Santa Ana River Flood Protection Agency

Executive Director

Herbert I. Nakasone

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 0 C Sanitation District 0 C Flood Control District **O C Water District**

Mailing Address

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

Email Address: Herb.Nakasone@ocpw.ocgov.com hinakasone22@gmail.com

<u>Phone</u>

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

Location

601 N. Ross Street Santa Ana CA 92701

<u>Website</u>

www.ocflood.com/sarp/sarfpa

SARFPA EXECUTIVE MEETING MINUTES

March 23, 2023, at 4:00 p.m.

Attendance/Attendees: Patrick Harper, SARFPA Chairman, Mayor, City of Fountain Valley Bruce Whitaker, SARFPA Vice-Chairman, Mayor Pro Tem, City of Fullerton Kathleen Treseder, Council Member, City of Irvine Steven Sherwood, City Engineer, City of Irvine Pat Burns, Council Member, City of Huntington Beach Ray Schnell, Council Member, City of Tustin Jake Ngo, Public Works Director, City of Westminster Jun Wang, Engineer, Stantec 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 Mike Markus, General Manager, Orange County Water District Keith Linker, City Engineer, City of Anaheim Nabil Saba, Public Works Director, City of Santa Ana Jonathan Hernandez, Director, OC Sanitation District Dave Ahern, OC Public Works Nardy Khan, OC Public Works Pipit Widjaja, OC Public Works Tim Nguyen, OC Public Works Herb Nakasone, Executive Director, Santa Ana River Flood Protection Agency

1. Call to Order

Meeting Call to Order at the Orange County Water District Hearing Room by Chairman Patrick Harper at 4:05 pm

2. Pledge of Allegiance

Pledge of Allegiance led by Chairman Harper

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

Approve Minutes of January 26, 2023, Executive Committee Meeting - Chairman Patrick Harper.

Minutes of January 26, 2023 Executive Committee Meeting were unanimously approved based on Motion by Bruce Whitaker, Mayor Pro Tem, City of Fullerton and Second by Pat Burns, Council Member, City of Huntington Beach.

4. Santa Ana River Mainstem and Westminster Project Status:

James Tyler, OC Public Works Engineering Manager reported on the status of the Santa Ana River Mainstem and Westminster Watershed Project.

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James Tyler reported on the Santa Ana River Mainstem Project (SARP) using a Power Point presentation. James initiated his report by reviewing the overall SARP with an exhibit depicting the entire Santa Ana River watershed and identifying the main features of the SARP that have been completed and the remaining features currently underway. James explained the SARP is a federal project with the U.S. Army Corps of Engineers (USACE) as the lead federal agency and the Orange, Riverside and San Bernardino Flood Control Districts as the Local Sponsors. James identifies the construction projects currently underway as follows:

- a. Projects underway at Prado Dam and the construction cost as follows:
 - Norco Bluff \$29 million project scheduled to be completed in 2024.
 - River Road Dike \$18.1 million project scheduled for completion in late 2023.
 - Alcoa Dike Phase 2 \$30.8 million project scheduled for completion in late 2023.
- b. The following Projects in Reach 9 of the Santa Ana River between Weir Canyon Road and Prado Dam have been completed and scheduled for turn over to the OCFCD for maintenance:
 - Reach 9 Phase 4 bank embankment project.
 - Reach 9 Phase 5A and 5B bank protection projects.
- c. The USACE is preparing a design for the \$135 million Santiago Creek Project with the Engineering Design Review scheduled for submittal in September 2023.
- d. Property acquisition at Prado Dam is progressing on schedule with 10 properties remaining to be acquired. 113 properties have been acquired to date.
- e. Utility relocations at Prado Dam are continuing. Negotiations with the Edison Company regarding the relocating of their power lines appear to be an issue needing resolution.
- f. James reported the Santa Ana River flood control facilities, including Prado Dam performed exceptionally well during the recent storm events without major flooding to residents in Orange County. In addition, a significant amount of storm flows captured behind Prado Dam and Seven Oaks Dam have been successfully used to recharge the ground water basins in Orange and San Bernardino Counties. In Orange County, the Orange County Water District has been able to significantly replenish the ground water basin as a result of control release of storm flows retained at Prado Dam.

James Tyler reported on the status of the Westminster Watershed project as follows:

- a. The Orange County Flood Control District continues to award construction contracts to improve segments of the East Garden Grove Wintersburg Channel as identified in the USACE completed Westminster Watershed Study in anticipation of receiving credit towards a federal project to be funded by Congress.
- b. The Westminster Watershed is the second largest watershed in Orange County that continues to have a FEMA flood plain requiring residents to purchase mandatory flood insurance for those who have a home loan.

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- c. While the \$1.2 billion Westminster Watershed Project is a federally supported project, the federal share is limited by federal policy where the flood protection benefits must exceed the project cost. Since the flood protection benefits received on the Westminster Project only allows a federal construction expenditure that will provide less than a 100 year level of flood protection, the project supported by the federal guidance will not provide a level of flood protection that will remove the 100 year FEMA floodplain. Since the limited federal construction expenditure on the Westminster Project, will not allow the project to provide the desired 100 year level of protection and therefore prohibiting the remove the underlying FEMA floodplain, the County of Orange has elected to cover the cost above the federal share allowing the County of Orange proposed flood improvements to provide a 100 year level of protection thereby removing the FEMA floodplain which is the goal of the County of Orange.
- d. Although the Westminster Project will require the Orange County Flood Control District to expand twice as much funding on the Project as the federal government, the County of Orange continues to lobby Congress for federal appropriations of the Westminster Project since a Federal project will allow the State of California to participate in the funding of the Westminster project.

5. Report from Executive Director- Herb Nakasone

Herb announced a field trip to Prado Dam is tentatively scheduled for late May or early June. Vans will be provided for the six-hour field trip. Comfortable shoes are recommended. The date of the field trip and the pick-up locations will be announced at or prior to the June meeting.

6. Public and Representative Comments:

- a. Based on Johnathan Hernandez, Council Member, City of Santa Ana request to have the Zoom recording made available to the cities on the SARFPA web site, Executive Director Herb Nakasone will follow up on the request.
- b. Chairman Patrick Harper requested information on the cost of yearly flood insurance premiums paid by city residences. James Tyler will attempt to secure the information from FEMA.
- c. Executive Director Herb Nakasone introduced David Ahern, who is involved in Federal and State legislative activities for OC Public Works and will assist SARFPA in coordinating activities related to the funding of the Santa Ana River and Westminster Projects.

7. Adjournment

Chairman Patrick Harper adjourned the Meeting at 4:55 pm.

Attachment:

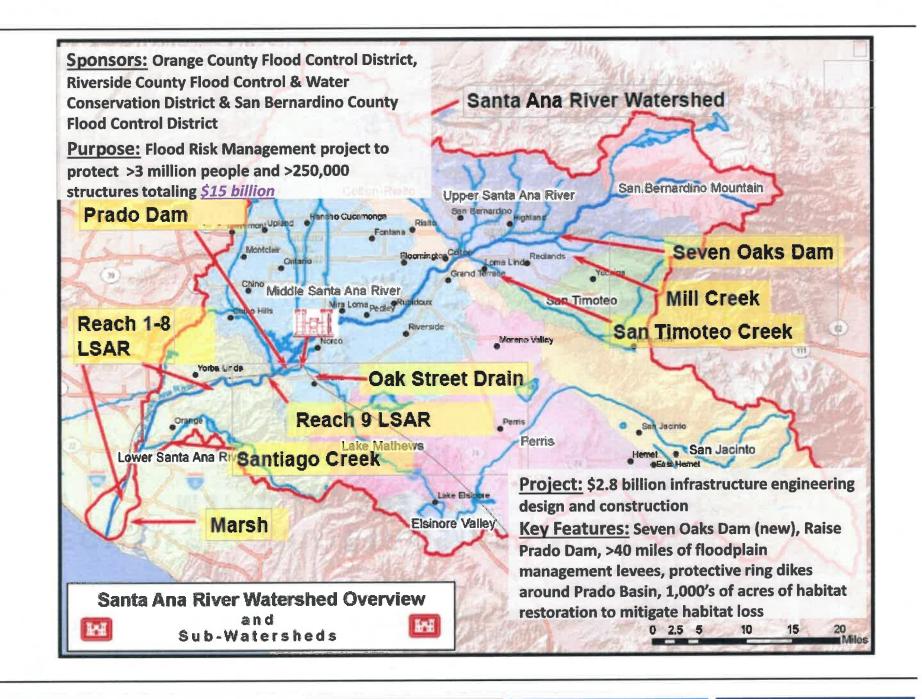
• Power Point Presentation from James Tyler

Santa Ana River Flood Protection Agency

EXECUTIVE COMMITTEE MEETING March 23, 2023

Santa Ana River



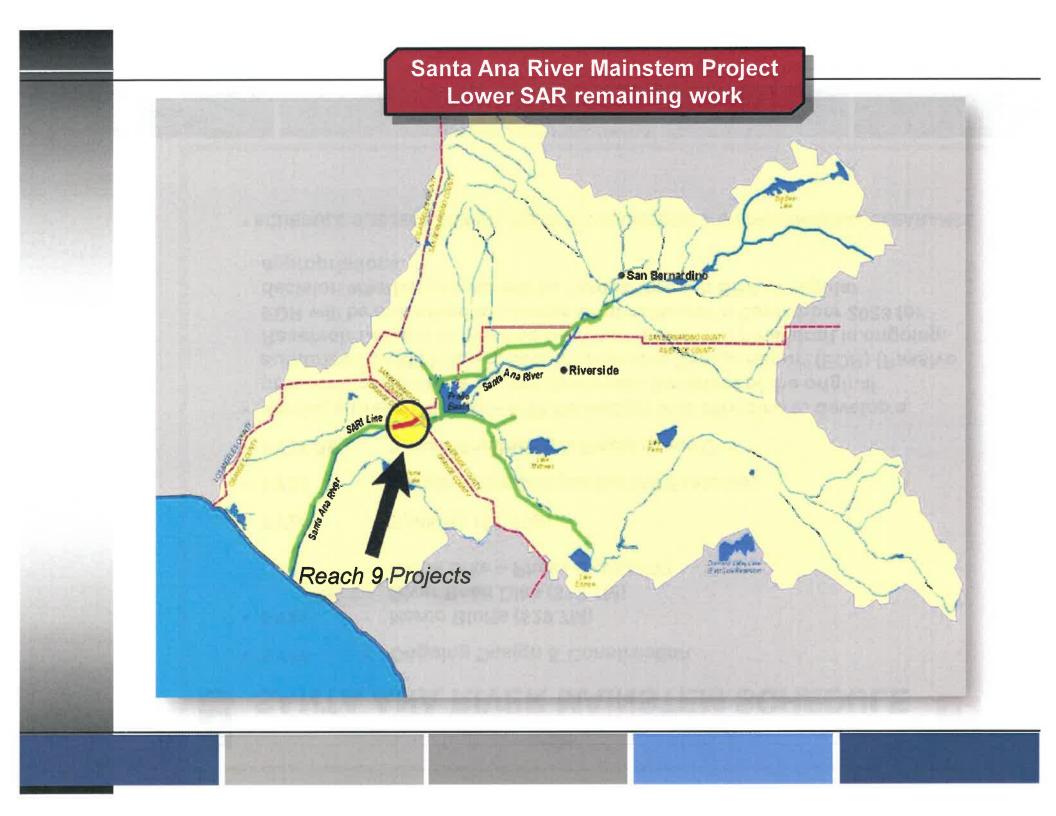


SANTA ANA RIVER MAINSTEM SCHEDULE



- 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 (\$135M) 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% Engineering Design Report (EDR) (Passive Reservoir Design) review has been completed and Final draft is ongoing. EDR will be submitted to Change Control Board in September 2023 for decision whether project will be funded through BBA or regular appropriations.

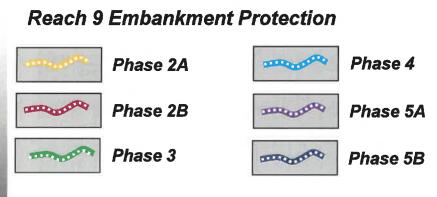
* SCHEDULE SUBJECT TO REAL ESTATE ACQUISITION & ENVIRONMENTAL CLEARANCE





LEGEND

REACH 9 - PHASE 3 & 4



Construction Contract Award Date: April 2016 Construction Completion Date: Nov 2019 Final Walkthrough: Jan 30, 2020 Turnover to Local Sponsor: Completed via acceptance letter dated March 21, 2023

Construction Project Cost = \$15 M

Approx. 3,000 feet of soil cement levee embankment

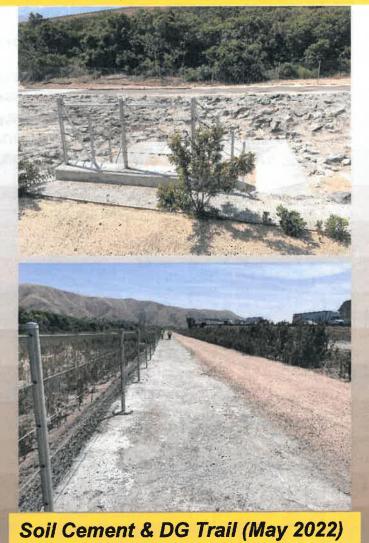
REACH 9 PHASE 4 FUNDED IN FY15

Reach 9 Phase 4



Bikeway with Landscaping (May 2022)

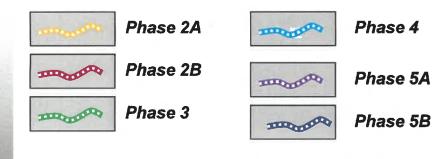
Inlet Structure Adjacent to Bikeway (May 2022)







Reach 9 Embankment Protection



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: TBD)

Reach 9 Phase 5B (100% 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: Jan 2024)

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

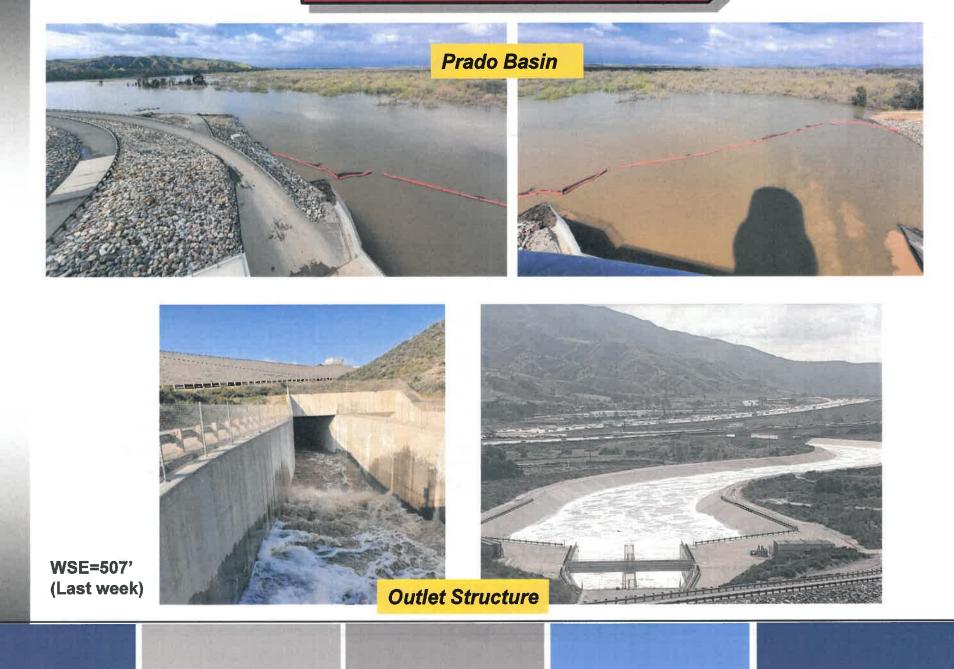
Photos from Aug 2020 for Interim Work



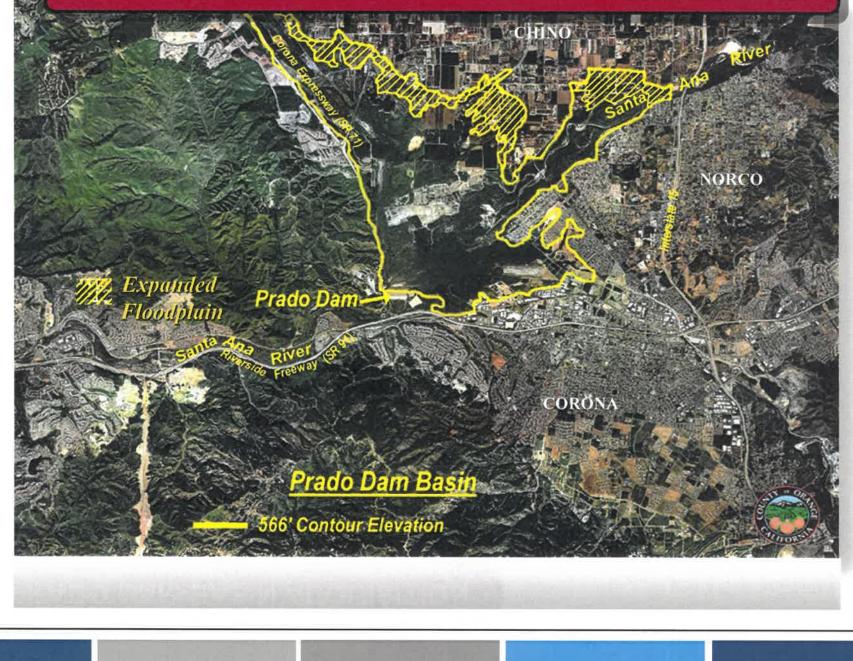
Photos from September 2021



Prado Dam Photos Storm Season (March 2023)



PRADO DAM ACQUISITION AND UTILITY RELOCATION



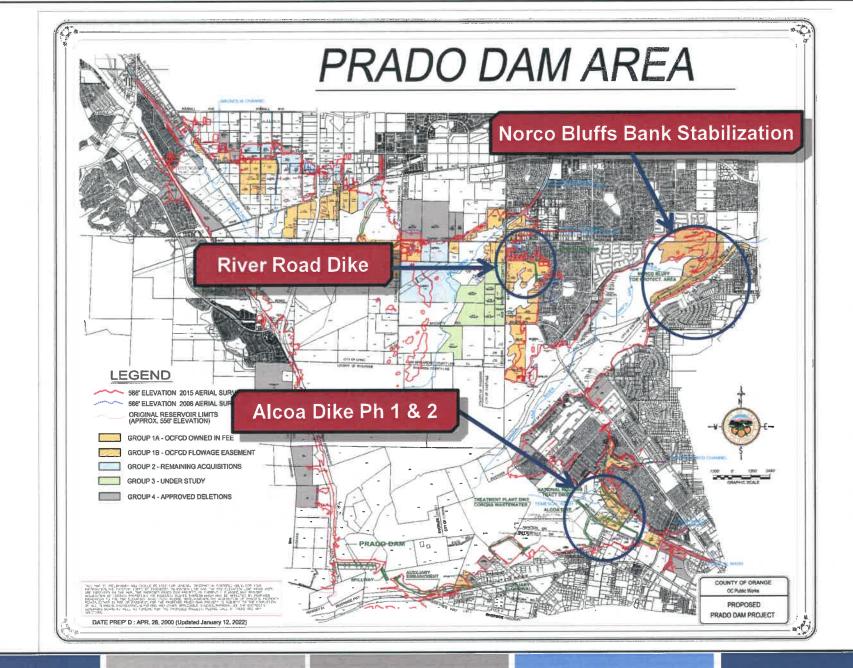
PRADO DAM BASIN ACQUISITION

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 March 2023)	103	\$245M*
Remaining to be acquired	10	\$70M**
*Land value only (no soft cost) **Estimate		

UTILITY RELOCATION

	Est. Cost \$ million by	Est. Cost \$ million per OCPW Analysis	
7 Utility Companies – Agreements in Place (JCSD, SAWPA, IEUA, Cities of Chino, Corona, Norco and Eastvale) Remaining Utility – SCE (estimated cost includes design)	\$2.5	\$2.5 \$0.2	
	\$142.5		
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 completed)	\$20 \$0.20		
Study	\$13.5	\$0	

Current LERRDs deadline is May 2023



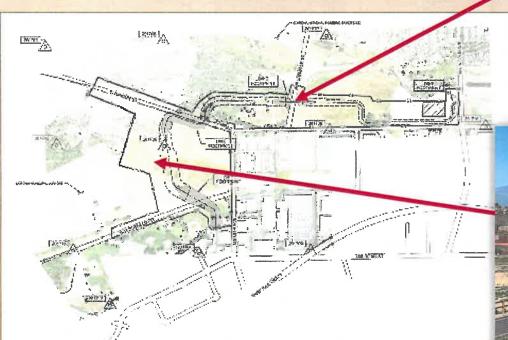
PRADO DAM CONSTRUCTION

Phase 1 Contract Awarded – Sept 2018

- Contract Amount \$21.4M
- Completed August 2020

Phase 2 Contract Awarded – Sept 2021

- Contract Amount \$24.5M
- Construction Start January 2022
- Anticipate Completion Late 2023

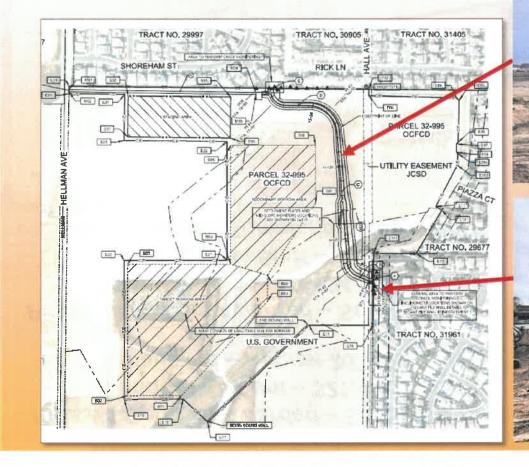


Alcoa Dike

PRADO DAM CONSTRUCTION

Contract Awarded – Sept 2021

- Contract Amount \$9.2M
 - Construction Start December 2021
 - Anticipate Completion Late 2023



River Road Dike

PRADO DAM CONSTRUCTION

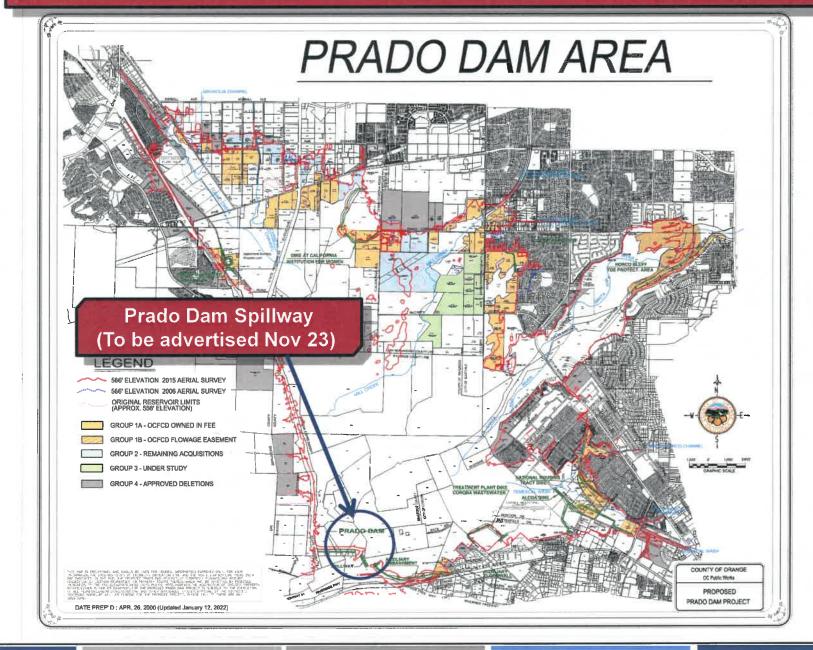
Norco Bluffs Bank Stabilization

Contract Awarded – July 2021

- Contract Amount \$30 M
- Construction Start December 2021
- Anticipate Completion Fall 2024



PRADO DAM CONSTRUCTION - Future Projects



WESTMINSTER EAST GARDEN GROVE PROJECT UPDATE

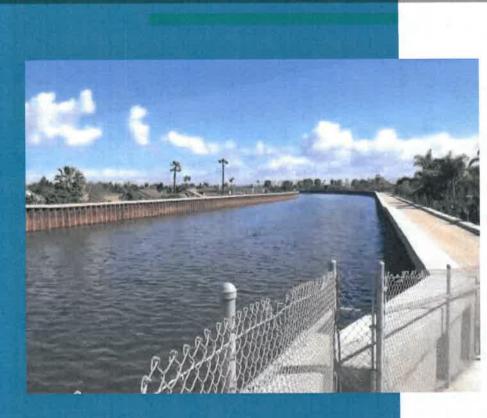
Santa Ana River Flood Protection Agency EXECUTIVE COMMITTEE MEETING

March 23,2023

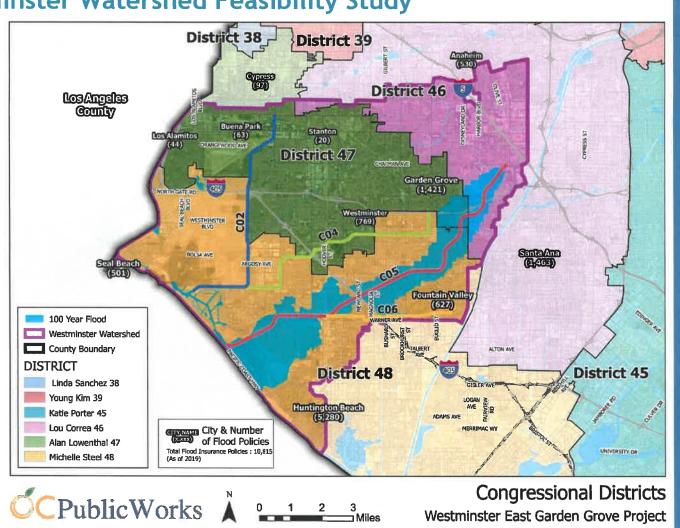




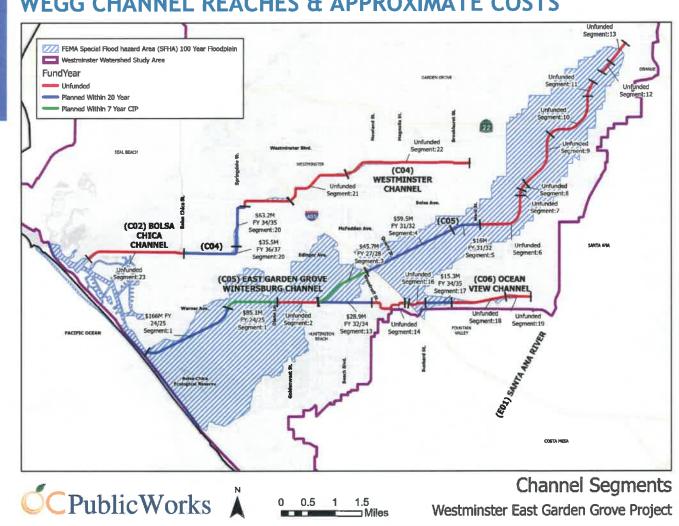
Westminster East Garden Grove Project - Background



- 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
1.1	from the confluence with Ocean View Channel (C06) to D/S Woodruff Street	\$58,280,280	FY28-29	3	7-Year CIP
	from U/S Quartz Street to U/S Bushard Boulevard	\$37,373,000	FY33-34	4	20 Yr SFP
	from U/S Bushard Street to U/S McFadden Avenue /Brookhurst Street	\$28,177,000	FY33-34	4	20 Yr SFP
	from U/S McFadden Avenue / Brookhurst Street to Ward Street	\$18,411,000	FY33-34	5	20 Yr SFP
	including tidegates to 1,200 ft D/S Goldenwest Street	\$169,370,204	FY26-27	1	7-Year CIP
Oceanview (C06)	from confluence with C05 to D/S Beach Blvd	\$14,814,800	FY32-33	13	20 Yr SFP
	from U/S Beach Boulevard to D/S Newland Street	\$15,125,600	FY33-34	13	20 Yr SFP
	from D/S Bushard Street to D/S Brookhurst Street	\$15,850,800	FY34-35	17	20 Yr SFP
Westminster (C04)	from Bolsa Chica Street to U/S Springdale Street / Edinger Avenue	\$36,778,000	FY36-37	20	20 Yr SFP
	from U/S Springdale Street / Edinger Avenue to D/S Bolsa Avenue	\$55,115,200	FY34-35	20	20 Yr SFP
		\$312,750,484	7 Year		
		\$221,645,400	20 Year		
		\$534,395,884	Total		

Note: Other CIP projects will potentially be deferred

WEGG PROJECT NEED ESTIMATES

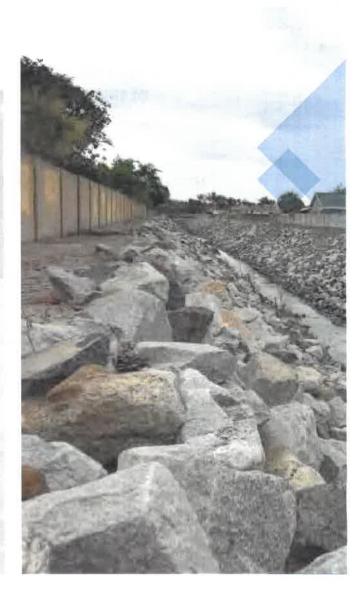
- Pre-Construction, Engineering and Design (PED) Funding
 - Needed before new start can be advocated for
 - Local sponsor cost share TBD
- Funding
 - Total project: \$1.2B (First costs)
 - Federal Share: \$315M
 - Local Share: \$910M
 - NED: \$169M
 - LPP: \$741M
 - State Subvention: ~50-70% of NED
 - 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 100% complete on March 24, 2023 (Final Walk).

• 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

EGGW (C05) - Warner to Goldenwest

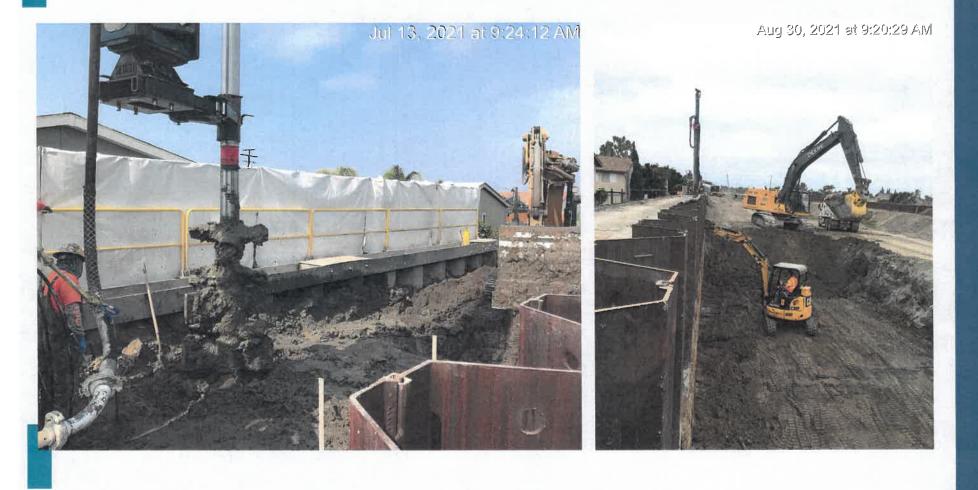
Pre-Construction

Post-Construction





EGGW (C05) - Warner to Goldenwest



QUESTIONS ?