

# *Santa Ana River Flood Protection Agency*

## **Executive Director**

Herbert I. Nakasone

## **SARFPA EXECUTIVE MEETING MINUTES**

## **Members**

City of Anaheim  
City of Buena Park  
City of Cypress  
City of Fountain Valley  
City of Fullerton  
City of Garden Grove  
City of Huntington Beach  
City of Irvine  
City of Newport Beach  
City of Orange  
City of Placentia  
City of Santa Ana  
City of Seal Beach  
City of Stanton  
City of Tustin  
City of Westminster  
City of Yorba Linda  
County of Orange  
Costa Mesa Sanitary District  
O C Sanitation District  
O C Flood Control District  
O C Water District

January 26, 2023, at 4:00 p.m.

Zoom Meeting

### **Attendance/Attendees:**

Patrick Harper, SARFPA Chairman, Mayor, City of Fountain Valley  
Bruce Whitaker, SARFPA Vice-Chairman, Mayor Pro Tem, City of Fullerton  
Pat Burns, Council Member, City of Huntington Beach  
Cathy Green, Director, Orange County Water District  
James Tyler, SARFPA Executive Committee, OC Public Works, Alt. to Supervisor Don Wagner  
Art Perry, Director, Costa Mesa Sanitary District  
Frances Marquez, Council Member, City of Cypress  
Janice Lim, Council Member, City of Yorba Linda  
Keith Linker, City Engineer, City of Anaheim  
Mark Toy, General Manager, Yorba Linda Water District  
Kelly Rowe, Director, Orange County Water District  
Jonathan Hernandez, Director, OC Sanitation District  
Pipit Widjaja, OC Public Works  
Tim Nguyen, OC Public Works  
Herb Nakasone, Executive Director, Santa Ana River Flood Protection Agency

## **Mailing Address**

P.O. Box 4048  
Santa Ana, CA 92702-4048

### **1. Call to Order**

Zoom Meeting Call to Order at 4:05 p.m. by Chairman Patrick Harper, Mayor, City of Fountain Valley

## **Email Address:**

Herb.Nakasone@ocpw.ocgov.com  
hinakasone22@gmail.com

### **2. Pledge of Allegiance**

Pledge of Allegiance led by Herb Nakasone, SARFPA Executive Director

## **Phone**

(714) 647-3938  
(949) 922-1852

### **3. Approve Minutes of November 17, 2022 Full Agency Meeting**

Minutes of November 17, 2022 Full Agency Meeting was approved unanimously on Motion by Cathy Green, Director, Orange County Water District and Second by Bruce Whitaker, Mayor Pro Tem, City of Fullerton.

## **Location**

601 N. Ross Street  
Santa Ana CA 92701

### **4. Santa Ana River Mainstem and Westminster Project Status:**

a. James Tyler, OC Public Works Engineering Manager, using a Power Point Presentation, introduced the Santa Ana River Mainstem Project (SAR) as a major three County flood protection project on the Santa Ana River that provides flood protection to Orange, Riverside and San Bernardino Counties. James reported that the features of the Project in Riverside and San Bernardino counties such as the Seven Oaks Dam in San Bernardino County which contributes to the flood protection to Orange County have been completed. James explained that the SAR Project has been underway since 1989. The remaining features of the SAR include the raising of the Prado Dam spillway, protection of three existing facilities behind

## **Website**

[www.ocflood.com/sarp/sarfpa](http://www.ocflood.com/sarp/sarfpa)

# *Santa Ana River Flood Protection Agency*

Prado Dam along with property acquisition and utility relocations behind Prado Dam and major improvements to Santiago Creek in Orange County.

- b. James reported the construction of bank protection features and the ATSF bridge pier improvements below Prado Dam in Reach 9 of the Santa Ana River between Weir Canyon Bridge and Prado Dam have all been completed and awaiting turn over by the US Army Corps of Engineers (USACE) to the Orange County Flood Control District (OCFCD).
- c. In regard to the Santiago Creek Project in Orange County, James reported the USACE is having a Public Meeting scheduled for 7 pm tonight at the County's Conference Center at 301 Ross Street. The purpose of the meeting is to obtain comments from residents directly affected by the project. It was requested the Zoom link for the USACE presentation be sent to the SARFPA members.
- d. In regards the raising of the Prado Dam spillway, James reported the property acquisitions and utility relocations need to be completed before construction can be initiated. Thirteen properties remain to be acquired by the County of Orange and the necessary Court Order of Possession is anticipated to be obtain during the current year. Utility agreements with the Edison Co. and other utility companies are also anticipated to be completed in 2023. The raising and improvements to the Prado Dam Spillway estimated at \$1.35 million is under design and estimated to begin construction in 2024
- e. The three remaining construction features behind Prado Dam currently underway include the following projects:
  - The first phase of Alco Dike Project estimated at \$21.4 million is completed. The second phase estimated at \$21.5 million is anticipated to be completed in the Fall of 2023.
  - River Road Improvement Project estimated at \$9.2 million is scheduled for completion in the Fall of 2023.
  - The Norco Bluffs Protection Project estimated at \$29.8 million is scheduled to be completed in the Fall of 2024.
- f. Westminster Project: James provided the following on the Westminster Project.
  - The project has been authorized by Congress in the Water Resources Development Act of 2020.
  - The Project now requires appropriations (funding) for a New Start from Congress in order for the USACE to begin construction on the Project.
  - The cost share of the Project requires the Local Sponsor, who is the Orange County Flood Control District (OCFCD), to fund \$910 million of the \$1.22 billion project cost or close to 75% of the project cost. The Federal share of the project cost is \$315 million due to its inability to justify increased funding due to the cost benefit allowed on federal projects. The OCFCD's goal of the Westminster Project is to provide a 100-year level of flood protection which requires the increase funding.
  - The OCFCD has proceeded to award incremental construction contracts on segments of the Westminster Project based on the premise that it will

# *Santa Ana River Flood Protection Agency*

receive credit for its expenditures of the Project when appropriations are approved by Congress.

- The OCFCD recently awarded a construction contract for channel improvements between Warner Avenue and Golden West Street along with bridge improvements at Warner Avenue, Springdale Street and Edwards Street.

## **5. Report from Executive Director Herbert Nakasone:**

- a. An email to new members explaining SARFPA role and purpose was recently delivered. Copy attached.
- b. A tentative field trip to Prado Dam is planned in April or May.
- c. A presentation by the USACE to residents affected by the Santiago Creek Project is scheduled for 6:00 pm today, January 23, 2023.

## **6. Public and Representative Comments:**

Comments were received from the following during the discussion on the SARP and Westminster Projects:

- a. General Mark Toy commented on his various positions with the USACE and remarked on his interest in assisting SARFPA in using his experience to coordinate with the USACE on seeking federal funding on the SARP and Westminster Projects.
- b. Francis Marquez, Council Member, City of Cypress asked if SARFPA coordinated with our congressional representatives and reported she was a Legislative assistant to Congressman Lowenthal and was interested in assisting in seeking support from our congressional delegation.
- c. Kelly Rowe remarked he would inquire with the City of Roseville on its ability to obtain a FEMA Flood Insurance Rating of 1 and share the information with SARFPA. Kelly also commented that the Orange County Water District was interested in using the basin upstream of Katella Avenue and based on liability concerns stated the County of Orange should have the Katella Road crossing place on a priority for evaluating its safety as a dam.

## **7. Adjournment**

Meeting was adjourned at 4:55pm

Attachment:

- Introduction letter to new members
- Power Point Presentation from James Tyler

# *Santa Ana River Flood Protection Agency*

## **Executive Director**

Herbert I. Nakasone

## **Members**

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City of Buena Park  
City of Cypress  
City of Fountain Valley  
City of Fullerton  
City of Garden Grove  
City of Huntington Beach  
City of Irvine  
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## **Mailing Address**

P.O. Box 4048  
Santa Ana, CA 92702-4048

Email Address:  
Herb.nakasone@ocpw.ocgov.com  
Hnakasone22@yahoo.com

## **Phone**

(714) 647-3938  
(949) 922-1852

## **Location**

601 North Ross Street  
Santa Ana, CA 92701

## **Website**

[www.ocflood.com/sarp/sarfpa](http://www.ocflood.com/sarp/sarfpa)

Dear: Natalie Meeks, Council Member, City of Anaheim

Subject: Introduction and SARFPA Information

Welcome and Congratulations on being your City representative to the Santa Ana River Flood Protection Agency (SARFPA). We are a Joint Powers Agency of public agencies in Orange County formed to support the Joint U.S. Army Corps of Engineers and Orange County Flood Control District's Santa Ana River Mainstem Project. SARFPA's focus is on assisting the County of Orange in seeking Federal funding for the Santa Ana River Mainstem and Westminster Watershed Projects. Enclosed for your information are the following:

1. Frequently Asked Questions on SARFPA
2. Fact Sheet on the \$2.4 billion Santa Ana River Mainstem Project
3. Information on the Westminster Watershed Project
4. SARFPA's 2021 Meeting Schedule

As your city representative to SARFPA, you are requested to attend at least two of our Agency meetings per year. The first is on June 22, 2023 and the second on November 16, 2023.

The other optional five meetings are Executive Committee Meetings scheduled on January 26, March 23, May 25, July 27 and September 28 of 2023. The current Executive Committee Members were selected at last year's June 23, 2022 Agency Meeting. The election of our eight Executive Committee members is held each year during the June Agency Meeting scheduled for June 23, 2023 this year. Members interested in serving on the Executive Committee are requested to notify Executive Director Herb Nakasone at [hinakasone22@gmail.com](mailto:hinakasone22@gmail.com).

Should you have any questions regarding SARFPA and its activities, please contact me by email at [Herb.Nakasone@ocpw.ocgov.com](mailto:Herb.Nakasone@ocpw.ocgov.com) or [hinakasone22@gmail.com](mailto:hinakasone22@gmail.com) or by cell phone at 949-922-1852.

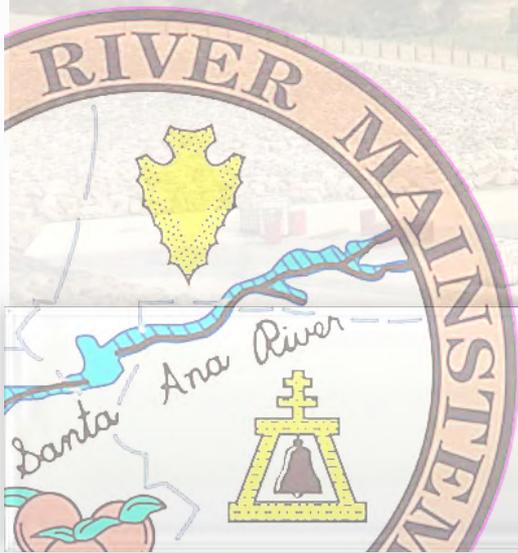
Sincerely,



Herbert I Nakasone, Executive Director  
Santa Ana River Flood Protection Agency

# Santa Ana River Flood Protection Agency

**EXECUTIVE COMMITTEE MEETING  
January 26, 2023**

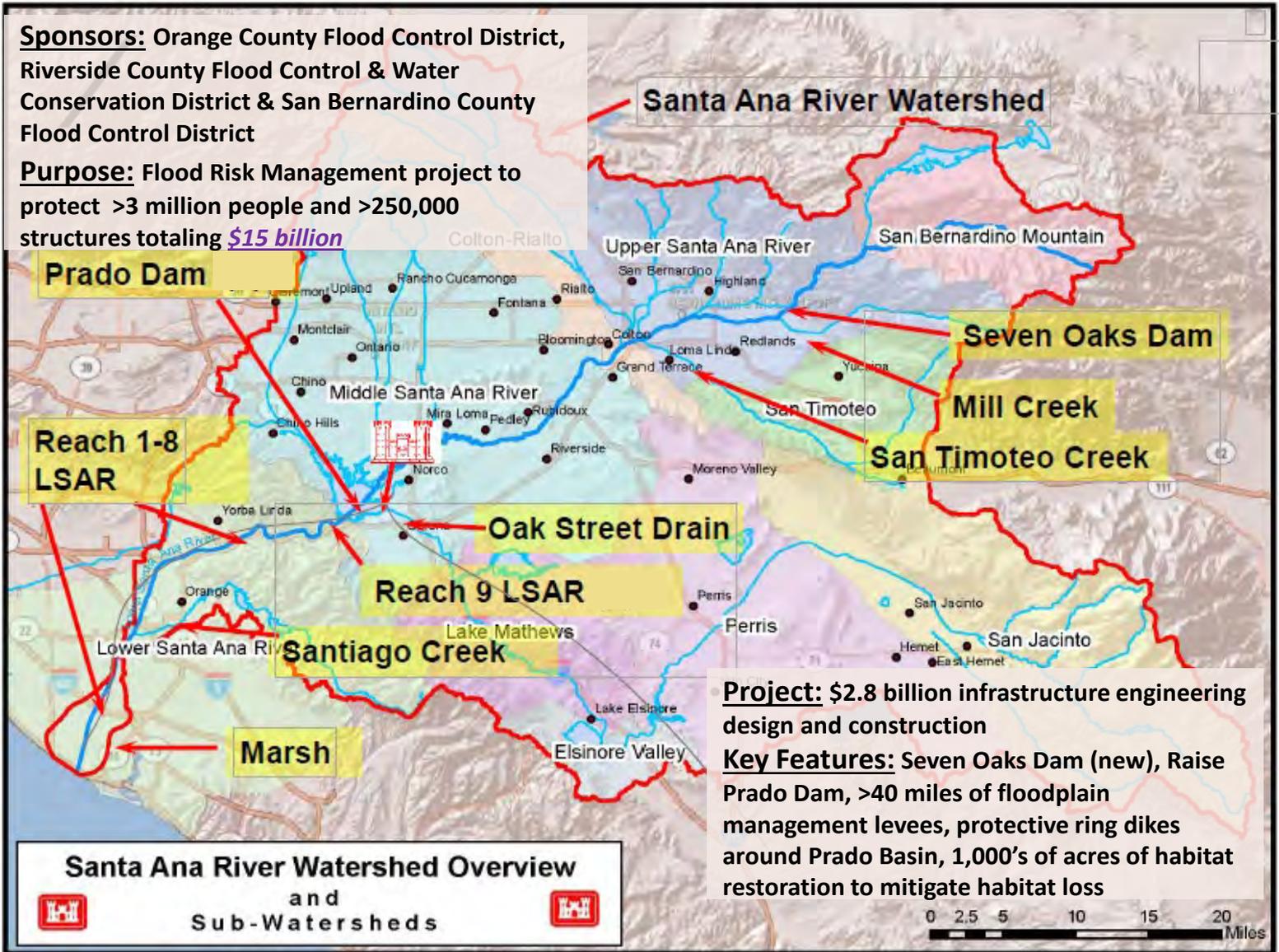


***Santa Ana River Mainstem  
Project Updates***



**Sponsors:** Orange County Flood Control District, Riverside County Flood Control & Water Conservation District & San Bernardino County Flood Control District

**Purpose:** Flood Risk Management project to protect >3 million people and >250,000 structures totaling **\$15 billion**





# SANTA ANA RIVER MAINSTEM SCHEDULE

- **FY19** : Ongoing Design & Construction
- **FY21** : Norco Bluffs (\$29.7M)  
River Road Dike (\$18.1M)  
Alcoa Dike – Phase 2 (\$30.8M)
- **FY24** : Spillway (\$1.35B)
- **FY31** : Construction Completion (All Features)
- **FY31-36** : 5 Year Monitoring & Fiscal Close Out
- **Santiago Creek (\$185M)** – A \$2.5M budget was allocated to develop a proposed design for a project that meets the intent of the original authorized SARM Project. 95% DDR review has been completed. Passive reservoir design (i.e., no outlet structure) will be included in the final DDR. The DDR, which will be converted to EDR due to a significant change to the authorized design, will be completed by Feb 2023. Change Control Board decision to follow whether project will be funded through BBA or regular appropriations.

**\* SCHEDULE SUBJECT TO REAL ESTATE ACQUISITION &  
ENVIRONMENTAL CLEARANCE**



US Army Corps  
of Engineers®

## NOTICE OF PUBLIC MEETING The Santa Ana River Mainstem (SARM) Santiago Creek Flood Risk Management Project Proposed Channel Improvements



A public meeting will be conducted by the U.S. Army Corps of Engineers in partnership with Orange County Public Works. A presentation will be made on the proposed creek channel improvements in the area near your property between Interstate 5 and the confluence of Santiago Creek with the Santa Ana River in Orange County, California. The Project Team would like to get your input on the proposed design of the channel improvements.

Meeting Date: Thursday, January 26, 2023

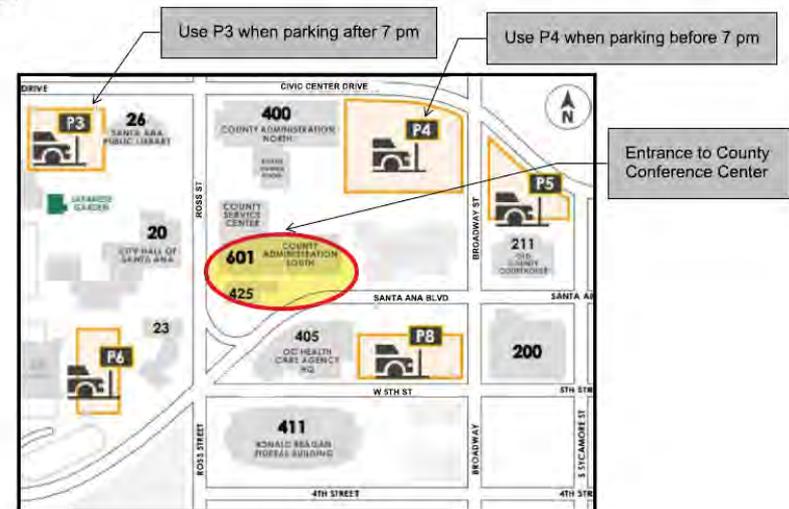
Meeting Time: 6:30 PM Pacific Time

Meeting Place: County Conference Center  
OC Public Works  
601 N. Ross St.  
Santa Ana, CA 92701

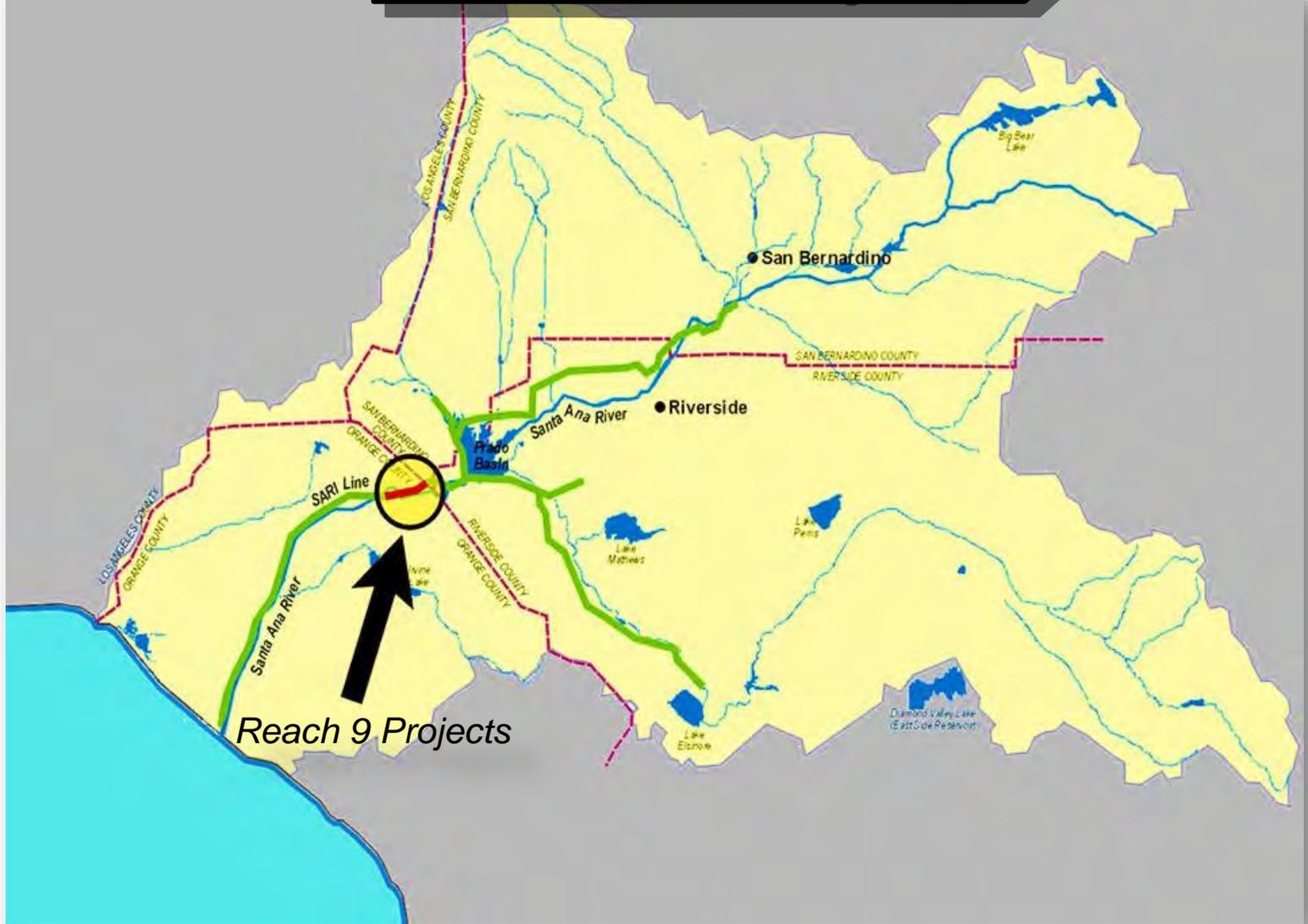
For Virtual Attendance via Zoom, please visit:  
(Para asistencia virtual a través de Zoom, visite:)

[www.ocpublicworks.com/events](http://www.ocpublicworks.com/events) or  
[www.ocpublicworks.com/events/notice-public-meeting-santa-ana-river-mainstem-sarm-santiago-creek-flood-risk-management](http://www.ocpublicworks.com/events/notice-public-meeting-santa-ana-river-mainstem-sarm-santiago-creek-flood-risk-management)

Please contact Mr. Michael Padilla at the U.S. Army Corps of Engineers at email address [michael.c.padilla@usace.army.mil](mailto:michael.c.padilla@usace.army.mil) for inquiries regarding the public meeting.



# Santa Ana River Mainstem Project Lower SAR remaining work



# Santa Ana River Mainstem Project Reach 9 – Phase 4



## LEGEND

### Reach 9 Embankment Protection

	Phase 2A		Phase 4
	Phase 2B		Phase 5A
	Phase 3		Phase 5B

## REACH 9 - PHASE 4

**Construction Contract Award Date: April 2016**  
**Construction Completion Date: Nov 2019**  
**Final Walkthrough: Jan 30, 2020**  
**Turnover to Local Sponsor: After Completion of maintenance repair by the Corps (Tentative Date: Feb 2023)**

**Construction Project Cost = \$15 M**

**Approx. 3,000 feet of soil cement levee embankment**

**REACH 9 PHASE 4 FUNDED IN FY15**

## Reach 9 Phase 4



***Bikeway with Landscaping (May 2022)***

***Inlet Structure Adjacent to Bikeway (May 2022)***



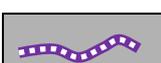
***Soil Cement & DG Trail (May 2022)***

# Santa Ana River Mainstem Project Reach 9 – Phase 5A & 5B



## LEGEND

### Reach 9 Embankment Protection

	Phase 2A		Phase 4
	Phase 2B		Phase 5A
	Phase 3		Phase 5B

## REACH 9 - PHASE 5A & B

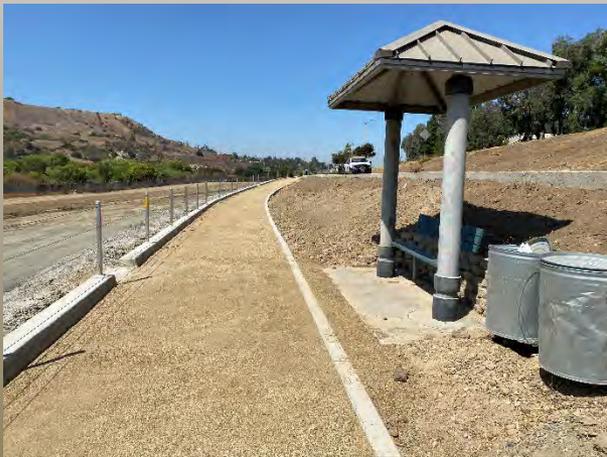
**Reach 9 Phase 5A (Approx. 100% complete)**  
 Construction Contract Award Date: Sept 2015  
 Construction Completion Date: Jan 2019  
 Construction Cost = \$23 M  
 Turnover to Local Sponsor: After completion of maintenance repair by the Corps (Tentative Date: Feb 2023)

**Reach 9 Phase 5B (Approx. 50% complete)**  
 Construction Contract Award Date: Oct 2016  
 OHL Contract Terminated.  
 Interim on-call contractor hired by Corps in Jan 2020;  
 New main contract awarded in Sept 2020;  
 Silverstrand Construction  
 Construction Cost Estimate = \$22.5 M  
 Construction Completion Date: Oct 2022  
 Turnover to Local Sponsor: (Tentative Date: May 2023)

**REACH 9 PHASE 5A FUNDED IN FY15; REACH 9 PHASE 5B FUNDED IN FY16**

## Reach 9 Phase 5B

### *Photos from Aug 2022 - Final Bikeway Inspection*



## Reach 9 Phase 5B

### *Photos from Aug 2020 for Interim Work*



### *Photos from September 2021*



# PRADO DAM ACQUISITION AND UTILITY RELOCATION



## PRADO DAM BASIN ACQUISITION

Prado Basin Property Acquisitions	Properties	Cost
Total properties below 566 ft	235	-
Deletions due to negligible impact	122	-
Actual number of properties to be acquired	113	\$315M
Acquired to date (as of December 2022)	100	\$235M*
Remaining to be acquired	13	\$80M**

\*Land value only (no soft cost)

\*\*Estimate

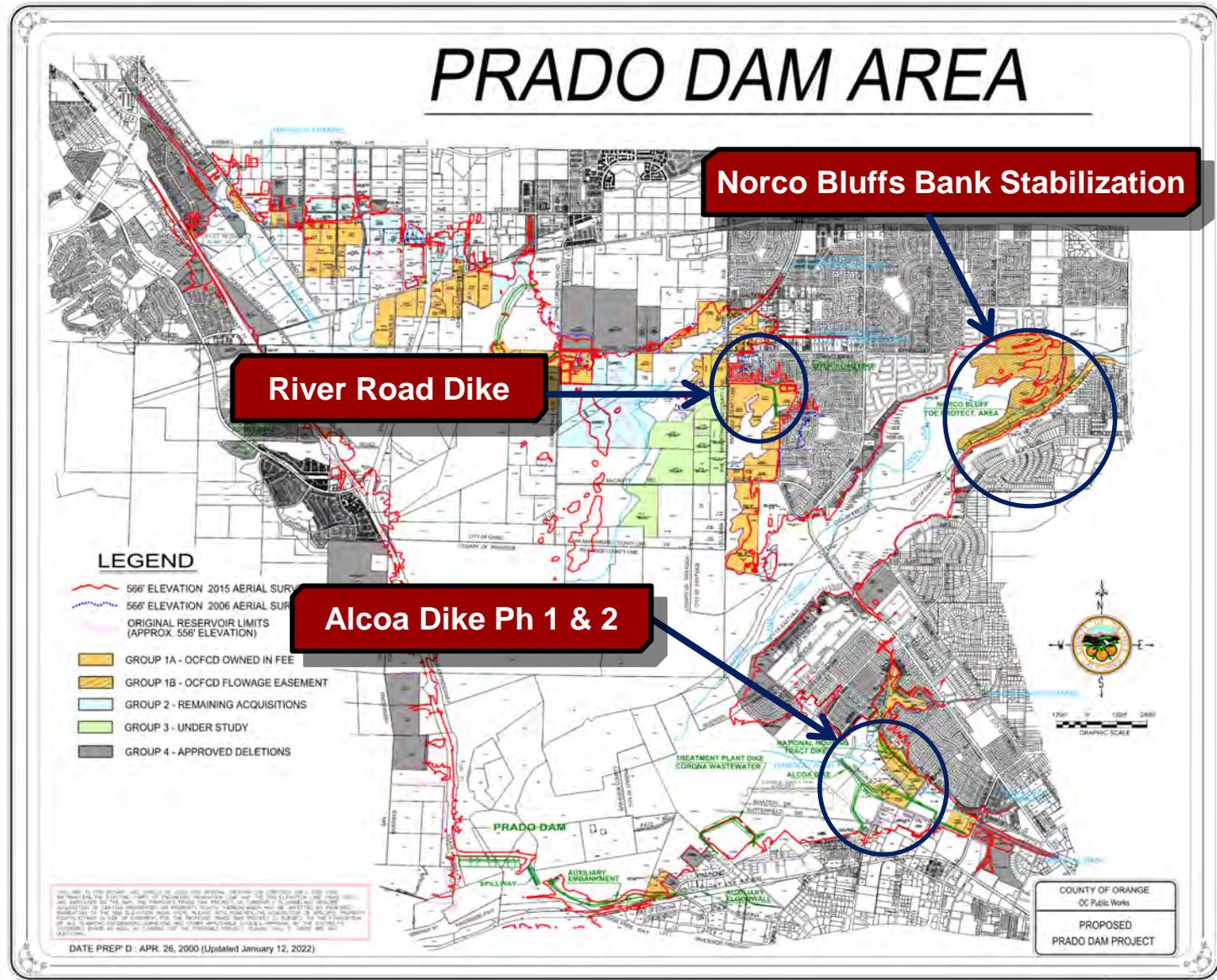
Current LERRDs deadline is May 2023

# UTILITY RELOCATION

	Est. Cost \$ million	Est. Cost \$ million per OCPW Analysis
7 Utility Companies – Agreements in Place (JCSD, SAWPA, IEUA, Cities of Chino, Corona, Norco and Eastvale)	\$2.5	\$2.5
Remaining Utility – SCE (estimated cost includes design)	\$142.5	\$0.2
Transmission Lines (analysis complete/waiting for Corps concurrence/amendments ongoing)	\$11	\$0
Sub-transmission Lines (analysis complete/waiting for Corps concurrence/amendments ongoing)	\$98	\$0
Distribution – (Prior rights analysis underway)	\$20	\$0.20
Study	\$13.5	\$0

Current LERRDs deadline is May 2023

# PRADO DAM AREA



**Norco Bluffs Bank Stabilization**

**River Road Dike**

**Alcoa Dike Ph 1 & 2**

## LEGEND

- 566' ELEVATION 2015 AERIAL SURV
- 566' ELEVATION 2006 AERIAL SURV
- ORIGINAL RESERVOIR LIMITS (APPROX. 556' ELEVATION)
- GROUP 1A - OCFCO OWNED IN FEE
- GROUP 1B - OCFCO FLOWAGE EASEMENT
- GROUP 2 - REMAINING ACQUISITIONS
- GROUP 3 - UNDER STUDY
- GROUP 4 - APPROVED DELETIONS

THIS MAP AND THE PROJECT AND STUDY INFORMATION ARE FOR INFORMATIONAL PURPOSES ONLY. THE COUNTY OF ORANGE DOES NOT WARRANT THE ACCURACY OF THE INFORMATION OR THE COMPLETION OF THE PROJECT. THE COUNTY OF ORANGE IS NOT RESPONSIBLE FOR ANY DAMAGES, INCLUDING CONSEQUENTIAL DAMAGES, ARISING FROM THE USE OF THIS MAP OR THE PROJECT INFORMATION. THE COUNTY OF ORANGE IS NOT A PARTY TO ANY CONTRACTS, AGREEMENTS, OR OTHER LEGAL INSTRUMENTS THAT MAY BE ENTERED INTO IN CONNECTION WITH THE PROJECT. THE COUNTY OF ORANGE IS NOT A PARTY TO ANY LITIGATION, DISPUTE, OR OTHER LEGAL MATTER THAT MAY BE BROUGHT IN CONNECTION WITH THE PROJECT. THE COUNTY OF ORANGE IS NOT A PARTY TO ANY CONTRACTS, AGREEMENTS, OR OTHER LEGAL INSTRUMENTS THAT MAY BE ENTERED INTO IN CONNECTION WITH THE PROJECT. THE COUNTY OF ORANGE IS NOT A PARTY TO ANY LITIGATION, DISPUTE, OR OTHER LEGAL MATTER THAT MAY BE BROUGHT IN CONNECTION WITH THE PROJECT.

DATE PREP'D - APR. 28, 2000 (Updated January 12, 2022)



COUNTY OF ORANGE  
OC Public Works  
PROPOSED  
PRADO DAM PROJECT

# PRADO DAM CONSTRUCTION

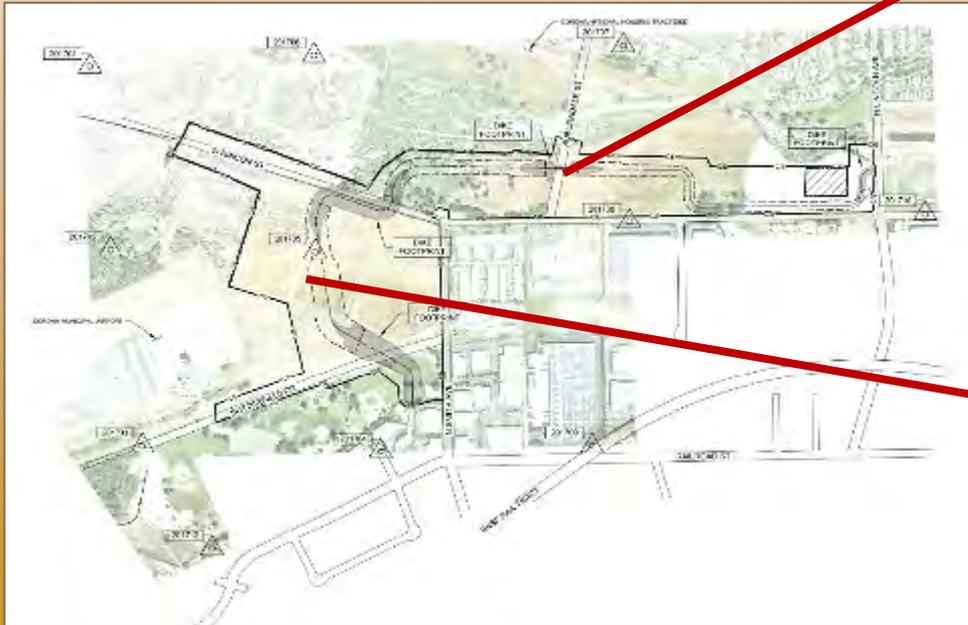
## **Phase 1 Contract Awarded – Sept 2018**

- **Contract Amount – \$21.4 M**
- **Completed – August 2020**

## **Phase 2 Contract Awarded – Sept 2021**

- **Contract Amount - \$24.5M**
- **Construction Start – January 2022**
- **Anticipate Completion – Fall 2023**

## Alcoa Dike

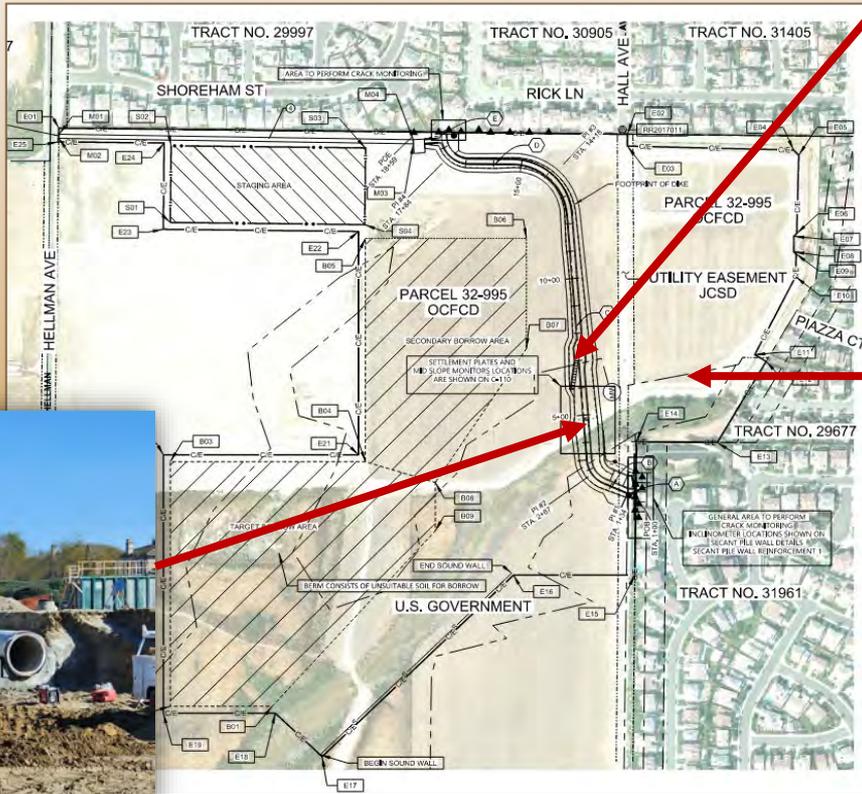


# PRADO DAM CONSTRUCTION

## Contract Awarded – Sept 2021

- **Contract Amount – \$9.2 M**
- **Construction Start – December 2021**
- **Anticipate Completion – Fall 2023**

## River Road Dike

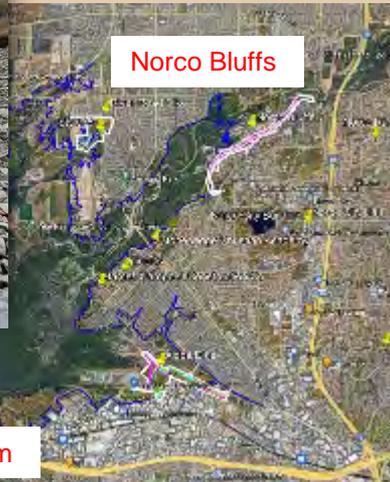


# PRADO DAM CONSTRUCTION

## Norco Bluffs Bank Stabilization

### *Contract Awarded – July 2021*

- *Contract Amount – \$29.8 M*
- *Construction Start – December 2021*
- *Anticipate Completion – Fall 2024*







# WESTMINSTER EAST GARDEN GROVE PROJECT UPDATE

*Santa Ana River Flood Protection Agency*  
**EXECUTIVE COMMITTEE MEETING**

*January 26, 2023*

 OC Public Works

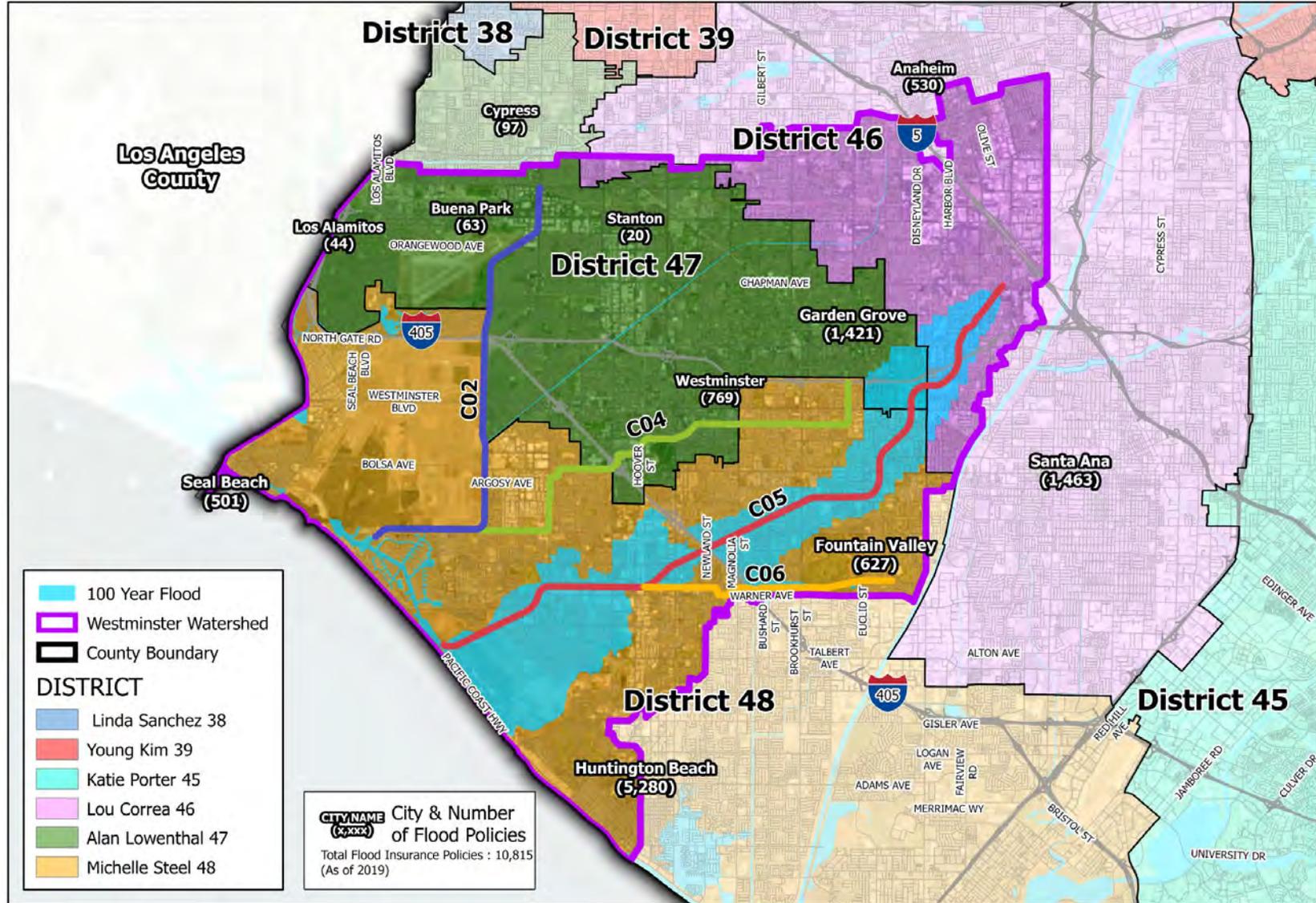


## Westminster East Garden Grove Project - Background

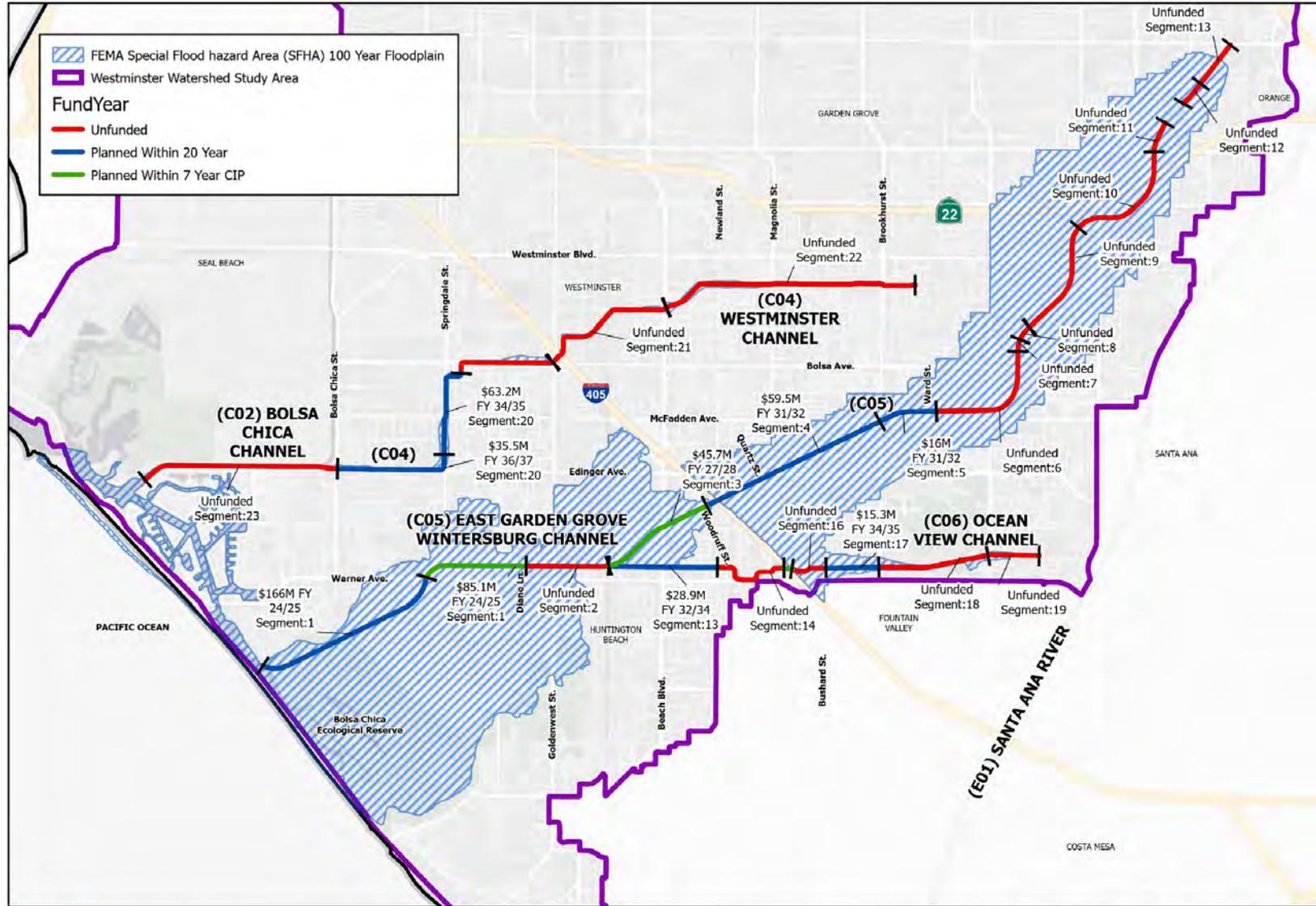


- ❖ **USACE (Federal) and OCFCD/County (Non-Fed) partners for the Study since 2003.**
- ❖ **74 Square Mile Watershed (largest remaining watershed in Orange County)**
- ❖ **250,000+ Population**
- ❖ **Estimated 20,000 structures at risk**
- ❖ **Estimated \$72M in Damages (for a 100 Year Event)**
- ❖ **Approximately 6,500 flood policies \$9 -11 Million (avg) paid in Flood Insurance policies per year**
- ❖ **Chief's Report was signed July 9, 2020 and provided to Congress for authorization in WRDA 2020**
- ❖ **The Project was authorized by Congress as part of WRDA 2020 and signed by the President as part of the Omnibus Bill December 2020.**

# Westminster Watershed Feasibility Study



# WEGG CHANNEL REACHES & APPROXIMATE COSTS



Facility	Limits	S&S Project Cost on CIP	Construction FY	USACE Segment	Plan
EGGW (C05)	from U/S Warner Avenue to 1,200 ft D/S Goldenwest Street (Diane Lane)	\$85,100,000	FY19-20	1	7-Year CIP
	from the confluence with Ocean View Channel (C06) to D/S Woodruff Street	\$45,696,500	FY27-28	3	7-Year CIP
	from U/S Quartz Street to U/S Bushard Boulevard	\$34,250,000	FY31-32	4	20 Yr SFP
	from U/S Bushard Street to U/S McFadden Avenue /Brookhurst Street	\$25,289,000	FY31-32	4	20 Yr SFP
	from U/S McFadden Avenue / Brookhurst Street to Ward Street	\$16,030,000	FY31-32	5	20 Yr SFP
	including tidegates to 1,200 ft D/S Goldenwest Street	\$166,170,000	FY24-27	1	7-Year CIP
Oceanview (C06)	from confluence with C05 to D/S Beach Blvd	\$14,300,000	FY32-33	13	20 Yr SFP
	from U/S Beach Boulevard to D/S Newland Street	\$14,600,000	FY33-34	13	20 Yr SFP
	from D/S Bushard Street to D/S Brookhurst Street	\$15,300,000	FY34-35	17	20 Yr SFP
Westminster (C04)	from Bolsa Chica Street to U/S Springdale Street / Edinger Avenue	\$35,500,000	FY36-37	20	20 Yr SFP
	from U/S Springdale Street / Edinger Avenue to D/S Bolsa Avenue	\$53,200,000	FY34-35	20	20 Yr SFP
		\$296,966,500	7 Year		
		\$208,669,000	20 Year		
		\$505,635,500	Total		
<i>Note: Other CIP projects will potentially be deferred</i>					

# WEGG PROJECT NEED ESTIMATES

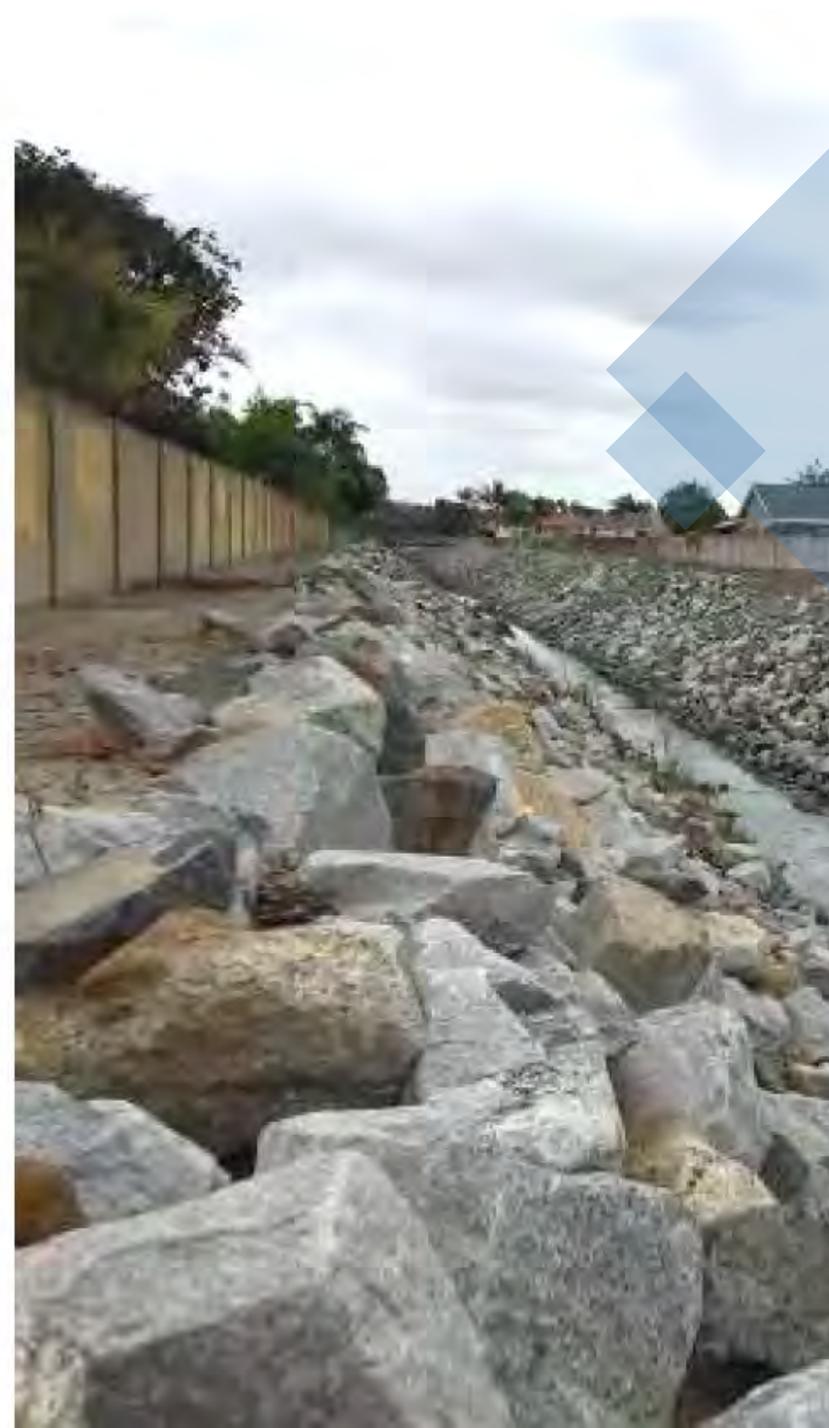
- ❖ **Pre-Construction, Engineering and Design (PED) Funding**
  - Needed before new start can be advocated for
  - Local sponsor cost share TBD
- ❖ **Funding**
  - Total project: \$1.2B (First costs)
  - Federal Share: \$315M
  - Local Share: \$910M
    - NED: \$169M
    - LPP: \$741M
  - State Subvention: ~50-70% of NED
  - 7 Year CIP Plan: \$297M
  - 20 Year CIP Plan: \$208M
  - Amount unfunded: \$910M - \$505M = \$405M



# WEGG Advocacy for 2022

## ❖ Federal

- **Corps FY 2023 Work Plan – \$500K Initial PED Funding**
  - **Advocate with Corps HQ and ASA**
    - **OCPW & OC Congressional Delegation Members**
- **Delegation letter – Congresswoman Steel**
  - **Advocate for potential remaining IIJA funds**



# Current & Future Activities

- ❖ OCPW is submitted an updated Letter of Intent 3/11/22 showing continued commitment to costshare its part of the Pre-Construction, Engineering & Design (PED) Phase of the project
- ❖ CEQA Study EIR to be certified by the Board of Supervisor - 2nd Quarter 2022
- ❖ Pre-Construction Engineering & Design (PED) – Draft Design Agreement was underway but requires PED funds to complete
- ❖ Project was not included in the USACE 2022 Work Plan for funding PED (next) phase
- ❖ Eventual USACE Project Partnership Agreement (PPA) after Authorization via WRDA bill. OCPW considering Other Funding Methods with USACE- Section 1043
- ❖ Cost Share for Construction: USACE 65% + OC 35% (for NED). Build now, apply as credit toward future project cost share
- ❖ State Subvention Funds- Project has been added to the program. Advocacy efforts shifting to getting funds for program. OCPW is beginning work with consultant to prepare the Floodplain Management Plan allowing County to be eligible for SSFs if they become available in the future.

# Current & Future Activities (cont.)

## ❖ OCPW continues construction of reaches for Work-In-Kind Credit.

### The Schedule for Construction by OCPW :

- EGGW (C05) - Warner to Goldenwest – FY 19-20 – Construction awarded June 2020 and in progress (NTP Sept 2020). Project is 95% complete and estimated to be completed in February 2023.
- C05- Bridges at Warner Av., Springdale and Edwards FY 22-23  
Bridge improvements Phase will allow ultimate improvements to system. Construction Manager at Risk (CMAR) design and construction awarded November 2022. Design is 90% complete, Construction is anticipated to begin Spring 2023.
- C05-Warner Ave Bridge at Huntington Harbor FY 25-26
- C05- Tidegates to 1,200 d/s of Goldenwest FY 26-27, 27-28, 28-29
- C05- Confluence w/ C06 to Woodruff – FY 28-29, 29-30

## ❖ FEMA Floodplain: Eventual removal by FEMA Letter of Map Revision (LOMR) beginning with lower reach

An aerial photograph of a residential street that has been completely flooded. The water is a dark, murky blue-grey color. The street curves to the right. On the right side of the street, there are houses with grey roofs and green trees. A white fence runs along the edge of the flooded area. In the foreground, there is a concrete barrier or wall. The overall scene is overcast and somber.

**QUESTIONS ?**