

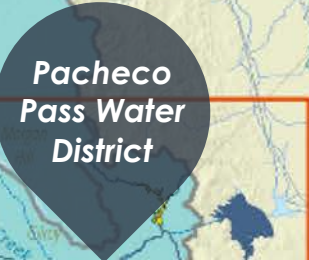


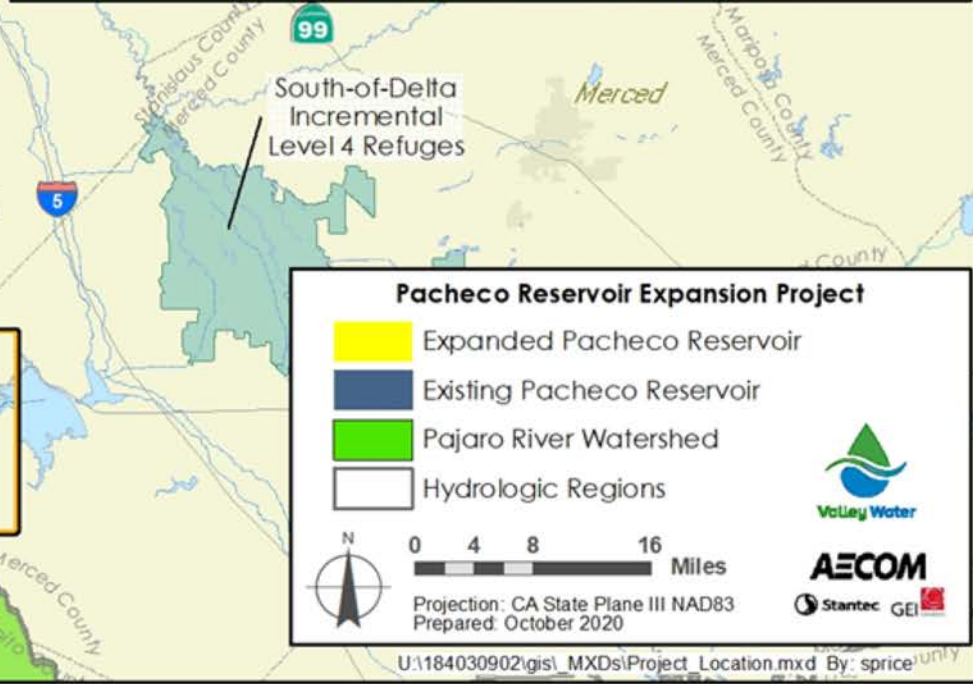
Pacheco Reservoir Expansion Project

Unique Opportunity for Ecosystem Enhancement, Improved Water Supply Reliability, and Emergency Water Supply Supply

PROJECT PARTNERS

- Santa Clara Valley Water District (Valley Water)
- San Benito County Water District (SBCWD)
- Pacheco Pass Water District (PPWD)





Pacheco Reservoir Expansion Project

- Expanded Pacheco Reservoir
- Existing Pacheco Reservoir
- Pajaro River Watershed
- Hydrologic Regions

0 4 8 16 Miles

Projection: CA State Plane III NAD83
Prepared: October 2020

Valley Water
AECOM
Stantec GEI

U:\184030902\gisl_MXD\Project_Location.mxd By: sprice

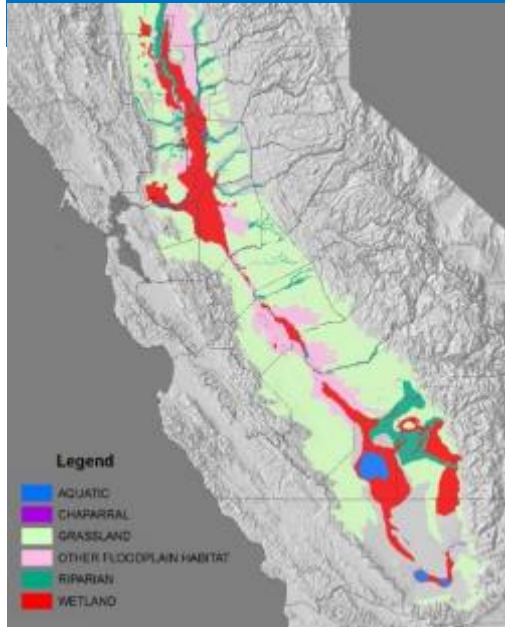


Project Benefits

Enhance habitat for federally threatened steelhead



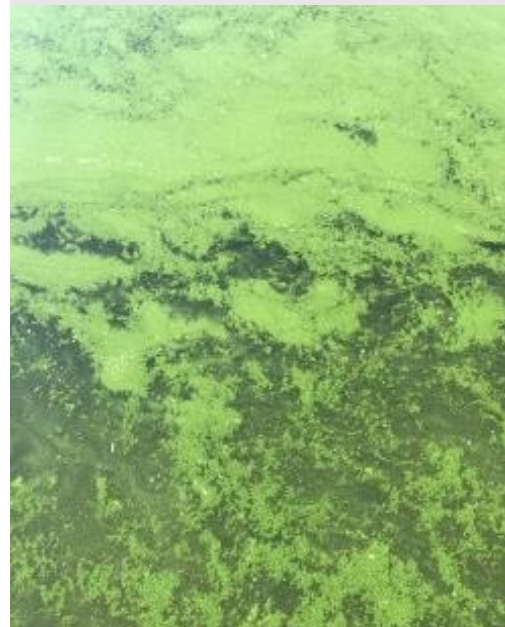
Enhance water supply in below-normal years to wildlife refuges in the Delta



Increase water supply reliability and emergency water supply



Resolve the water quality problem in supply sourced from San Luis Reservoir

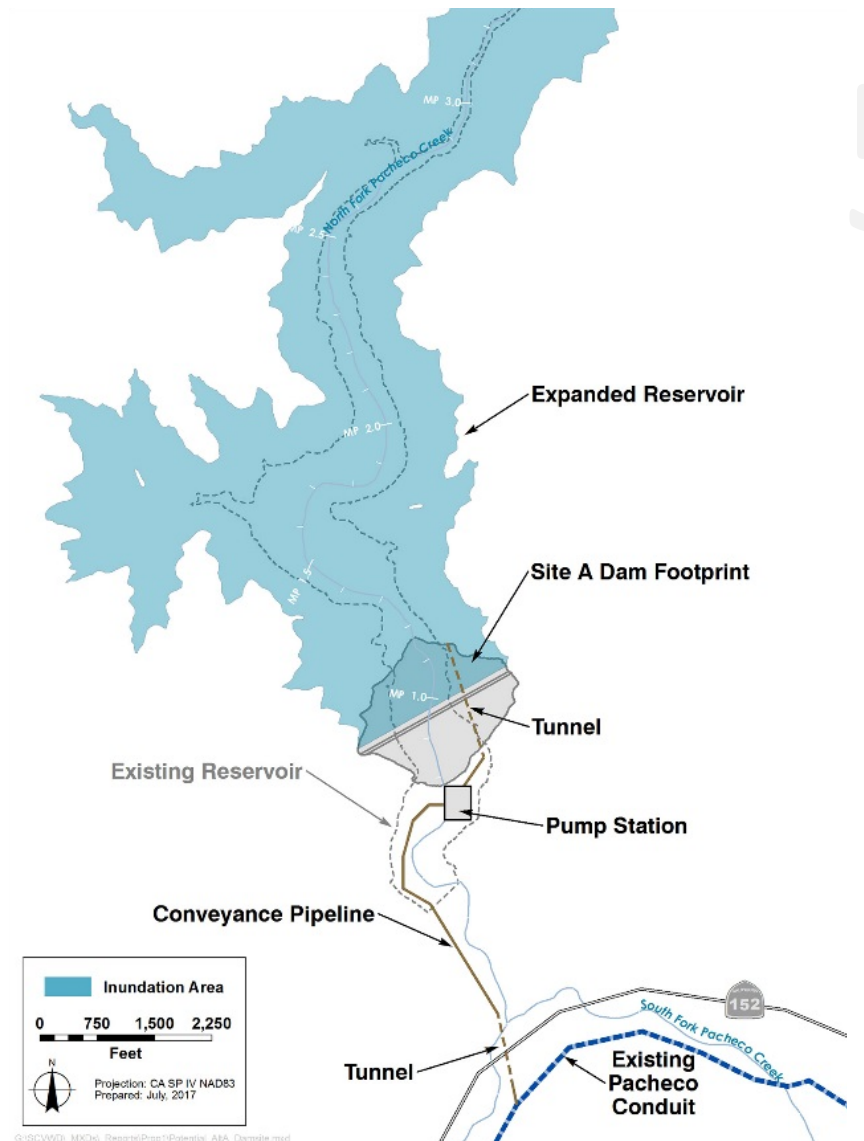


Reduce flooding along Pacheco Creek and to disadvantaged communities



Project Components

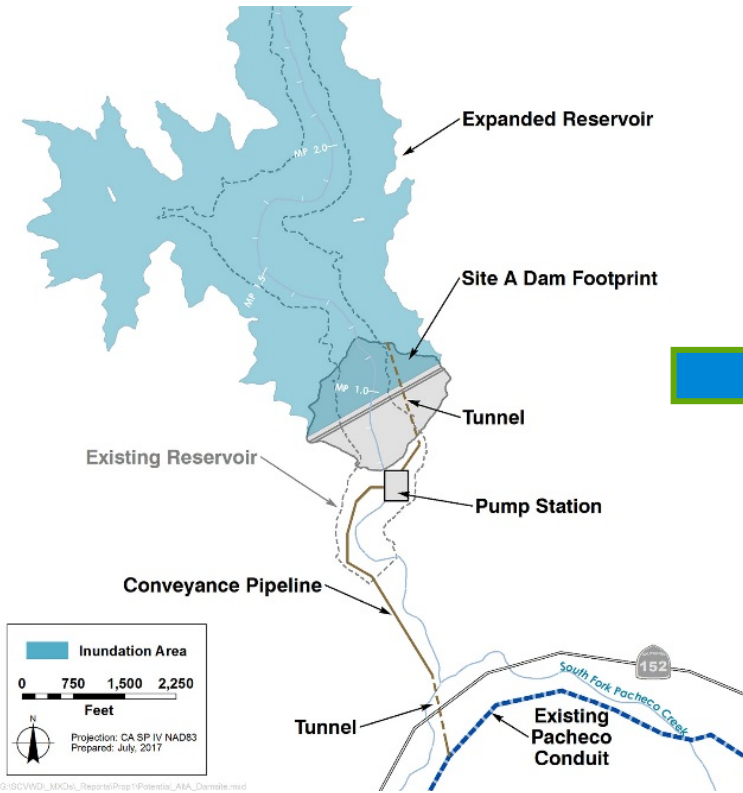
- **Reservoir Expansion** - 5.5 to 140 TAF
- **Dam** - about 300 feet high
- **Spillway** - to pass Maximum Probable Flood
- **Inlet/Outlet Works** - large diameter pipe connection to Pacheco Conduit, smaller outlet pipe to Pacheco Creek
- **Pump Station & Conveyance Pipeline** - to transfer water to and from Pacheco Conduit
- **Existing Dam** - decommission/remove
- **Power Transmission Line** - about 4 miles
- **Roadways** - access to and from SR-152



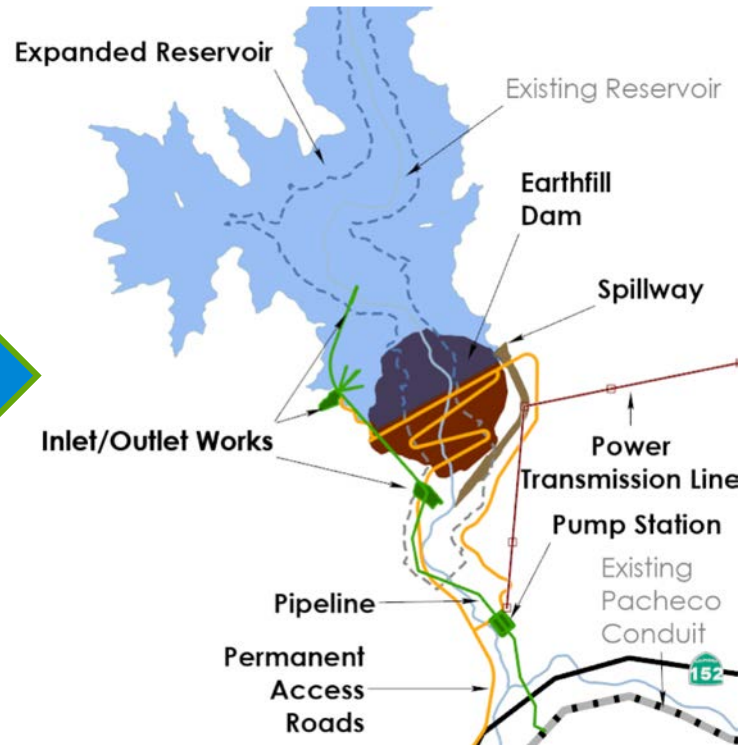
WSIP Application Concept

PREP Facilities Design Update

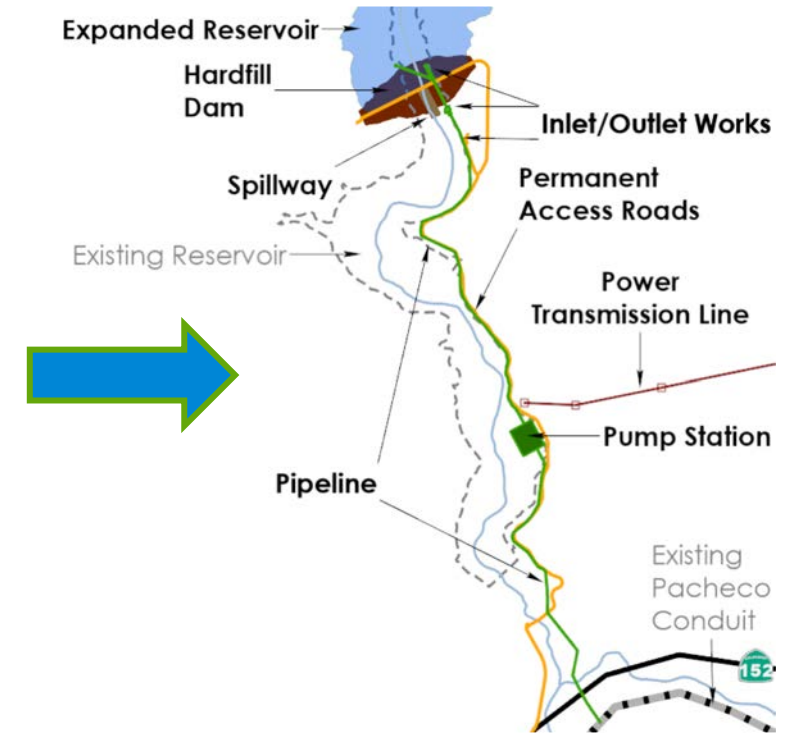
WSIP Application Concept



Preliminary Design

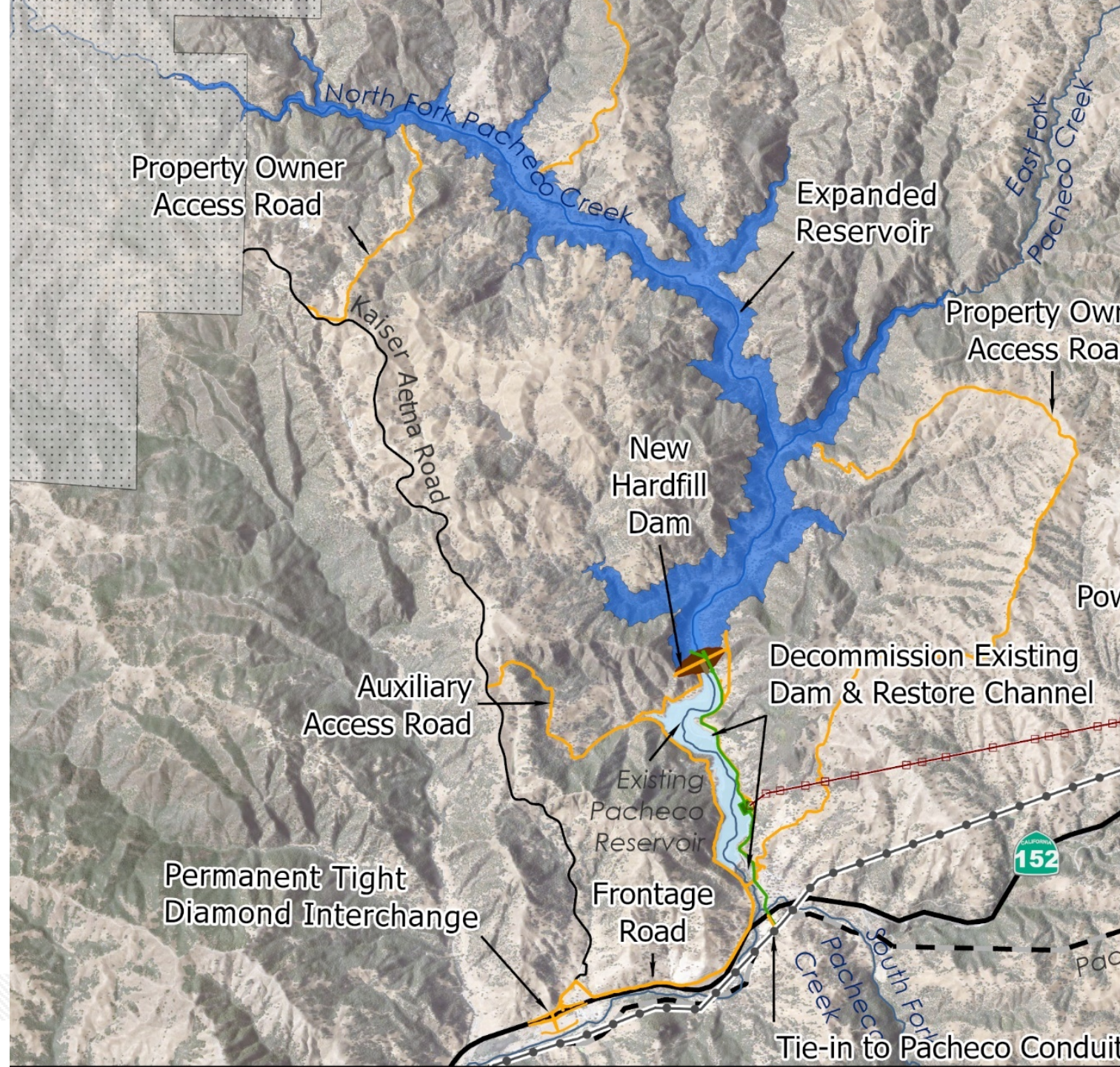


Preferred Alternative



Updated Design

- Geotechnical explorations
- Preliminary Design cost estimate
- Alternatives Analysis
- Engineering design development
- Project has changed
- Objectives and project benefits are the same or improved
- **On track to demonstrate feasibility by December CWC meeting**



Pacheco Reservoir Expansion Project (PREP)

Project Objectives

Primary Objectives	Increase water supply reliability and system operational flexibility to help meet municipal and industrial and agricultural water demands in the Santa Clara and San Benito Counties during drought periods and emergencies, or to address shortages due to regulatory and environmental restrictions
	Increase suitable habitat in Pacheco Creek for federally threatened South-Central California Coast steelhead through improved water temperature and flow conditions
Secondary Objectives	Improve water quality and minimize supply interruptions, when water is needed, for Santa Clara and San Benito Counties, to increase operational flexibility for south-of-Delta contractors dependent on San Luis Reservoir
	Develop water supplies for environmental water needs at Incremental Level 4 (IL4) wildlife refuges to support habitat management in the Delta watershed

How the Project will be Operated



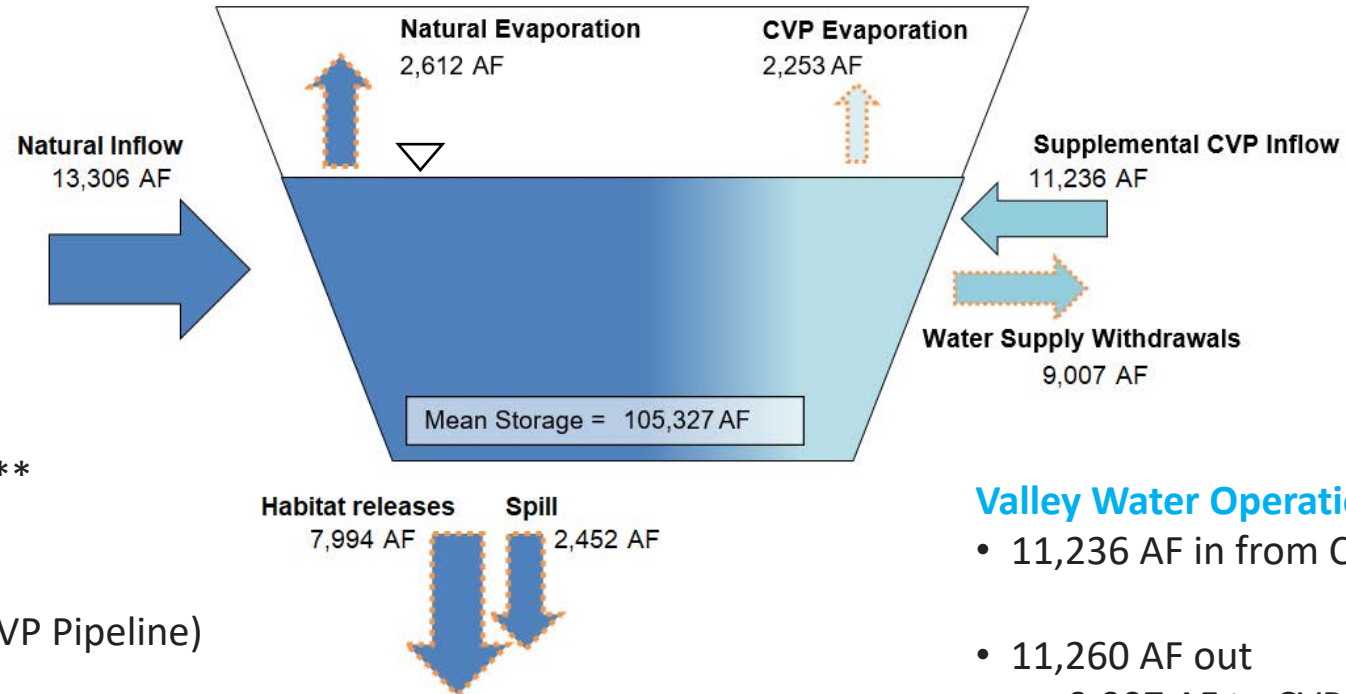
Proposed Project 2030 Average Annual Operations

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Natural Water

- 13,306 AF in
- 13,058 AF out
 - 2,612 AF evaporated
 - 7,994 AF habitat releases**
 - 2,452 AF spilled
- 248 AF to Valley Water (via CVP Pipeline)

**Portion of habitat releases used to meet PPWD water right



Valley Water Operations

- 11,236 AF in from CVP pipeline
- 11,260 AF out
 - 9,007 AF to CVP pipeline
 - Includes 248 AF of natural inflow
 - 2,253 AF evaporated

All values are approximate and subject to change

Updated PREP Feasibility Documentation

to be submitted in October 2021 for CWC Staff analysis

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- **Facilities** - changes to dam location, dam type, pump station, conveyance, power substation, transmission line, vehicular access
- **Operations** - monthly release baseflows refined based on water year type and input from stakeholder agencies



Updated PREP Feasibility Documentation

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- **Benefits** - analysis updated to better reflect current conditions: increase in ecosystem improvement and emergency storage benefits
- **Cost** - capital cost increase of approximately \$561 million in 2015 dollars
- **Documentation** - Updated Feasibility Documentation will incorporate all changes since the WSIP application



Environmental Documentation

- **Field Investigations** - extensive studies and analysis of environmental resources have been completed
- **Alternatives** - five project alternatives and a no-project alternative have been analyzed for impacts
- **Draft EIR** - comprehensive report including supporting appendices due for public release in November 2021



PREP Milestones for WSIP Funding

(WSIP Rank No. 1: \$497 million)

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Milestone	Anticipated Completion	Notes
Updated Feasibility Documentation	October 2021	Includes project updates and refinements since the WSIP application feasibility study
75% of non-public cost share	October 2021	SCVWD Board Resolution to be enacted
Environmental Documentation (draft)	November 2021	Draft EIR underway set for public comment through beginning of 2022
CWC Feasibility Determination	December 2021	Prior to January 1, 2022 deadline for funding eligibility
Environmental Documentation (final)	November 2023	Complete document with SCVWD Board certification
Contracts for administration of public benefits	December 2023	CDFW for ecosystem DWR for emergency supply
Contracts for non-public cost share	September 2024	Agreements with potential partners for operations and funding
All required permits, agreements, approvals, and certifications	December 2024	Coincides with design completion and preparation of construction bid package



Valley Water

Clean Water • Healthy Environment • Flood Protection

Info: <https://www.valleywater.org/pachecoexpansion>

Contact: rmccarter@valleywater.org