

Anderson Dam Seismic Retrofit Project Update

Public Outreach Meeting | September 13, 2017

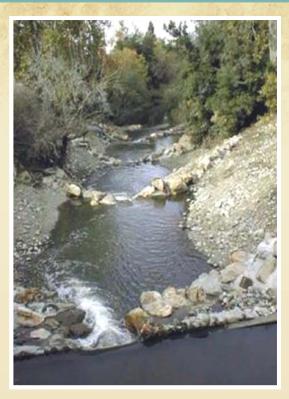
Santa Clara Valley Water District

Agenda

- About Santa Clara Valley Water District and Anderson Dam
- ► Anderson Dam Seismic Retrofit Project Update
- Question and answer session

Mission of the Water District

The mission of the Santa Clara Valley Water District is to provide Silicon Valley safe, clean water for a healthy life, environment, and economy.









Santa Clara Valley Water District serves...

2 million people

15 cities

4,700 well owners

13 water retailers



Water Supply from Imported Sources and Local Reservoirs Intricately Connected in County



Anderson Dam: Key to County Water Supply

Total Countywide Storage: 169,000 Acre-Feet



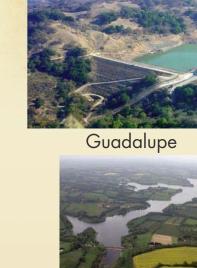
Almaden



Calero



Anderson: 90,000 Acre-Feet



Lexington



Coyote



Chesbro



Uvas



Vasona



Stevens Creek

Anderson Dam Existing Configuration

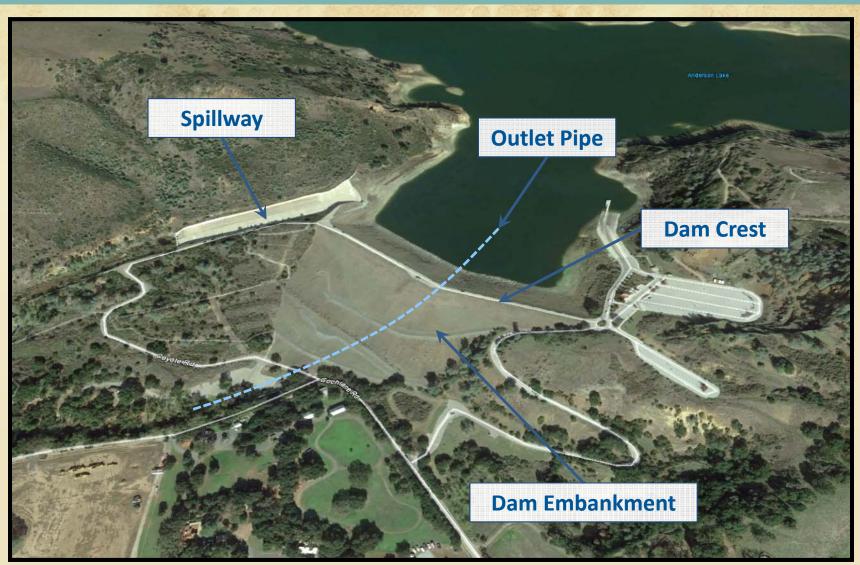
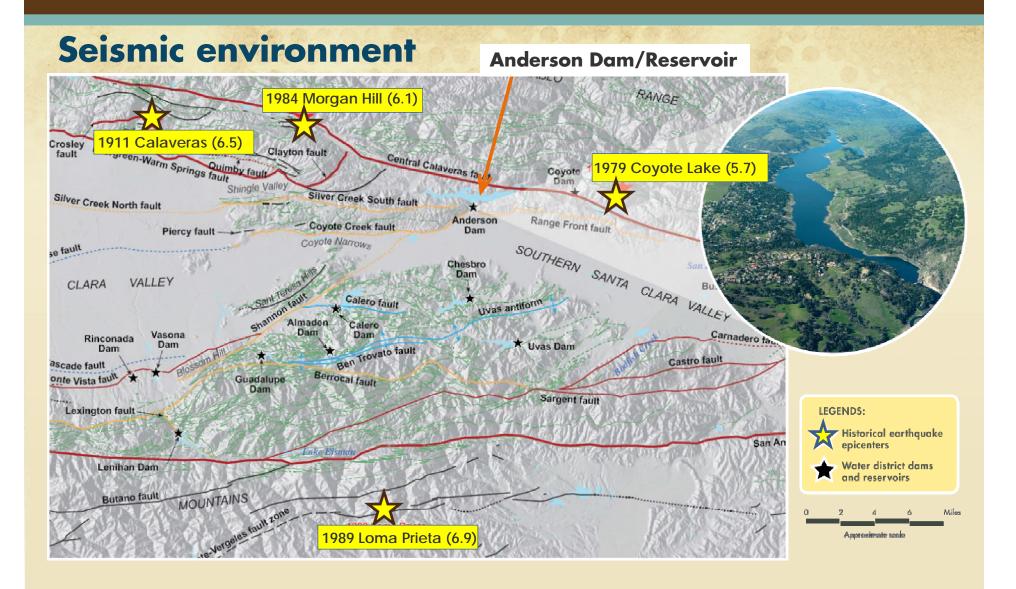


Image Source: Google Earth

Anderson Dam Deficiencies



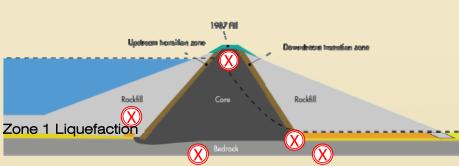
Initially Identified Deficiencies

- Magnitude 7.2 Earthquake on the Calaveras Fault or Magnitude 6.6 on the Coyote Creek Fault
 - Embankment slumps up to 25 feet due to liquefaction of lower fine fill and alluvium
 - Outlet conduit buckles up to 4 feet due to fault rupture on the Range Front Fault
- ► Changes in Regulatory Requirements (DSOD and FERC)
 - Outlet works does not meet current emergency drawdown criteria
 - Spillway undersized for Probable Maximum Flood

Additional Deficiencies Identified During Design

- ► Entire upstream shell potentially liquefiable
 - Subject to large deformations and internal erosion due to strong ground shaking and fault rupture
- ► Inadequate outlet capacity

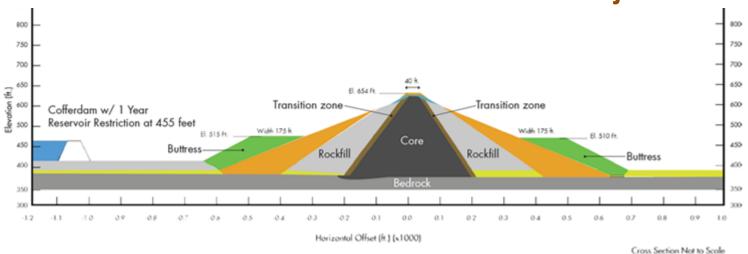




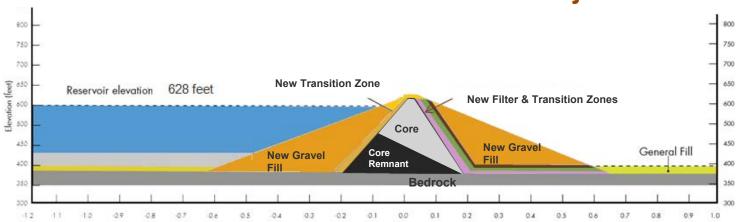
Shown: Mapped traces of Coyote Creek Fault

Modified Project

Cross-Section: 2013 Recommended Project



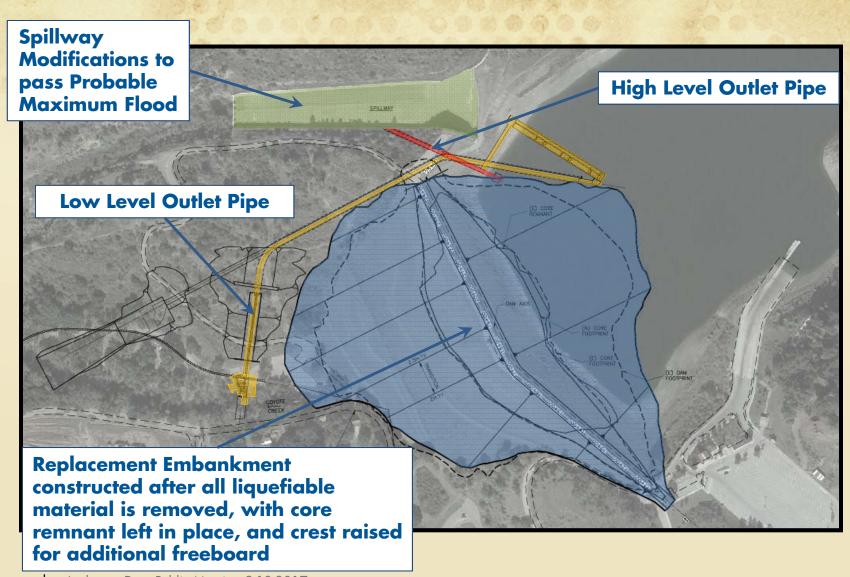
Cross-Section: 2016 Modified Project



Project Status

- ► 30% Design complete
- ➤ 30% Construction Sequencing Plan complete
- ► Environmental studies (CEQA process) are underway
- ► Upcoming geotechnical investigations to support the 60% design

Project Components



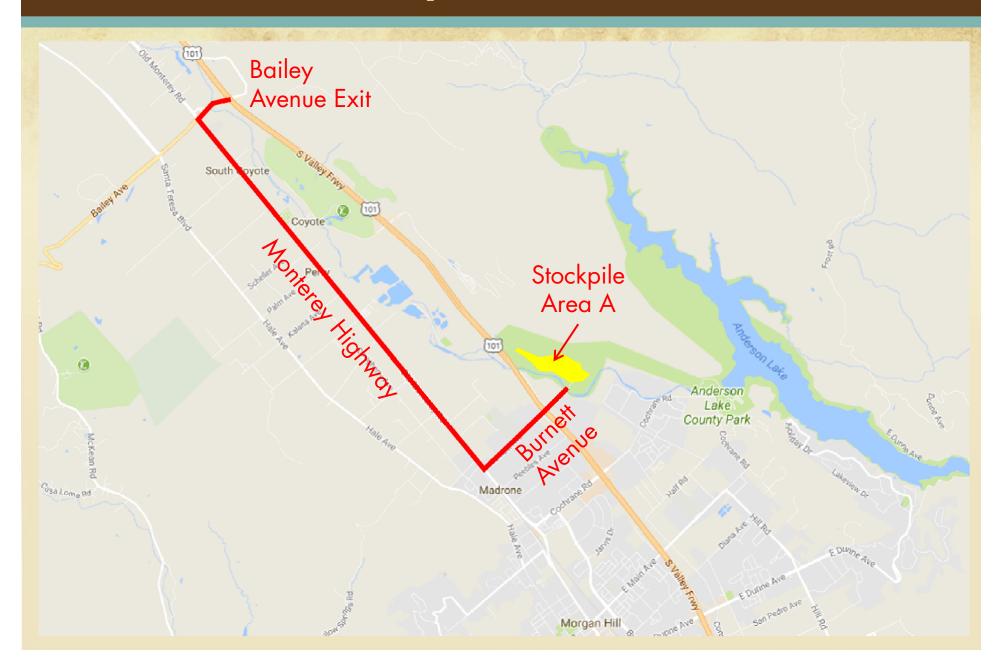
Staging and Temporary Stockpile Areas



Haul Road - Dam to Stockpile Area A



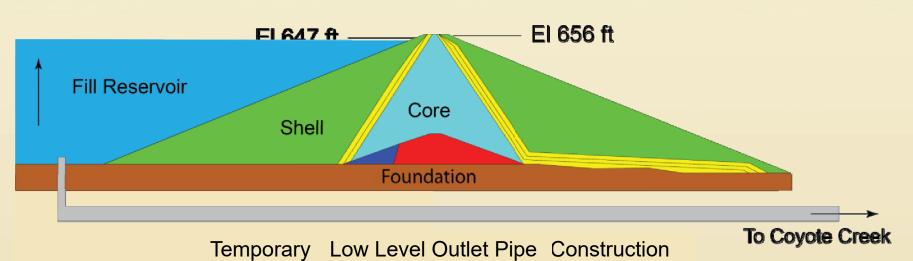
Haul Route for Imported Materials



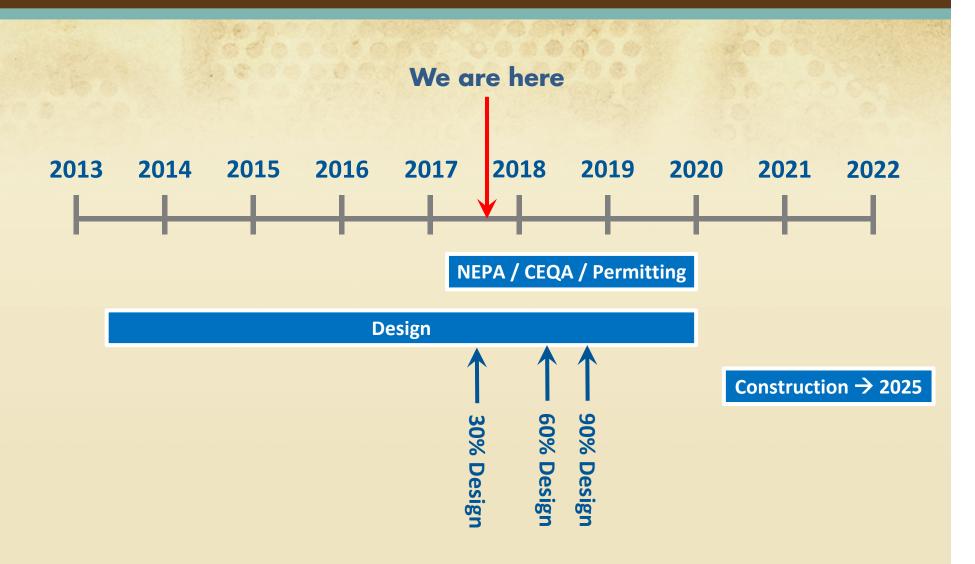
Construction Sequence



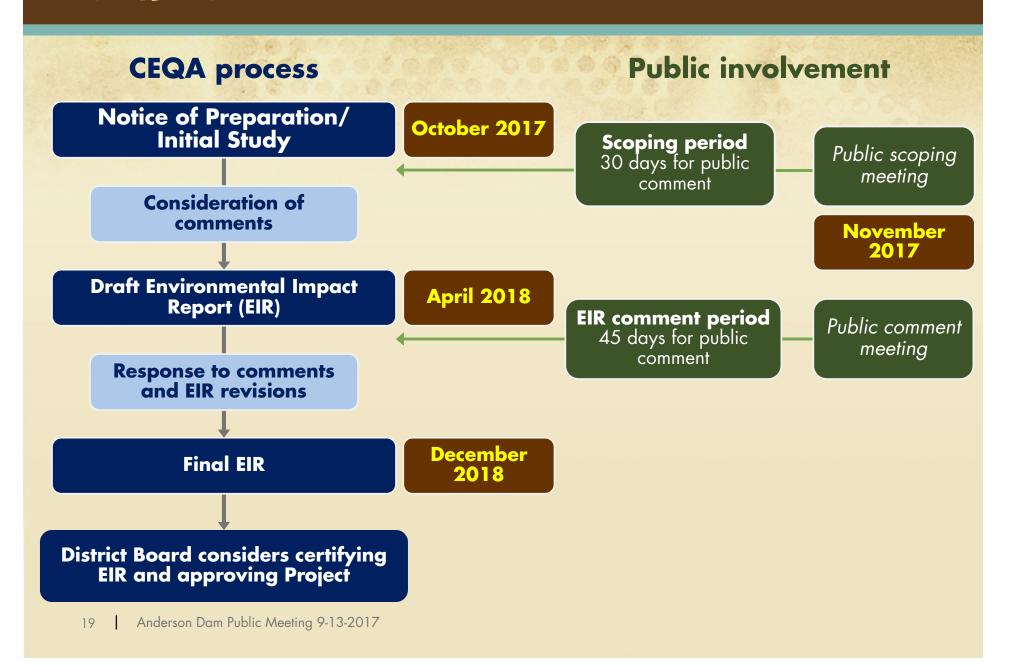
Excito Section 1



Project Schedule



CEQA Schedule



Next Steps and Public Meetings

- ► Public scoping meeting November 2017
- ▶ 60% Design Early 2018
 - Public meeting in Spring 2018
- Draft Environmental Impact Report (EIR) for Public Review - Spring 2018
 - ► Public meeting for Draft EIR Summer 2018
- **▶ 90% Design Summer 2018**
 - Pre-construction meetings in 2019-2020
- ► Start of Construction 2020

Question and answers



Stay Informed

http://www.valleywater.org/Services/ AndersonDamAndReservoir.aspx

- Sign up to receive project updates via email.
- View project reports, maps, history and other information.
- ➤ Coming later in early 2018: project blog

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