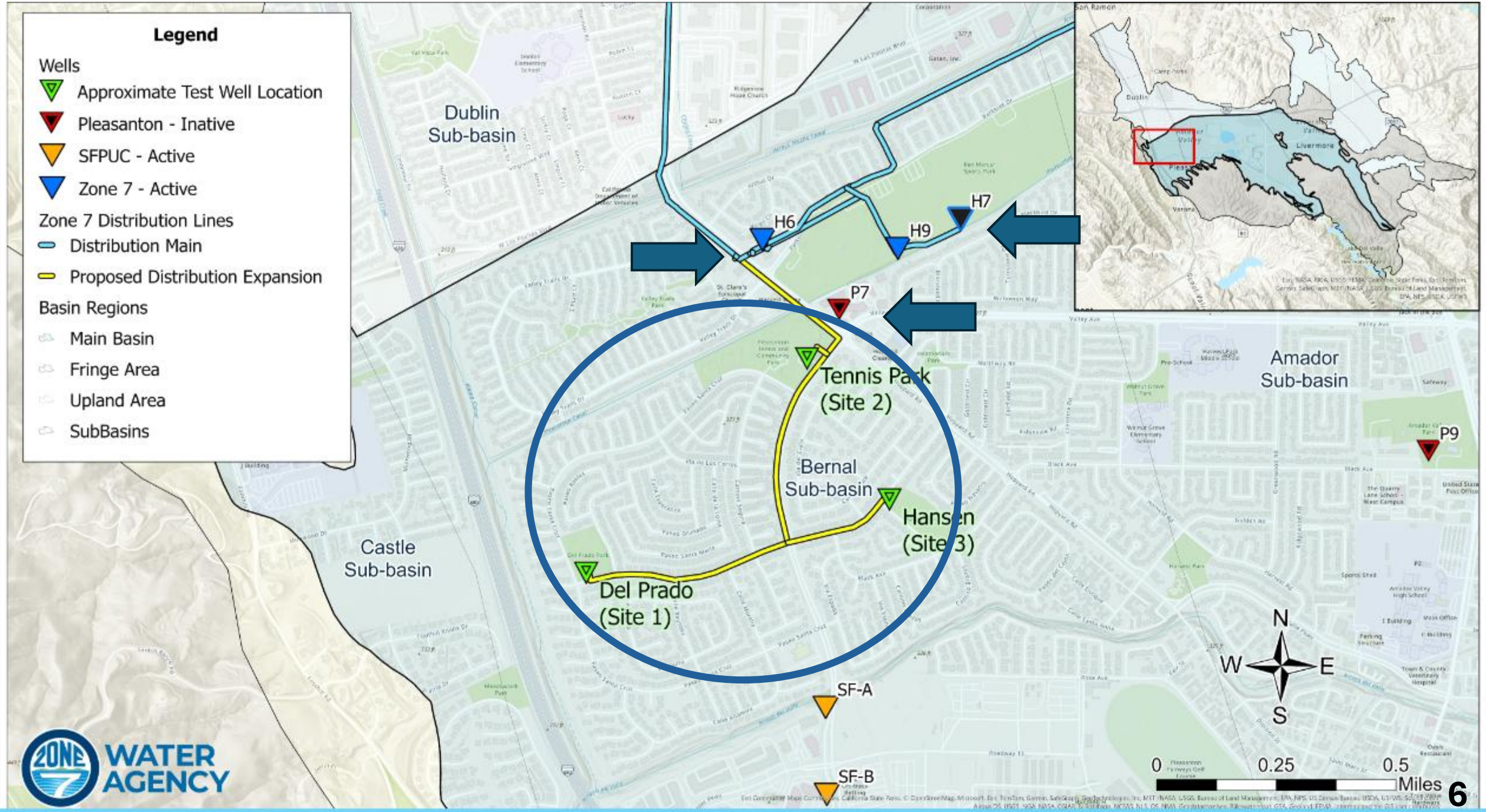
Project Workflow



Scope of Work

- Drilled exploratory bore holes and constructed three test wells at:
  1. Del Prado Park
  2. Pleasanton Tennis & Community Park
  3. Hansen Park
- Conducted Yield and Water Quality Testing at all sites
- Ran Model Scenarios to analyze sustainability and PFAS mobilization
- Feasibility Study
- Basis of Design


Legend
Wells
Approximate Test Well Location
Pleasanton - Inative
SFPUC - Active
Zone 7 - Active
Zone 7 Distribution Lines
Distribution Main
Proposed Distribution Expansion
Basin Regions
Main Basin
Fringe Area
Upland Area
SubBasins
Dublin Sub-basin
Castle Sub-basin
Bernal Sub-basin
Amador Sub-basin
H6
H7
H9
P7
P9
Tennis Park (Site 2)
Hansen (Site 3)
Del Prado (Site 1)
SF-A
SF-B
N
W
E
S
0
0.25
0.5
Miles

Summary of Findings

Well	Potential Pumping Rate (MGD)	Estimated Production Rates** (Acre-feet/year)	Title 22 Drinking Water Regulations	PFOS/PFOA	Model Results Sustainability (WQ and pumping)
Del Prado	1.87 - 2.74	**1,570 - 2,300**	✓	ND	✓
Tennis Park	4.90 - 7.34	**4,115 - 6,170**	✓	ND	✓
Hansen	4.90 - 6.05	**4,115 - 5,080**	✓	ND*	✓

*PFHxS: Composite: 2.5 ppt; MCL = 10 ppt (parts per trillion); Response Level = 10 ppt; Notification Level = 3 ppt

** These rates are based on 75%

Feasibility Study: Purpose and Scope

- Evaluate feasibility of a joint City of Pleasanton & Zone 7 regional groundwater supply project
- Identify a project capable of producing total 7,000 AFY under drought conditions
  - Includes City GPQ of 3,500 AFY
- Define project alternatives consistent with Zone 7 and City objectives with project evaluation criteria
- Conduct comparative evaluation and ranking of alternatives using agreed-upon scoring and weighting criteria

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Feasibility Study: Project Alternatives Evaluated

- Alternative 1:
  Tennis Park
- Alternative 2:
  Tennis + Hansen Parks
- Alternative 3:
  Tennis + Del Prado Parks
- Alternative 4:
  Tennis + Hansen + Del Prado Parks

- Project alternatives evaluated using consistent technical, cost, and sustainability criteria

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Feasibility Study: Project Alternatives Evaluation Criteria

- Two pass/fail criteria:
  - Ability to produce 7,000 AFY during drought years
  - Compliance with Zone 7 groundwater sustainability criteria

- Six weighted evaluation criteria:
  - Capital cost
  - Operations and maintenance cost
  - Operational flexibility and resilience
  - Implementation schedule
  - Community and environmental impacts
  - Water quality and treatment risk

- Scoring framework developed collaboratively with Zone 7 and City staff.

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Feasibility Study: Project Alternative Evaluation Results

	Project Evaluation Summary			
	Alternative 1 (Tennis Park Only)	Alternative 2 (Tennis/Hansen Parks)	Alternative 3 (Tennis/Del Prado Parks)	Alternative 4 (Tennis/Hansen/Del Prado Parks)
Total Estimated AFY (Drought Years)	*4,100*	8,200	*5,700*	9,800
TOTAL PROJECT SCORE	***74.0***	**65.5**	***67.5***	**60.0**

- All project alternatives meet groundwater sustainability criteria. Alternatives 1 and 3 do not meet minimum 7,000 AFY drought year target.
- AFY estimates assume 18-hour daily operation (75% reliability) and are planning-level values subject to confirmation during production well drilling and testing.
- Basis of Design Report (BODR) prepared by Carollo Engineers to establish the conceptual and planning-level design framework for the recommended project alternative

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Tennis and Hansen Park Well Project Overview

Key Elements

- Tennis Park Well
- Hansen Park Well
- New pipeline (3,970 LF)
- Improvements to Hopyard Chloramination Facility

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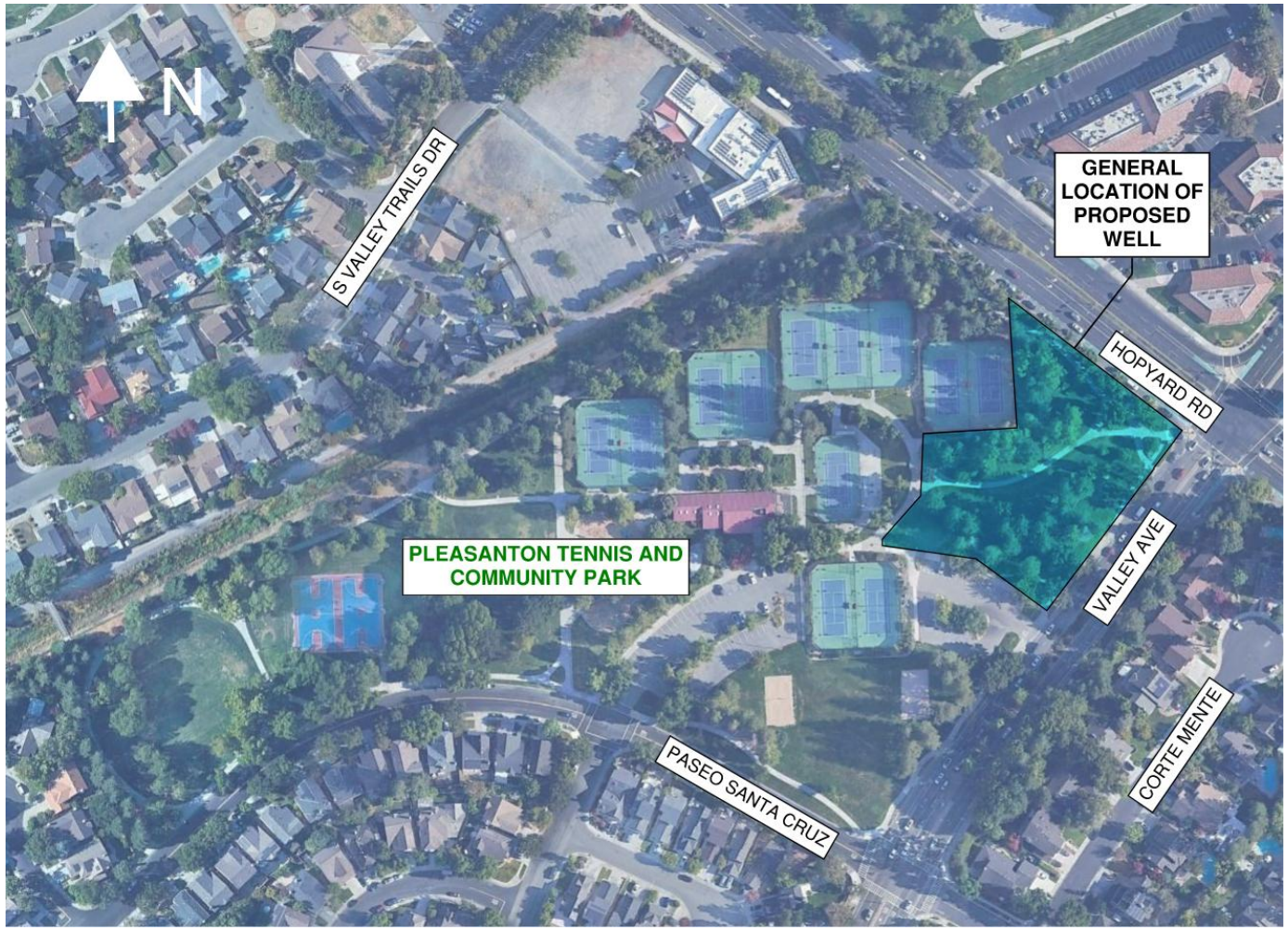
Tennis Park Well Facility Overview



Key Design Considerations

- Confirm well/building location
- Engage City parks
- Determine landscape improvements
- Site fencing is not required
- Site access roadway

Hansen Park Well Facility Overview

Key Design Considerations

- Confirm well/building location
- Engage City parks
- Determine landscape improvements
- Site fencing is not required
- Site access roadway

Hopyard Chloramination Facility Upgrades

Summary

- New chloramination facility building (30'W x 50'L)
- 2,000-gallon ammonia storage
- 6,000-gallon sodium hypochlorite storage
- Partial retrofit of existing facility
- Design/construction provisions to keep HCF operational through construction

Estimated Project Cost (AACE Level 4)

Cost Item	Cost (rounded)
Mobilization	$800,000
Transmission Main (DIP)	$2,400,000
Tennis Park Well Drilling and Casing Installation	$2,000,000
Tennis Park Well Facility	$3,850,000
Hansen Park Well Drilling and Casing Installation	$2,000,000
Hansen Park Well Facility	$3,850,000
Chloramination Upgrades	$1,000,000
Direct Cost Subtotal	**$15,900,000**
Sales Tax (10.25% on Half the Direct Cost)	$820,000
Contingency (30%)	$5,020,000
Escalation to Mid-Point (5% With Mid-Point in August 2027)	$2,140,000
General Conditions, Contractor Overhead and Profit (15%)	$3,590,000
Construction Change Order Allowance (10%)	$2,750,000
Total Estimated Construction Cost(1)	**$30,220,000**
Estimated Low Range Construction Cost Total (-30%)	**$21,160,000**
Estimated High Range Construction Cost Total (+50%)	**$45,330,000**
Engineering, Legal, and Administration (40%)	$12,088,000
Total Estimated Project Cost(2)	**$42,308,000**

Notes:
(1) Indirect cost factors are applied to the running subtotal of direct costs plus preceding indirect cost.
(2) Cost estimate developed in December 2025; used ENR CCI 15276 (May 2025).

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Summary

- Project is feasible
- The preferred alternative is two wells in Tennis and Hansen Parks
- The project is estimated to produce over 8,200 AFY in a drought
- The project cost is estimated at $42.3 million
- City of Pleasanton and Zone 7 Staff to analyze study findings and BODR to determine next steps
- Recommendations to the Board in a future meeting

Questions?