

Chabot Dam Seismic Upgrade Project

San Leandro City Council Meeting

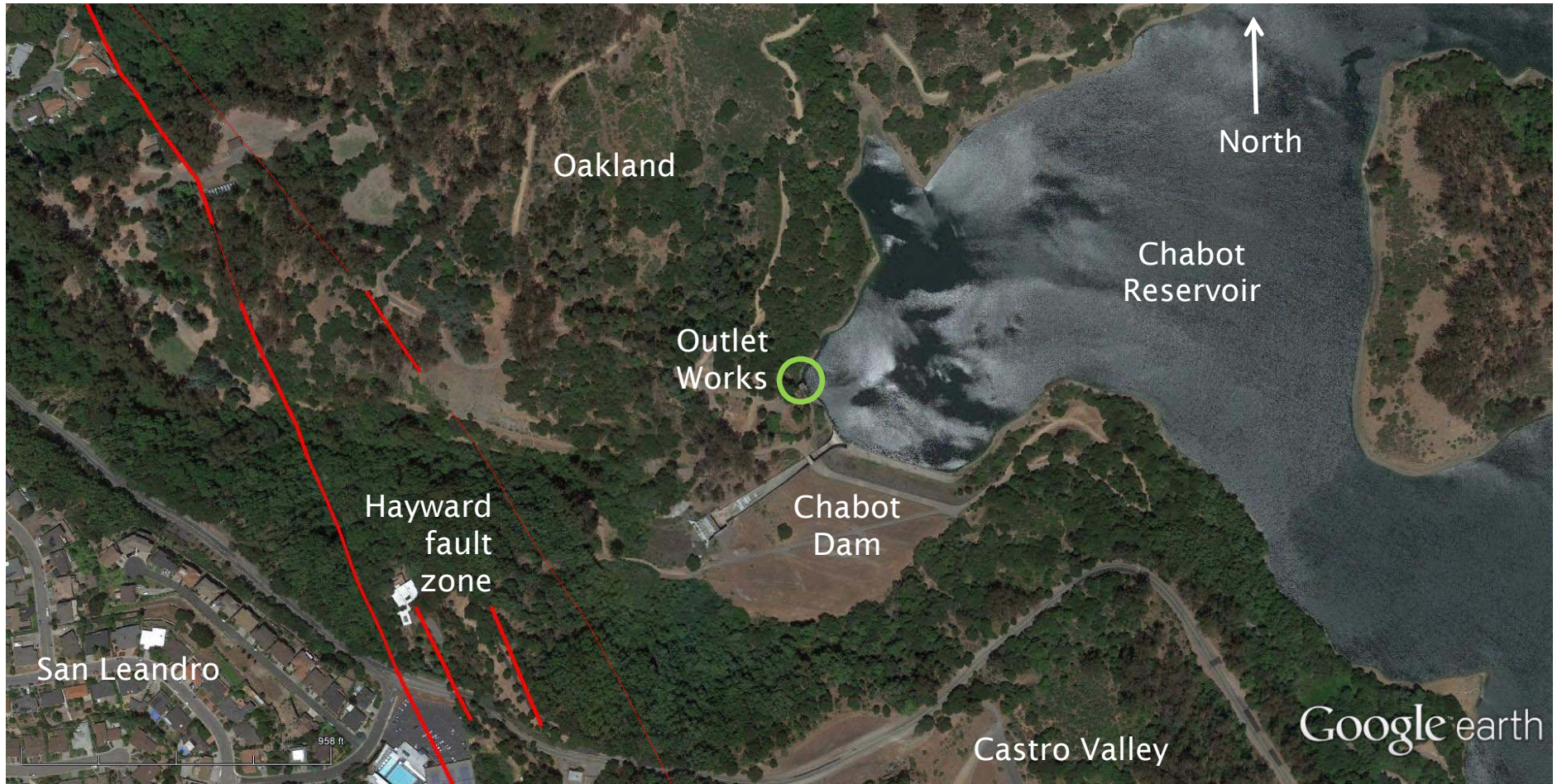
June 5, 2017

Introduction to EBMUD Staff



- Frank Mellon, EBMUD Board Member, Representing Ward 7 since 1994
- Tom Boardman, Project Manager
- Rolando Gonzalez, Community Affairs

Project Location



Chabot Dam and Outlet Works



Project Description



- DSOD directed EBMUD to re-evaluate impacts of M7.25 earthquake on Hayward fault
- EBMUD developed plans to:
 - Strengthen earth dam with CDSM toe buttress
 - Install new seepage collection trench
 - Demolish seismically vulnerable outlet tower
 - Replace intake pipeline and reservoir release valves
- Currently in construction phase

Cement Deep Soil Mixing Buttress



Seepage Trench and CDSM Buttress



5-ft Diameter Augers



During CDSM Drilling

Earthwork and Seepage Trench



Before Project



During Final Grading



During Seepage Trench

Outlet Works Retrofit



Outlet Works Retrofit



Outlet Works Retrofit



New 42" Intake Pipeline - Lakeside



During Pipeline Removal



After Pipeline Removal

2016/2017 Winter Rainfall



- Record breaking rainfall ~44" to date
- Spilled Jan to May 2017
- Delays to earthwork on dam
- Chabot fish go over spillway



San Leandro Creek below Dam

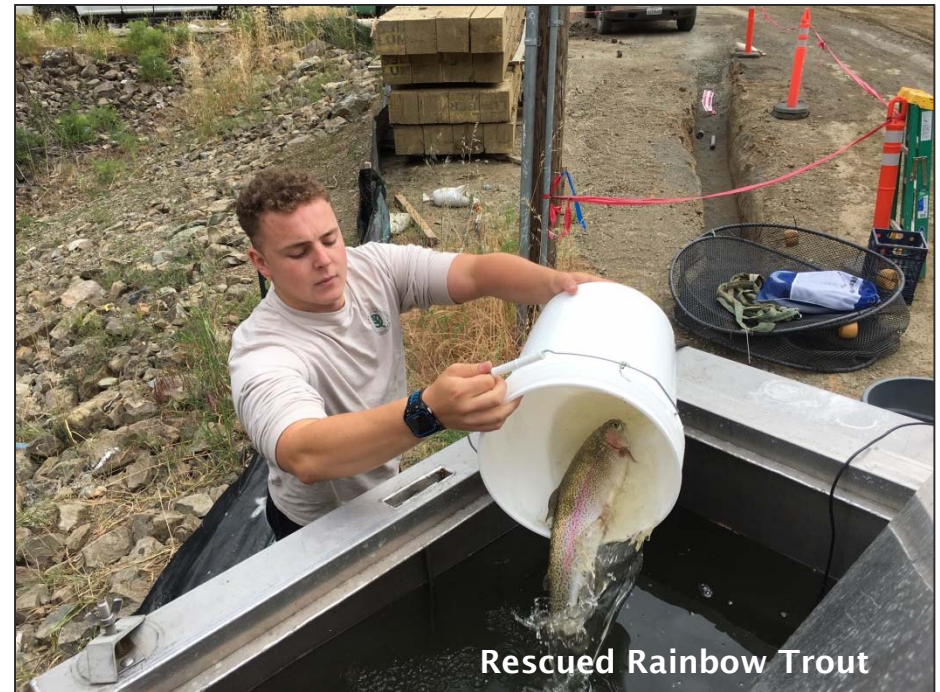


Main Spillway Jan 26, 2017

San Leandro Creek – Fish Flows



- Rescued ~80 rainbow trout; returned to Chabot
- Currently releasing ~80 gpm (0.2 cfs)
- EBMUD still working with CDFW to develop long-term strategy for fish flows in creek



Chabot Dam Upgrade Schedule



Action	Date
Close Parks/Start Field Work	May 2016
Earth Dam Upgrade Work	Jun to Nov 2016; Apr to June 2017
Outlet Works Retrofit	Dec 2016 to Aug 2017
Repave access roads/Demobilize	Aug to Sept 2017
Contract Completion/Open Parks <i>(parks closed 17 months)</i>	Oct 2017 <i>(3 month delay)</i>