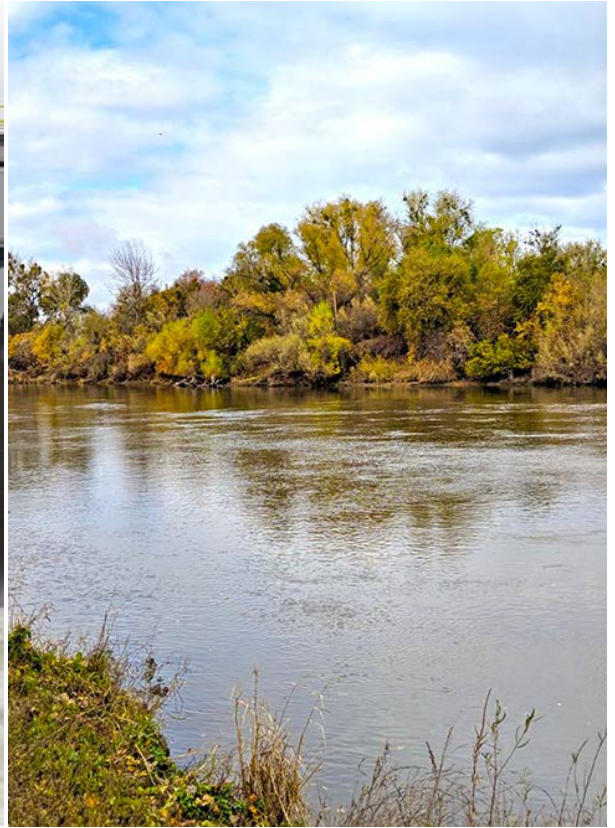


**Reinitiation of Consultation on
the Coordinated Long-Term
Operation of the Central Valley
Project and State Water
Project
(*ROC on LTO*)**

**Draft Environmental Impact Statement
Public Meetings
July 30 – August 1, 2019**

Project Overview

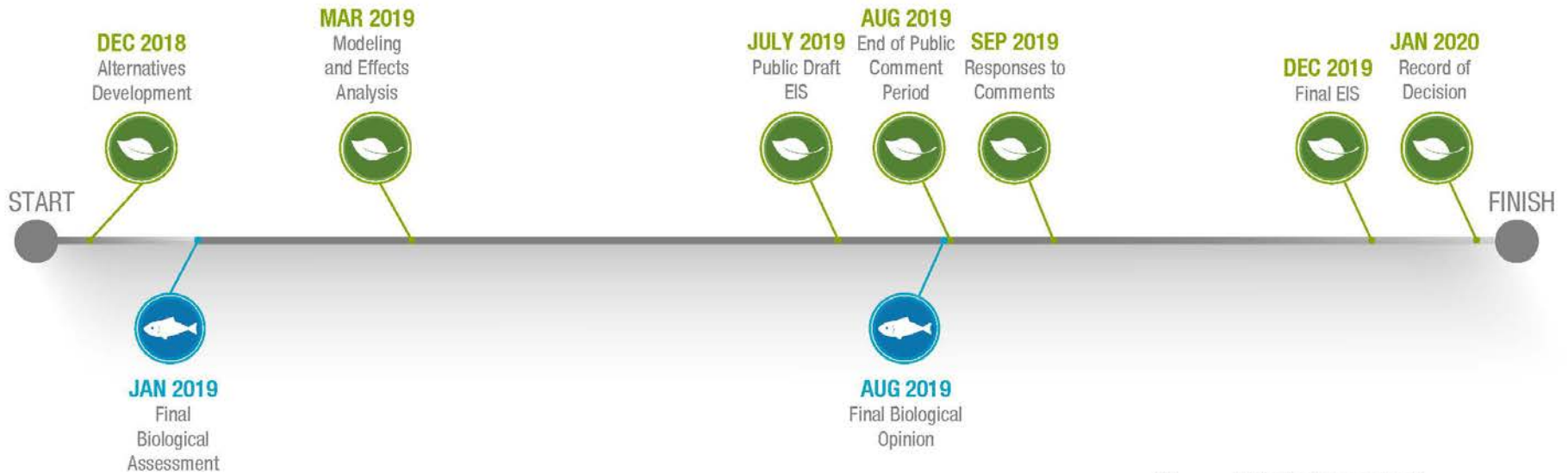


Environmental Compliance

- **The National Environmental Policy Act (NEPA) helps identify and disclose environmental impacts of a proposed action**
- **NEPA Compliance is required for actions that require federal funding, permits, policy decisions, or actions**
- **Bureau of Reclamation (Reclamation) is the lead agency for NEPA compliance**

Timeline

ESA / NEPA SCHEDULE



- BA = Biological Assessment
- BO = Biological Opinion
- ROD = Record of Decision
- EIS = Environmental Impact Statement

Purpose and Need

- The purpose of the Proposed Action is to continue the operation of the CVP and State Water Project (SWP) to maximize water deliveries and optimize marketable power generation consistent with applicable laws, contractual obligations, and augment operational flexibility by addressing the status of listed species.
- The need for the Proposed Action is to use updated scientific information to better meet the statutory responsibilities of the CVP and SWP.

Overall Project Area



Primary Resources of Concern

- **Water Quality – river flows**
- **Water Supply – deliveries**
- **Groundwater – levels**
- **Air Quality – power generation and energy use**
- **Aquatic Resources – temperature, flows, habitat**
- **Terrestrial Resources – riparian habitat**
- **Cultural Resources – construction and restoration**
- **Regional Economics – water costs, farming, fishing**
- **Power - power generation and energy use (pumping)**

Different Fisheries Strategies

Fish Intervention

Predict adverse conditions and implement standard contingency plans to address potential extinction risks to fish populations.



Non-Flow

Promote production of sufficient numbers of juveniles per adult to enable the rebuilding of fish populations.



Flow

Operate water projects to support adult returns.



Alternatives Analyzed in EIS

- No Action:

- Current operations – 2008/2009 Biological Opinions

- Alternative 1 (Proposed Action):

- Combination of flow-related actions, habitat restoration, and intervention measures



- Alternative 2:

- Flows required by existing legal decisions



- Alternative 3:

- Flows required by existing legal decisions
- Habitat restoration and intervention components



- Alternative 4:

- Components to increase flows in tributaries and the Delta
- Balance flow releases with storage to help with temperature management



Proposed Action (Alternative 1)

Combination of flow-related actions, habitat restoration, and intervention measures

1. Shasta Cold Water Pool Management



2. Old and Middle River-Based Entrainment Management



3. Summer/Fall Delta Smelt Habitat



4. Habitat Restoration



5. Facility Modification

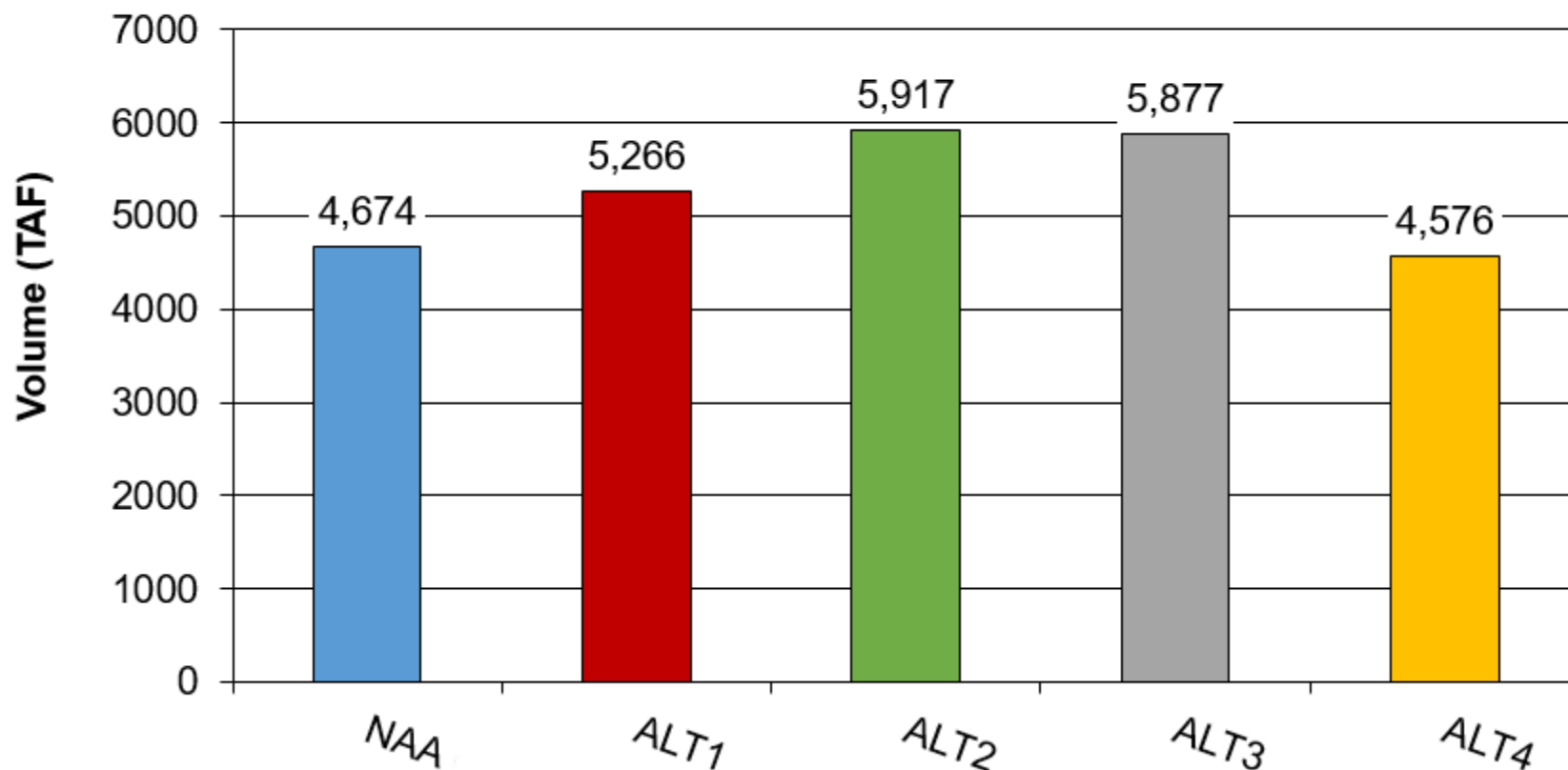


6. Intervention



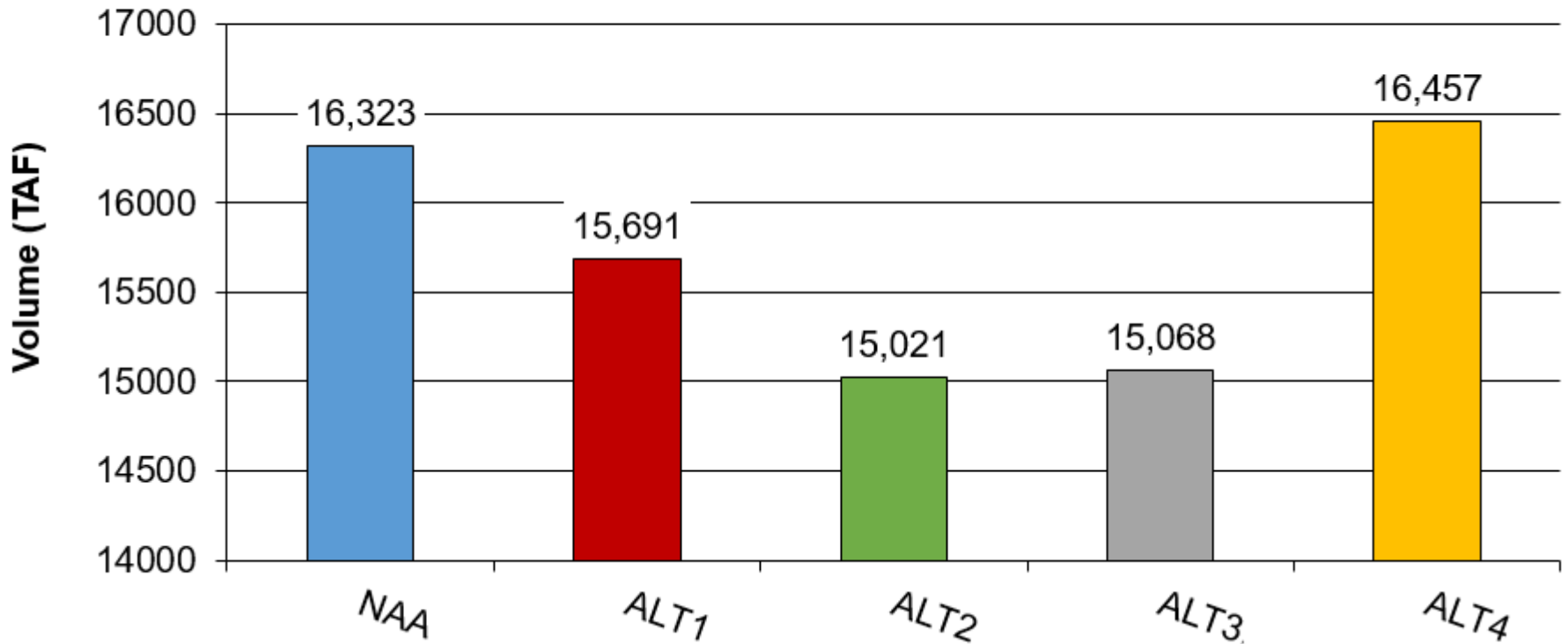
Water Supply Effects

March-February Total Exports SWP and CVP Averages

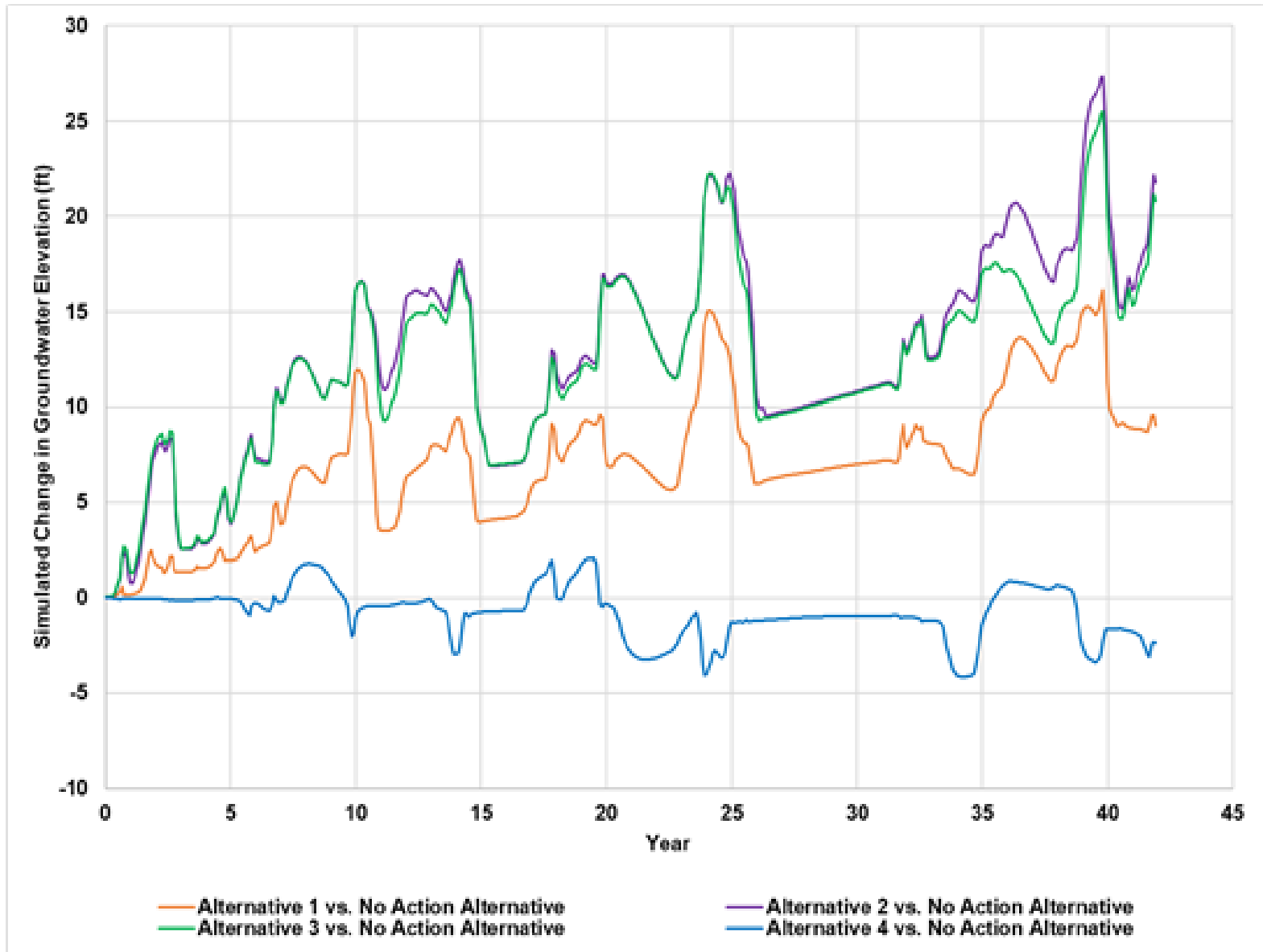


Delta Outflow Effects

March-February Delta Outflow (Total) Averages



Groundwater Effects



How to Submit Comments

Today:

- **Public Comment Session Oral**
- **Fill out a comment form**

Submit written comments via

- **Email: sha-mpr-bdo@usbr.gov**
- **Mail: Reclamation Bay-Delta Office
801 I Street, Suite 140
Sacramento, CA 95814-2536**

All comments must be submitted by August 26, 2019



Thank you!

RECLAMATION
Managing Water in the West

Detailed Slides

Alternative 1 Details

Combination of flow-related actions, habitat restoration, and intervention measures

1. Shasta Cold Water Pool Management

- Applying contemporary science to manage the available cold water
- 4-Tier approach targeting cold water on critical stages of winter-run Chinook egg development

3. Old and Middle River-Based Entrainment Management

- Negative 5000 cfs cap to reduce impact on Sacramento River fish
- Flexibility to adjust based on storms and fish presence

4. Summer/Fall Delta Smelt Habitat

- Collaborative science approach to improve critical habitat
- Operation of Suisun Marsh Salinity Control gate
- Increase outflow when necessary for salinity targets

Alternative 1 Details (cont.)

5. Habitat Restoration

- Spawning gravel augmentation on rivers
- Restoration of wetlands and tidal marshes
- Predator abatement

6. Facility Modification

- Improvements to fish collection facilities
- Improvements to temperature management devices
- Install fish screens

7. Intervention

- Drought measures
- Trap and haul fish
- Increased winter-run Chinook hatchery production