

**PUBLIC WORKSHOP
2021 SACRAMENTO RIVER TEMPERATURE
MANAGEMENT**



CALIFORNIA

Water Boards

STATE WATER RESOURCES CONTROL BOARD

REGIONAL WATER QUALITY CONTROL BOARDS

APRIL 21, 2021

Purpose of Workshop

- Inform State Water Resources Control Board (SWRCB) consideration of the U.S. Bureau of Reclamation's (Reclamation) 2021 Sacramento River Temperature Management Plan (TMP)
- Provide an update on Sacramento River temperature management planning activities and next steps
- Receive technical information from agency and stakeholder representatives
- Receive public comment

Agenda – Agency Presentations

- Agency Panel
 - Introduction – SWRCB Staff
 - Hydrology Update – Reclamation and CA Department of Water Resources (DWR)
 - Fish Conditions and Status – CA Department of Fish and Wildlife and National Marine Fisheries Service (NMFS)
 - Reclamation Proposed Action/Biological Opinion – Reclamation
 - Factors Affecting Temperature Dependent Mortality – NMFS Southwest Fisheries Science Center
 - Development of Draft TMP – Reclamation and NMFS

Agenda – Other Presenters

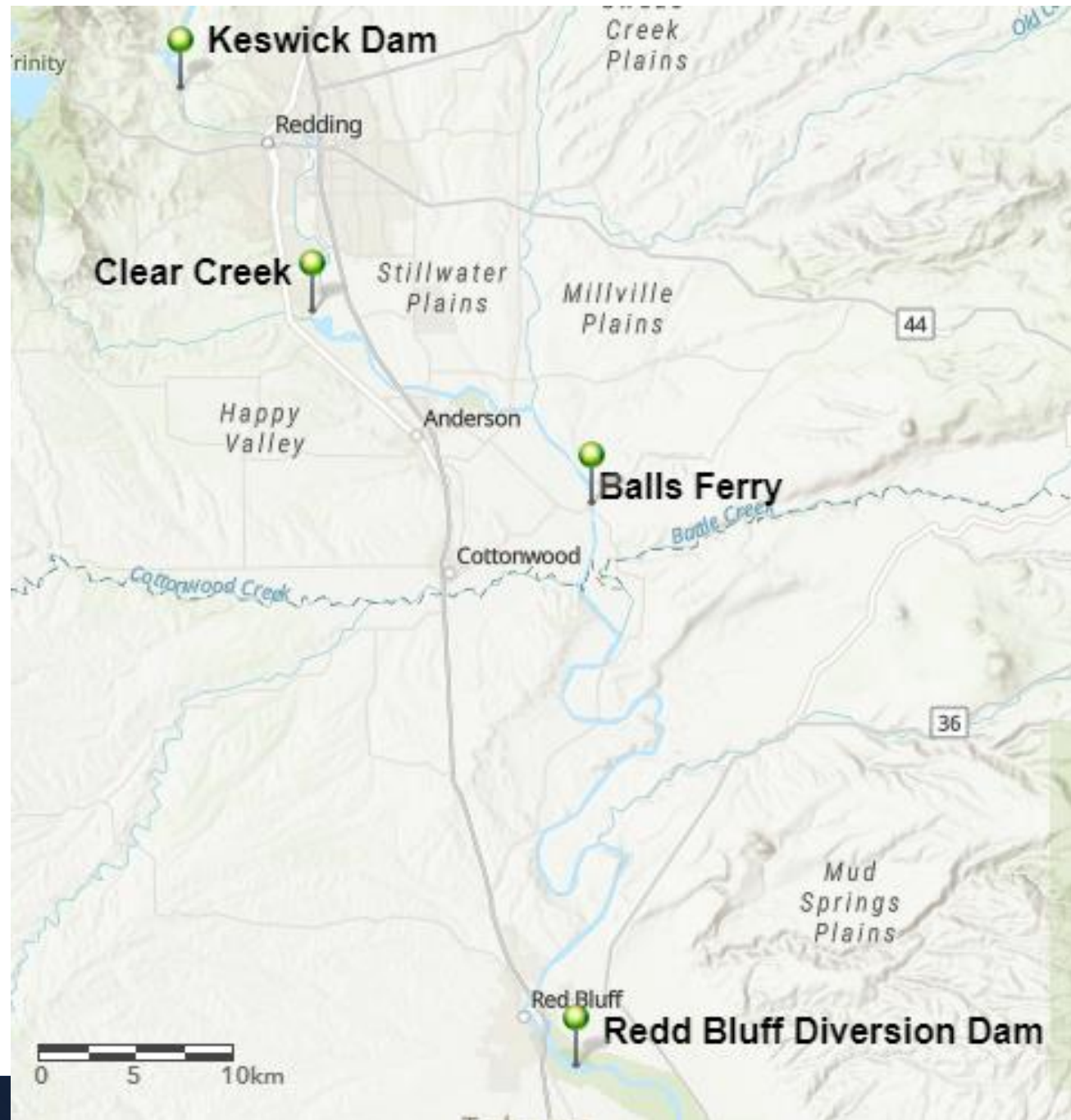
- Panel Presentations
 - Sacramento River Settlement Contractors
 - Golden State Salmon Association and Pacific Coast Federation of Fishermen's Associations
 - San Francisco Bay Keeper, Natural Resources Defense Council, and The Bay Institute
 - California Sportfishing Protection Alliance, California Water Impact Network, and AquAlliance
 - Sacramento Water Forum
- Public Comment

SWRCB Order 90-5 Requirements

- Partially implements water quality objectives on the upper Sacramento River
 - Required the installation of Temperature Control Device (TCD) on Shasta Dam
 - Requires Reclamations to take actions within its reasonable control to meet temperatures on the Sacramento River for the protection of fish
- Monitoring and reporting provisions- temperature, turbidity, dissolved oxygen, and flow
- Minimum bypass flows of 3,250 cubic-feet per second from September through February, except critical years
- Discharge ramping rates out of Keswick Dam
- Measures to avoid impacts to Trinity River salmon from Sacramento River temperature operations

Order 90-5 Temperature Requirements

- Requires 56° Fahrenheit ~60 miles below Keswick Dam at Red Bluff Diversion Dam (RBDD)
- Reclamation may propose a new compliance point when factors outside its reasonable control prohibit compliance at RBDD
 - Requires submittal of a TMP with strategy for temperature control
 - SWRCB has 10 days to object to TMP



Temperature Management Considerations

- Primary species of concern
 - Endangered Winter-run Chinook salmon
 - Commercially important Fall-run Chinook salmon
- Issues of concern
 - Mortality, life history diversity, and spatial diversity for salmon
 - Temperature impacts on spawning, egg incubation, and rearing
 - Redd dewatering and stranding from flow fluctuations
 - Sacramento River and systemwide water supply management for multiple purposes
 - Carryover storage
 - Hydropower operations

Coordination to Date

- Late winter/early spring – identification of likely temperature concerns and associated winter-run/fall-run Chinook salmon mortality and other management concerns
- Early spring – Reclamation, fisheries agencies, DWR, SWRCB coordination
 - Evaluation of factors affecting temperature related mortality
 - Evaluation of early season actions and coordination on implementation criteria
 - Evaluation of other actions
- Early spring – Consultation with Sacramento River Settlement Contractors on voluntary actions
- At least monthly – Consultation with Sacramento River Temperature Task Group (SRTTG)

Next Steps

- Input from SWRCB Workshop
- SRTTG meeting - April 22
- Draft TMP – Late April
- Review, input, and refinement of Draft TMP
- Final TMP – Late May
- SWRCB Action on Final TMP – within 10 days of submittal

Questions?