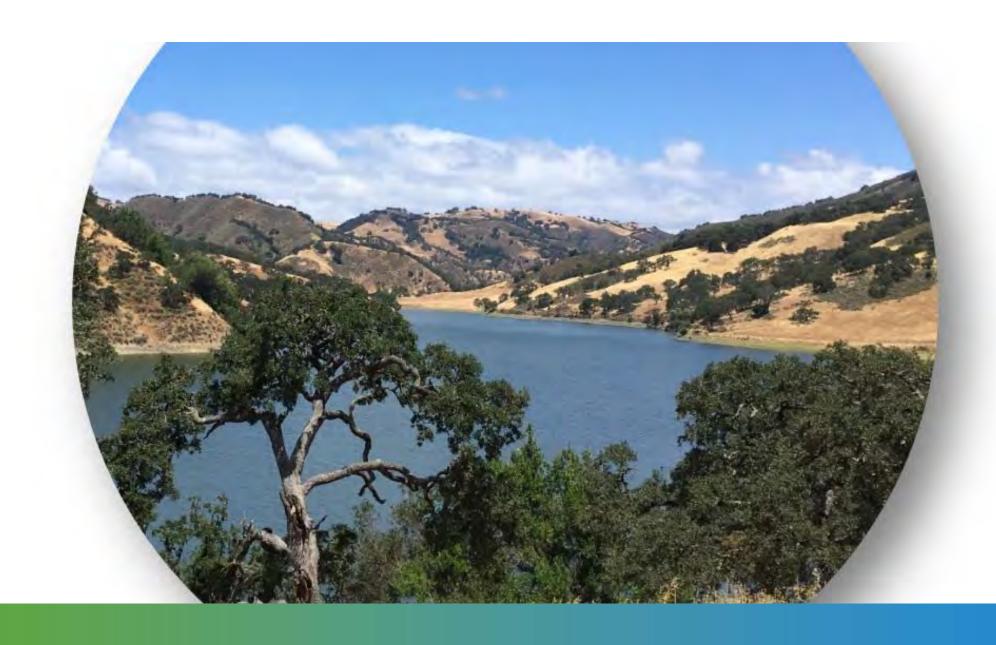


### Valley Water

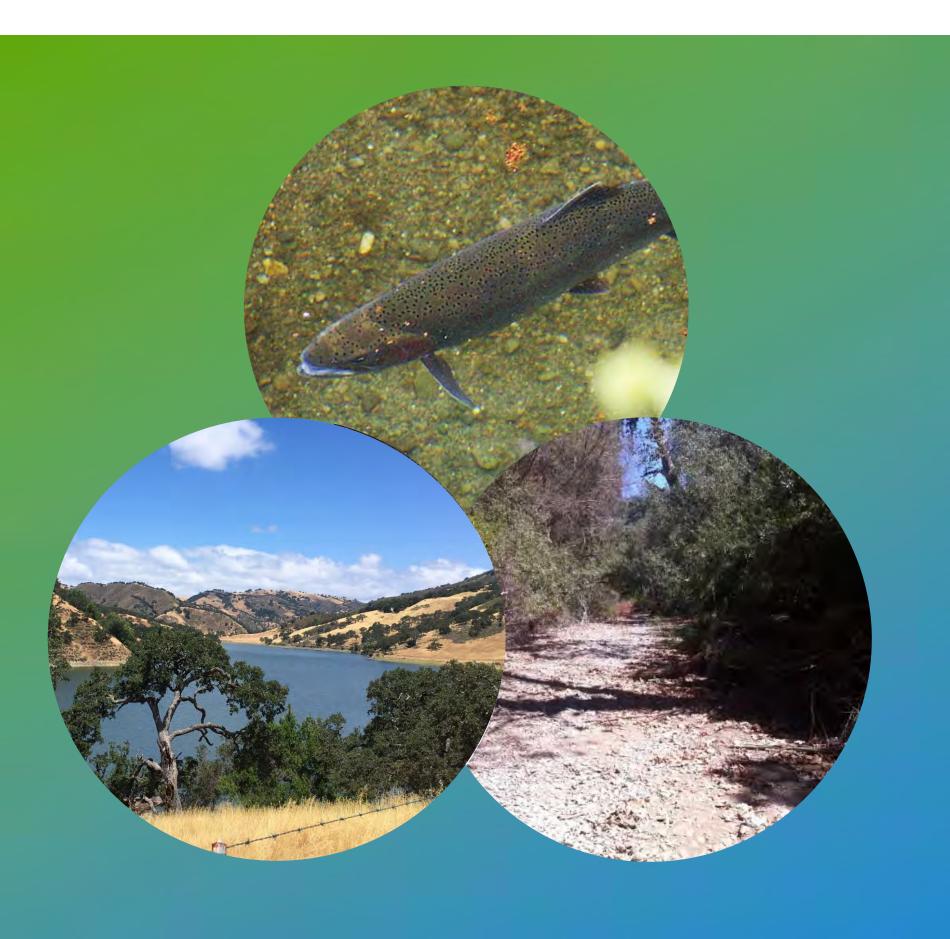
Clean Water • Healthy Environment • Flood Protection



### Pacheco Reservoir Expansion Project

**Environmental Impact Report Public and Agency Virtual Scoping Meeting** 





California
Environmental
Quality Act
(CEQA) Process
and Meeting
Purpose

### California Environmental Quality Act Process

### **Initial Study**

**Notice of Preparation** 

**Initial Public & Agency Comment Period** 

Public & Agency Scoping Meeting/
Additional Public & Agency Comment Period

**Draft Environmental Impact Report** 

**45-Day Public Comment Period/Public Meeting** 

**Final Environmental Impact Report (EIR)** 

**Final Environmental Impact Report Certification** 

**Notice of Determination** 

- Consider scoping comments received
- Identify Alternatives
- Describe Baseline Conditions
- Identify Potential Effects
- Determine Significance
- Develop Mitigation Measures
- Prepare Responses to Public Comment
- Revise Draft EIR as Necessary
- Finalize Mitigation Measures



Ongoing Agency & Public Input

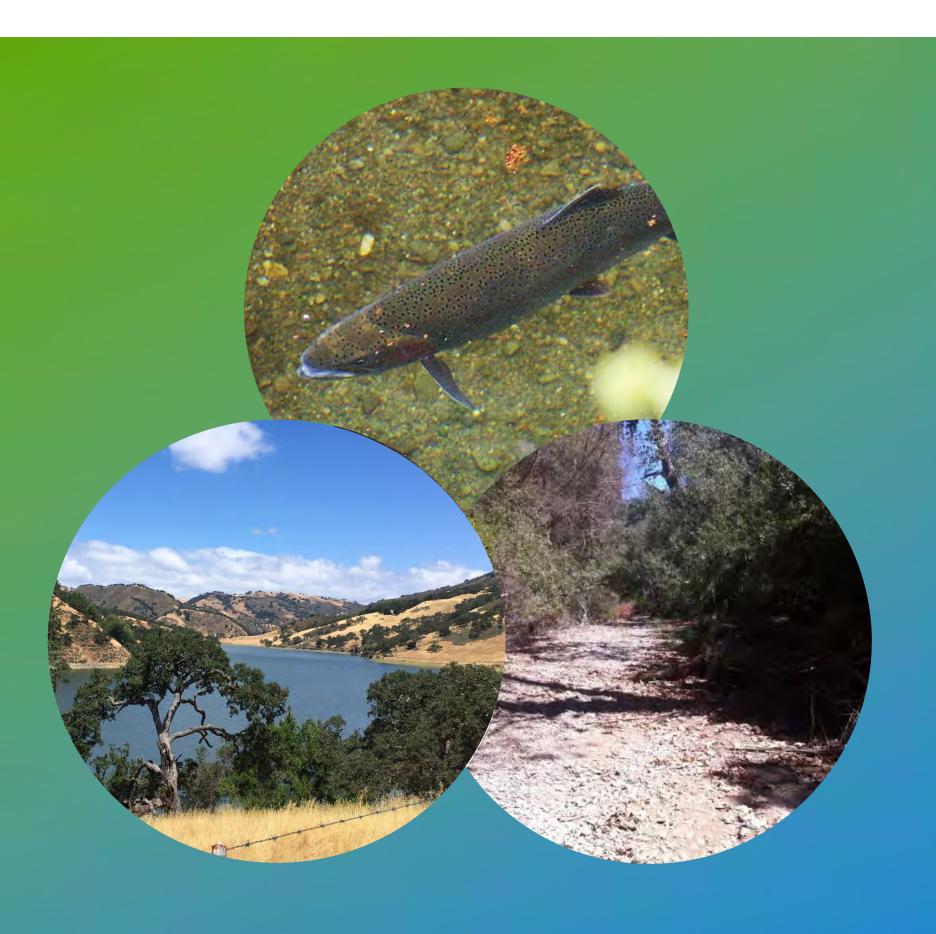


Pictured above: Existing Pacheco Reservoir

### Scoping Meeting Purpose

- Provide orientation and updates on the Pacheco Reservoir Expansion Project (Project) and EIR
- Provide opportunity for additional public input on the Project
- Solicit input on scope and content to be included in the EIR





### Background

## Existing North Fork Dam and Pacheco Reservoir

### Dam

- 100-foot-tall earthen embankment dam
- 0.4 miles upstream of North Fork Creek and South Fork Creek confluence
- Construction completed in 1939

### Reservoir

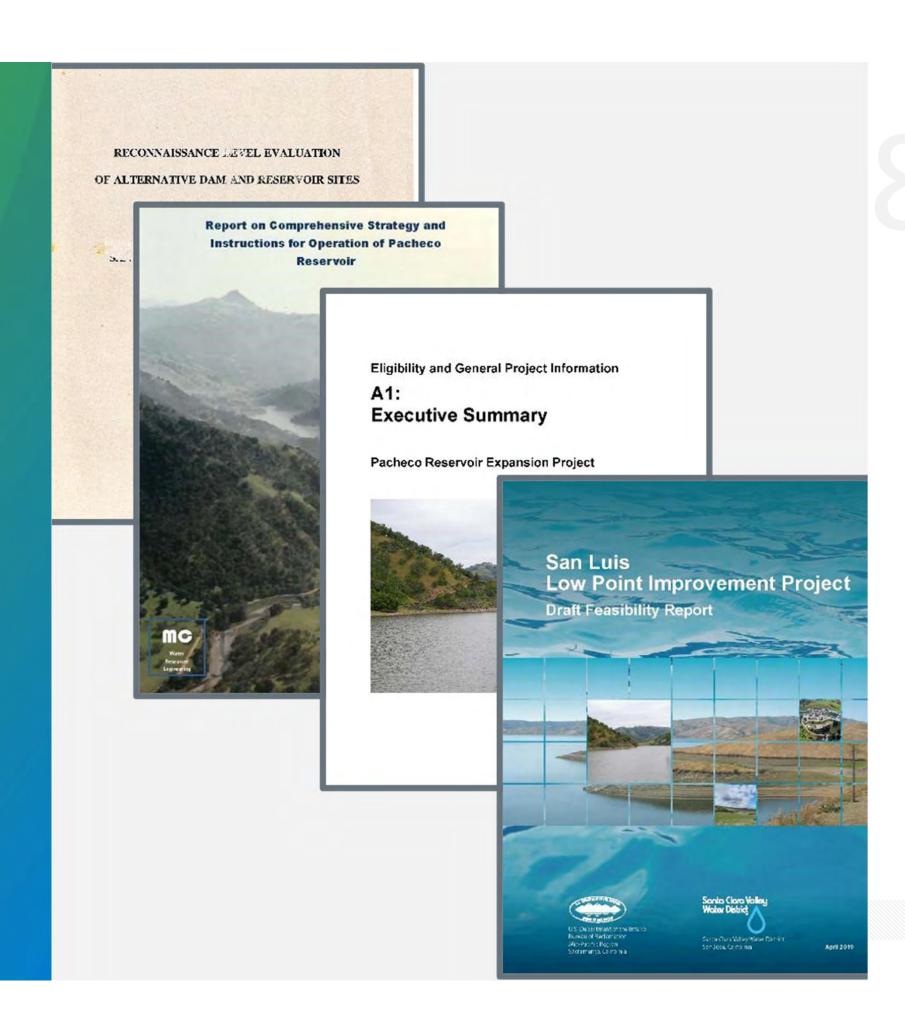
- Current capacity: 5,500 acre-feet
- Operated for groundwater recharge along Pacheco Creek by Pacheco Pass Water District





### Studies Related to Pacheco Reservoir

- Historical evaluations of water storage in Santa Clara County
- 2014 Reoperation Study
- Water Storage Investment Program
- San Luis Low Point Improvement Project
- Valley Water ongoing efforts



### Relationship of CEQA Processes

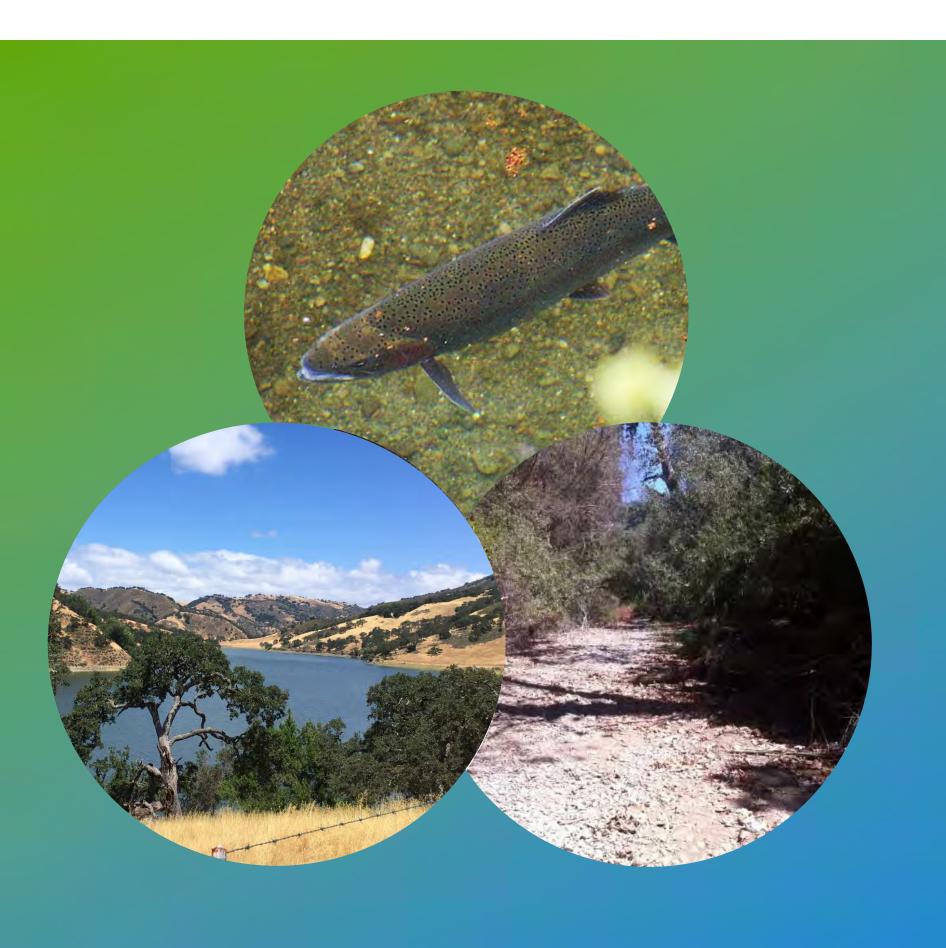
### San Luis Low Point Improvement Project

- Primary objectives focused on addressing (1) supply interruptions due to San Luis Reservoir "low point" water quality issues, and (2) associated water supply reliability
- Expansion of Pacheco Reservoir is 1 of 5 action alternatives
- Draft EIS/EIR released July 2019;
   Final EIS/EIR is pending
- Valley Water to potentially certify and approve EIR reflecting Pacheco Reservoir expansion as best alternative to address the low point problem in San Luis Reservoir

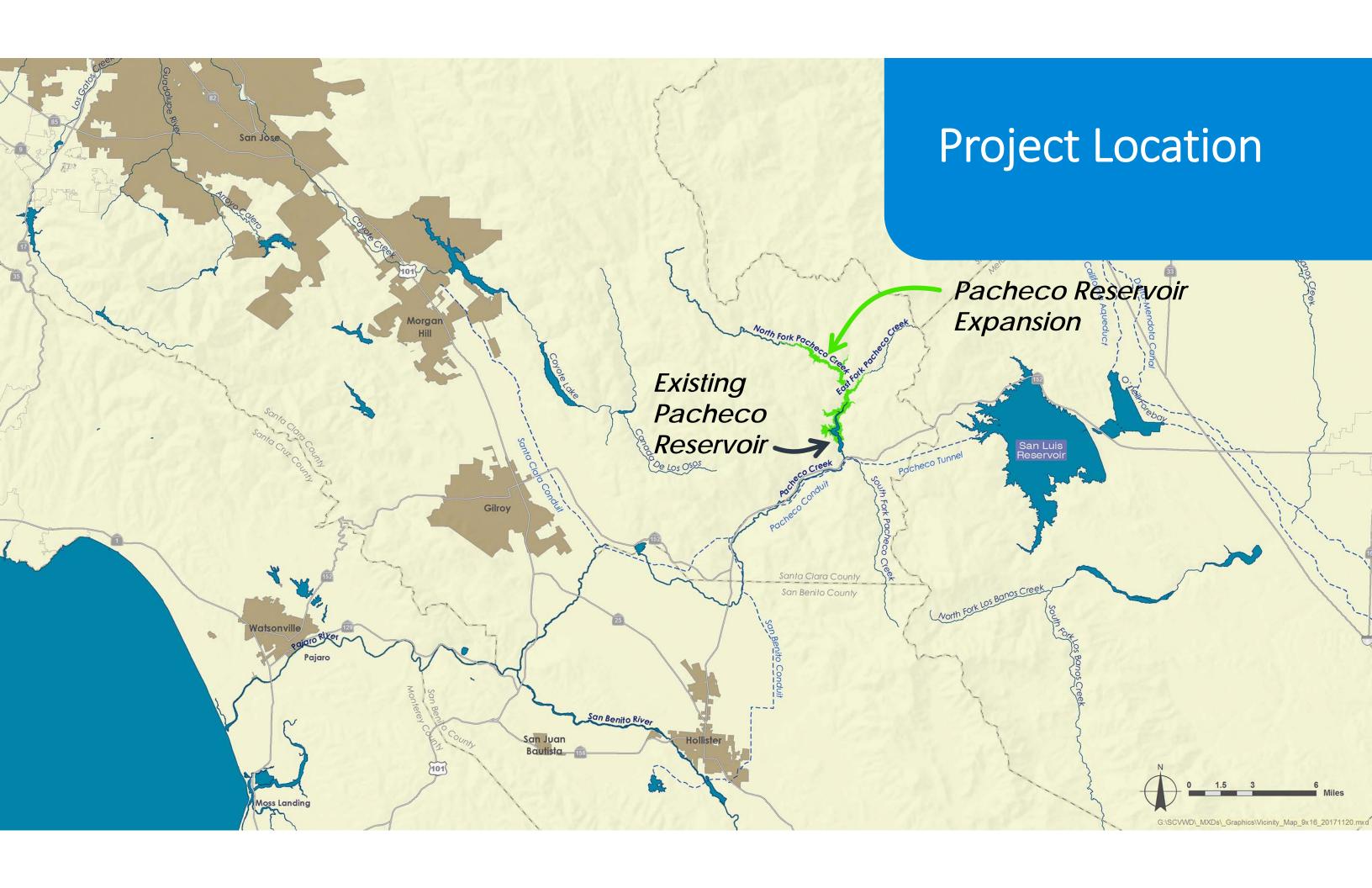
### **Pacheco Reservoir Expansion Project**

- Primary objectives focused on (1) water supply reliability/emergency water supplies, and (2) increase suitable habitat in Pacheco Creek for federally threatened South-Central California Coastal Steelhead
- Multiple alternatives evaluating potential expansion of Pacheco Reservoir
- Draft EIR anticipated late 2021
- EIR will support Valley Waters' approval of the Pacheco Reservoir Expansion Project's detailed construction activities and long-term operational plans, as well as support permitting by State and local responsible agencies





Project
Location and
Planning
Objectives



### Needs for Pacheco Reservoir Expansion Project

12

Improve
Resiliency and
Emergency
Water Supply



Restore Federally
Threatened
Steelhead Fish
Habitat



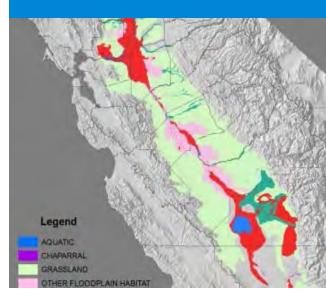
90% population decline in Pajaro watershed from 1960s to 1990s

Eliminate
Water Quality
Issues from San
Luis Reservoir



Water quality issues during summer months in **57%** of years

Improve
Delta Watershed
Wetlands



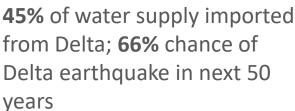
**90%** of Delta watershed wetlands have disappeared

Opportunity for Incidental Reduction of Downstream Flooding



Extensive flooding even for frequent/ small events;

20-year flood in 2017 (pictured)





### **Project Objectives**

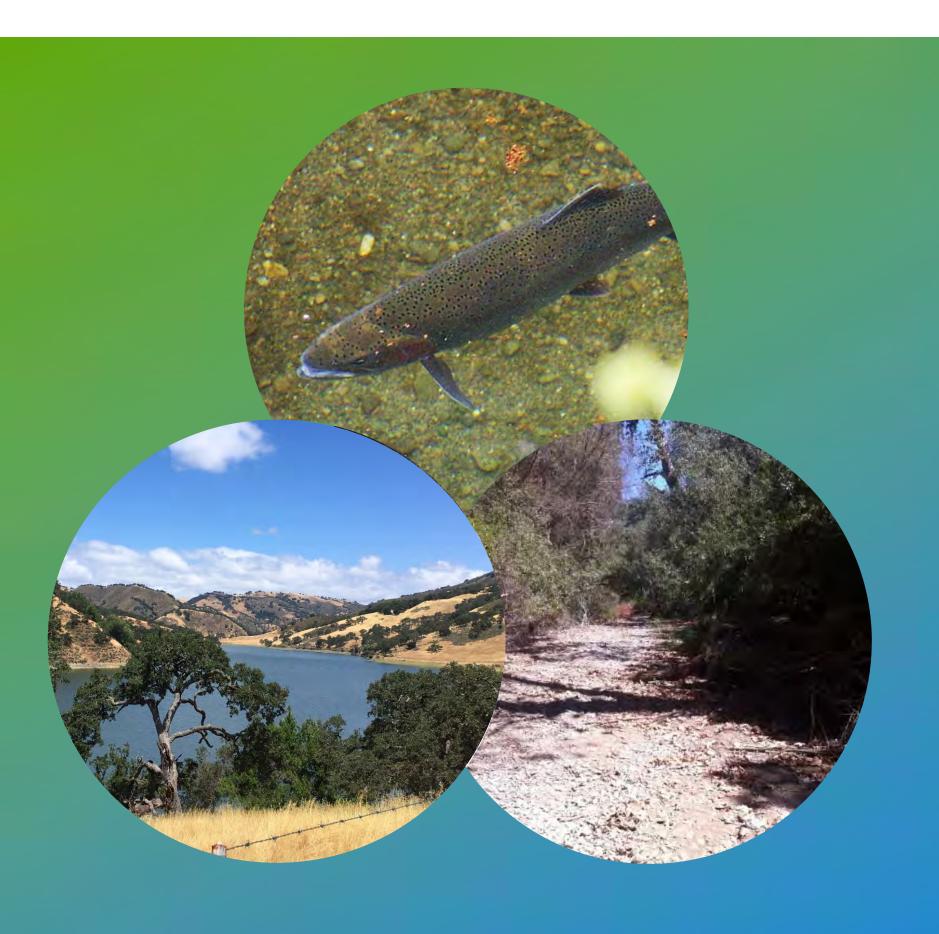
**Primary Objectives** 

### **Secondary Objectives**

- Increase municipal and industrial and agricultural water supply reliability including emergency response
- Increase suitable habitat in Pacheco Creek for federally threatened South-Central California Coast steelhead

- Improve drinking water quality and minimize supply interruptions from San Luis Reservoir
- Increase water supplies for Incremental Level 4 wildlife refuges





### Alternatives



Pictured above: Existing Pacheco Reservoir

### **Alternatives Overview**

- Multiple alternatives will be assessed, including No Project Alternative
- Based upon ongoing planning, modeling, field investigations, and design efforts
- Informed by ongoing stakeholder and regulatory agency coordination



### Facilities/Features Common to All Action Alternatives

16

- New Dam, Expanded Reservoir and Appurtenant Structures
   Dam, spillway, inlet/outlet works
- Connection with Pacheco Conduit and Conveyance Facilities
   Pipeline/tunnel, pump station
- Decommissioning of Existing Dam and Channel Restoration
- Access and Roadway Improvements
   SR 152 access improvements and permanent and temporary access roads
- Power Transmission Line Upgrades and Utility Relocations
- Borrow, Disposal, Stockpiling, and Staging Areas



Pictured above: Existing Pacheco Reservoir near Downstream Dam Site

### Valley Water

### Primary Variations Between Action Alternatives

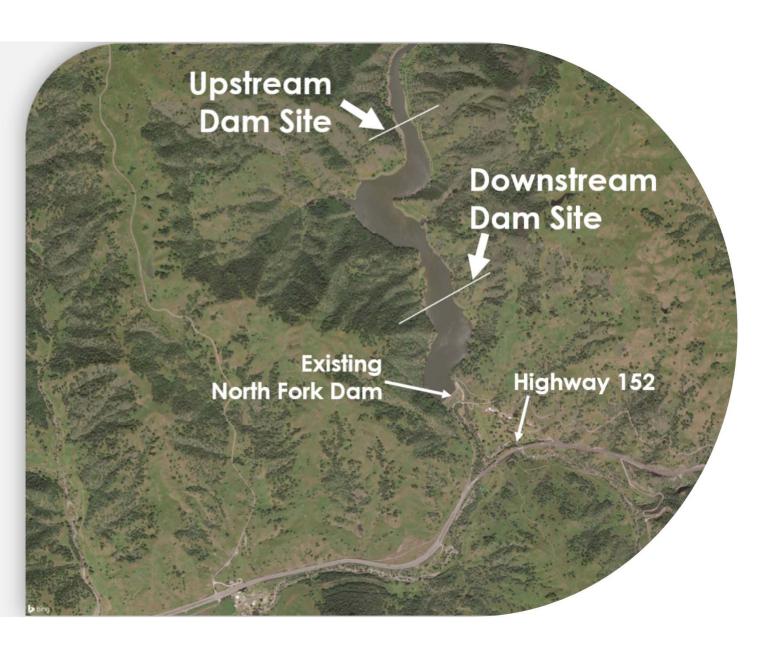
### **Facilities**

- Dam Site Location
- Reservoir Size
- Dam Type

### **Long-Term Operations**

- Target Flows in Pacheco Creek
- Participation by San Benito
   County Water District





### Facilities: Dam Site Location

### Two Dam Site Locations

- Upstream Dam Site
  - o 1.7 miles upstream from Highway 152
- Downstream Dam Site
  - o 0.8 miles upstream from Highway 152



## 19



Pictured above: Earthfill Dam at Downstream Dam Site with 140,000 acre-feet Expanded Reservoir

### Facilities: Reservoir Size

### Two Reservoir Sizes

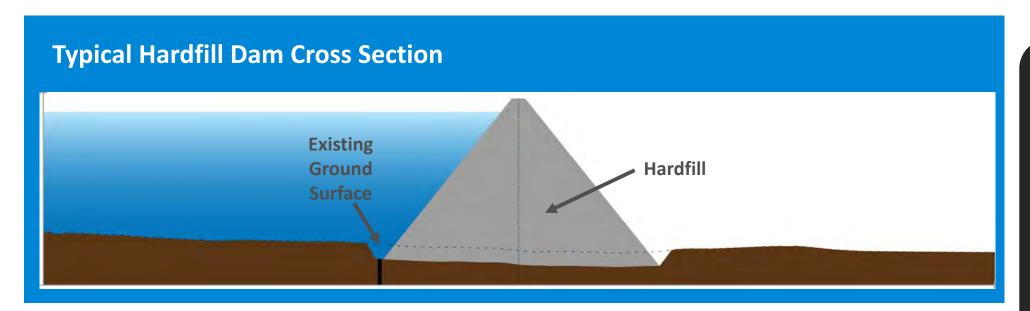
- 140,000 acre-feet
  - Upstream dam site
  - o Downstream dam site
- 96,000 acre-feet
  - Upstream dam site

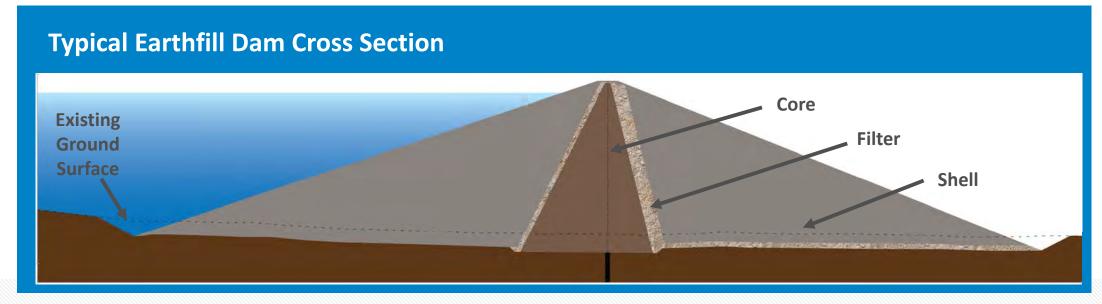


### **Facilities: Dam Types**

### Two Dam Types

- Hardfill Dam
  - Dam, spillway, and inlet/outlet integrated
- Earthfill Dam
  - Dam, spillway, and inlet/outlet separate









Pictured above: Pacheco Creek below Existing North Fork Dam

## Long Term Operations: Target Flows in Pacheco Creek

### **Two Target Flow Scenarios**

- Target flows identified in CEQA
   Initial Study and Water Storage
   Investment Program application
- Refined target flows based on ongoing agency coordination, including consideration of water year type





# Long Term Operations: San Benito County Water District Participation

Two SBCWD Participation Scenarios

- No Participation (0%)
- 10% Participation



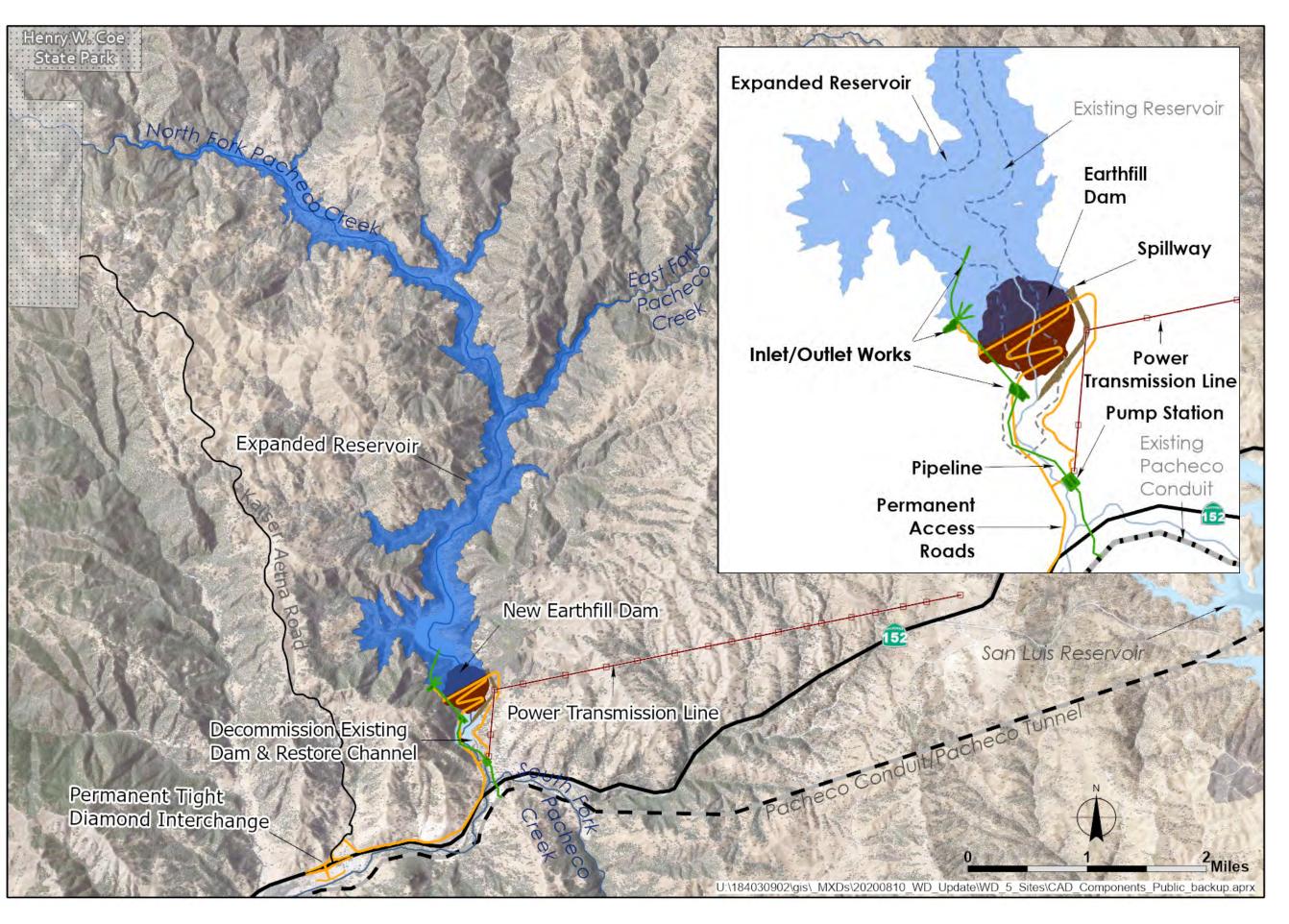
### **Preliminary Range of Alternatives**

Preliminary Alternative #	<b>Facilities</b>			Long-Term Operations	
	Dam Site Location	Expanded Reservoir Size	Dam Type	Pacheco Creek Target Flows	SBCWD Participation
1	Downstream	140,000 AF	Earthfill	CEQA Initial Study/WSIP	0%
2	Downstream	140,000 AF	Hardfill	Refined Operations in Consideration of Agency Input	10%
3	Upstream	140,000 AF	Earthfill	CEQA Initial Study/WSIP	0%
4	Upstream	140,000 AF	Hardfill	Refined Operations in Consideration of Agency Input	10%
5	Upstream	96,000 AF	Earthfill	CEQA Initial Study/WSIP	0%

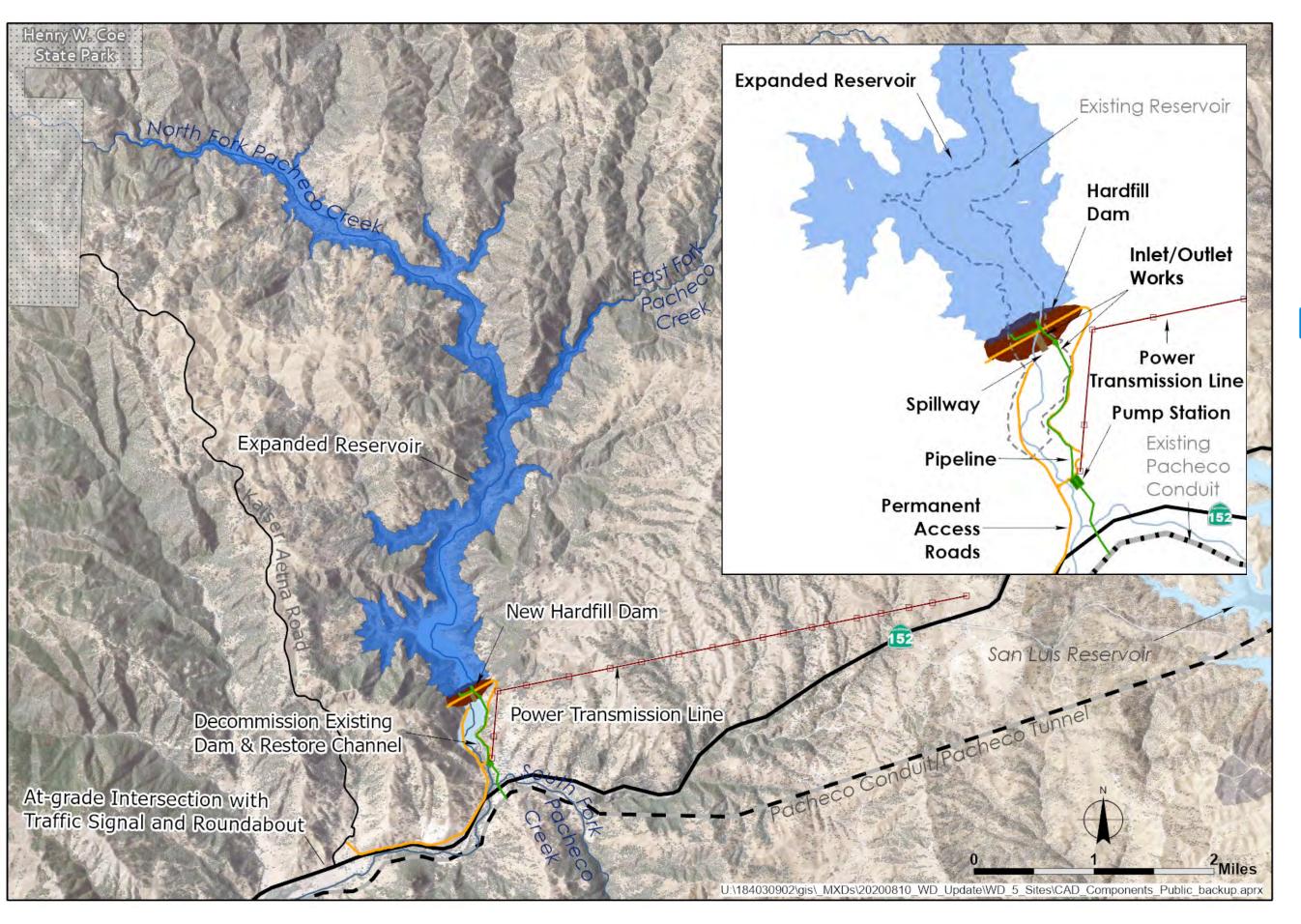
Key:

AF = acre-feet CEQA = California Environmental Quality Act SBCWD = San Benito County Water District
WSIP = Water Storage Investment Program

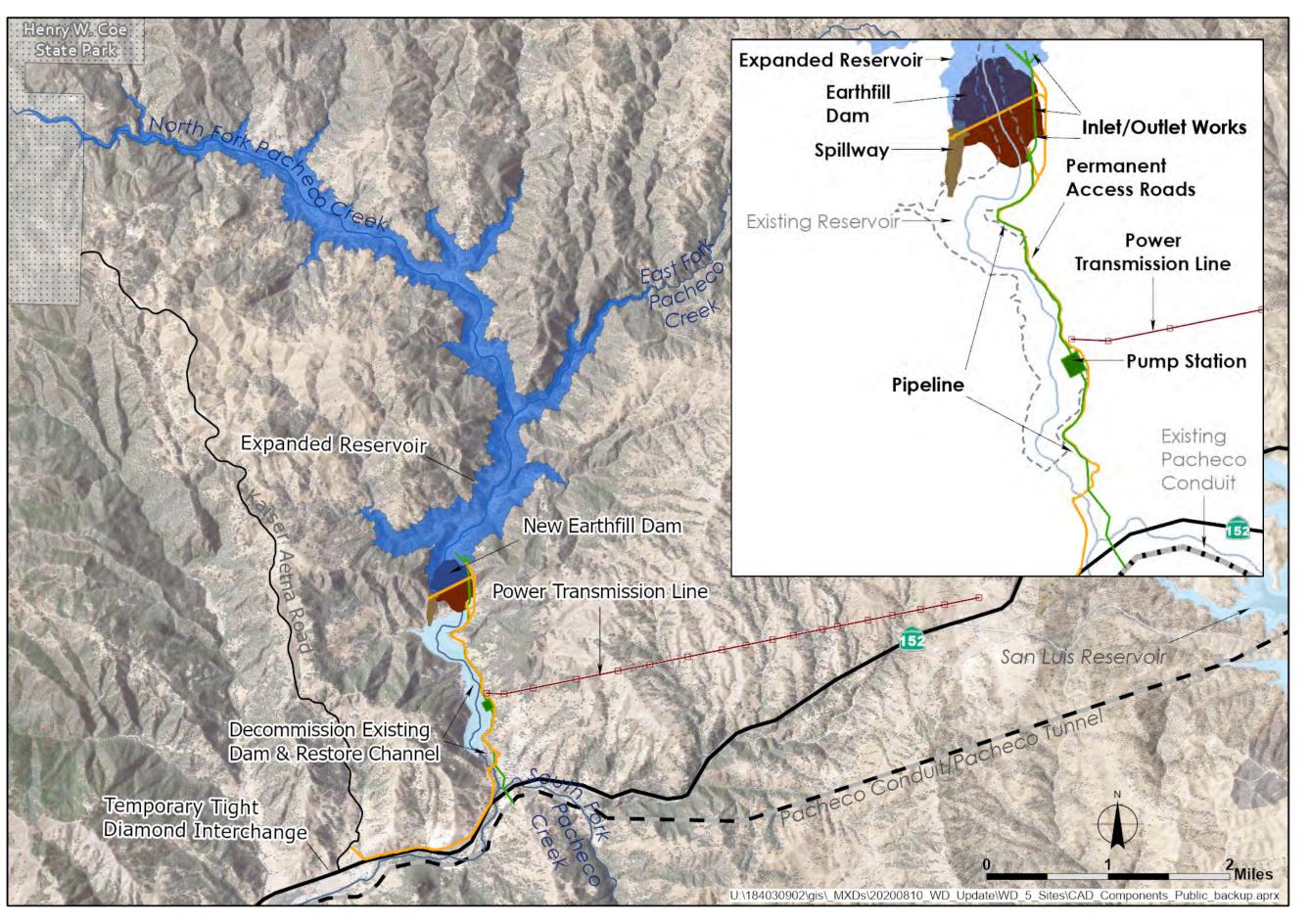




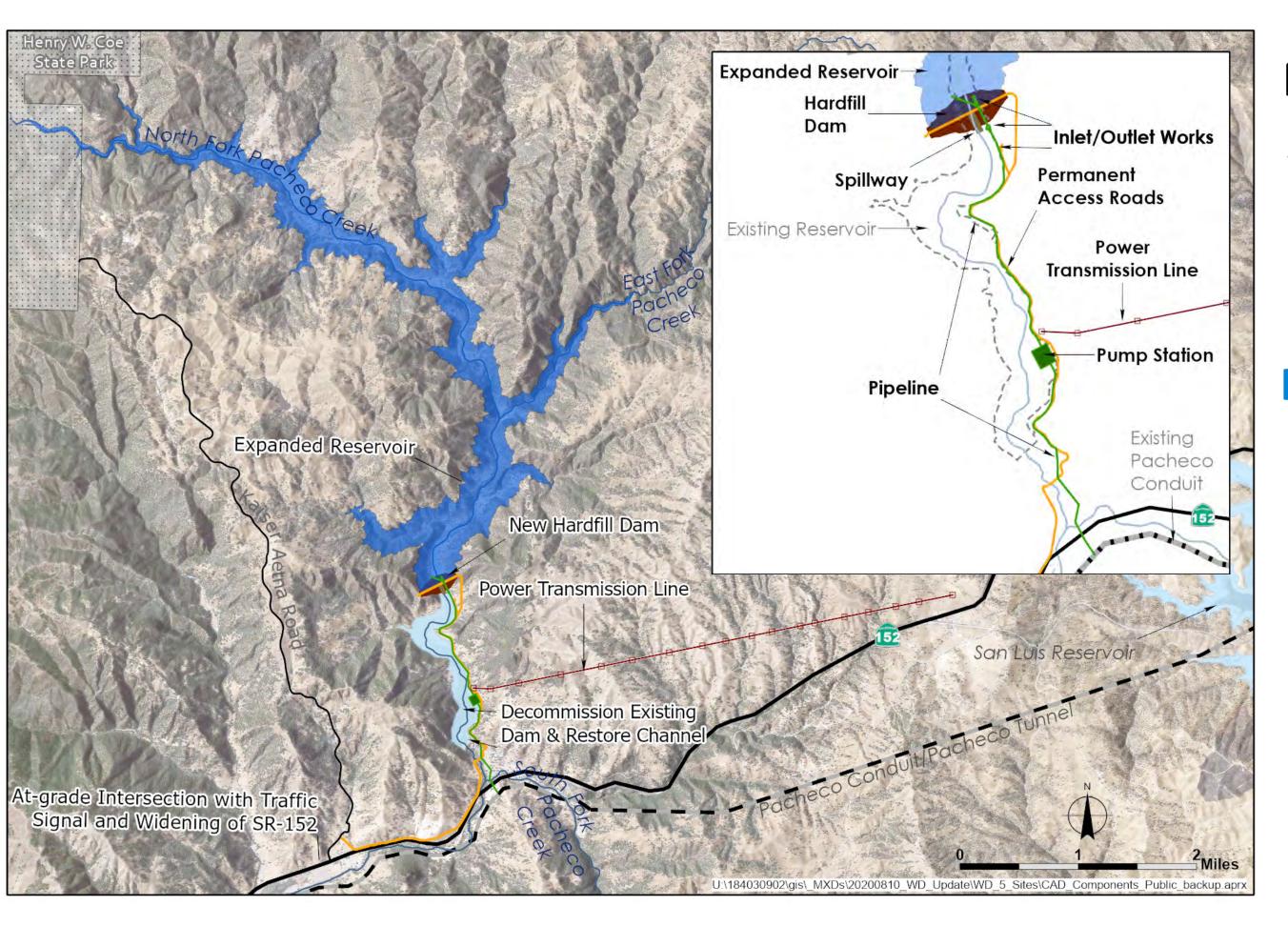
Downstream
Earthfill Dam
&
140,000
acre-foot
Reservoir



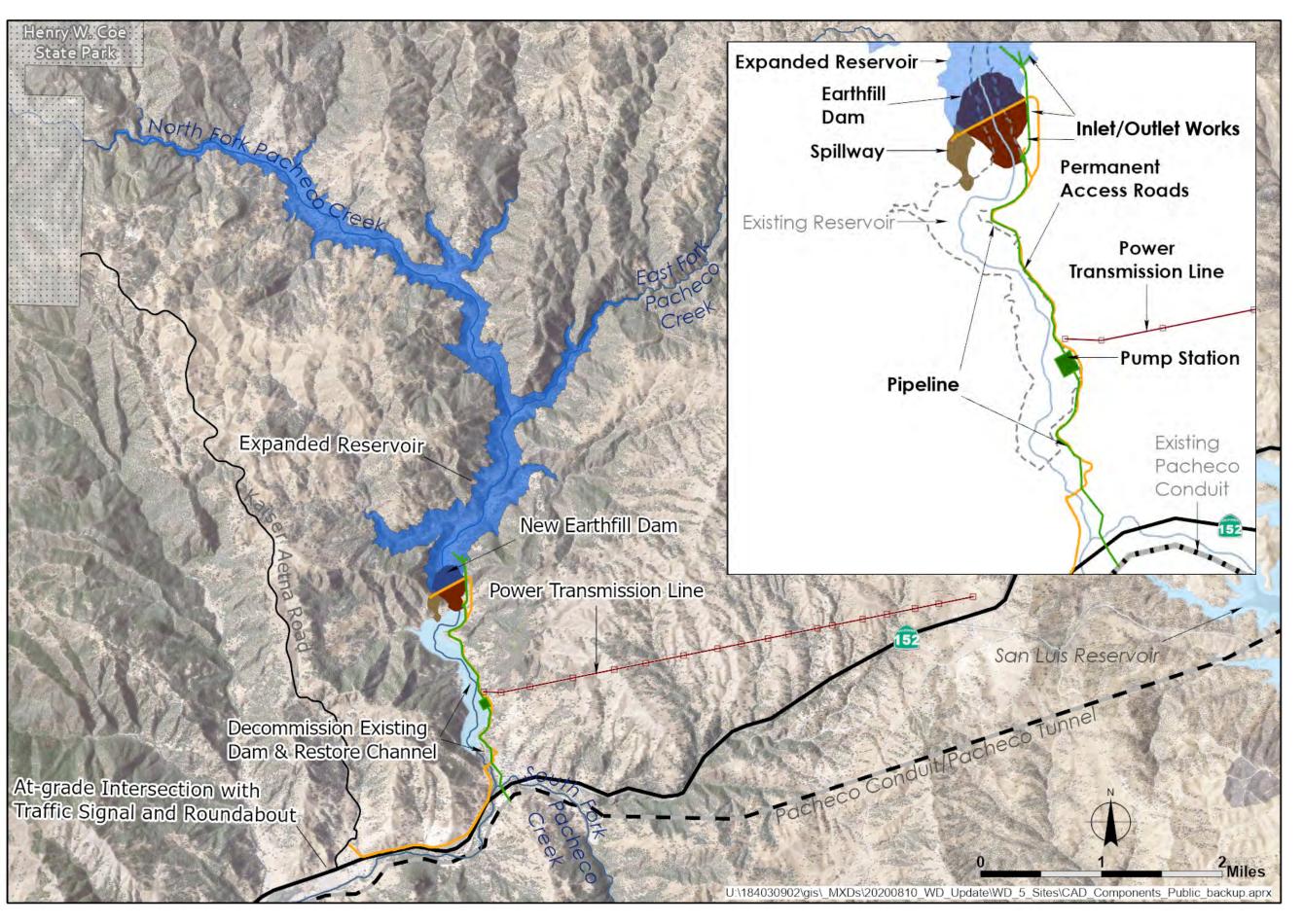
Downstream
Hardfill Dam
&
140,000
acre-foot
Reservoir



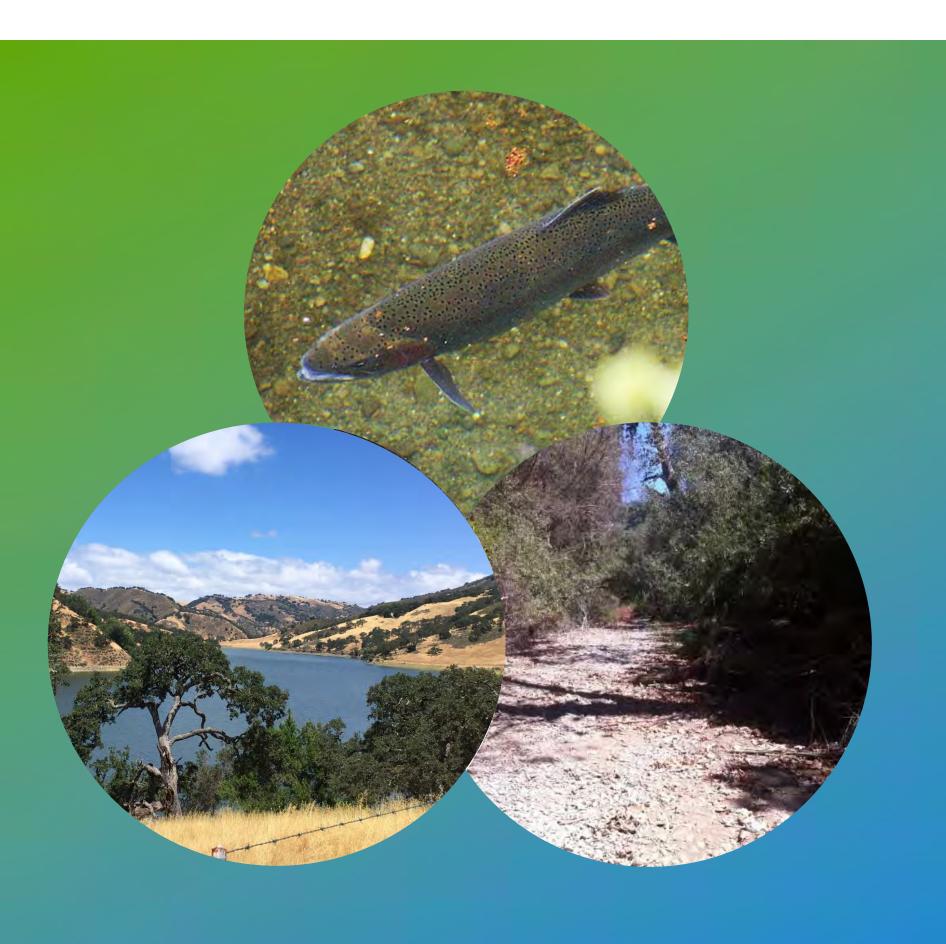
Upstream
Earthfill Dam
&
140,000
acre-foot
Reservoir



Upstream
Hardfill Dam
&
140,000
acre-foot
Reservoir



Upstream
Earthfill Dam
&
96,000
acre-foot
Reservoir



Project
Impacts to be
Assessed in the
Environmental
Impact Report
(EIR)



Pictured above: Earthfill Dam Construction in Bay Area



### **Project Activities Causing Effects**

### Reservoir Area

- Temporary:
  - Construction related activities
- Permanent:
  - Facility footprints
  - Inundation of additional areas

### **Downstream Areas**

- Short-term and Long-term:
  - Reservoir/water operations

### **Water Service Areas**

- Long-term:
  - Reservoir/water operations



Pictured above: Pacheco Creek at Cedar Creek Confluence

### Valley Water

### Physical Environment

- **Aesthetics**
- Agricultural and Forestry Resources
- Air Quality
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Mineral Resources
- Wildfire



Pictured above: Existing Pacheco Reservoir

### **Biological Resources**

- Botanical Resources
- Fisheries/Aquatic Resources
- Terrestrial/Wildlife Resources



## 33



Pictured above: Agricultural Fields/Vineyards Adjacent to Pacheco Creek

### **Human Environment**

- Land Use and Planning
- Noise
- Population and Housing
- Transportation and Traffic
- Public Services
- Utilities and Service Systems
- Recreation



# valleywater.org

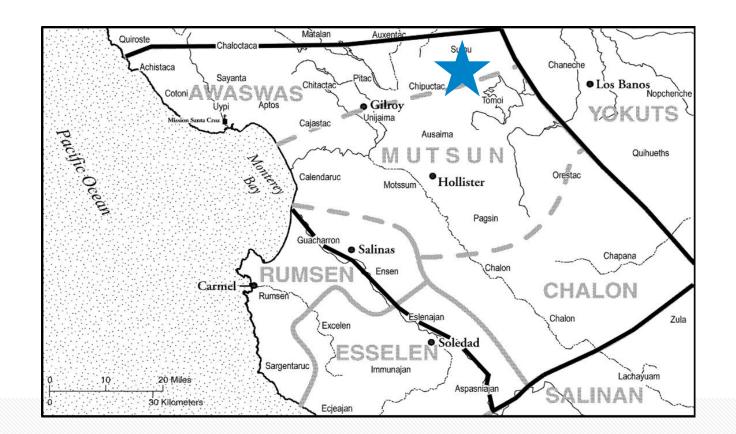


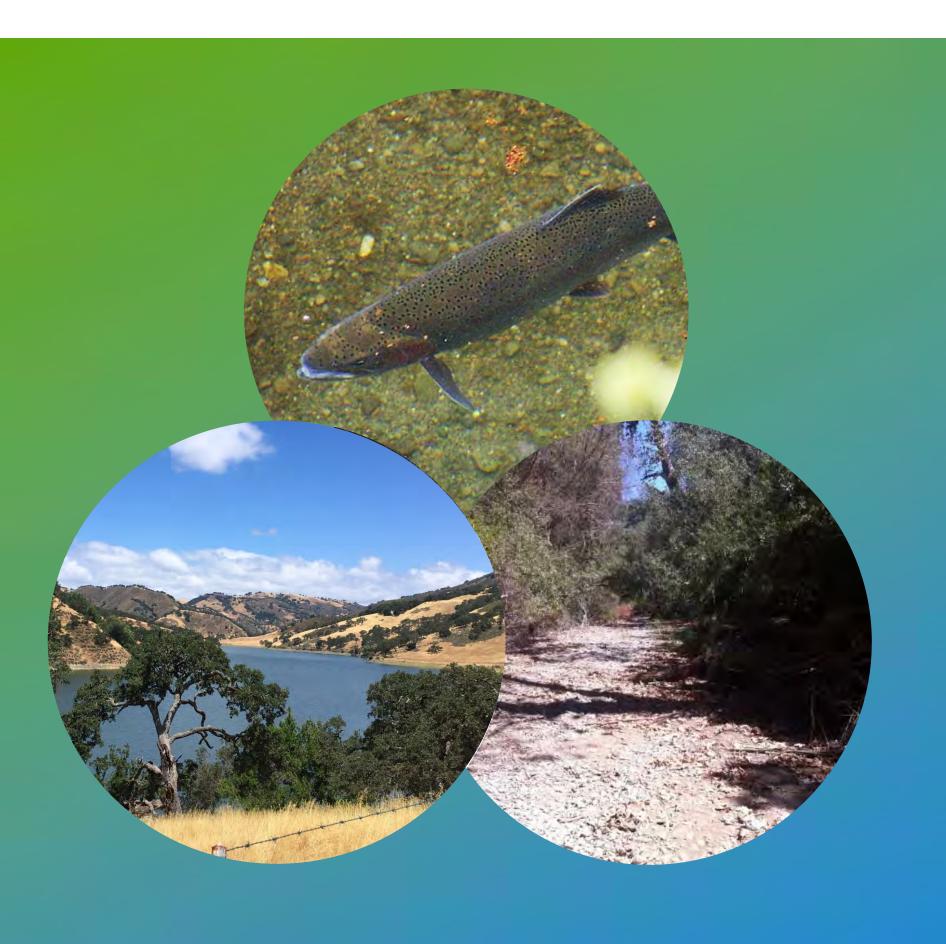
Pictured above: Existing North Fork Dam constructed in 1939

### **Valley Water**

### **Cultural and Tribal** Resources

- **Cultural Resources**
- Tribal Cultural Resources





# Additional Scoping Comment Process





Pictured above: San Felipe Lake

### **Additional Scoping Comments**

Identification of information to be included in EIR:

- Range of alternatives
- **Environmental impacts**
- Mitigation measures



### **Scoping Comment Process**





### **Additional Scoping Comment Period:**

Comments due by:

March 12, 2021



### **Written Scoping Comments:**

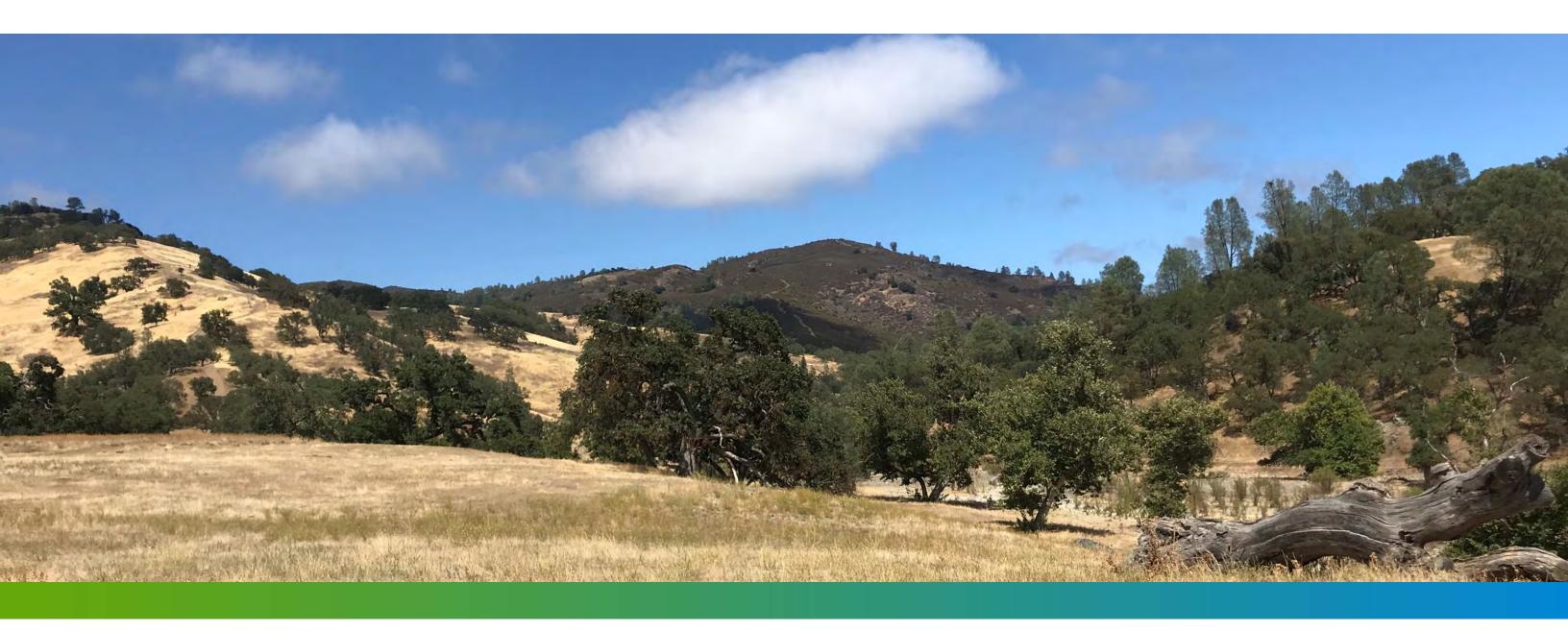
- Email:

PachecoExpansion@valleywater.org

- Letters:

Santa Clara Valley Water District Attn: Todd Sexauer 5750 Almaden Expressway San Jose, CA 95118





### **Additional Information**

https://www.valleywater.org/pachecoexpansion

Questions?

Email: PachecoExpansion@valleywater.org





### Valley Water

Clean Water • Healthy Environment • Flood Protection