

SUTTER BUTTE FLOOD CONTROL AGENCY OVERVIEW OF ACTIVITIES



Yuba City Council Briefing
June 15, 2021

PRESENTATION OVERVIEW

(MICHAEL BESSETTE, EXECUTIVE DIRECTOR)

- Sacramento River Flood Control System
- Sacramento/Feather River Flood Management
- SBFCA Background
- SBFCA Projects
- Q&A





SACRAMENTO RIVER FLOOD CONTROL SYSTEM



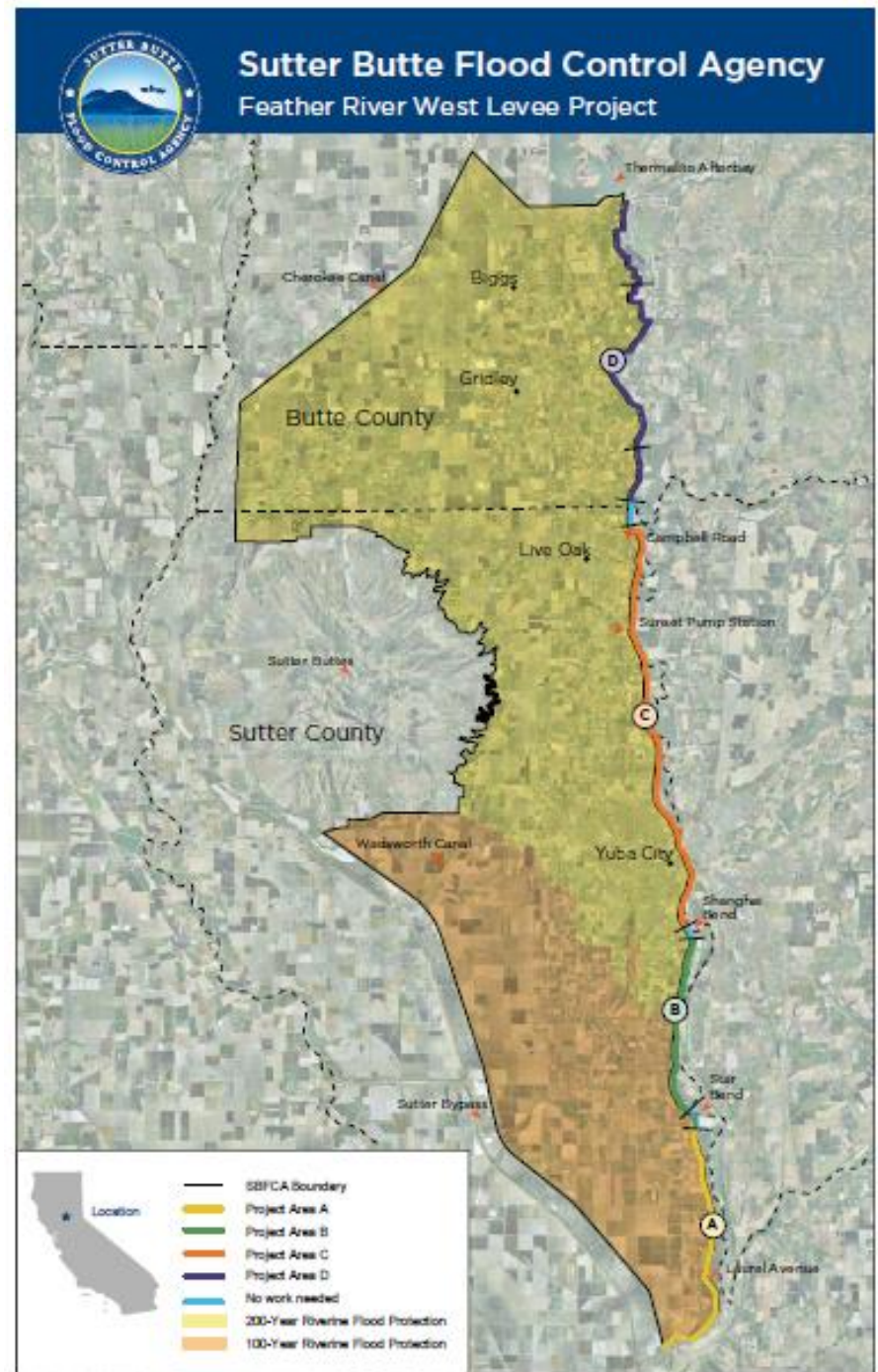
SACRAMENTO/FEATHER RIVER FLOOD MANAGEMENT: A BRIEF HISTORY

- Natural setting
- Native Americans
- Pioneer Farmers
- Hydraulic Mining Impacts
- Modern system
- Reservoir construction
- And in quick succession...
 - Paterno Decision (2003)
 - Hurricane Katrina (2005)
 - Bonds 1e and 84 (2007)
 - Senate Bill 5 (2007)
 - Central Valley Flood Protection Plan (2012, 2017, every 5 years)
 - State/Local implementation of flood projects



SUTTER BUTTE FLOOD CONTROL AGENCY

- Joint Powers Agency (JPA)
- Created in September 2007
- 300 square miles, 95,000 people, \$7B assets
- Regional approach for finance and construction of flood control projects
 - Slow, costly traditional Federal process
 - Prop 1e and 84
- Prop 218 Assessment District election in 2010

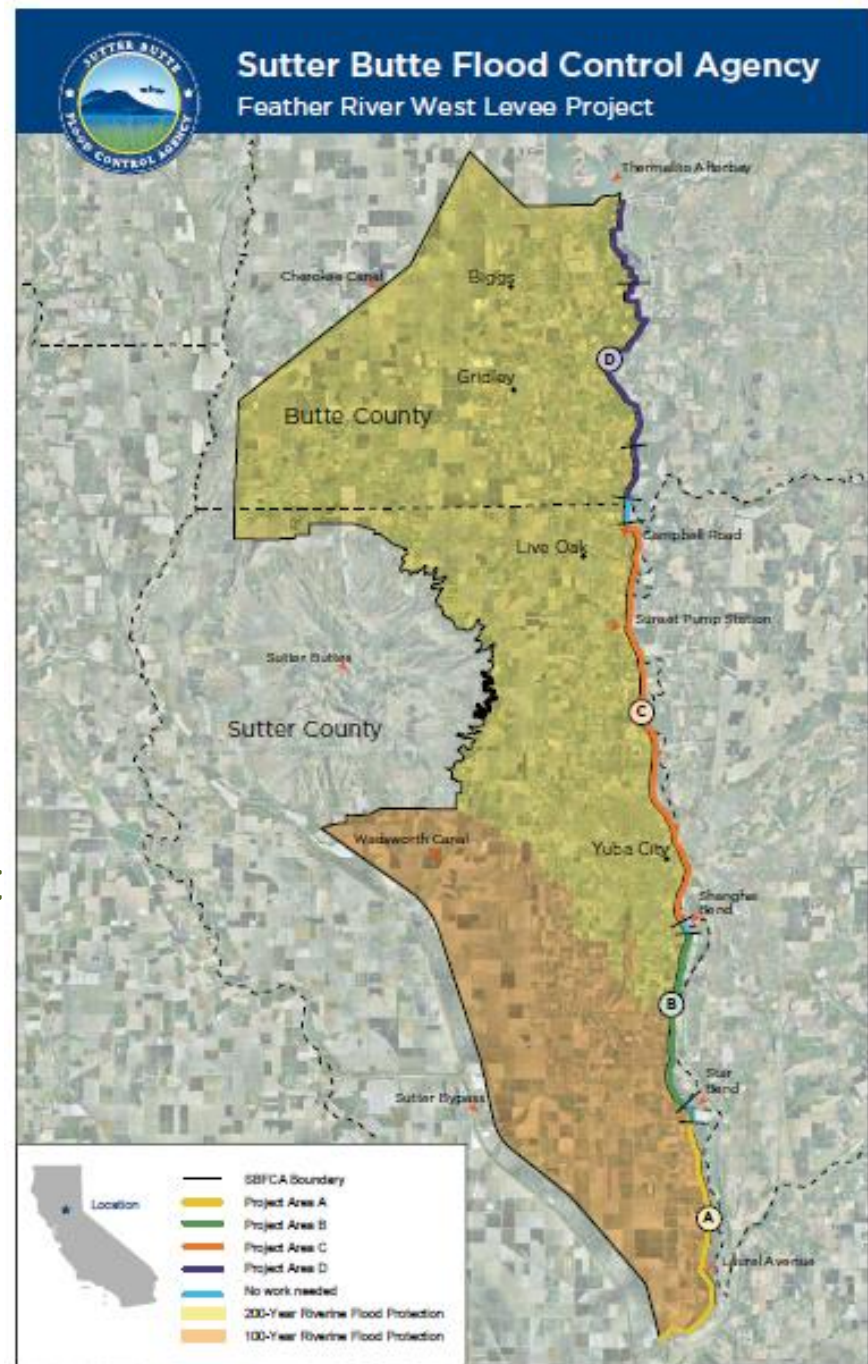


SBFCA VISION

Vibrant communities and rural areas that are protected from the consequences of catastrophic, riverine flooding

SBFCA GOALS

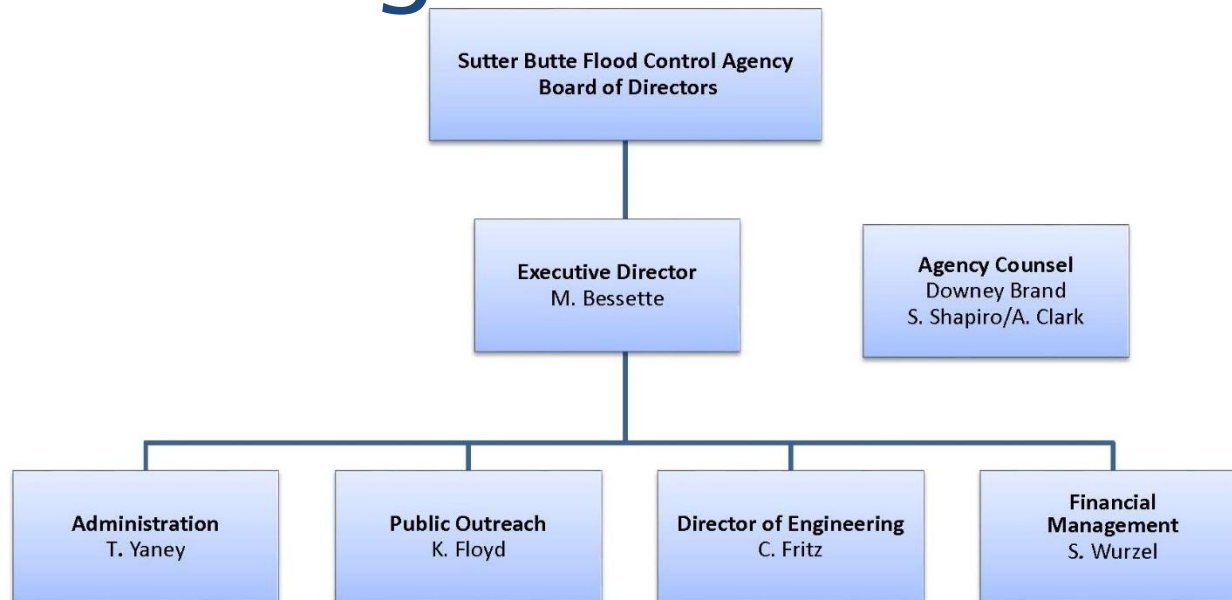
- 200-yr protection for urban areas
- 100-yr protection or equivalent for rural, southern portion of basin



Program Approach

- SBFCA lead agency for levee rehabilitation
- Work accomplished through parallel efforts:
 - Construction in advance of Corps via State/local funding
 - Collaboration with Corps Civil Works Program
- Strategic Plan (2016, 2018, new update in 2021)

Organization



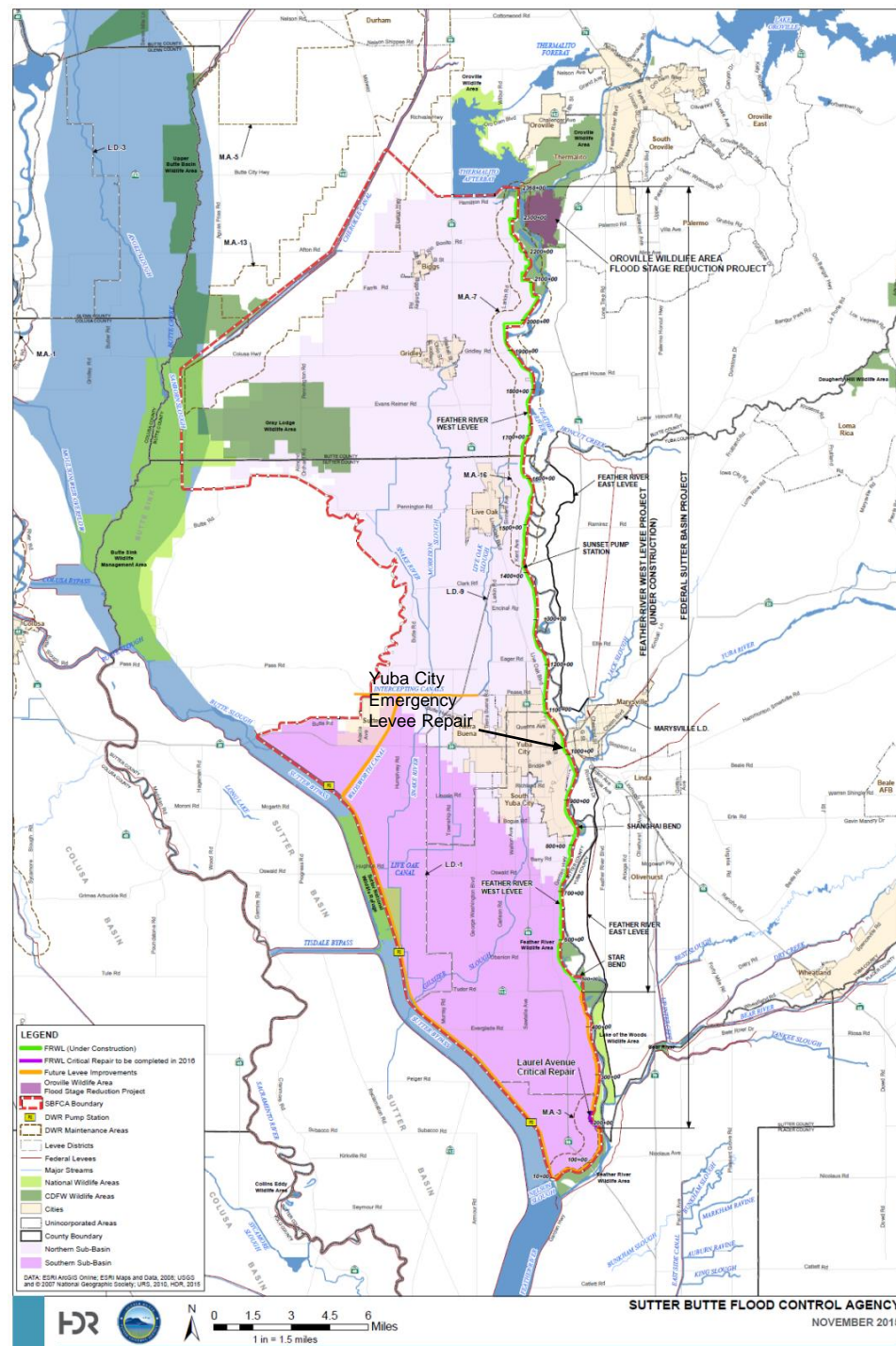
Projects

SBFCA

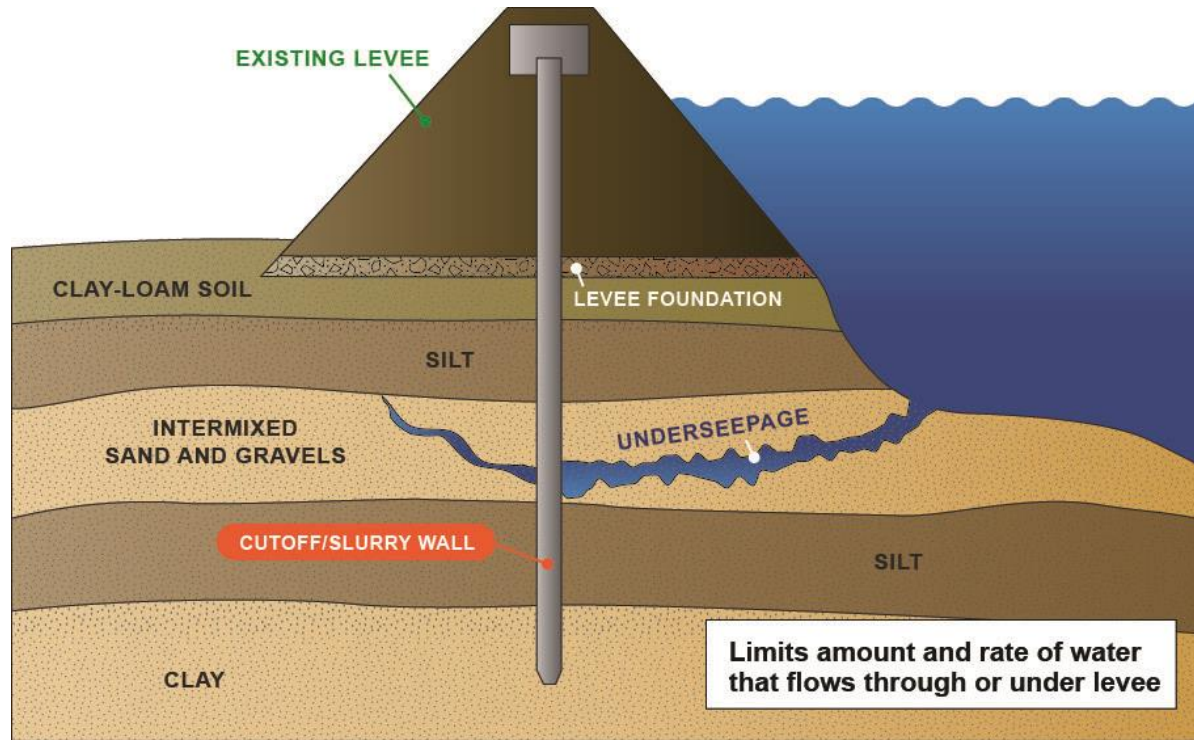
- Feather River West Levee Project (mostly complete)
- Oroville Wildlife Area Flood Stage Reduction (mostly complete)
- Yuba City Emergency Levee Repair (complete)
- Laurel Avenue Critical Levee Repair (complete)
- 2017 Flood fights (complete)

State and federal

- DWR 2017 Flood fights
- Federal PL84-99 Erosion Repair (complete), **2 additional projects**
- **Federal Sutter Basin Flood Risk Management Project**



PRIMARY REPAIR METHOD FOR THROUGH-SEEPAGE AND DEEP UNDER-SEEPAGE



SLURRY WALL



FRWLP TIME AND MONEY



- Design and Construction Cost: \$331 million
- Begin Final Design: 2011
- Construction: 2013 – 2017 (closeout items 2018–2021)
- 35 miles of repair/improvements, plus 1 mile critical repair at Laurel Avenue, and 3 miles of Emergency Yuba City Repair





SLURRY WALL: CONVENTIONAL METHOD

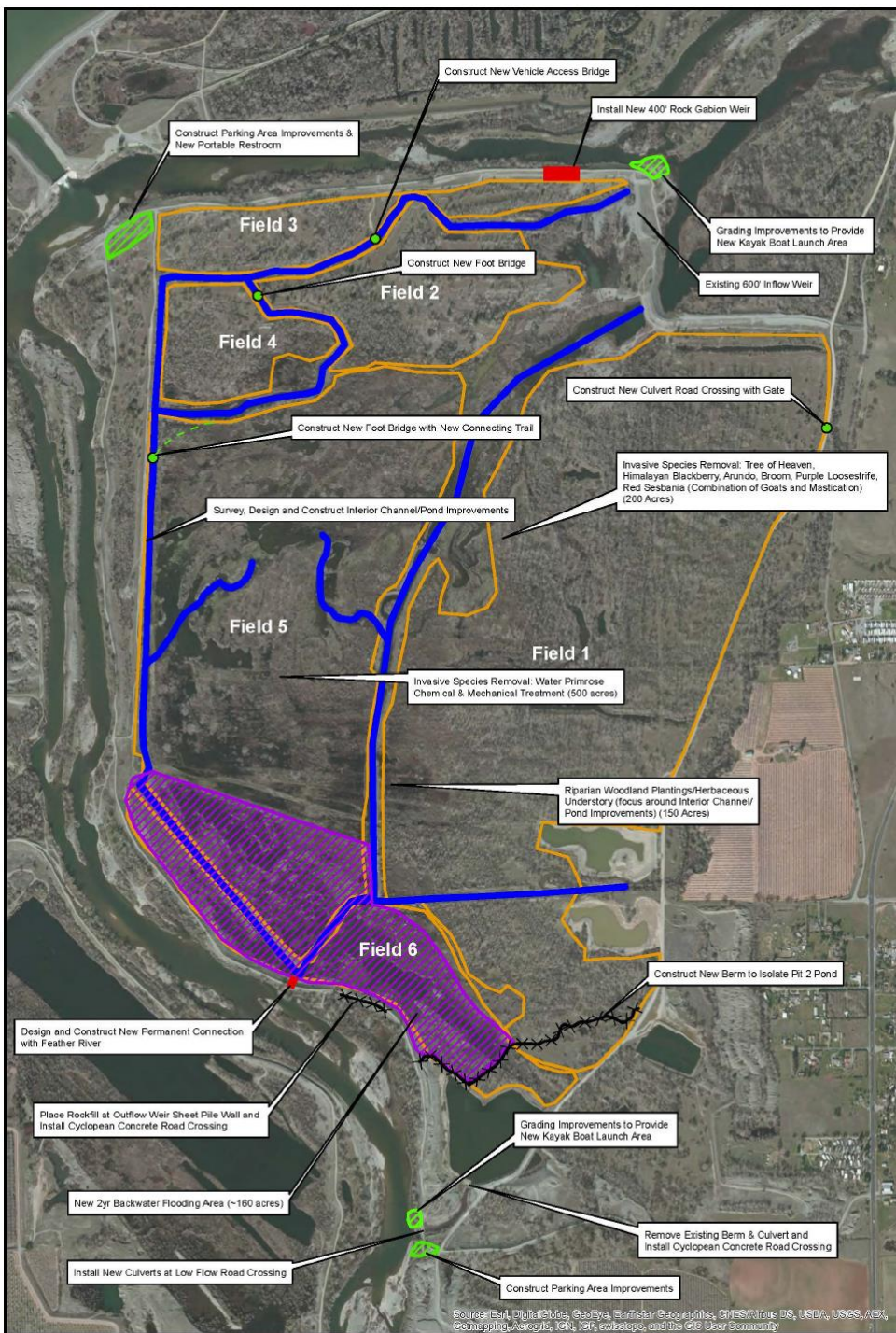


SLURRY WALL: DEEP MIXING METHOD



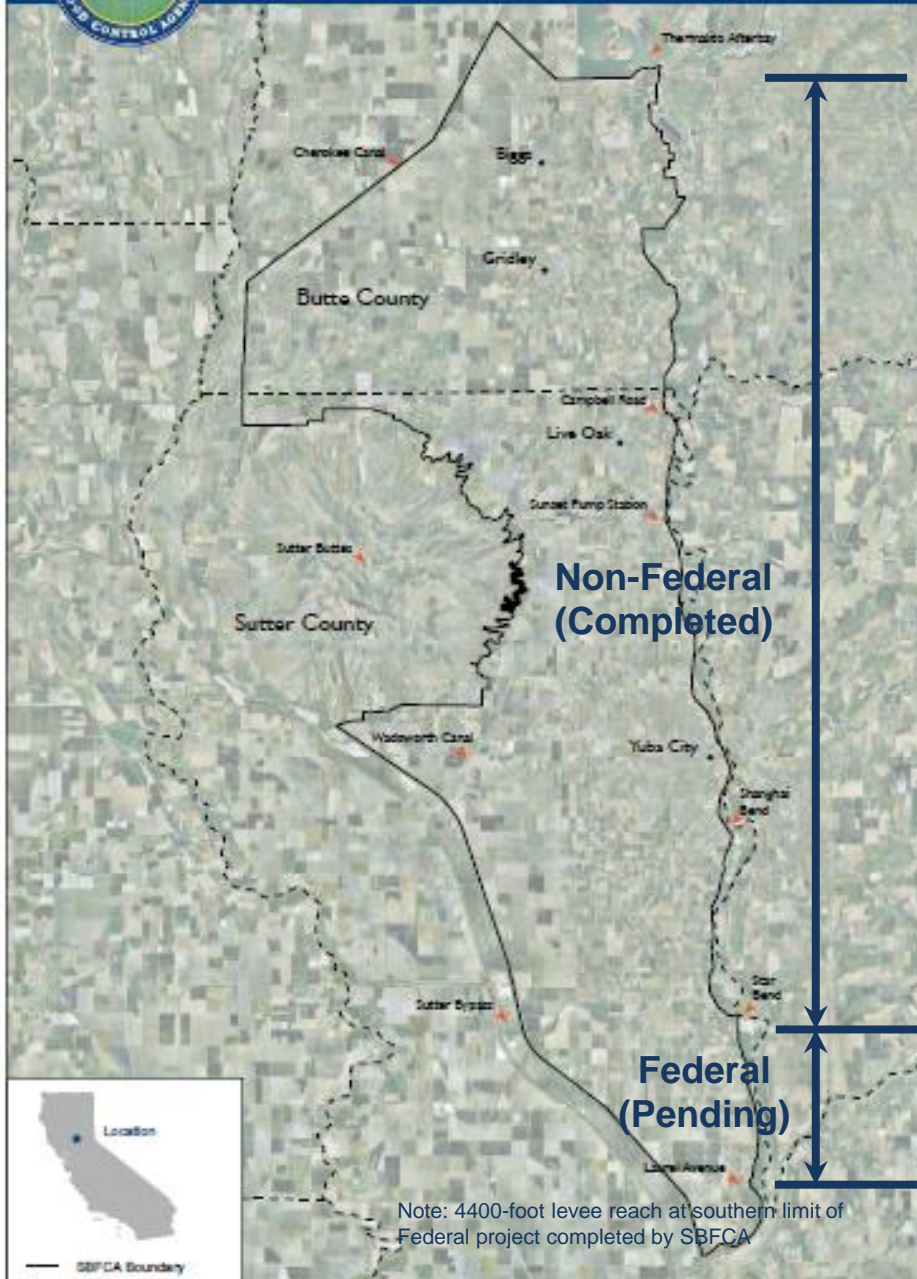
OROVILLE WILDLIFE AREA FLOOD STAGE REDUCTION PROJECT

- Multi-Benefit: flood control, eco-restoration, recreation, O&M
- 1,500 acres
- \$25M cost
- Construction start August 2018, completion 2020
- New CDFW Grant application submitted for Robinson's Riffle Restoration Project





Sutter Butte Flood Control Agency AREA PLAN MAP



Sutter Basin Flood Risk Management Project (Federal Project)

- Nearly complete federal project
- Federal process concurrent with construction
- Authorized in 2014 and 2016
- Appropriated in June 2018
- \$77 million Corps cost estimate
- **Construction by USACE (2019 - 2020)**
- **Project certification by SBFCA**



ADDITIONAL ACTIVITIES

- FRWLP Closeout Items:
 - OMRR&R Manuals/Assurances
 - Cleanup Contracts
 - O&M turnover to LMA's
 - Right of Way
 - Environmental mitigation
 - Encroachment permits
- 200-year certification (SB 5)
- FEMA remapping (Butte County, Sutter County)
- DWR Small Communities Grants (Sutter Bypass)
- Regional Flood Management Planning
- Sediment Removal Proj. (Live Oak, Yuba City)



QUESTIONS?

