



San Joaquin County
**Flood Control & Water
Conservation District**
1810 EAST HAZELTON AVENUE
STOCKTON, CALIFORNIA 95205
TELEPHONE: (209) 468-3000

FRITZ BUCHMAN
DIRECTOR OF PUBLIC WORKS
FLOOD CONTROL ENGINEER

ADVISORY WATER COMMISSION

October 19, 2022, 1:00 p.m.

**San Joaquin County Robert J. Cabral Agricultural Center
2101 E. Earhart Avenue, Stockton, CA 95206**

AGENDA

- I. Roll Call**
- II. Approve Minutes for the Meeting of August 17, 2022 ([Attachment 1 – Page #3](#))**
- III. Discussion/ Action Items:**
 - A. SGMA Activities (Matt Zidar)
 1. SGMA Implementation Grant Round 1
 2. SGMA Implementation Grant Round 2
 - B. Small Communities Results (Chris Neudeck, KSN) ([Attachment 2 – Page #8](#))
 - C. Central Valley Flood Protection Plan 2022 Update (Mary Jimenez, DWR). Link to [Public Draft 2022 Central Valley Flood Protection Plan Update](#) ([Attachment 3 – Page #39](#))
 - D. Deferred Maintenance Project Status (Joseph Thomas, KSN) ([Attachment 4 – Page #50](#))
 - E. Flood System Repair Project - Mormon Slough (Joseph Thomas, KSN) ([Attachment 4 – Page #55](#))
- IV. Staff Reports**
 - F. SJC
 - G. DWR
- V. Public Comment: *Please limit comments to three minutes.***
- VI. Commissioner Comments**
- VII. Future Agenda Items**
- VIII. Adjournment**

Next Special Meeting
November 16, 2022, 8:30 a.m.
San Joaquin County Robert J. Cabral Agricultural Center
2101 E. Earhart Avenue, Stockton, CA 95206

Commission may make recommendations to the Board of Supervisors on any listed item.

If you need disability-related modification or accommodation in order to participate in this meeting, please contact the Water Resources Staff at (209) 468-3089 at least 48 hours prior to the start of the meeting. Any materials related to items on this agenda distributed to the Commissioners less than 72 hours before the public meeting are available for public inspection at Public Works Dept. Offices located at the following address: 1810 East Hazelton Ave., Stockton, CA 95205. These materials are also available at <http://www.sjwater.org>. Upon request these materials may be made available in an alternative

**Advisory Water Commission of the San Joaquin County
Flood Control and Water Conservation District Meeting Minutes**

Wednesday, August 17, 2022

Discussion/Action Items:

I. Call to Order/Roll Call

The Advisory Water Commission (AWC) meeting was held at the San Joaquin County Robert J. Cabral Agricultural Center in Stockton, California (2101 E. Earhart Avenue Conference Rm 1). At approximately 8:37 a.m. roll call was taken of members only.

In attendance were Commissioners; Dante Nomellini, Charlie Swimley Jr, Gary Barton, Chuck Winn, John Holbrook, Mary Elizabeth, Michael Panzer, Will Price, Christopher Neudeck, Thomas Gau, Alternate Stephanie Reyna-Hiestand, Joe Valente; Secretary Matt Zidar and Chairman Thomas McGurk. Also in attendance, Commissioner George Hartmann who arrived after roll call was complete.

II. Approval of the May 18th meeting minutes

No amendments to the minutes.

Motion: Commissioner Christopher Neudeck
2nd: Commissioner Charlie Swimley

With no Opposed or Abstains, the minutes were approved unanimously.

Scheduled Items

Secretary Matt Zidar of the Advisory Water Commission (AWC) led the agenda

III. Discussion/Action Items

A. Drought and Water Supply Report from the San Joaquin County (SJC) Office of Emergency Services

Secretary Matt Zidar of San Joaquin County discussed the Office of Emergency Services (OES) drought response and situational status report which provides information regarding what is happening in the County and the response to drought. OES continues to maintain the Emergency Operation Center (EOC) for both COVID and the Drought. The Agricultural Drought Task Force (ADTF) also continues to meet. OES and Environmental Health have been working with Self-Help Enterprises (SHE) to manage the Safe and Affordable Funding for Equity and Resilience (SAFER) emergency water program. OES was able to identify in-County resources for SHE to leverage to provide a portion of these services. Stockton East Water District (SEWD) has just recently agreed to become a water provider for the hauled water portion of these services in San Joaquin County. OES continues to look for water providers based in our County that can

supply this resource to minimize the impact to any one agency. OES post summary reports monthly with the review of the Drought taskforce. Camanche is currently at 50%, New Hogan at 27% well below average historically, New Malones at 29%. Secretary Zidar discussed ground water level changes from the DWR Ground Water Live page. 13 wells at all time low, 7 wells below normal. Secretary Zidar reported on Dream pilot project with Eastbay MUD. Wells were instrumented with transducers and data collections platforms. Currently monitoring those wells which is going to lead up what will be the test to extract the banked groundwater this fall. Other wells that are being monitored have downward trends, depth of water 42 feet, the lowest point 56 feet. Graph shows 12-14 foot of declines. Secretary Zidar opened the floor for questions.

B. Compliance of Executive Order N-7-22 for Groundwater Sustainability Agencies and the SJC Environmental Health Department

Steven Shih from the Environmental Health Department (EHD) presented on the well permitting process. The Executive Order (EO) N-7-22 issued March 28th, 2022, to protect the health safety of ground water during the drought. EHD hired a Hydrogeologist to develop the method and analysis approach to ensure compliance with the EO and to ensure domestic and small drinking water systems are protected. Condor Earth will assist county staff to review permit applications, develop a checklist of criteria for approving permit, and may support additional review.

The floor was open for questions. There was a question regarding cost to each applicant. Mr. Shih noted that the cost for the applicant is not increased unless there was more analysis needed to permit the well. It was asked if any well permits were denied. Mr. Shih responded no permits have been denied from GSA or EHD. It was asked if the checklist was complete. Mr. Shih stated the Checklist was not complete but should be completed the following week. Commissioners requested to review the checklist when completed. Mr. Shih stated he will host a meeting and contact Secretary Matt Zidar to invite interested parties for reviewing the checklist when its complete.

A Commissioner asked how extensive is the problem where we must truck water to dry well owners? Mr. Shih commented that EHD had received 4 permits noting that there is no historical data to identify prior problems with dry wells or trucking of water in drought. There was discussion of how many well permit applications had been reviewed by GSAs. It was noted that GSAs do not have authority to kick that application back because some of the information is blank or to deny a permit. Mr. Shih replied that EHD is working on to speed up the permit process, conduct additional outreach, coordinate with the GSAs and comply with the EO.

Secretary Matt Zidar commented regarding AB2201, which would have made the EO statutory. It was noted that there was opposition to the legislation from the GRA, ACWA, CSAC and many GSA's. The bill was moving forward.

C. American River & Mokelumne River Water Rights

Secretary Matt Zidar reported on the American River & Mokelumne River Water Rights. On the 19th of July the SWRCB Administrative Hearing Officer (AHO) recommended our water rights application be canceled, essentially denying our right. The SWRCB voted of 5-0 to cancel our application. As a result, San Joaquin County does not have access to the American River. If want to reapply it will be application fee of \$598,000. They would consider waiving the fee. If they

waive the fee, and we reapply, we would have a much less senior filling. The Board has decided not to file a petition for reconsideration. Lessons learned, we did not follow through on our plans and we did not demonstrate 'due diligence' in pursuit of the projects to put the water to use and we lost the access to the river.

The County needs to move on 1990 Mokelumne River Water Rights Application 29835 or is at risk of losing access to this supply. The DWR SGMA Implementation Grant has provide the County with 3 million dollars to move forward with developing projects to put the water to beneficial use. Friday's meeting with the GSA's will be the 1st step in moving forward with work plan. and is looking for partners to help fund and coordinate the study. There is opportunity to use the roughly million-acre feet of available, empty storage as an asset to store wet year water for dry year use. We need to demonstrate due diligence or risk losing Mokelumne River Water Rights, and need to design, permit, and build projects. Commissioners noted the priority to work and need to work with East Bay MUD and Woodridge. There is opportunity to coordinate with EBMUD to use their aqueducts to convey water down and solve a distribution problem. Eastbay MUD would be a valuable partner. Secretary Zidar commented Eastbay MUD funded DREAM project and it is timely to discuss expansion and further application of the banking concept. There have been meetings with Eastbay MUD and the DREAM partners, and more is coming up. Under the Protest Dismissal agreement, we may have access to up to 48 KAF of Comanche storage and to the aqueduct, and what it boils down to is the business deal and creating a win-win situation.

Chairman Tom McGurk asked at what point is the Dream Project considered a success? Is it a pilot or demonstration? Secretary Zidar stated it's a pilot and a demonstration. Active pumping scheduled for October/November. Commissioner Joe Valente commented Eastbay Mud was out on a tour in June with their manger and president of the board. They are ready to start pumping after the summer months end. Toward the end of October, the pumps will be turned on. Commissioners discuss the availability and lack of success in obtain bond money. It was noted that we have received planning money but that the area had not received a lot of capital project funding because the local projects were not ready to proceed.

D. Public Works Water Resources Division Strategic Plan

Secretary Matt Zidar reported on the Public Works Water Resources Division strategic plan effort, noting that they are looking at roles, mission, and projects; goals and objectives; and evaluating how to prioritize projects and program; and how to measure performance. There may be a future survey of stakeholders and subsequent interviews and a report may be released but that timing has not been determined. A Commissioner asked if the Advisory Water Commission will have discussions before its finalized? Secretary Zidar stated that he believed that was appropriate. A Commissioner also commented that he is glad to see performance goals are included in strategic plan effort. One Commissioner noted that the Public Works Water Division has a long list of programs, projects and services that needs prioritizing. Real emphasis needs to be drought and ground water banking. It was noted that public works strategic plan is not regulatory function of the Advisory Water Commission (AWC); that the AWC is to help coordinate water supply and broader issues. It was noted that it would be adding another task that's not in the framework of the AWC to expand its role. Secretary Zidar commented that the AWC was advisory and makes recommendation to the board on strategy.

E. Lower San Joaquín Regional Flood Risk Reduction & Climate Resiliency Study (SJAFCA)

Secretary Zidar introduced Mike Rossiter from RFE Engineers. Mr. Rossiter stated they are working with (SJAFCA) to seek input on the study. In 2017 the Department of Water Resources (DWR) publish the Central Valley Flood Protection Plan which included climate change analysis of projected flows on the San Joaquin River which are expected to increase substantially by up to 3 times in the next 50 years. A lot of uncertainty in these projections but it sparks the need for considering solutions. The study focus is to identify and prioritize locally preferred system wide strategies for mitigating the impact of projected climate changes flows on the main stem of the San Joaquin River. This study is being conducted in two phases. Phase I is to gather input and conceptualize ideas to respond to higher flows. At the end of Phase I a list will of potential projects and actions will be narrowed or refined. Phase II analysis and evaluation will narrow list and identify the feasibility of these concepts and what the region strategy should be moving forward. Primary goal of the study is flood risk reductions, but the intent is also to seek ecosystems enhancements and improve water supply reliability.

Commissioners discussed the study, noting that these flows were potentially over predicted, funding to address such large scale flows in hard to generate and there were issues with this priority and the goals of the study. There was emphasis on the need for more flood and water supply storage and to bring the focus back to reality on what can be done. A Commissioner commented that this study was needed and that the background report should be shared, requesting an evening meeting for the public.

F. Flood Ordinance update (Carl Walker of Walker Floodplain Management, LLC)

Secretary Matt Zidar reported on the Flood Ordinance update, coordination with FEMA Friday, and the schedule to bring a final draft Ordinance in October or November to the AWC and then the Board of Supervisors.

IV. Staff Reports

A. SJAFCA (Chris Elias of SJAFCA)

Mr. Chris Elisa reported that on August 18th, the Board of directors will have the monthly meeting at 9am in the SJ COG Building, downtown. Chairman Thomas McGurk stated he sees no public comments. Secretary Zidar stated future meeting is on September 21st is at 1pm. Commissioner Gorge Hartmann would like to know what dictates time of meeting? Secretary Zidar answered, the availability of the room. Chairman McGurk commented we are keeping 1pm meeting time. Chairman McGurk notes no public comments.

V. Future Agenda Items

Secretary Zidar requested the following agenda items be held over.

G. FMAP (David Tolliver of PW)

H. FSRP Funding Available (Matt Zidar)

- I. Deferred Maintenance Project status report (Juan Ochoa of PW)
- J. Corps Maintenance – levee inspection communications (David Tolliver)

VI. Adjournment

Chairman McGurk Adjourned the meeting at 10:40 am.

SAN JOAQUIN COUNTY

SMALL COMMUNITY FLOOD RISK REDUCTION FEASIBILITY STUDIES

PRESENTATION TO THE
ADVISORY WATER COMMISSION

October 19, 2022 at 1:00 PM



Presented By
Christopher H. Neudeck, PE | Principal Engineer
Erik Almaas, PE | Associate Engineer
Elizabeth Ramos, PE, CFM | Project Engineer
Kjeldsen, Sinnock & Neudeck, Inc.





INTRODUCTIONS & BACKGROUND

Introductions

Grant Background

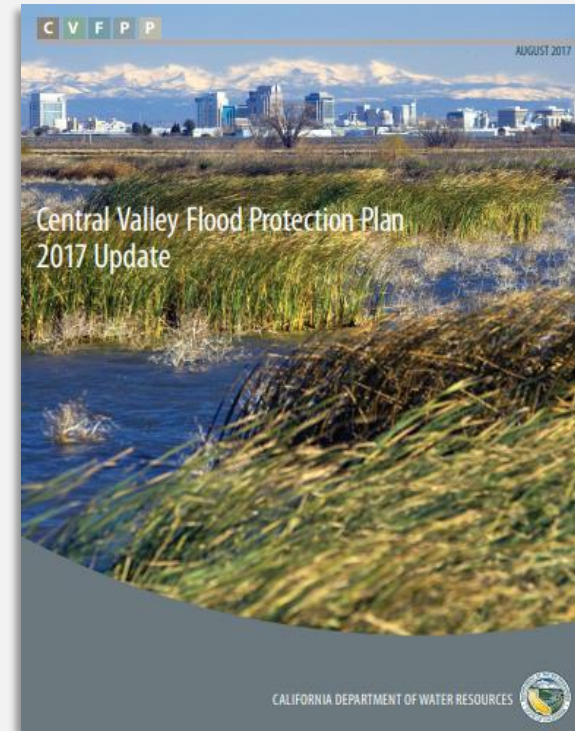
CENTRAL VALLEY FLOOD PROTECTION PLAN

Umbrella plan outlining the State's long-term vision of flood management in the Central Valley.

- Helps guide the State's investment strategy to improve flood risk reduction
- Identified flood risk reduction for small communities as a priority

How are goals in the CVFPP developed?

- Lower San Joaquin and Delta South Regional Flood Management Plan
- Identified risk reduction of small communities as a need



Lower San Joaquin River and Delta South Regional Flood Management Plan 2014

November 2014

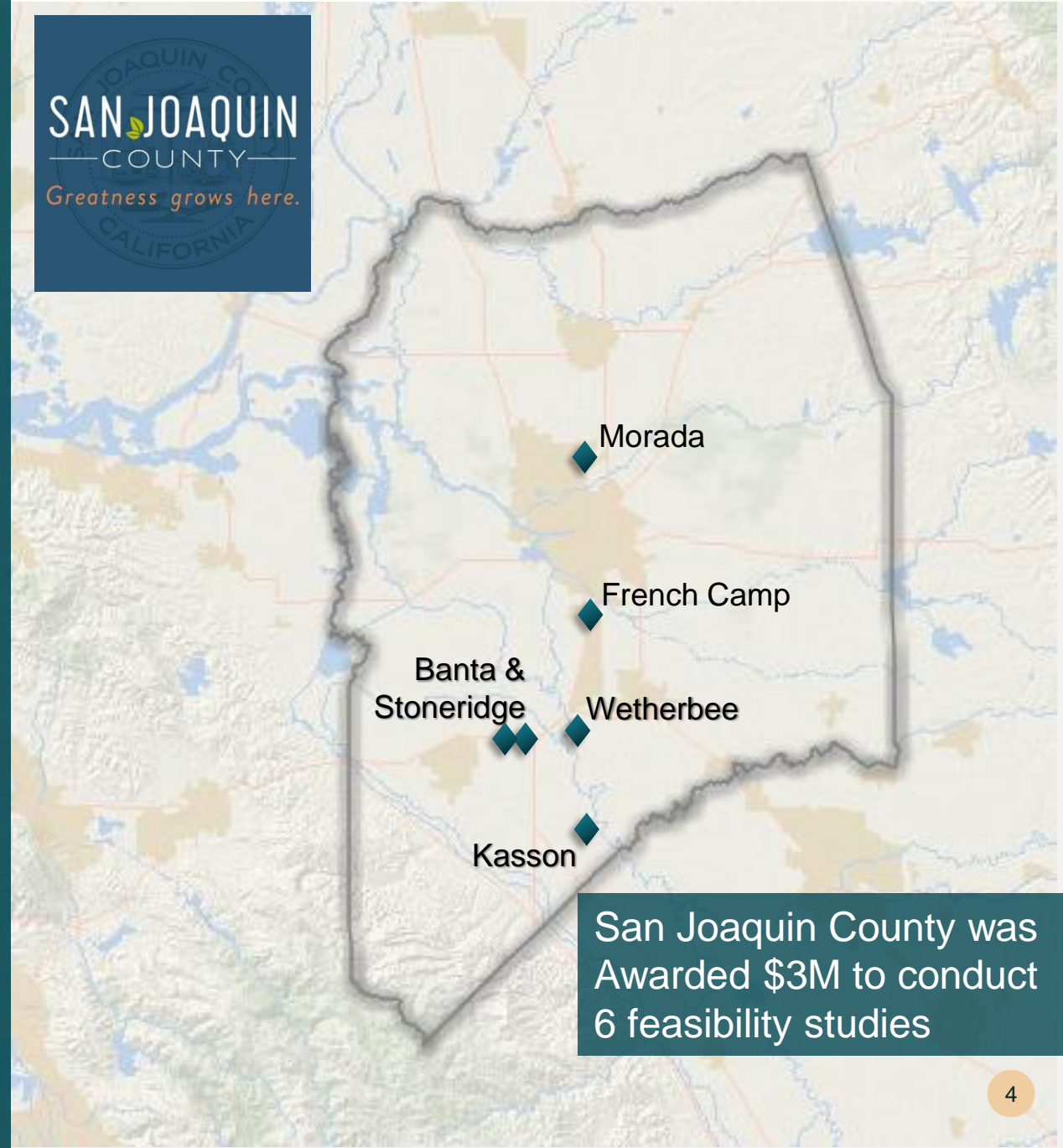


SJAFCA
San Joaquin Area FLOOD CONTROL Agency



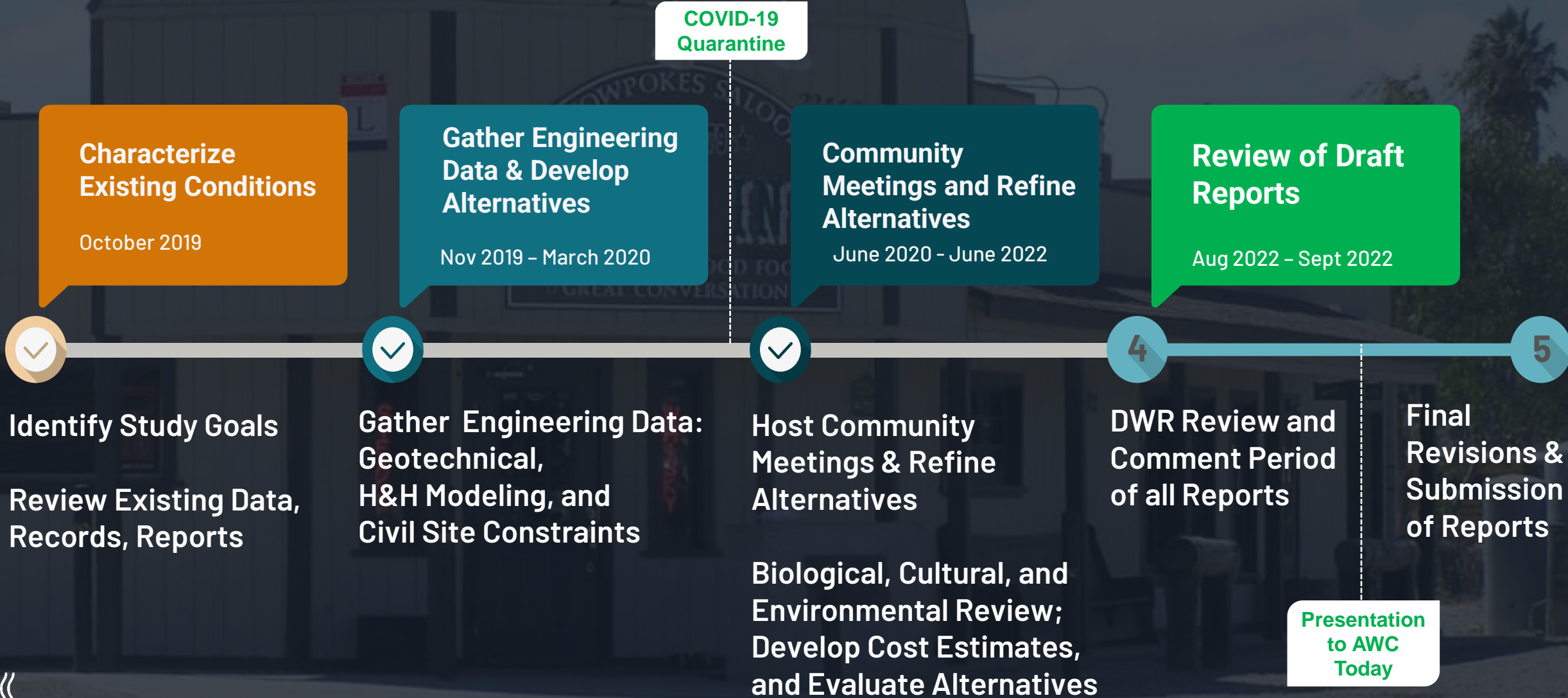
SMALL COMMUNITIES FLOOD RISK REDUCTION PROGRAM

- Funds 100% of efforts to advance flood protection for small communities that are protected by State Plan of Flood Control Levees, towards a 100-year level of flood protection
 - ✓ Potential to relax flood insurance and building requirements
- Divided into two phases:
 - Phase 1 – Feasibility Study (\$500K)
 - Phase 2 – Design and Implementation
- DWR awarded funds for Feasibility Studies to 35 communities, 6 of which are here in San Joaquin County



San Joaquin County was Awarded \$3M to conduct 6 feasibility studies

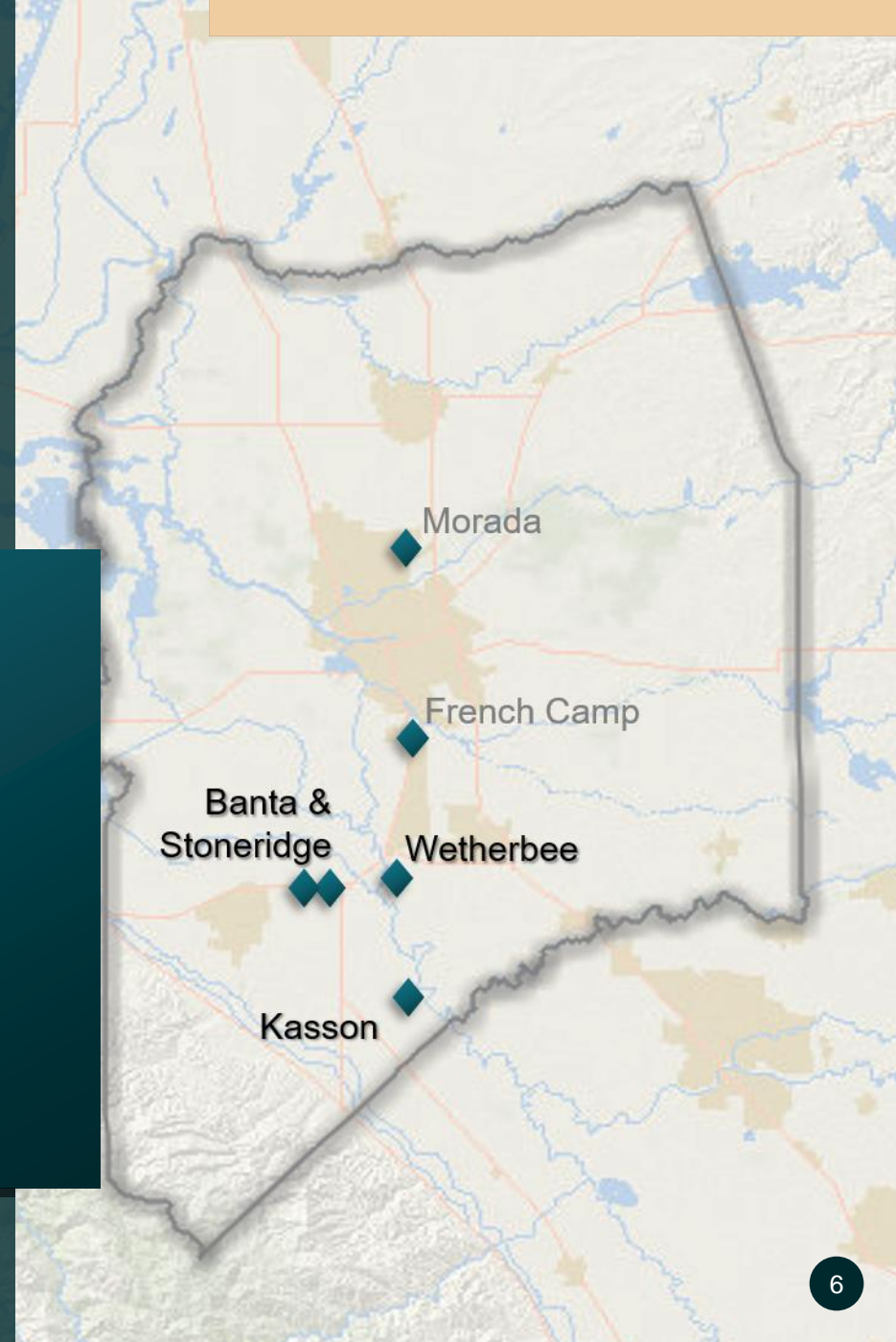
OVERVIEW OF FEASIBILITY STUDY TIMELINE



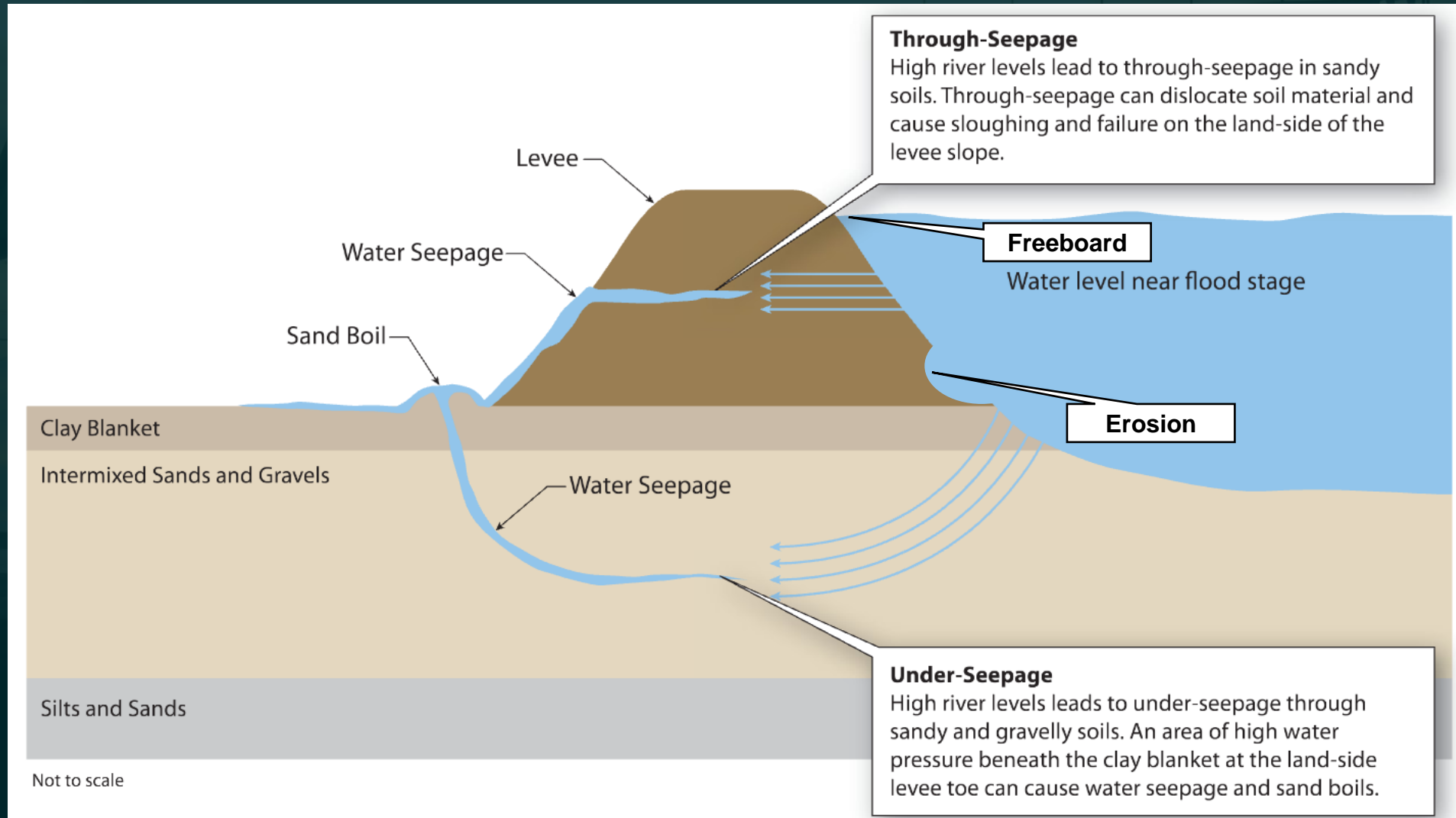


SUMMARY OF ALTERNATIVES

Summary of Levee Deficiencies and Alternative



TYPES OF LEVEE DEFICIENCIES



LEVEE EVALUATION CRITERIA

- We used FEMA's levee criteria for a certified levee, meaning it provides a 100-year level of flood protection
- Based on Urban and Non-Urban Levee Evaluation (ULE/NULE) data

Criteria	Banta & Stoneridge	Kasson	Wetherbee
SPFC Levees	RD 2058 & RD 2095	RD 2085	RD 2096 and RD 2094
Through seepage	X	X	X
Underseepage	X	X	X
Slope Stability			X
Freeboard		X	X
Geometry Deficiencies		X	X
Erosion	X		

EVALUATION CRITERIA

Three alternatives were developed for each community.
Those alternatives were evaluated against the same criteria:

1. Improve Flood Risk Management

Does it provide a 100-year level of flood protection?

2. Promote Multi-Benefit Opportunities

Does it promote multi-benefit opportunities

3. Improve Institutional Support

Does the alternative have the support of the community, stakeholders, and County?

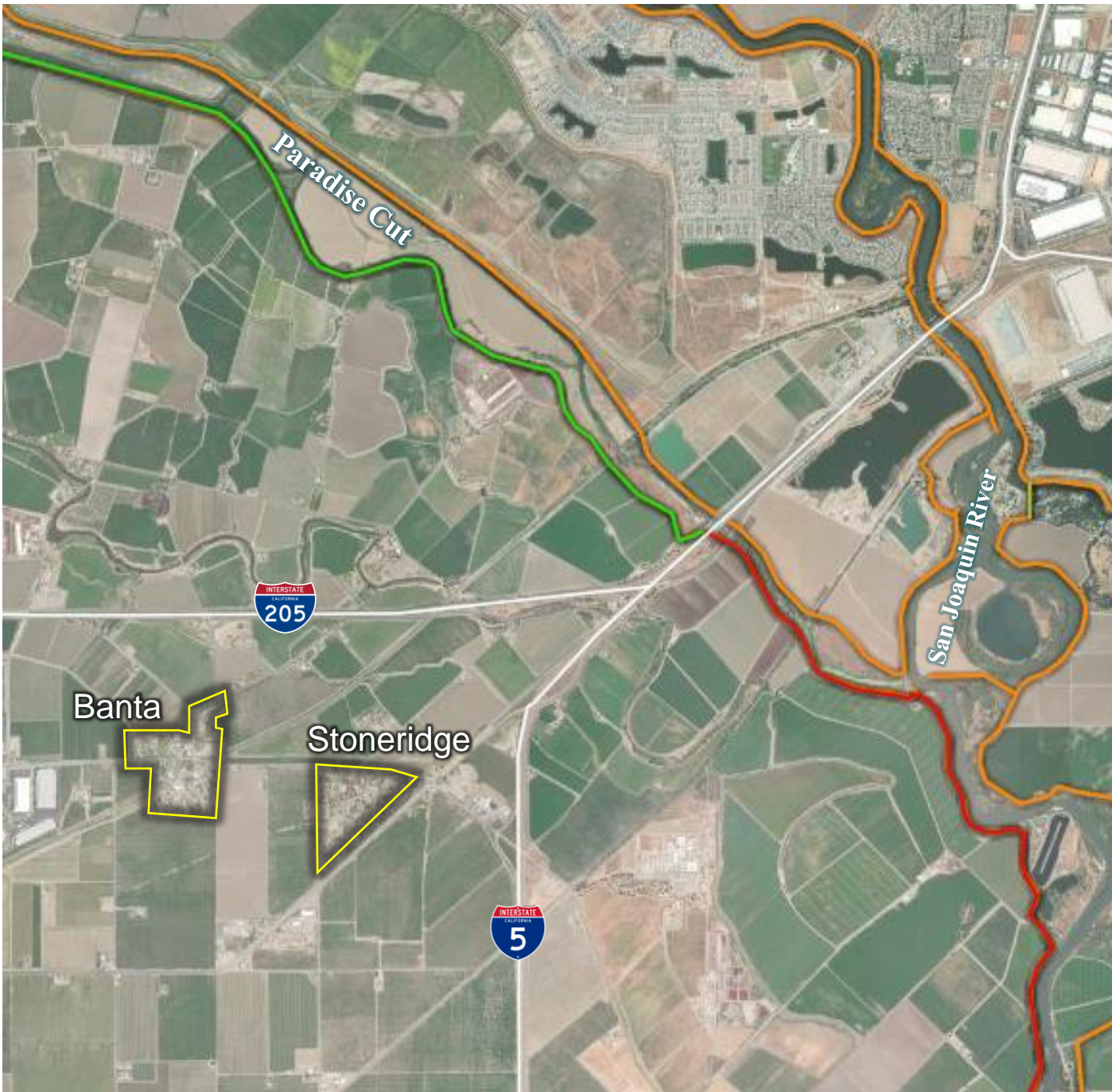
4. Construction and O&M Costs

Value engineering and ability to pay



BANTA & STONERIDGE

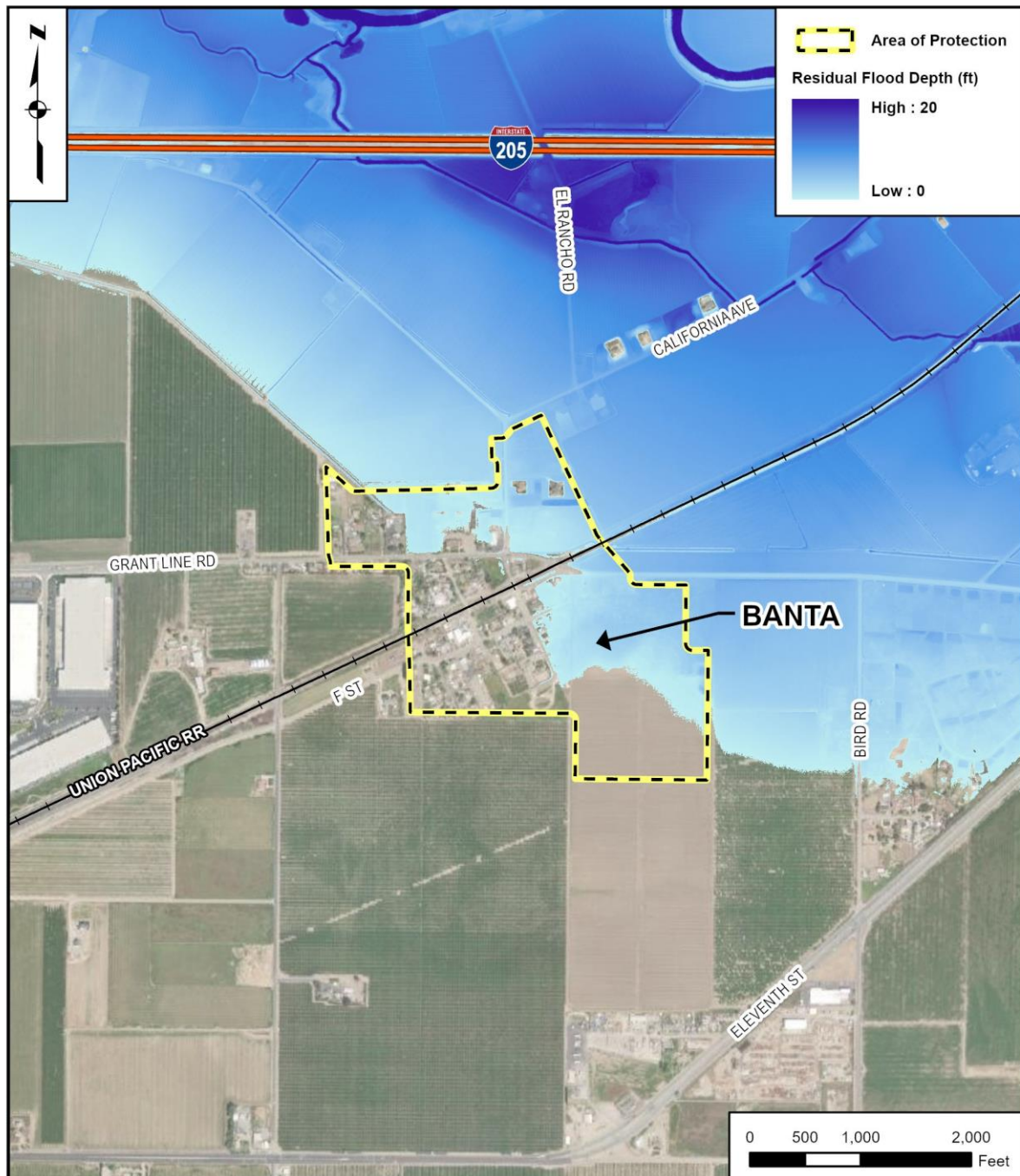




BANTA & STONERIDGE

Stoneridge and Banta receive protection from:

- RD 2058 – Pescadero Levee
Provides protection from Paradise Cut
- RD 2095 – Paradise Junction Levee
Provides protection from the San Joaquin River



BANTA

Flood Risk

- Anticipated depths on the fringes of the community:
0 – 2 foot flood depth.

Criteria	Banta & Stoneridge
SPFC Levees	RD 2058 & RD 2095
Through seepage	X
Underseepage	X
Slope Stability	
Freeboard	
Geometry Deficiencies	
Erosion	X

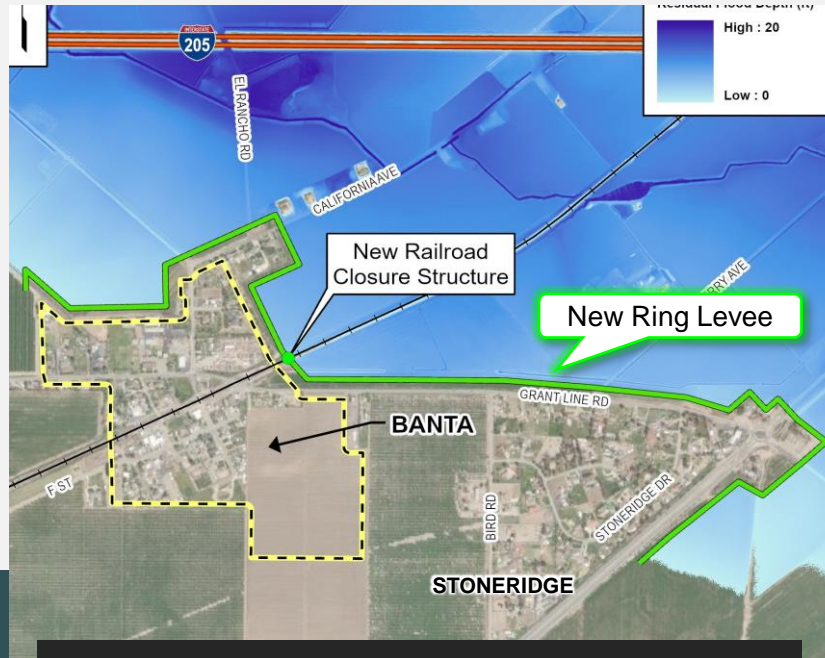


ALTERNATIVE 1A

Total Capital Cost

\$ 57.6M

Annual O&M Costs: \$17,843

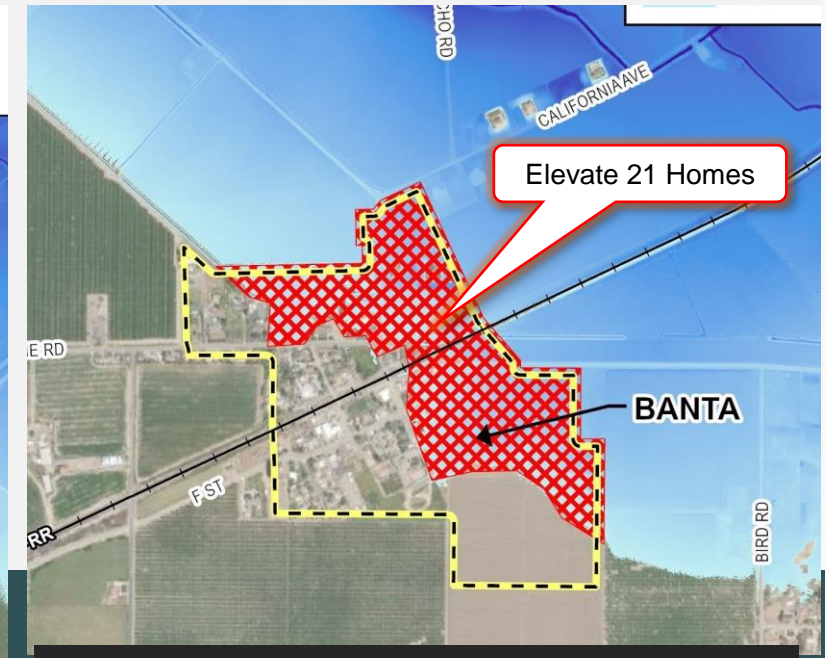


ALTERNATIVE 1B

Total Capital Cost

\$ 91.7M

Annual O&M Costs: \$30,156



ALTERNATIVE 2

Total Capital Cost

\$ 9.9M

Annual O&M Costs: \$0



STONERIDGE

Flood Risk

- Anticipated depths within the community
 3 to 5 feet in the deepest portions
 1 to 3 feet in the shallower zones

Criteria	Banta & Stoneridge
SPFC Levees	RD 2058 & RD 2095
Through seepage	X
Underseepage	X
Slope Stability	
Freeboard	
Geometry Deficiencies	
Erosion	X



ALTERNATIVE 1A

Total Capital Cost

\$ 53.1M

Annual O&M Costs: \$17,762

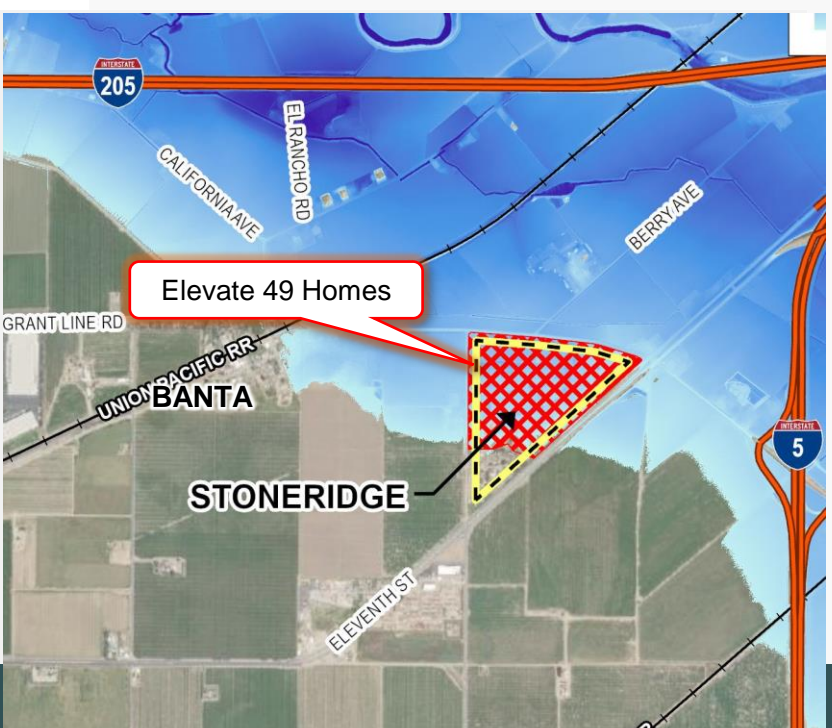


ALTERNATIVE 1B

Total Capital Cost

\$ 91.7M

Annual O&M Costs: \$30,156



ALTERNATIVE 2

Total Capital Cost

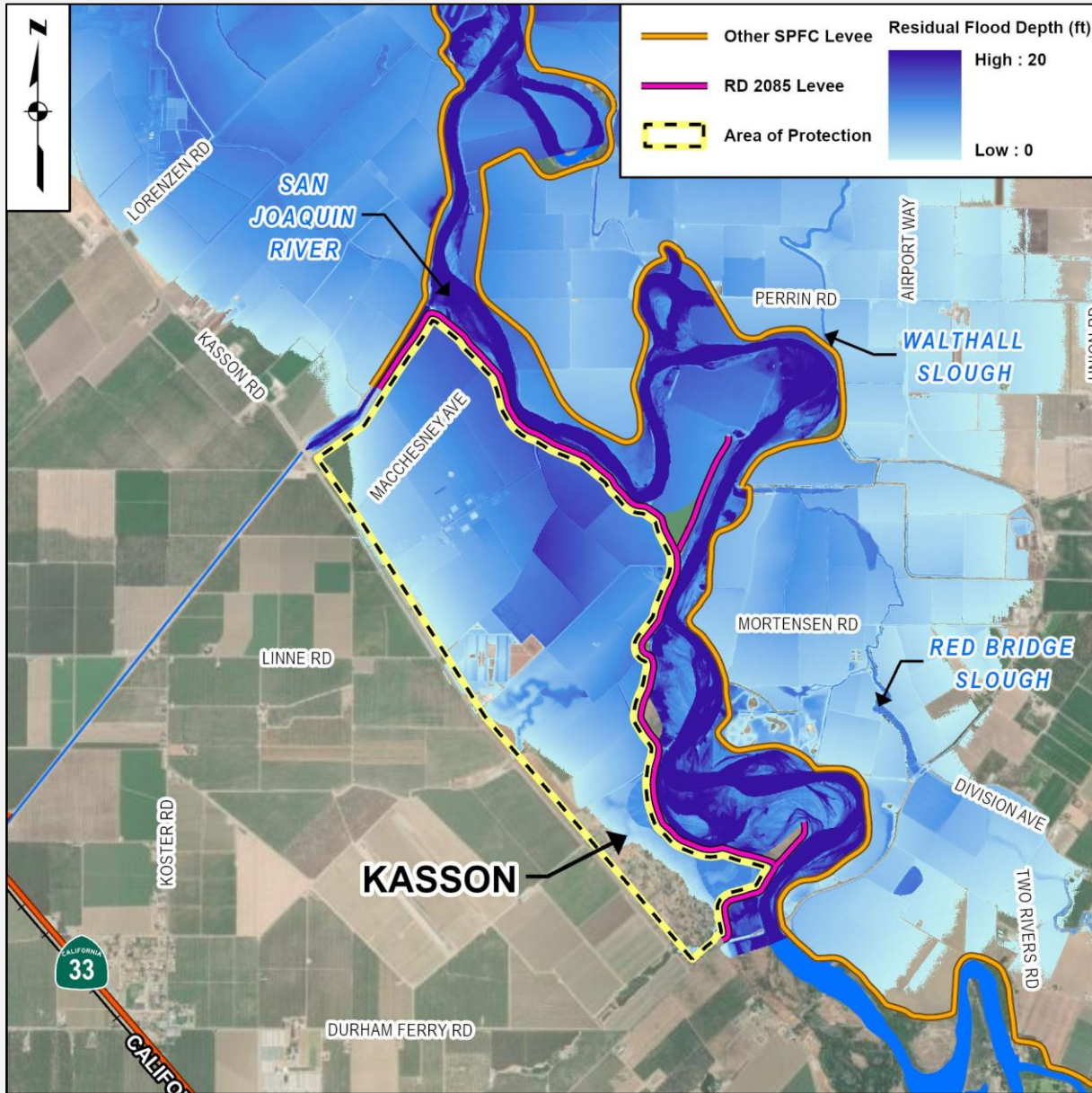
\$ 12.6M

Annual O&M Costs: \$0

STONERIDGE

An aerial photograph of a residential area featuring a large, winding pond. The pond is surrounded by lush greenery and a golf course. In the foreground, there are several houses and a road. The overall scene is a mix of natural and developed land.

KASSON

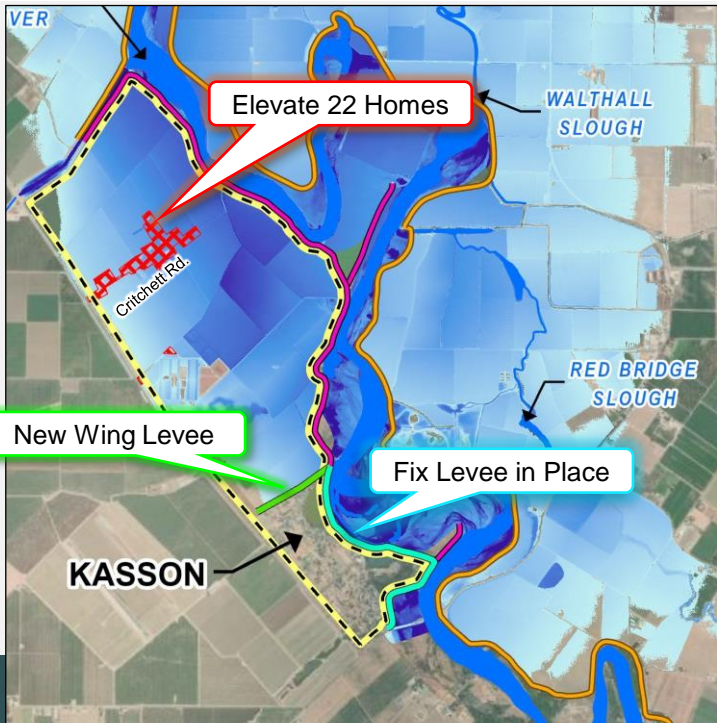


KASSON

Flood Risk

- Anticipated depths on the east of the community: up to 5-10 feet

Criteria	KASSON
SPFC Levees	RD 2085
Through seepage	X
Underseepage	X
Slope Stability	
Freeboard	X
Geometry Deficiencies	X
Erosion	

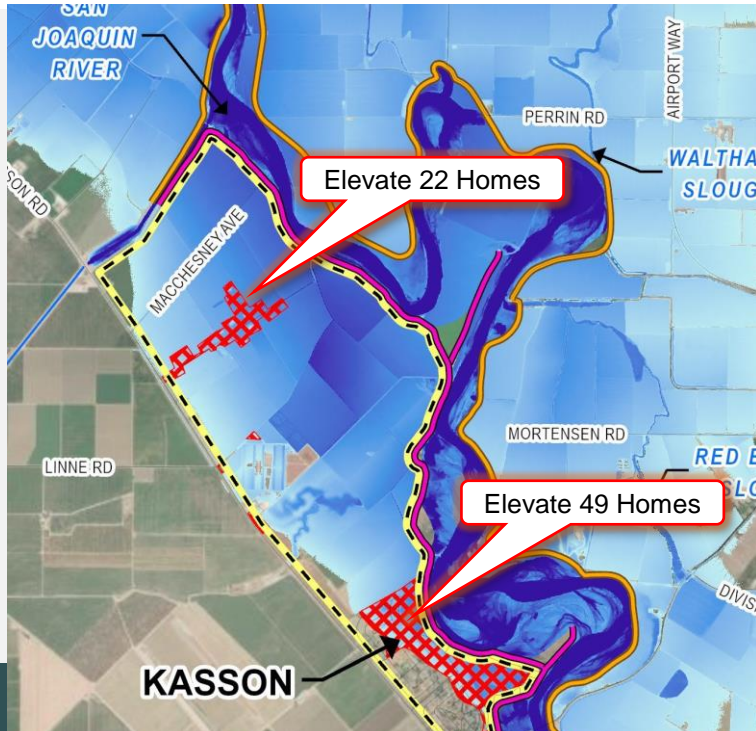


ALTERNATIVE 1

Total Capital Cost

\$ 79.9M

Annual O&M Costs: \$5,569

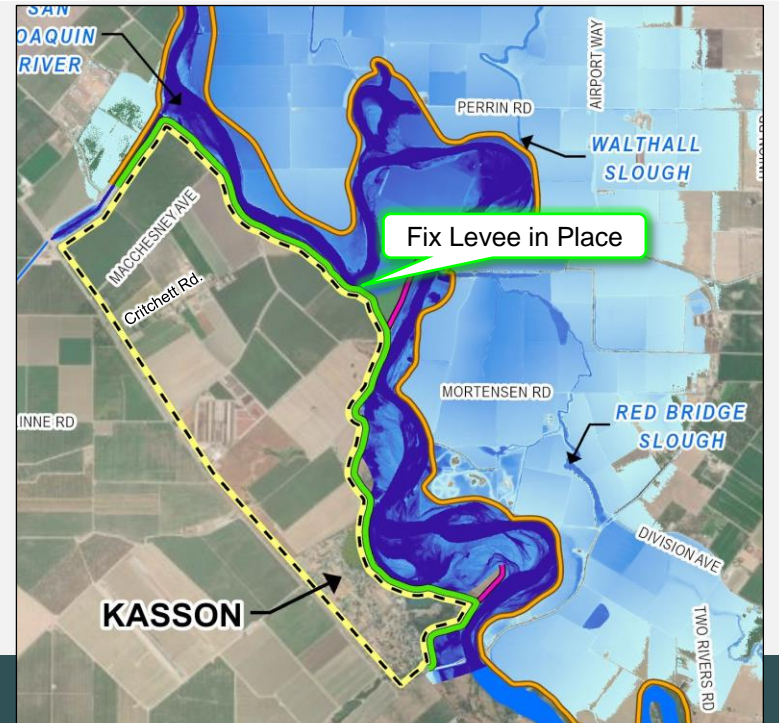


ALTERNATIVE 2

Total Capital Cost

\$ 41.4M

Annual O&M Costs: \$0



ALTERNATIVE 3

Total Capital Cost

\$ 164M

Annual O&M Costs: \$3,863

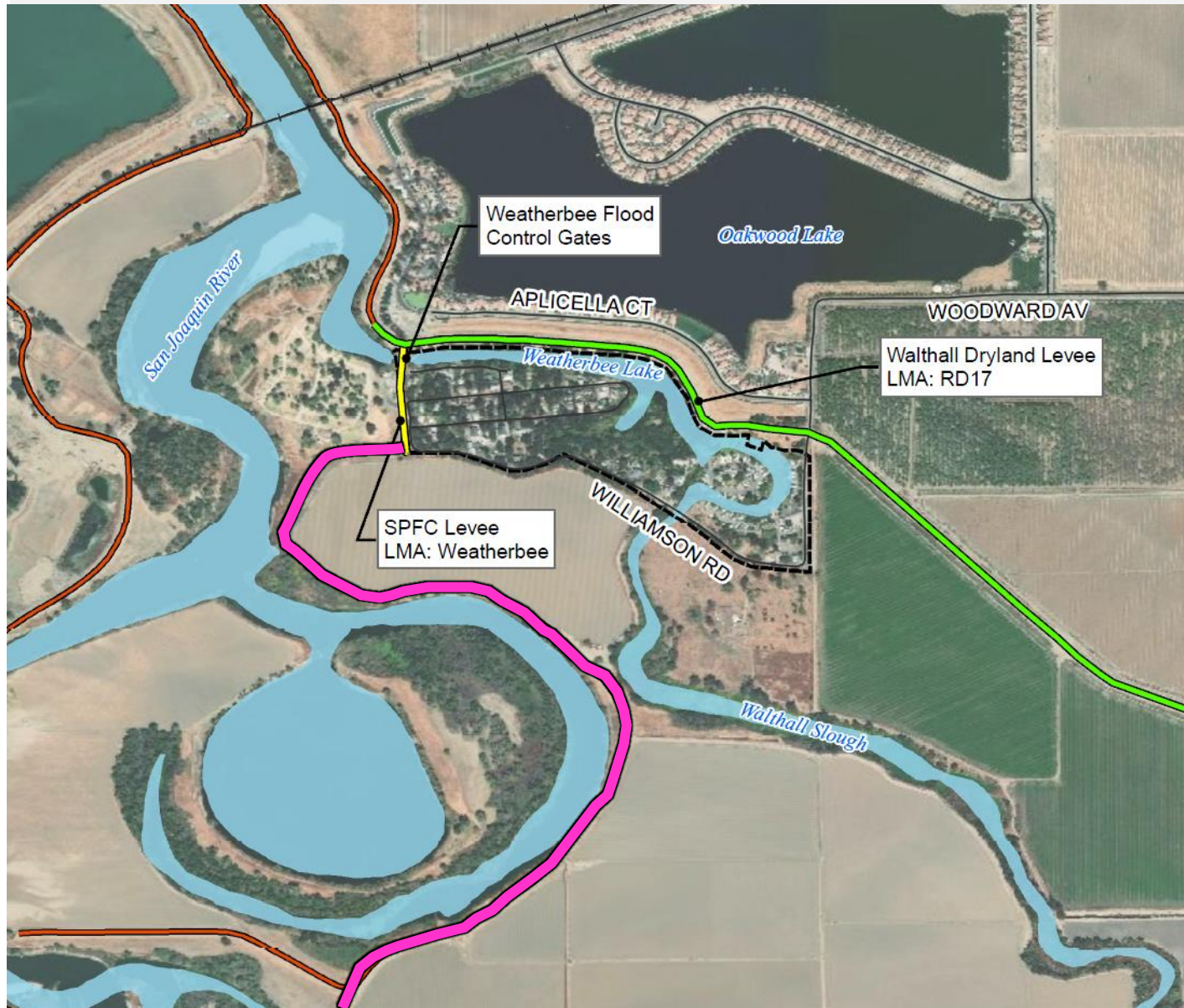


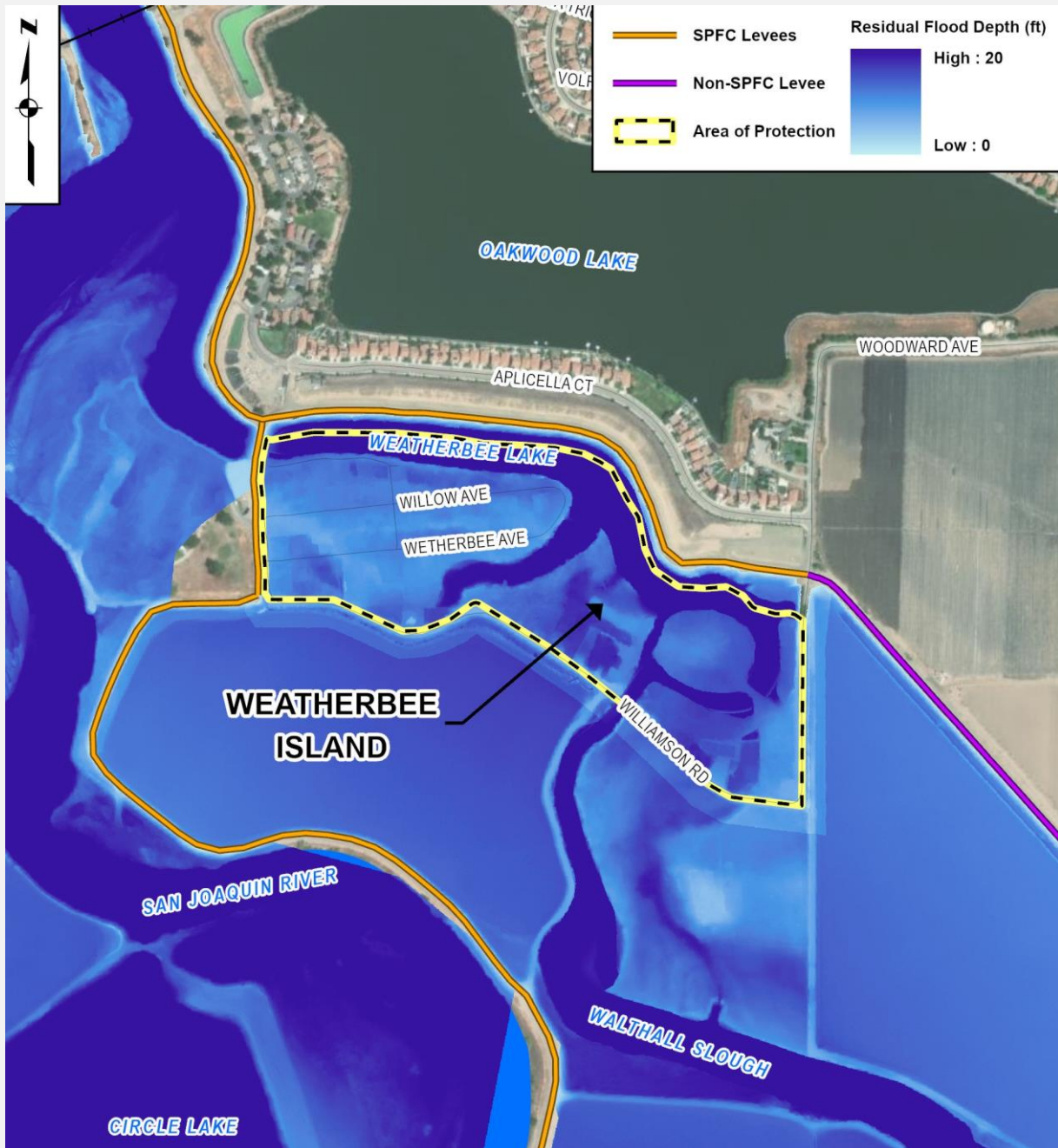
WETHERBEE

WETHERBEE

Wetherbee receives protection from:

- RD 2096 – Wetherbee Levee
Provides protection from the San Joaquin River
- RD 2094 – Walthall Levee
Provides protection from the San Joaquin River
- Other State Plan of Flood Control Levee
- Non-State Plan of Flood Control Levee





WETHERBEE

Flood Risk

- Anticipated depths within the community: up to 10 to 15 feet

Criteria	Wetherbee
SPFC Levees	RD 2096
Through seepage	X
Underseepage	X
Slope Stability	X
Freeboard	X
Geometry Deficiencies	X
Erosion	



ALTERNATIVE 1A

Total Capital Cost

\$ 53.4M

Annual O&M Costs: \$9,129



ALTERNATIVE 1B

Total Capital Cost

\$ 61.9M

Annual O&M Costs: \$99,129



ALTERNATIVE 2

Total Capital Cost

\$ 11.8M

Annual O&M Costs: \$0

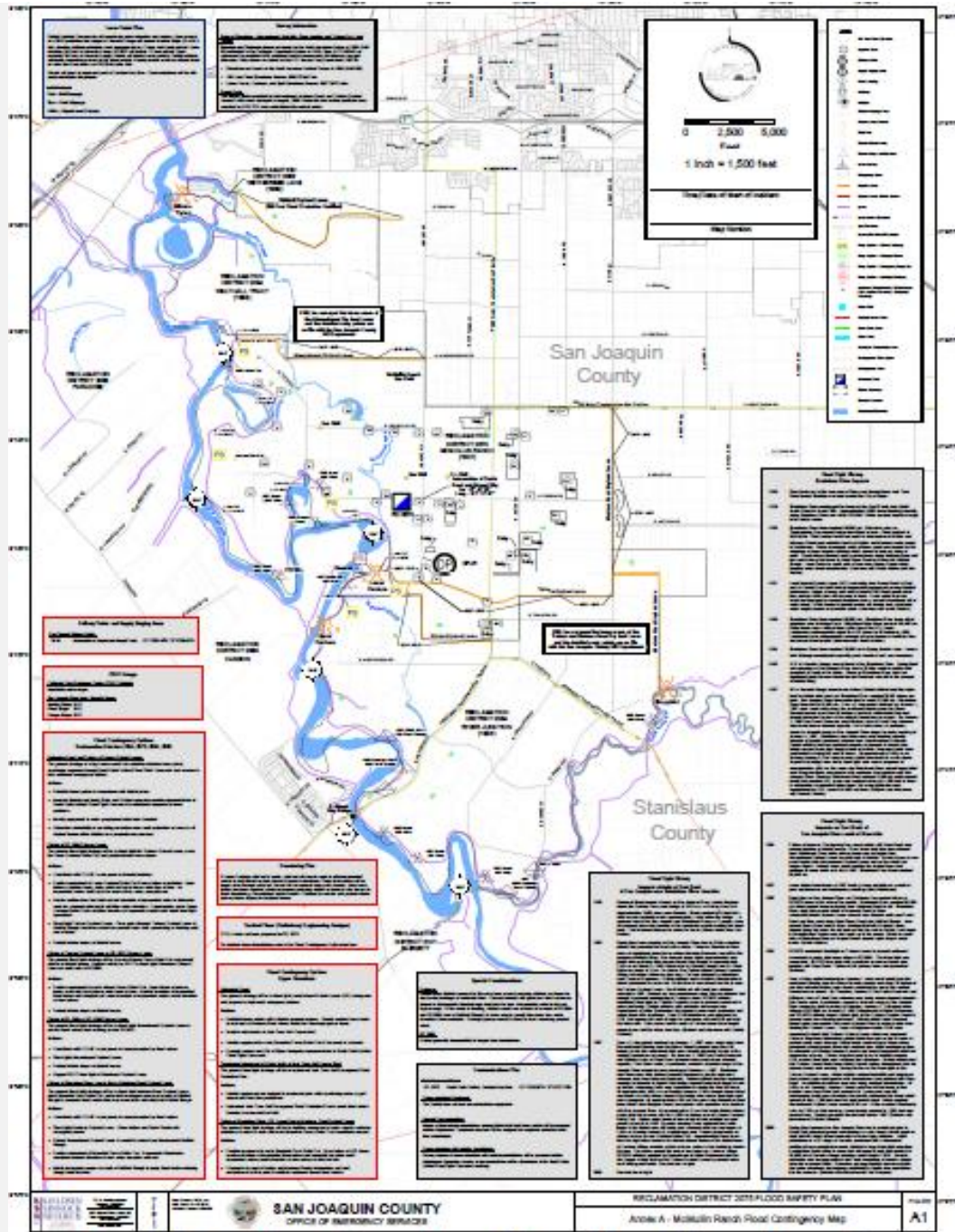
WETHERBEE





REGIONAL COMPONENTS: NON-STRUCTURAL MEASURES AND MULTI-BENEFIT AREA

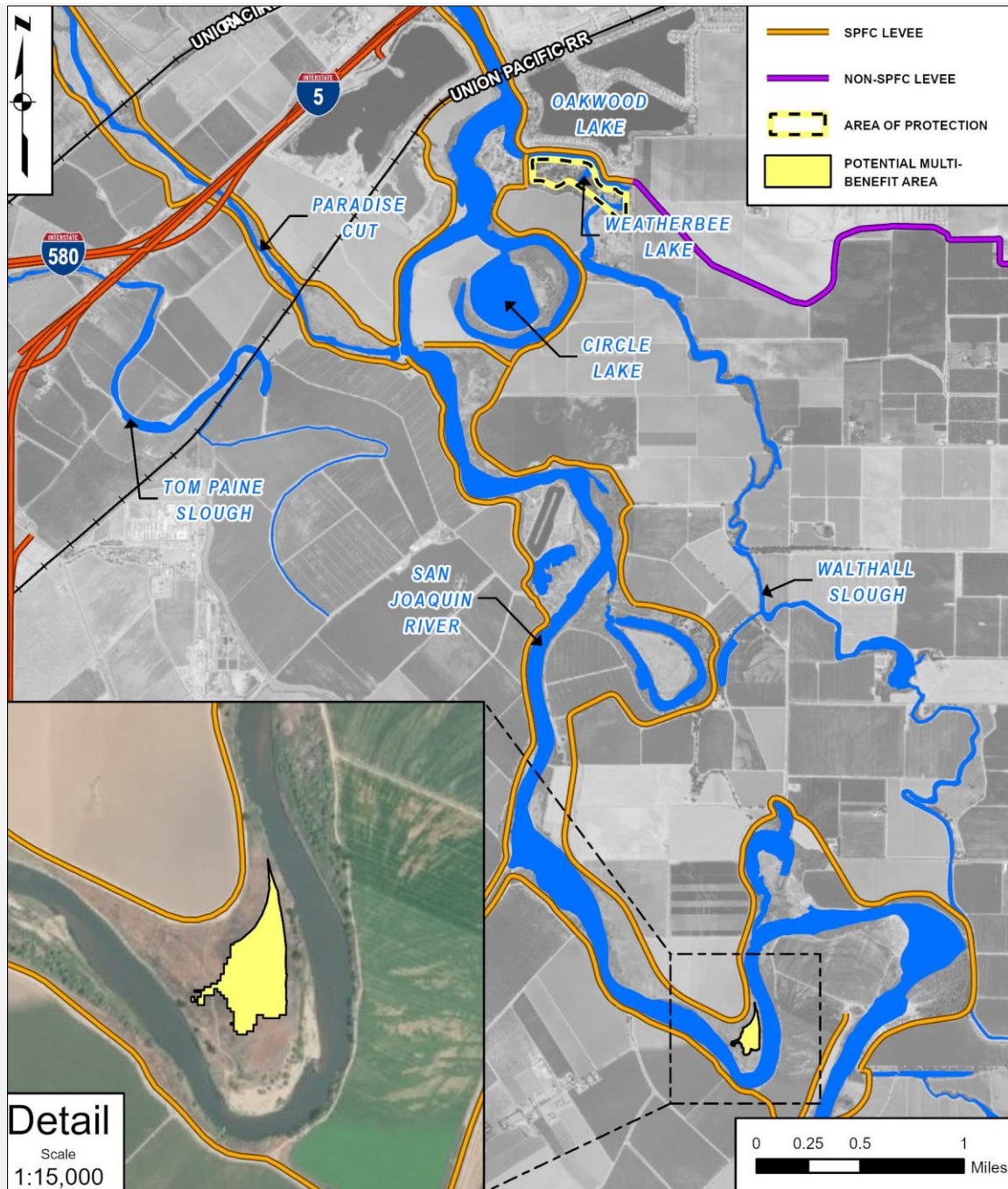
Overview of Regional Flood Emergency Preparedness and Response and Multi-Benefit



REGIONAL FLOOD EMERGENCY RESPONSE

- DWR Statewide Emergency Response Grant – Rounds 1, 2, 3 and future 4, 5
- Flood Emergency Preparedness and Response
 - Flood Safety Plans and Map
 - Incorporates SEMS/NIMS*
 - Training www.musrflood.squarespace.com
 - Table Top Exercise
 - Flood Fight Supply Acquisition and Pre-Staging
- Evacuation and/or Shelter-in-Place Planning
- Floodplain Management and Participation in the NFIP

*Standardized Emergency Management System/
National Incident Management System



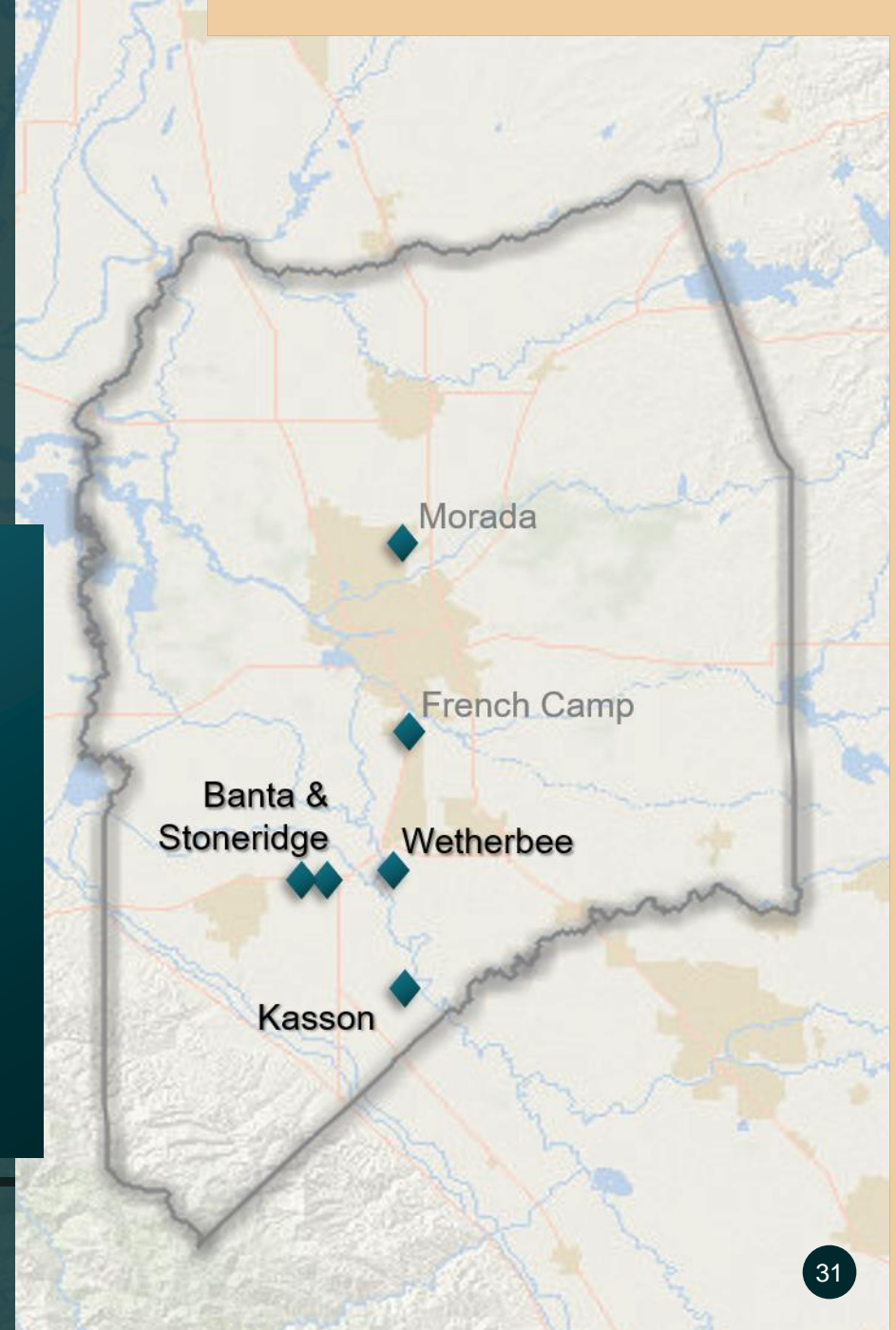
MULTI-BENEFIT

Regional multi-benefit component is a component of all four small communities.

- Lower approximately 8 acres of floodplain
- Increase seasonal flooding, and create a floodplain swale or side channel.
- Potential to provide for a resting or rearing area for migrating fish and allow riparian vegetation and habitat to be established.
- The riparian vegetation could also dissipate energy to combat erosion, and allow shaded riverine aquatic habitat cover to establish.
- **Multi-benefit component is critical to be eligible for funding**

NEXT STEPS

What is next?



NEXT STEPS

Today

Present the Recommended Alternatives

**September
2022**

Finalize Report for final Submission to DWR

On-going

Monitor for funding opportunities. Feasibility Reports can bolster grant future grant applications.

FUNDING

	Structural	Non-Structural	Study / Plan / O&M	
	Levees Floodwalls Dams Weirs	Voluntary Structure Elevation & Floodproofing	Feasibility Study /Flood Management Plan	Operations, Maintenance, Repair, Replace & Rehabilitation
DWR				
Small Communities Flood Risk Reduction (SCFRR) Program - SPFC Facilities	X		X	
Flood System Repair Projects (FSRP) - SPFC Facilities	X			
FEMA				
Flood Maintenance Assistance Program (FMAP) - SPFC Facilities				X
Flood Mitigation Assistance (FMA)		X		
Pre-disaster Mitigation (PDM)	X	X		
Hazard Mitigation Grant Program (HMGP)	X	X		
USACE				
Flood-Related Continuing Authorities Program (FRCA)	X	X	X	
Housing and Urban Development				
Community Block Development Grant – Disaster Response (CDBG-DR)	X		X	



QUESTIONS

THANK YOU



Matthew Zidar

Water Resources Manager | San Joaquin County



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Principal | Kjeldsen, Sinnock & Neudeck, Inc.



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Eric Almaas, PE, CFM

Associate Civil Engineer | Kjeldsen, Sinnock & Neudeck, Inc.



ealmaas@ksninc.com



(209) 946-0268



2022 CVFPP Update



















San Joaquin County Advisory Water Committee
October 19, 2022

Presented by:

Mary Jimenez, Manager, Systemwide Multibenefit Initiatives Branch

Ruth Darling, Manager, Central Valley Flood Protection Board

The 2022 CVFPP Update Development Milestones

	2021				2022				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
CVFPP	 CVFPP PDT Draft (Feb)	 CVFPP DWR Alignment Draft (Apr)		 CVFPP Working Draft (Oct)		 CVFPP Public Draft (Apr)		 Final 2022 CVFPP Update  Final CEQA Addendum	
FSSR/SPFC DD					 Draft FSSR/ SPFC DD		 Final 2022 FSSR/SPFC DD		
CONSERVATION STRATEGY	 Working Draft #1 (Jan)	 Revised Working (Admin) Draft (May)		 CS Public Draft (Dec)			 Final 2022 CS Update		
CVFPB PROCESS						 Public Hearings 	 Public Workshops 		

We are here



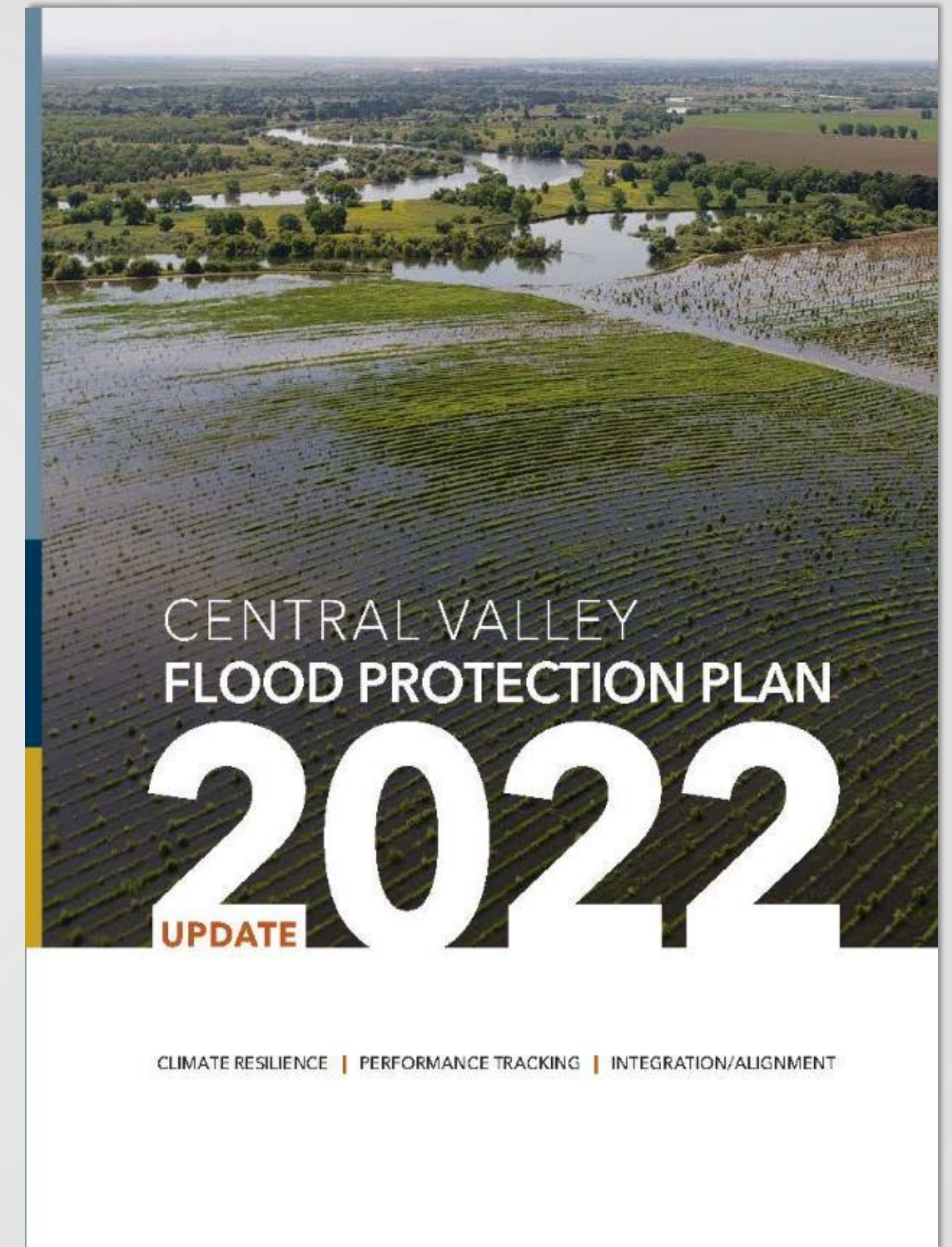
CALIFORNIA DEPARTMENT OF
WATER RESOURCES



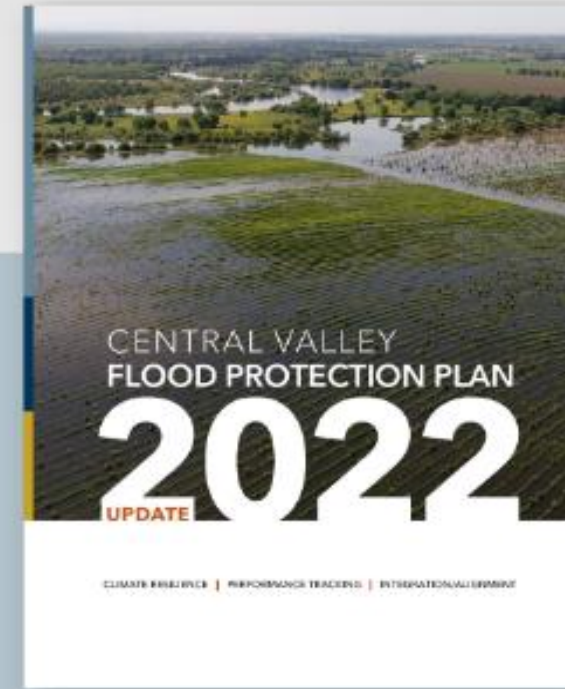
STATE OF CALIFORNIA
**CENTRAL VALLEY
 FLOOD PROTECTION BOARD**

Refresher: 2022 CVFPP Update

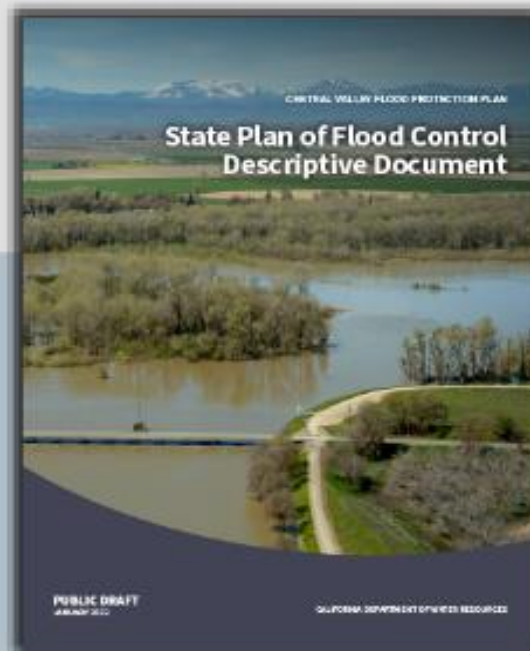
- Builds on the 2017 CVFPP Update
- Descriptive, not a funding or permitting decision
- Prioritizes State investment, recommendations for implementation over the next 30 years
- Integrates and improves ecosystem functions associated with flood management, promotes multi-benefit projects
- Assesses progress and effectiveness of investments from the previous cycle



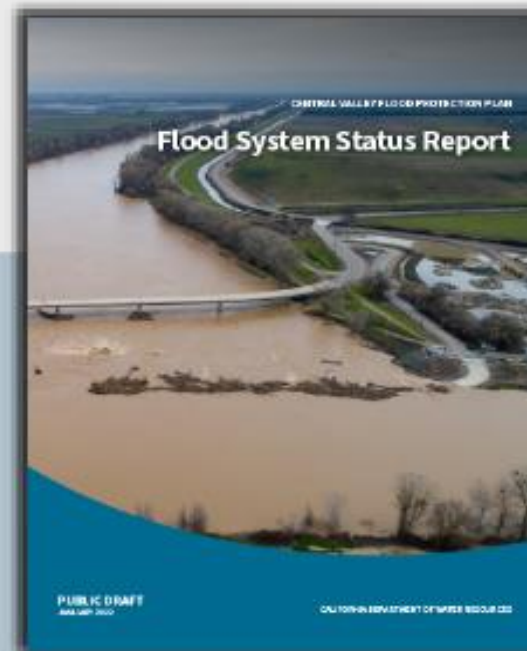
The 2022 CVFPP Update includes a suite of important documents.



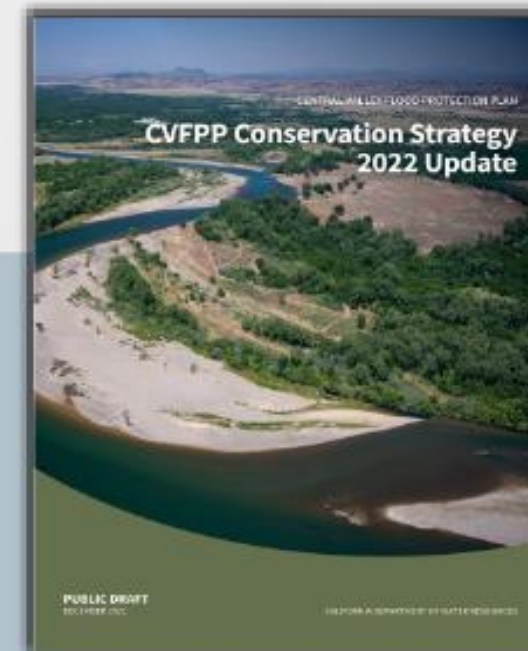
2022 CVFPP Update



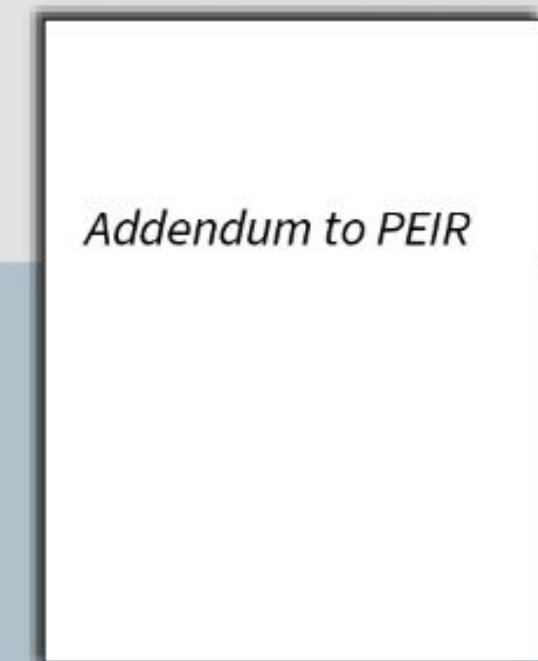
SPFC Descriptive Document



Flood System Status Report



Conservation Strategy Update

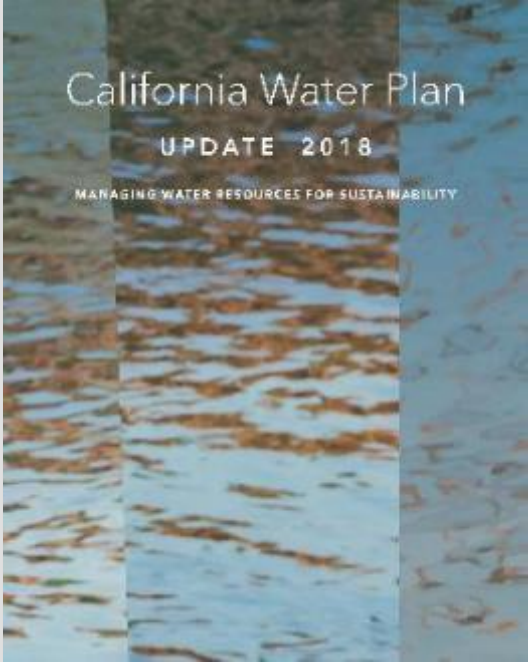
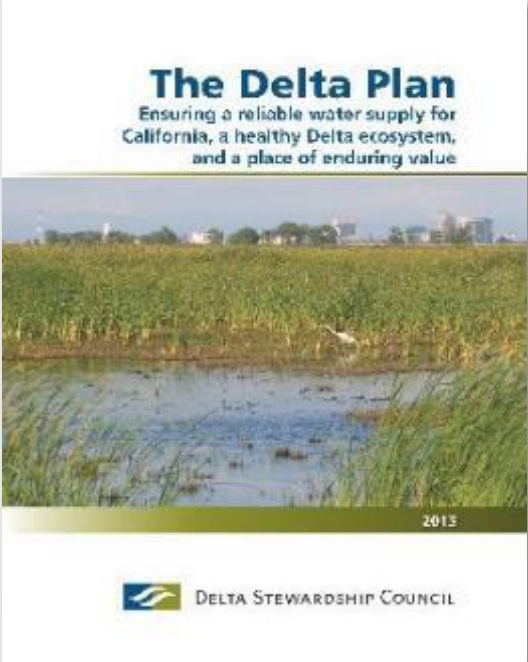
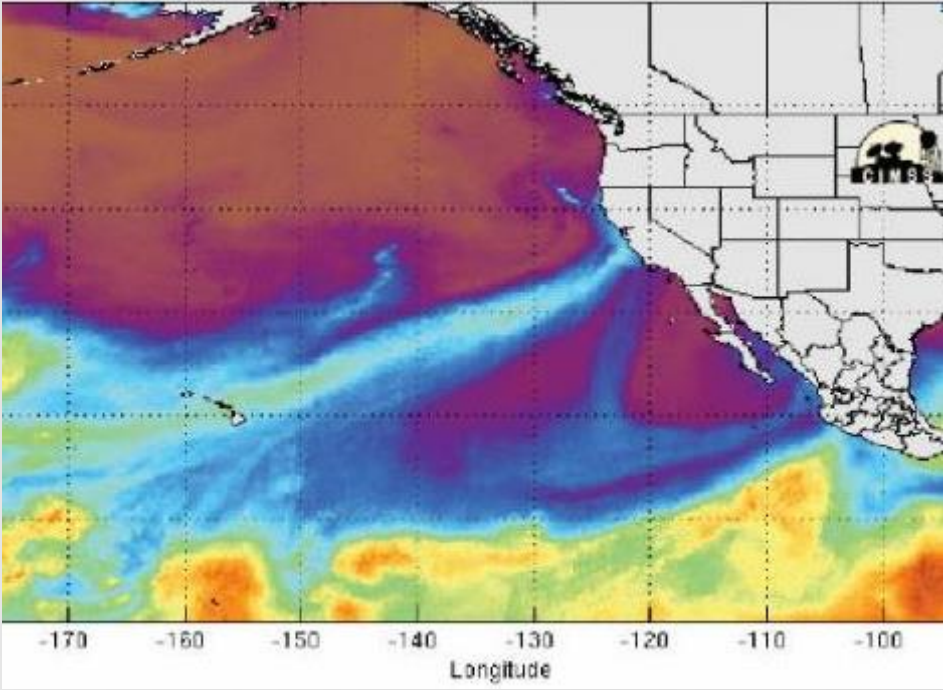


CEQA



The 2022 CVFPP Update has three primary themes

- ✓ **Build** flood system climate resiliency
- ✓ **Align** with other State water management planning efforts
- ✓ **Increase** accountability and adaptation through performance tracking



STATE OF CALIFORNIA
WATER RESILIENCE
PORTFOLIO INITIATIVE



CALIFORNIA DEPARTMENT OF
WATER RESOURCES



STATE OF CALIFORNIA
CENTRAL VALLEY
FLOOD PROTECTION BOARD

The 2022 CVFPP Update & San Joaquin County

✓ Flood system climate resiliency

- Priority actions include expansion of Paradise Cut, Stockton metropolitan area improvements, and completion of the Mossdale Tract Urban Flood Risk Reduction study.
- Chapter 3 of the CVFPP provides specific information for urban and rural areas by RFMPs including for areas within San Joaquin County.



The 2022 CVFPP Update & San Joaquin County

- ✓ **Flood system climate resiliency**
- Includes actions that use flood flows for groundwater recharge:
 - Watershed-scale Flood-MAR opportunities and pilot projects
- Accomplishments, challenges, and priorities related to San Joaquin County are highlighted in the Lower San Joaquin River/Delta South regional overview of the 2022 CVFPP Update.



The 2022 CVFPP Update & San Joaquin County

✓ Flood system climate resiliency

- Most current information and three climate change scenarios covering flood risk under future climate change conditions for the San Joaquin Basin.
- Recommend continuation of watershed studies in the San Joaquin River Basin using the best available science highlighted in the latest 6th Assessment Report from the Intergovernmental Panel on Climate Change.
 - Five new studies are scheduled to be completed in 2024.



The 2022 CVFPP Update & San Joaquin County

- ✓ Alignment with other State water management planning efforts

California Water Resilience Portfolio

24.5 Update and refine the regional flood management strategy in the Central Valley Flood Protection Plan to account for the projected impacts of climate change to protect vulnerable communities and infrastructure and restore floodplains along the San Joaquin River and its tributaries.

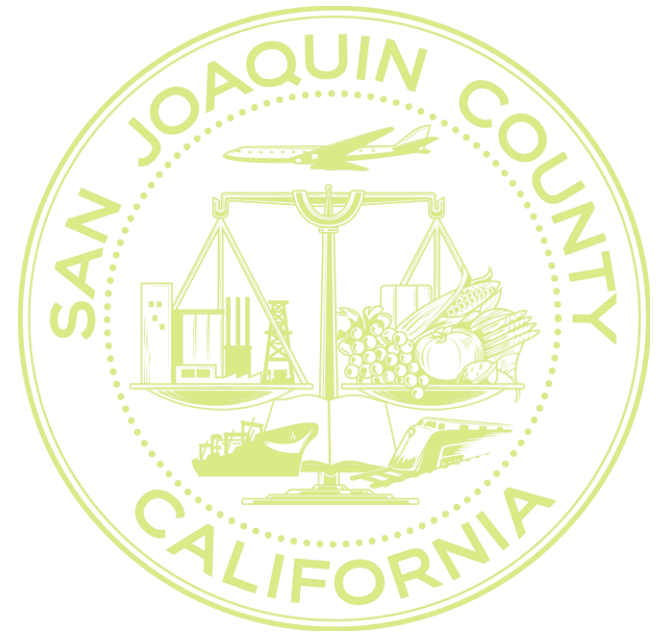


Thank you





Greatness grows here.



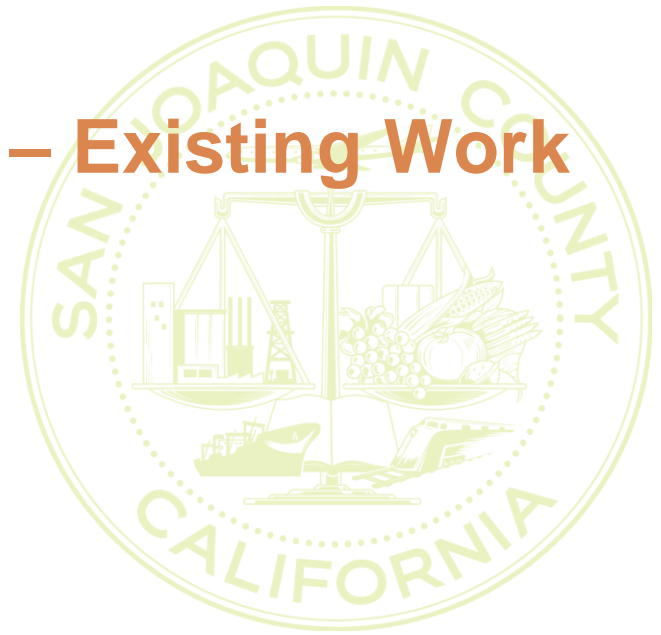
Deferred Maintenance Project Flood System Repair Project

Deferred Maintenance Project - Background

- **California Department of Water Resources Grant**
- **100% Funded by DWR**
- **Phase I**
 - Inspect levee penetrations and determine pipe eligibility
- **Phase II(a)**
 - Repair/rehab eligible pipes
- **Phase II(b)**
 - Replace eligible pipes



Deferred Maintenance Project – Existing Work



- **Completed repair/rehab work**
 - Urban: 28
 - Non-urban tier 1: 1
 - Non-urban tier 2: 0
 - Total: 29
- **Remaining repair/rehab work**
 - Tentatively scheduled Q1 & Q2 2023
 - Urban: 2
 - Non-urban tier 1: 38
 - Non-urban tier 2: 5
 - Total: 45
- **Total repair/rehab work: 74***

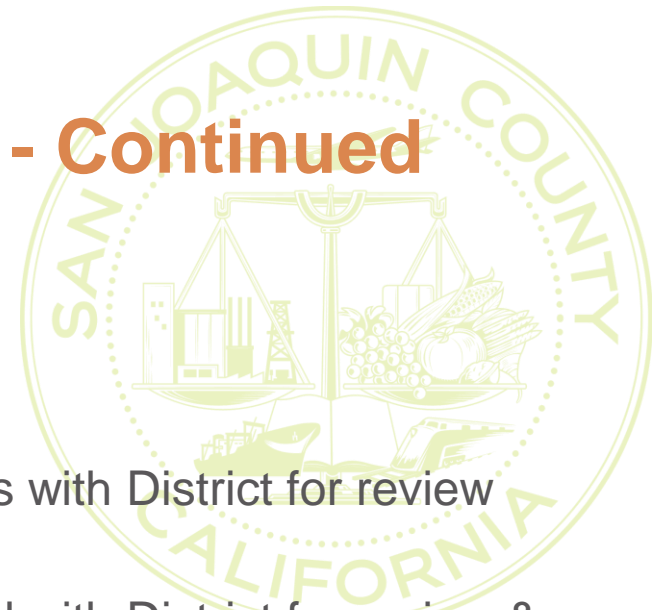
*DSID 23539 was determined to be ineligible (drainage pipe)

Deferred Maintenance Project - Upcoming



- **Phase II(b) discussions started**
 - Replacement of eligible pipes
 - DWR & District Staff met on 9/27 & 10/12
 - Discussion of locations, scope of work, roles & responsibilities
 - Hybrid model for project delivery
 - DWR lead design, permit development
 - District applies for permits, manages environmental compliance, and bids & constructs project
 - All associated costs still 100% reimbursable by DWR
 - Project consists of
 - Urban: 5
 - Non-urban tier 1: 5
 - Non-urban tier 2: 4
 - Total: 14 pipes to be replaced
 - Planned for 2023/2024 construction seasons

Deferred Maintenance Project - Continued



- **Phase II(b) status**

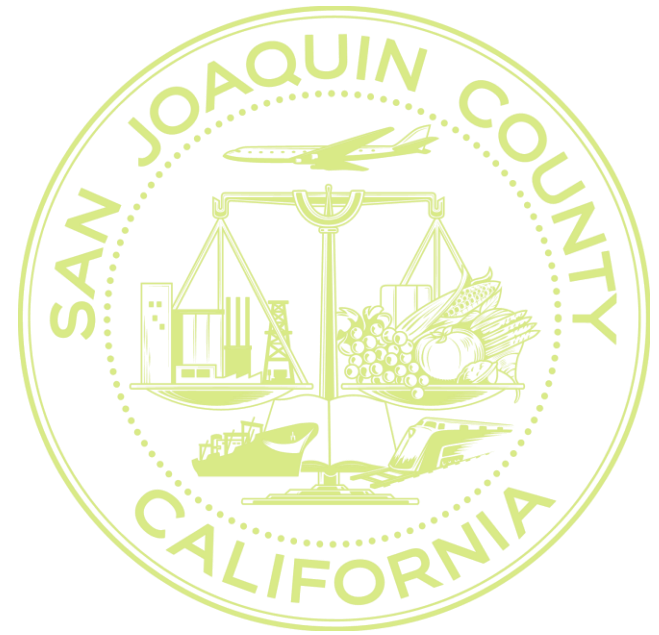
- Grant Agreement being developed
- PS&E at 65% ready for peer review
- CEQA resource surveys completed; reports with District for review
 - Anticipating Categorical Exemption
- CVFPB Minor Alterations Letter drafted and with District for review & signature.
- DWR field crews conducting topographic surveys coordinating with District
- DWR & County real estate coordinating on TEP
- Next District meeting with DWR
 - End of October – General updates/status
 - Early December – Peer review of PS&Es



Greatness grows here.

Flood System Repair Project

Mormon Slough



Flood System Repair Project – Background

- **California Department of Water Resources Program**
- **90/10 State/Local Cost Share Program**
- **Focus on flood system repairs of flood damages for State Plan of Flood Control Facilities**



FSRP – Mormon Slough

- **Scope**
 - Critical erosion repair and protection of approximately 4,700 linear feet of Mormon Slough levees via RSP
- **Cost**
 - Budget – \$12.3M
 - Costs to-date – \$10.6M
- **Schedule**
 - Construction tentatively completed Oct/Nov 2022*
 - Grant Closeout December 31, 2022

*In water work completed 10/15/22



FSRP – Mormon Slough

