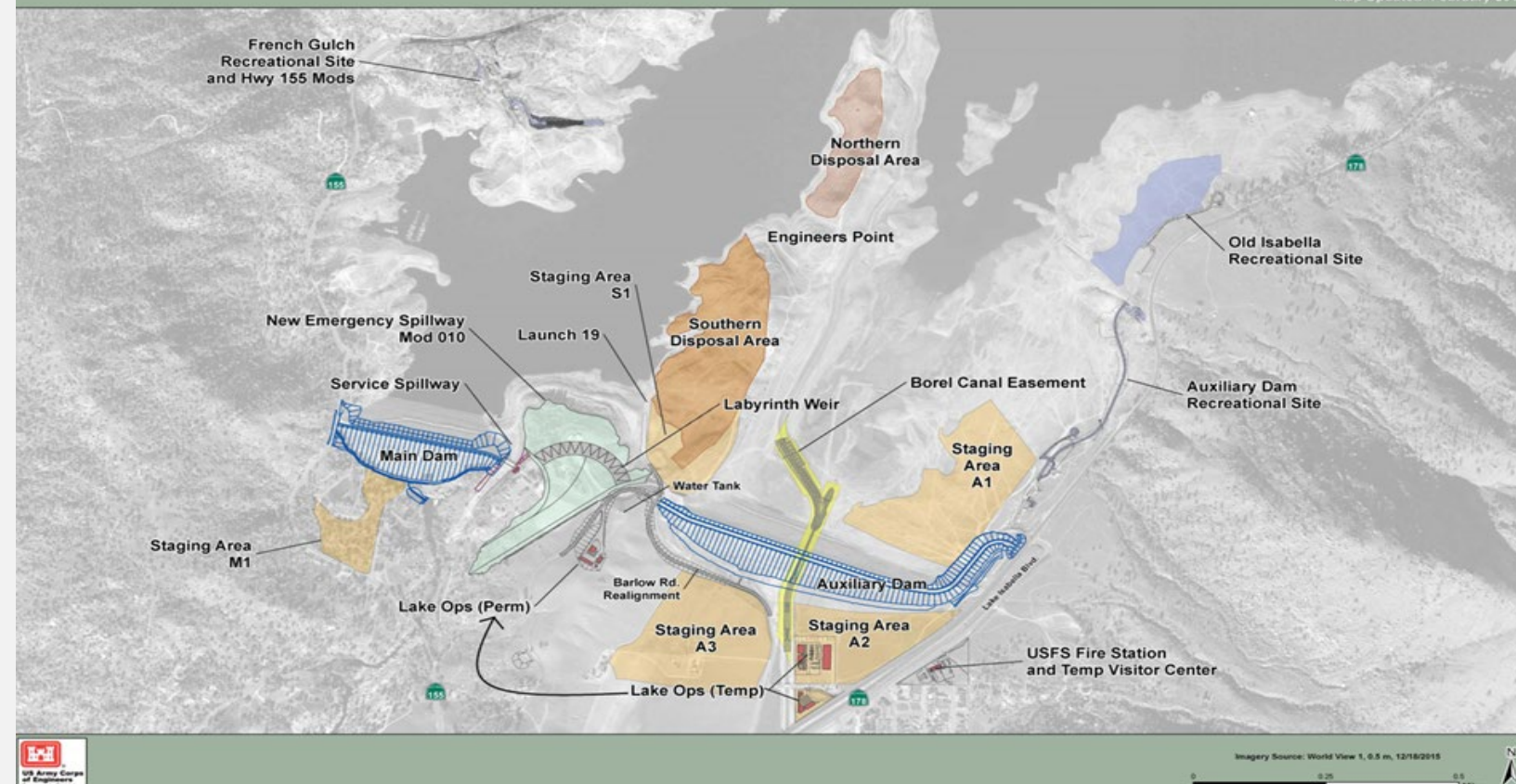




- **Project Name:** Isabella Dam Safety Modification Project
- **Congressional District:** Vacant, CA-20
- **Business Line:** Dam Safety
- **Authorization:** Flood Control Act of 1944, Pub. L. No. 78-534, § 10, 58 Stat. 887, 901 (1994).
- **Phase:** Phase II Construction Dams and Spillways
- **Problem Statement:** The project addresses three primary deficiencies: hydrologic, seismic, and seepage which could lead to significant life loss in the event of dam failure, specifically in the city of Bakersfield (pop. 407K)
- **Project Description:** The project includes relocation of facilities impacted by construction, completed over multiple phases. The work involves construction on both main and auxiliary dams, a 16 ft earthen dam raise, widening of the downstream buttress, shallow foundation treatment, and filter and drainage work. Additional work includes the construction of a new 300-foot-wide emergency spillway with labyrinth weir, recreation area improvements, and the Borel Canal decommissioning. In order to accomplish this work, more than 3.5 million cubic yards of rock and soil were blasted and excavated within the spillway.
- **Economics:** The modification project cost allocation is 15% of the original 21.7% (or 3.255%) for the irrigation interests, and 15% of the original 5% (or 0.775%) for the non-Federal hydropower beneficiaries. The appropriate cost allocation is 73.3% Federal for Flood Control, 21.7% non-Federal for irrigation storage, and 5% for Non-Federal Hydropower.
- **Cost:** Phase II Dams and Spillways \$340M construction cost; Total project cost all Phases (November 2023) = \$630.8M; Section 902 Limit = \$832M. Project is tracking for completion within the authorized BBA budget.
- **Cost Share:** 100% Federal for flood control/ 100% Non-Federal for irrigation storage and hydropower

ISABELLA LAKE DAM SAFETY MODIFICATION PROJECT
APPROVED PLAN

Map Updated: February 2017



**Achievements:**

- Modifications to the Auxiliary Dam embankment included foundation excavation and placement of a multi-zoned full-height earthen buttress and 16-foot crest raise. The project reached completion of the Main Dam embankment modifications that included a full-height multi-zoned overlay and 16-foot crest raise. Finally, the project reached completion of the new 28-foot-high Labyrinth Weir and completed the 3.5 million CY excavation of the new Emergency Spillway marking dam safety modifications substantially complete on 25OCT2022. This important achievement provides the ability of the new and modified infrastructure to reduce dam safety risk classification from DSAC-1 to DSAC-4 (approved by DSOG JUN2023).
- The DSAC change allowed USACE and the downstream water interests to take advantage of the over 300% of average snowpack to perform a first filling in spring/summer 2023.

Other Project Information:

- Current Contract Value \$340M.
- 99% complete.
- Construction physically complete 31JUL2023, punchlist and closeout submittals ongoing, to be complete 30SEP2024.
- Post implementation evaluation complete JUL2023.

Schedule by each phase or increment:

- **PHII Dams and Spillways**
 - Design Start: December 2012
 - Design Finish: July 2016
 - Contract Award: 18SEP2017
 - NTP: 18JAN2018
 - Substantial Completion: 25OCT22
 - DSAC Rating Change: 12JUN23
 - Construction Finish: 31JUL2023
- **Relocations**
 - USACE Permanent Ops Facilities Contract Award: 07APR2023
 - USFS Visitor Center Contract Award: 16AUG2024

