



Overview of Inland Empire Utilities Agency Construction Network Conference – June 6, 2024 Mountain Meadows Golf Course

Adham Almasri, P.E

Advanced Water Treatment Program Manager

Board of Directors



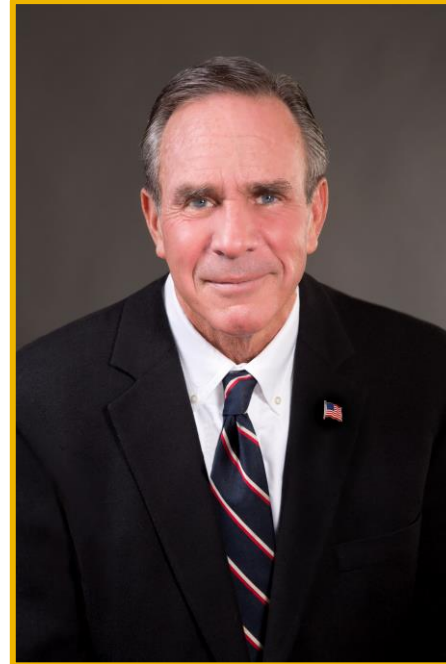
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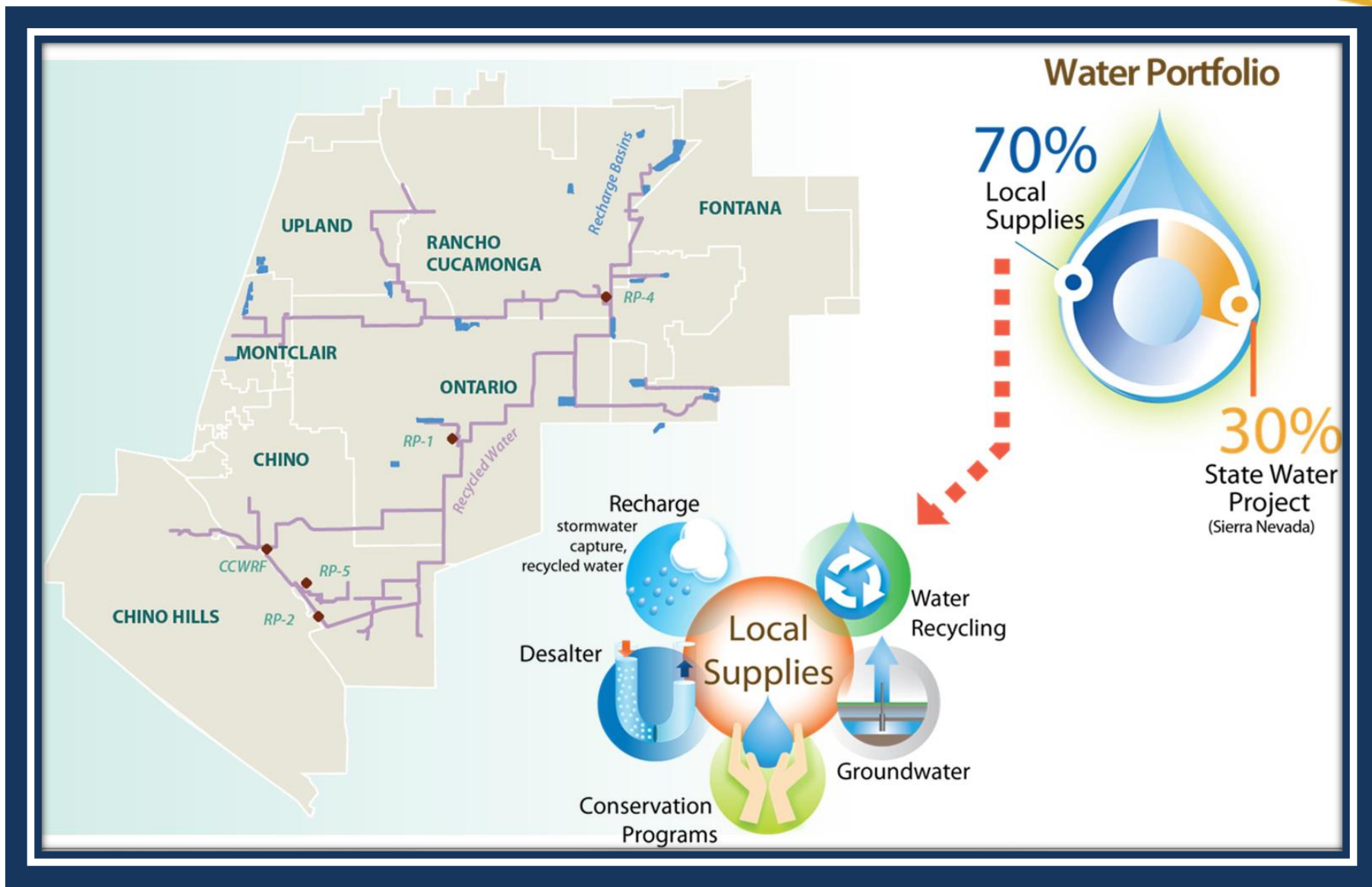


Michael Camacho
Director

Regional Partnerships and Collaborations



IEUA Service area/Regional Water Portfolio

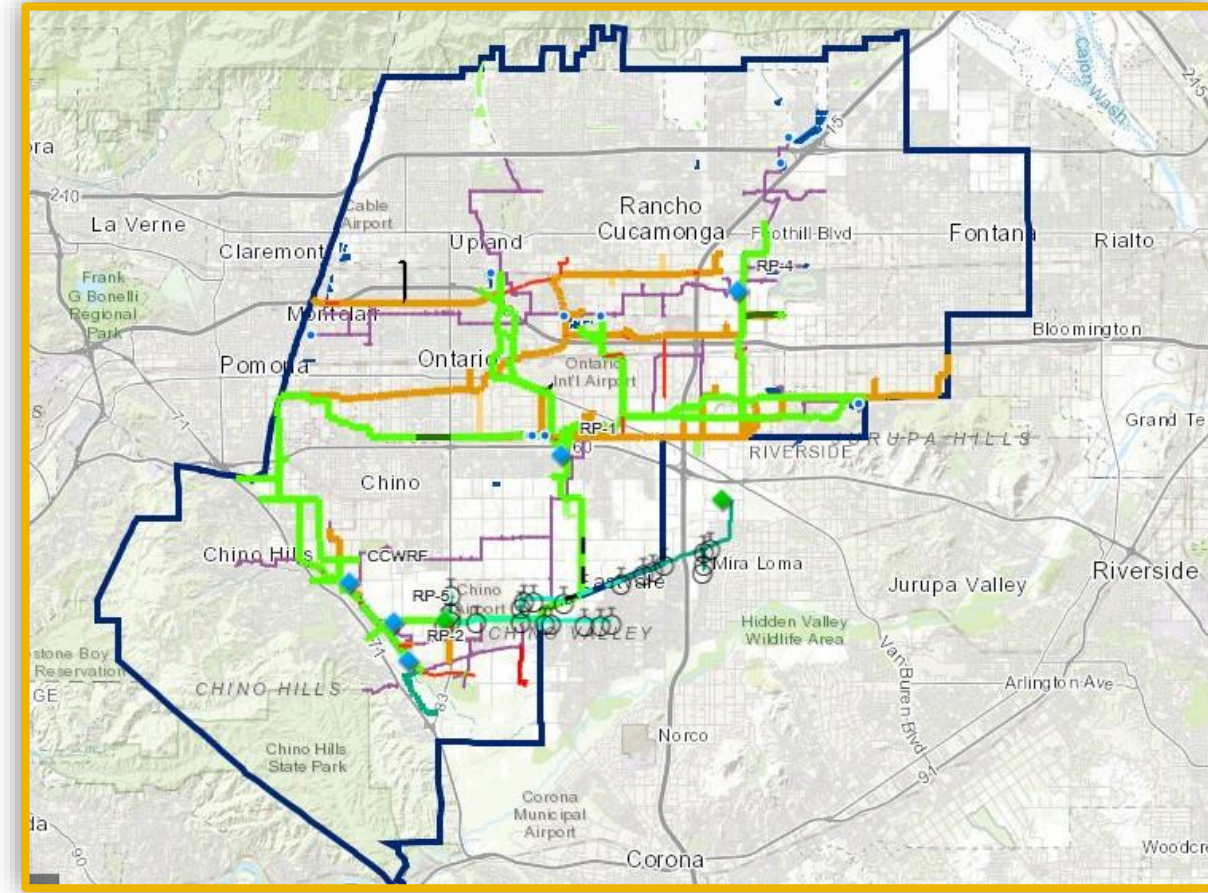


Regional Infrastructure

Quick Stats:

- 52 MGD Raw Wastewater In
- 5 Wastewater Treatment Plants
- 826,188 ft. (~156.5 miles) Sewer Pipe
- 2,460 Manholes
- 6 Wastewater Lift Stations
- 40 MGD Recycled Water Out

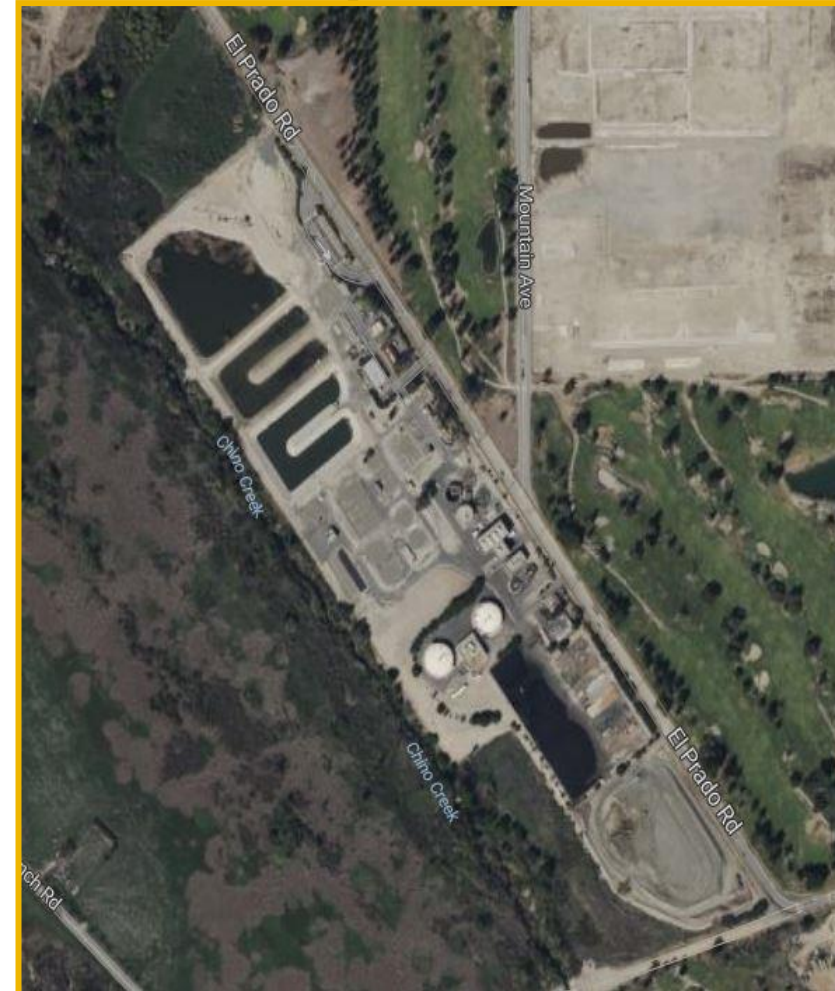
- 502,520 ft. (~95 miles) Recycled Water Pipe
- 6 Recycled Water Pump Stations
- 18 Groundwater Recharge Basins
- 5.0 MW of Solar Power
- 4.08 MW Of Battery Storage Capacity
- 354 KW Of Wind Turbine Power



Regional Water Plant No. 1 City of Ontario



Regional Water Plant No. 2 City of Chino



Regional Water Plant No. 5
City of Chino



Carbon Canyon Water Recycling Facility
City of Chino



Regional Water Plant No. 4 City of Rancho Cucamonga

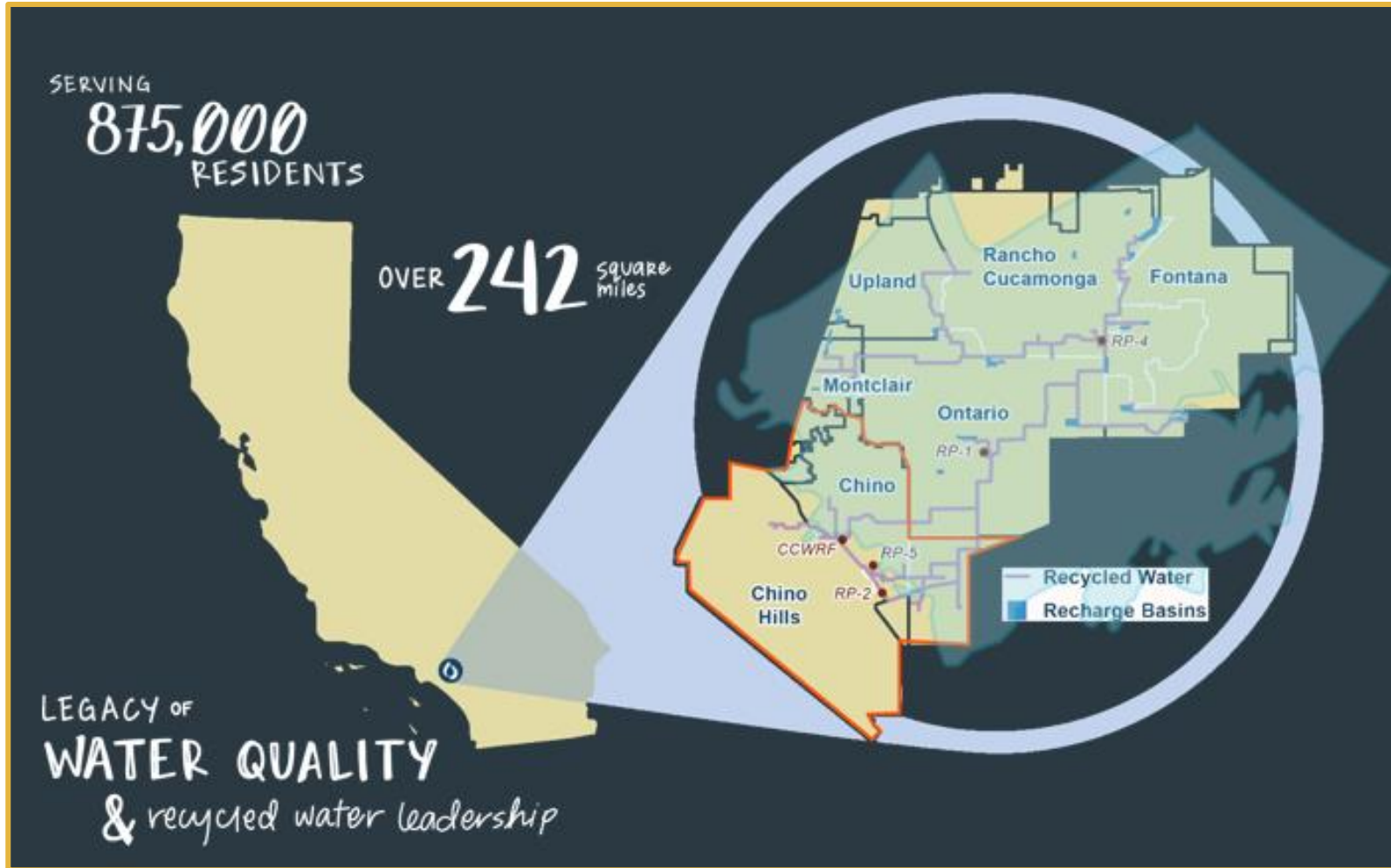


Ten Year Capital Improvement Program (TYCIP)

Proposed Capital Projects by Program

Fund (\$ Millions)	Fiscal Years 2025 – 2034 Proposed TYCIP
Regional Wastewater Capital	\$903
Recycled Water	\$474
Regional Wastewater Operations & Maintenance	\$126
Non-Reclaimable Wastewater	\$43
Administrative Services	\$51
Recharged Water	\$13
Water Resources	\$6
Total	\$1,616

Chino Basin Program Background



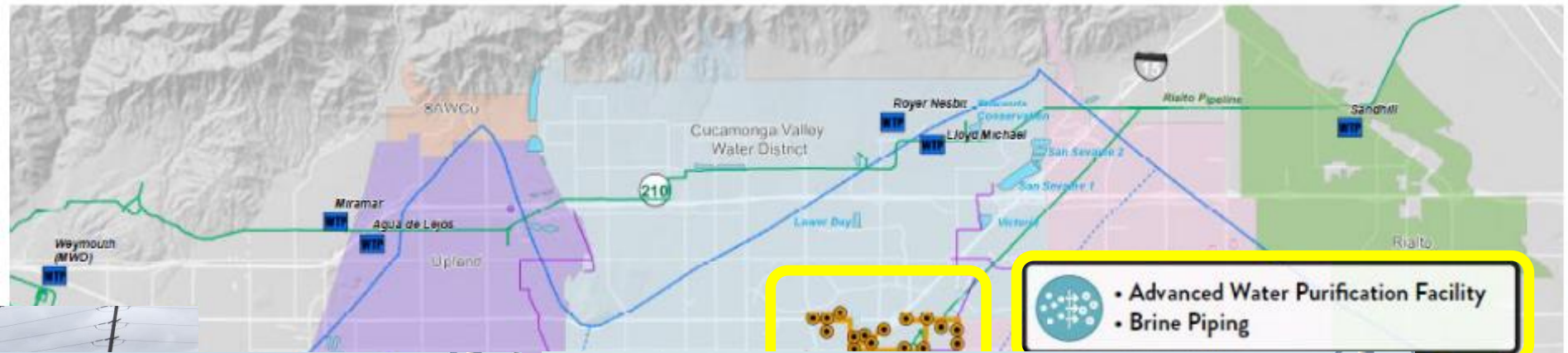
Imported water from Metropolitan is roughly 30% of water supplies

- State Water Project constrained area
- Risk of future allocation

Local need for Advanced Water Purification Facilities (AWPF)

- Wastewater permit compliance
- Opportunity to build infrastructure for future Direct Potable Reuse
- Program Components: Injection (PUT) and Extraction (TAKE)

PUT- Infrastructure



Explanation	
Jurisdictions	Where as-builts for
Rancho Cucamonga	Fontana
Rialto	Ontario
Wastewater Treatment Plants	Digitized Utility Legend
IEUA RP-4	Comm (orange)
Rialto WWTP	Sewer and Storm (green)
	Water (blue)
	Recycled Water (purple)
	Electric (red)
	Gas (yellow)



Prepared by:

 Author: AMB
 Date: 4/12/2023

Scale: 1" = 148,000'
 0 1,000 2,000 3,000
 Feet
 0 0.15 0.3 0.45 0.6
 Miles

References:
 1. California System 1955 10th Meridian Auxiliary Sphere
 Projection: Mercator Auxiliary Sphere
 Datum: WGS 1984

Project:

 Preliminary Design Report

Prepared for:

 A PUBLIC WATER ENTITY

Water Supply Project
 Preliminary Design Report
 Preliminary Alignment
 Preliminary Draft - 2023-04-12

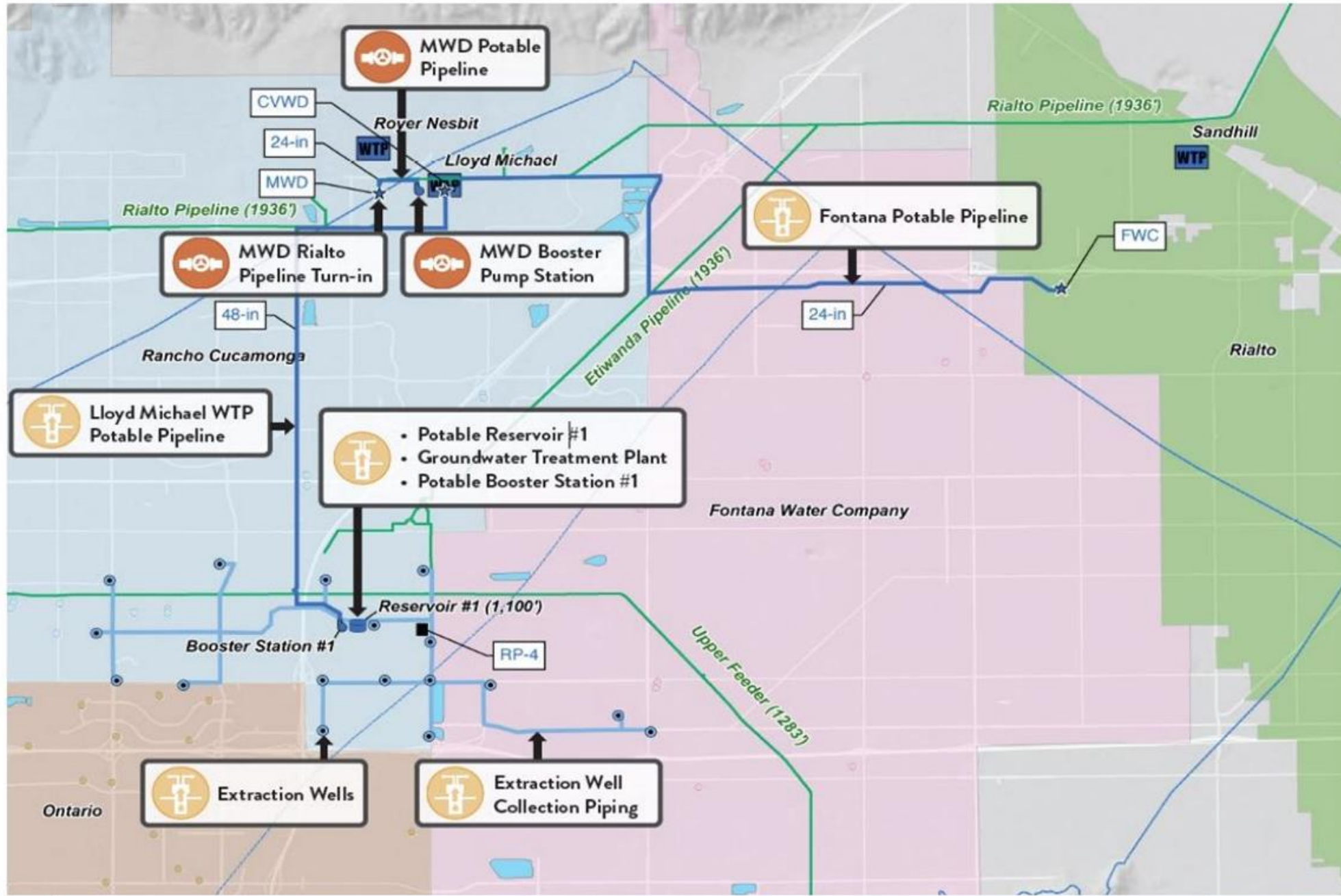
TAKE-Infrastructure



Extraction & Regional Distribution



MWD Connection



Schedule Overview

FISCAL YEAR		2023 -2024				2024-2025				2025-2026				2026-2027				2027-2028				2028-2029				2029-2030				2030-2031				2031-2032																			
		23 Q3	23 Q4	24 Q1	24 Q2	24 Q3	24 Q4	25 Q1	25 Q2	25 Q3	25 Q4	26 Q1	26 Q2	26 Q3	26 Q4	27 Q1	27 Q2	27 Q3	27 Q4	28 Q1	28 Q2	28 Q3	28 Q4	29 Q1	29 Q2	29 Q3	29 Q4	30 Q1	30 Q2	30 Q3	30 Q4	31 Q1	31 Q2	31 Q3	31 Q4	32 Q1	32 Q2																
CBP PROJECT																																																					
PUT Facilities	AWP Demonstration Facility	DESIGN				PROC				CONSTRUCT				OPERATE																																							
	AWPF at RP-4					PROCURE PDB PH1				PH1 DESIGN (GMP)				GMP				CONSTRUCT																Com																			
	City of Rialto RW Supplemental Supply					PROCURE PDB PH1				PH1 DESIGN (GMP)				GMP				CONSTRUCT																Com																			
	JCSD/WRCWA RW					PROC				PDR				DESIGN				PROC				CONSTRUCT																Com															
	Exploratory Monitoring Well	PROC		CONSTRUCT		OPERATE																																															
	Pilot Replenishing Well					DESIGN				PRO				CONSTR				OPERATE																																			
	Aquifer Replenishing Wells					PROCURE				DESIGN 1ST FIVE				ROC				CONSTRUCT WELLS				Co				CONSTRUCT WELLS				Com																							
	Purified Water Conveyance					PROC				PDR				DESIGN				PRO				CONSTRUCT																Com															
TAKE Facilities	Groundwater Extraction	PDR				PROCURE				DESIGN				PROC				CONSTRUCT																Com																			
	Potable Water Pumping and Conveyance	PDR				PROCURE				DESIGN				PROC				CONSTRUCT																Com																			
	Connection to Metropolitan	PDR				PROCURE				DESIGN				PROC				CONSTRUCT																Com																			

Upcoming New Capital Projects

Project Name	FY 24/25	FY25/26	FY26/27	FY27/28	FY30/31	Total Budget
EN25022 - Development and Early Design - Compliance for Recycled Water Facilities	X					\$23,000,000
EN25027 - 4th Street / North System North Trunk Pipe Repair (BSS)	X					\$370,000
EN25044 - Asset Management Software	X					\$750,000
EN25045 - CCWRF Electrical Improvements	X					\$6,700,000
EN25058 - HQ Electric Chargers	X					\$250,000
EN25059 - Security Upgrades	X					\$3,000,000
EN25064 - Agency Wide Remote Vibration Project	X					\$500,000
EN25066 - Non-Reclaimable Waste Collection System Pipe Rehabilitation	X					\$8,000,000
EN25067 - Caltrans IEUA Collections Sewer I-10 Relocation	X					\$1,985,000
EN25069 - CCWRF Process Improvements Phase II	X					\$11,425,000
EN25070 - Development and Early Design - Compliance for Wastewater Facilities	X					\$45,200,000
EN25071 - San Bernardino Lift Station Containment	X					\$400,000
EN26002 - Vineyard Pipe Repair		X				\$660,000
EN26003 - Regional System Siphon Barrel Gate Improvements		X				\$935,000
EN26005 - RP-1 Plant Air Expansion Tank Replacement		X				\$250,000
EN26008 - RP-1 Centrate Line Struvite Prevention		X				\$750,000
EN26010 - RP-4 Process Improvements Phase III		X				\$11,500,000
EN26014 - CCWRF Secondary Clarifier Weir Covers		X				\$1,050,000
EN27006 - Chino Interceptor Diversion Pipe Repair			X			\$3,100,000
EN27007 - Montclair Diversion Structure Enhancements			X			\$500,000
EN28003 - Brine System Siphon Barrel Gate Improvement				X		\$510,000
EN28005 - Cucamonga Interceptor Pipe Repair				X		\$1,150,000
EN28007 - Advanced Water Purification Facility				X		\$223,000,000
EN31001 - Freeway Trunk Pipe Repair					X	\$13,000,000
EN31002 - Riverside Drive Trunk Pipe Repair					X	\$4,250,000
Number of Projects/Total Budget	12	6	2	3	2	\$362,235,000

Upcoming Construction Contracts 2024 - 2025

Outside the Plant		
Project Name	Posted to PlanetBids	Total Project Budget
CURG Row 9 Roof Failure	6/6/2024	\$31,000
RP3 Diversion Structure Height Extension	6/18/2024	\$75,000
Montclair Force Main Improvements	7/5/2024	\$8,714,434
Central Plant Cooling Tower Replacement	7/19/2024	\$3,000,000
Additional Access for RP-1's 8-inch Centrate Line	7/27/2024	\$72,000
BonView Sewer Jacked Casing Union Pacific	8/1/2024	\$100,000
1158 Reservoir Site Cleanup	8/29/2024	\$1,215,000
RW SCADA Migration	11/28/2024	\$4,815,240
Agency Wide EV Charging Stations	12/5/2024	\$1,050,000
Philadelphia Lift Station Force Main Improvements	1/24/2025	\$23,109,408
San Bernardino Ave Lift Station Reliability Improvements	1/30/2025	\$3,259,752
RW/GRW Safety Work Improvements for Basin Gate Actuator Access	5/20/2025	\$1,020,000
Philadelphia Lift Station Pump Upgrades	6/1/2025	\$6,762,142

Regional Wastewater Plants		
Project Name	Posted to PlanetBids	Total Project Budget
RP-1 Thickening Building & Acid Phase Digester	5/20/2024	\$160,115,672
RP-1 DeviceNet Replacement	5/21/2024	\$4,246,416
RP-1 Intermediate Pump Station Electrical Improvements	5/23/2024	\$9,237,147
RP-1 Centrate Line Collections Ramp	6/11/2024	\$50,000
Chino Hills Trunk-014 Sewer Siphon CIPP Repair	6/27/2024	\$150,000
RP-1 Energy Recovery	7/31/2024	\$4,325,000
RP-1 Air Compressor Upgrades	8/1/2024	\$6,927,944
CCWRF Bleach Pipeline Replacement	8/23/2024	\$350,000
RP-4 Process Improvements Phase II	10/7/2024	\$8,324,536
CCWRF Aeration Basins 1-6 Drain Valve Replacements	1/4/2025	\$1,500,000
RP-1 New Parking Lot	3/26/2025	\$1,248,465
RP-1 Filter Effluent Structure #2 Rehabilitation	7/1/2025	\$2,589,450
RP-4 Chlorine Contact Basin Cover Repair & RW Wet Well Passive Overflow Line	7/1/2025	\$5,543,778
RP-5 New Radio Tower Design-Build	10/19/2025	\$1,700,000

WEBSITE: List of Upcoming Capital Projects

Inland Empire Utilities Agency Upcoming Engineering and Construction Management Projects

As of March 14, 2024

The dates listed below may change based on unforeseen circumstances.

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WEBSITE: List Upcoming Capital Projects (Cont.)

Agency Wide							
#	Project ID	Project Name	Scope	Principal Engineer	Consultant Contract Award End	Consultant Contract Awarded (Y/N)	Construction Bid Start
1	EN21020.00	Oracle P6 Migration	Primavera P6 upgrade the software to P6 EPPMv17.x - v20.x and provide consulting services including best practices training canned and custom report writing as well as project scheduling and project maintenance.	Solis, Rachael	7/17/2024	N	-
2	EN23034.00	Agency Wide EV Charging Stations	Install charging stations in the following areas: Headquarters/Chino Creek Wetlands & Educational Park, Headquarter Parking Lots, RP-5, RP-1, RP-4/IERCF, CCWRF.	Spears, James	-	-	6/1/2024
3	EN24020.01	Additional Access for RP-1's 8-inch Centrate Line	Install a clean out at the 45-degree bend of RP-1's 8-inch Centrate Line located in Ontario Soccer Park's parking lot.	Zughbi, Jamal	-	-	3/20/2024
4	EN24052.00	BonView Sewer Jacked Casing Union Pacific	The scope of work includes preparing a PDR to determine: (1) What is required to protect sewers; (2) Identify permits, construction schedule and scope for design; (3) Determine cost for budgeting construction work.	Spears, James	-	-	1/14/2026
5	EN24056.00	PLA Informational Consulting Services	Develop RFP to acquire consulting services for Project Labor Agreement (PLA) information. Review and select a consulting firm to research and collect information required to develop informational packages for agency consideration associated with a PLA	Wilson, Brian	3/21/2024	N	-
CCWRF							
#	Project ID	Project Name	Scope	Principal Engineer	Consultant Contract Award End	Consultant Contract Awarded (Y/N)	Construction Bid Start
6	EN23004.00	CCWRF Aeration Basins 1-6 Drain Valve Replacements	The project scope consists of evaluating the drain sumps to verify the type of plug used to keep from potential backflow due to the drain valves not holding. Replace the existing 6' drain valves for aeration basins 1-6.	Zughbi, Jamal	2/24/2023	Y	5/14/2024

Master Contracts

Contract Type	Amount	RFP Posting to PlanetBids
Surveying	1,000,000	Summer 2024
On Call Design Contracts	15,000,000	Current Solicitation on PlaneBids – Due June 2024
Material Testing	1,000,000	Summer 2024
Pavement Management Services	500,000	Summer 2024
Dig Alerts	900,000	Winter 2024
SCADA Programming Services	5,600,000	Summer 2025
Engineering and Construction Project Mgmt Svcs	35,000,000	Summer 2025
Architectural Services	1,500,000	Winter 2025
Project Controls Services	3,000,000	Winter 2025
Recycled Water/Sewer Hydraulic Modeling		Summer 2027

Successful Consultants/Contractors


CONSULTANTS

- IEUA uses Qualifications Based Selection
- We pay on time


CONTRACTORS

- We prequalify Construction Contracts over \$2 million
- We want partners, problem solvers

Contact Us




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