

AGENDA REGULAR WORKSHOP OF THE BOARD OF DIRECTORS

WEDNESDAY, MAY 3, 2023 10:00 A.M.

AGENCY HEADQUARTERS
BOARD ROOM
6075 KIMBALL AVENUE, BUILDING A
CHINO, CALIFORNIA 91708
VIEW THE MEETING LIVE ONLINE AT IEUA.ORG
TELEPHONE ACCESS: (415) 856-9169 / Conf Code: 169 113 791#

The public may participate and provide public comment during the meeting by joining in-person or by calling the number provided above. Comments may also be submitted by email to the Board Secretary/Office Manager Denise Garzaro at dgarzaro@ieua.org prior to the completion of the Public Comment section of the meeting. Comments will be distributed to the Board of Directors.

CALL TO ORDER OF THE INLAND EMPIRE UTILITIES AGENCY BOARD OF DIRECTORS WORKSHOP

FLAG SALUTE

PUBLIC COMMENT

Members of the public may address the Board on any item that is within the jurisdiction of the Board; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Those persons wishing to address the Board on any matter, whether or not it appears on the agenda, are requested to email the Board Secretary/Office Manager prior to the public comment section or request to address the Board during the public comments section of the meeting. Comments will be limited to three minutes per speaker. Thank you.

ADDITIONS TO THE AGENDA

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

*A Municipal Water District

1. WORKSHOP ITEMS

- A. CHINO BASIN PROGRAM UPDATE (POWERPOINT)
- B. <u>TEN-YEAR CAPITAL IMPROVEMENT PLAN AND TEN-YEAR SEWER</u>
 <u>CAPITAL FORECAST FISCAL YEAR 2023/24 FISCAL YEAR 2032/33</u>
 (POWERPOINT)
- C. <u>20TH ANNIVERSARY OF IEUA'S REGIONAL WATER USE</u> EFFICIENCY PROGRAM (POWERPOINT)
- 2. **GENERAL MANAGER'S COMMENTS**
- 3. BOARD OF DIRECTORS' REQUESTED FUTURE AGENDA ITEMS
- 4. <u>DIRECTORS' COMMENTS</u>

<u>ADJOURN</u>

Declaration of Posting

I, Denise Garzaro, CMC, Board Secretary/Office Manager of the Inland Empire Utilities Agency*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency's website at www.ieua.org at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary at (909) 993-1736 or dgarzaro@ieua.org, 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.

WORKSHOP ITEM

1A



Chino Basin Program Update

Elizabeth Hurst Chino Basin Program Manager May 3, 2023



CBP Update Overview

Preliminary Design

Agreements Status

Stakeholder Outreach

Consultant Program Manager/Owner Engineer Solicitation

Budget Status

Next Steps

PUT-Infrastructure

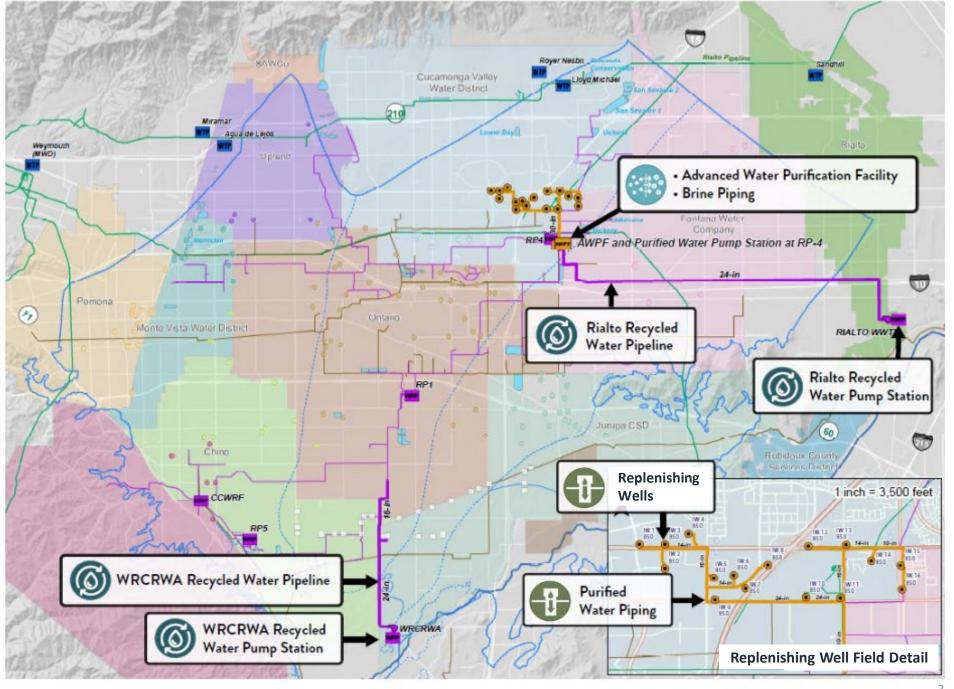


RW Supply External

- City of Rialto
- WRCRWA







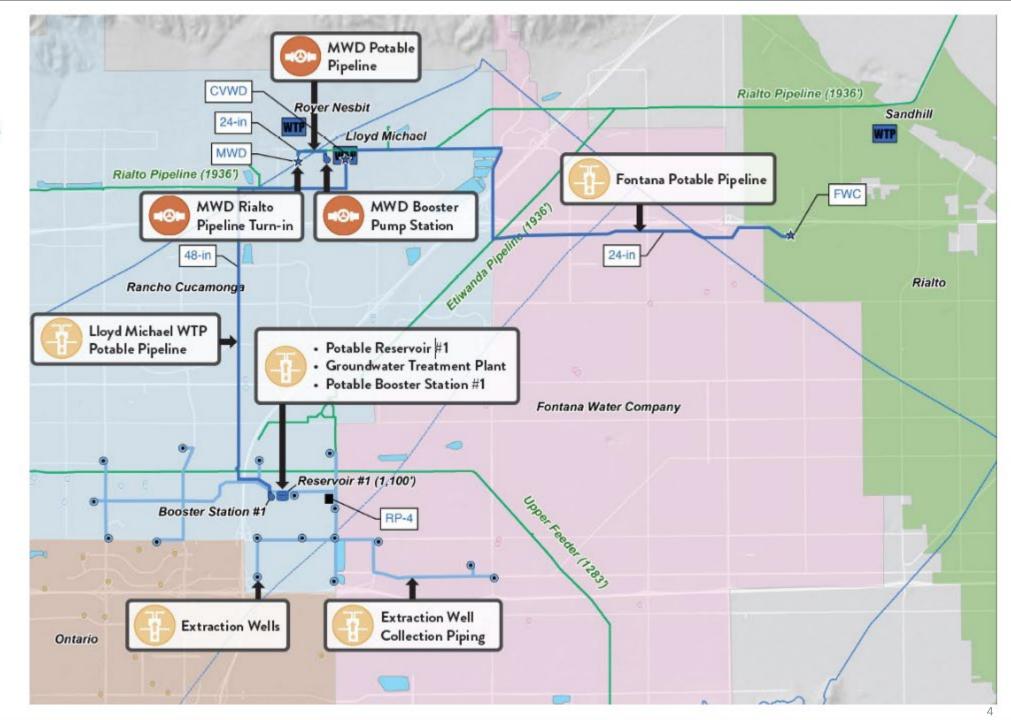
TAKE-Infrastructure



Extraction & Regional Distribution



MWD Interconnection





CBP Update- Local Agreements

| Major Activity | Schedule | | | | | |
|--|---------------|--|--|--|--|--|
| Rialto Recycled Water Purchase Agreement (IEUA, City of Rialto) | Summer 2023 | | | | | |
| WRCRWA Recycled Water Purchase Term Sheet (IEUA, WRCRWA) | Fall 2023 | | | | | |
| CBP Performing Agency Term Sheet (CVWD, FWC, IEUA) Dedication of "right of first purchase" IEUA recycled water Operations and performance criteria Ownership and cost allocation Establish CBP Operating Committee | December 2023 | | | | | |
| CBP Exchange Agreement (IEUA, MWD) Operations and performance criteria Inter-agency coordination with State for exchange | December 2023 | | | | | |



CBP Update- State Agreements

| Major Activity | Schedule | | | | | | |
|--|---|--|--|--|--|--|--|
| Public Benefit Agreements: 1. Environmental (IEUA, CDFW) 2. Water Quality (IEUA, SWRCB) 3. Emergency Response (IEUA, DWR) | Draft templates from State Summer 2023 | | | | | | |
| Pulse Flow Agreement (DWR, CDFW) | 2024 | | | | | | |
| Water Exchange Agreements (IEUA, MWD, DWR) | 2024 | | | | | | |
| CWC Final Funding Award (IEUA, CWC) | 2025 | | | | | | |



Stakeholder Outreach

- **▶** Support by Arellano and Assoc. to conduct local community outreach
- **№**8 workshops held to date
 - **Brookfield Properties Development**
 - California State University of San Bernardino's Institute for Watershed Resiliency
 - California Water Environmental Association
 - Chino Valley Chamber of Commerce

- **Greater Ontario Business Council**
- Inland Empire Regional Economic Partnership
- Inland Empire Water Keeper and CA-NV Section of American Water Works Association
- The River Project

Overview

The Chino Basin Program (CBP) is a series of innovative water treatment and storage projects structured to modernize regional water supplies, storage, and delivery systems. Through several water infrastructure improvement projects, the CBP will help address challenges caused by importing water supplies through the development of new, resiliency and reliability.

Once implemented, these projects will address the immediate needs of the region while unlocking the potential for additional storage and water recycling projects in the future. The CBP includes an initial estimated cost of \$650 million, with the State of California investing \$215

Proposed Improvements & Benefits

- Improvement: Construct a state-of-the-art Advanced Water Treatment Facility Benefit: Significantly expand capacity to use recycled water and improve water quality
- Improvement: Construct aquifer replenishing wells and production facilities Benefit: Drastically increase access to and capacity t store recycled water
- Improvement: Expand existing IEUA recycled water
- Benefit: Efficiently utilize and access recycled water supplies and promote sustainability

■ Received 5 additional letters of support from:

- California State University of San Bernardino's Institute for Watershed Resiliency
- **Chaffey College**
- Chino Valley Chamber of Commerce
- Inland Empire Regional Economic Partnership
- Inland Empire WaterKeeper



nt Your Feedback designed to benefit all residents within the Chino Basin, with the opportunity to expand to add



Consultant Program Manager/ Owner Engineer Solicitation

- Interviews have been completed
 - ✓ Ardurra/GHD
 - ✓ Black & Veatch/CDM
 - ✓ Jacobs
 - ✓ Parsons/Atkins
- 4-party review and interview panel March-April
- Target award date: Summer 2023



Budget Status

- March 2019 IEUA Board budgeted \$15 M for CBP Planning and Preliminary Design Work
- August 2021 the California Water Commission awarded \$8.9 M in Early Funding
- To date, the program has expended \$7.9 M and received \$5.8 M in Early Funding reimbursement

| | Project Budget | Contracts | Expenses | Contract Balance | Projections FY 22/23 | Remaining Budget |
|------------------------------------|----------------|-----------|----------|---------------------|-------------------------|---------------------|
| Chino Basin Program Planning/PDR: | \$15 M | | | | | |
| Institutional agreements | | \$3.8 M | \$2.9 M | \$0.9 M | \$0.3 M | \$0.5 M |
| Technical Feasibility/PDR | | \$6.8 M | \$3.0 M | \$3.8 M | \$2.8 M | \$1.0 M |
| Environmental Evaluation | | \$0.4 M | \$0.2 M | \$0.1 M | \$0.1 M | \$0.1 M |
| Strategy development/communication | | \$0.9 M | \$0.5 M | \$0.4 M | \$0.1 M | \$0.3 M |
| Other | | | \$1.3 M | | | |
| TOTAL | | \$11.9 M | \$7.9 M | \$5.2 M | \$3.3 M | \$1.9 M |



Additional Grant Applications



\$43M for City of Rialto Recycled Water Interconnection



\$65M for City of Rialto Recycled Water Interconnection



\$2.8M for CBP Planning



\$1.8M for Exploratory
Boreholes/Monitoring Wells



Next Steps

Complete PDR Work (PUT):

- AWPF
- City of Rialto RW Interconnection
- Replenishing Wells
- Permitting and Regulatory Strategy
- Updated cost estimates

Award PM/OE Contract

Finalize City of Rialto RW Term Sheet

Term Sheet Discussions with WRCRWA

Replenishing Wells
Exploratory Boreholes

Initiate PDR Work (TAKE):

- MWD interconnection
- Extraction Wells

Agreement Terms Local & State Agencies:

- CVWD | FWC
- MWD
- CDFW
- DWR
- WRCRWA

Final Design PUT Facilities

Construction of Pilot AWPF

Complete PDR Work (TAKE)

• Updated cost estimates

Finalize Agreements

Initiate Final Design TAKE Facilities

CWC Final Funding Award

Construction:

- Rialto RW Interconnection
- AWPF
- Replenishing Wells
- MWD interconnection
- Extraction Wells
- WRCRWA RW Interconnection

Summer 2023 Fall/Winter 2023

2024- 2025

2026-2030





WORKSHOP ITEM

1B



Ten-Year Capital Improvement Plan (TYCIP)

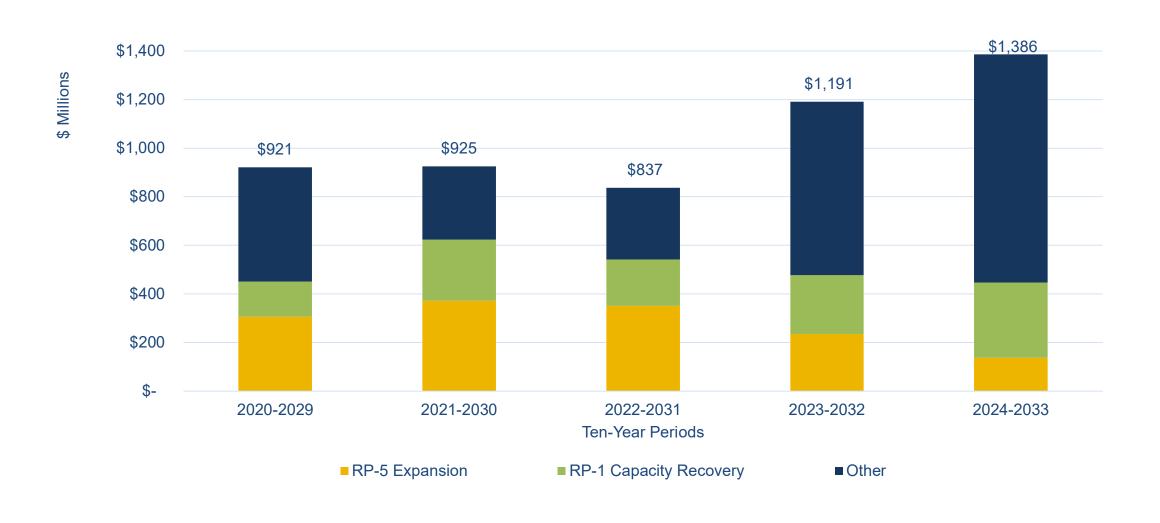


- Comprehensive planning document that lists capital projects planned over the next 10-years
 - Administrative Services
 - Non-Reclaimable Wastewater
 - Regional Wastewater Capital Improvement
 - Regional Wastewater Operations and Maintenance
 - Groundwater Recharge
 - Recycled Water
 - Water Administration
- Agencywide effort
- Promotes transparency of Agency capital activities



Proposed TYCIP \$1,386M FYs 2024- 2033





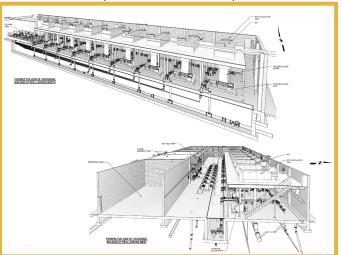
Major TYCIP Projects

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

- Completion of RP-5 Expansion
- Advanced Water Purification
- Recycled Water Program Expansion (Replenishment Wells & External Supplies)
- RP-1 Thickening Building & Acid Phase Digester
- RP-1 Liquid Treatment Capacity Recovery
- Recycled Water Interconnection City of Rialto
- 6 Thousand Acre Feet Year AWPF



Completion of RP-5 Expansion



RP-1 Thickening Building & Acid Phase Digester



Advanced Water Treatment



RP-1 Liquid Treatment Capacity Recovery

Major Capital Improvement Projects over \$50 million

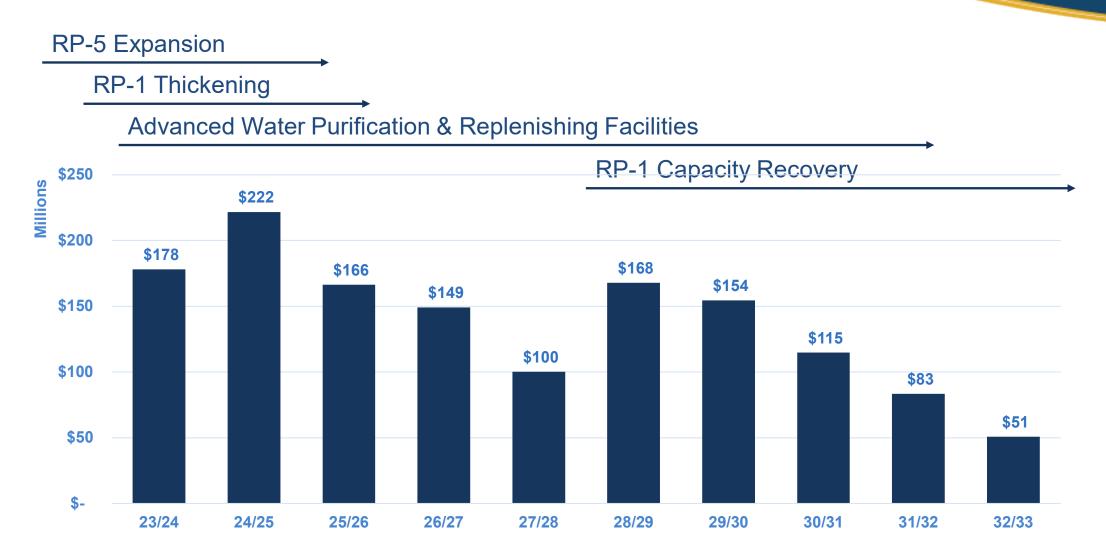


- List of major wastewater capital improvement projects
 - −8 out of 30 total projects
 - Over \$50 million in ten-year spending

| Ten-Year Forecast Projected Spending (\$ in Millions) | | | | | | | | | | | | | | | | | | | | | | |
|---|----|---------|----|---------|----|-------|----|-------|----|---------|----|-------|----|---------|----|-------|------|-------|----|-------|----|------------------------|
| Project Name | FY | ′ 23/24 | F۱ | Y 24/25 | FY | 25/26 | FY | 26/27 | F۱ | Y 27/28 | FY | 28/29 | FY | ′ 29/30 | FY | 30/31 | FY 3 | 31/32 | FY | 32/33 | | tal TYCIP 2024-2033 |
| RP-1 Thickening Building & Acid Phase Digester | \$ | 15.0 | \$ | 35.0 | \$ | 60.0 | \$ | 42.0 | \$ | 0.3 | | | | | | | | | | | \$ | 152.3 |
| Advanced Water Purification | \$ | 1.5 | \$ | 7.5 | \$ | 9.3 | \$ | 19.5 | \$ | 19.5 | \$ | 46.5 | \$ | 35.7 | \$ | 18.3 | \$ | 7.2 | | | \$ | 165.0 |
| Replenishing Facilities | \$ | 2.5 | \$ | 3.5 | \$ | 6.8 | \$ | 10.5 | \$ | 12.5 | \$ | 16.5 | \$ | 17.0 | \$ | 16.5 | \$ | 5.2 | | | \$ | 91.0 |
| RP-5 Expansion to 30 mgd | \$ | 46.6 | \$ | 33.1 | \$ | 7.0 | | | | | | | | | | | | | | | \$ | 86.7 |
| RC Asset Management | \$ | 0.3 | \$ | 2.4 | \$ | 8.0 | \$ | 8.0 | \$ | 8.0 | \$ | 8.0 | \$ | 8.0 | \$ | 8.0 | \$ | 8.0 | \$ | 8.0 | \$ | 66.7 |
| RP-1 Liquid Treatment Capacity Recovery | | | | | | | | | | | \$ | 2.0 | \$ | 13.0 | \$ | 13.0 | \$ | 13.0 | \$ | 13.0 | \$ | 54.0 |
| 6 TAFY AWPF | \$ | 1.0 | \$ | 5.0 | \$ | 6.0 | \$ | 13.0 | \$ | 13.0 | \$ | 31.0 | \$ | 24.0 | \$ | 12.0 | \$ | 5.0 | | | \$ | 110.0 |
| Recycled Water Interconnection City of Rialto | \$ | 0.7 | \$ | 7.0 | \$ | 7.0 | \$ | 11.5 | \$ | 11.5 | \$ | 14.5 | \$ | 5.5 | \$ | 1.0 | \$ | 0.5 | | | \$ | 59.2 |

Ten-Year Capital Improvement Plan





Ten-Year Forecast (TYF)



Ensures compliance with Regional Sewage Service Ordinance 111

Planning document

Contains supplemental wastewater information



Wastewater Capital Spending Comparison



- Approved FY 2022/23 Ten-Year Regional Wastewater Capital Spending \$544 Million
- Projected FY 2023/24 Ten-Year Regional Wastewater Capital Spending \$522 Million



RP-5 Expansion (Picture from February 2022)

Schedule



TYCIP

IEUA Board Info (5/3/23) Technical Committee Info (5/25/23)

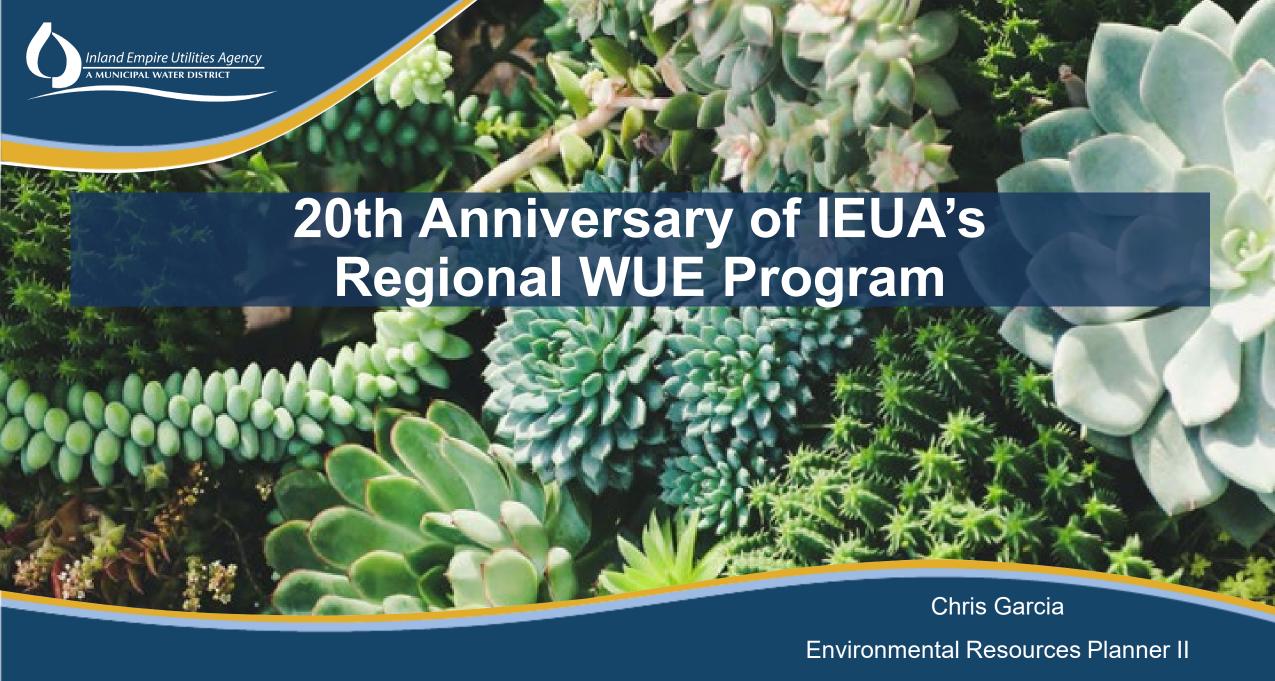
Policy Committee Info (6/1/23) IEUA Board Action (6/21/23)

Questions?



WORKSHOP ITEM

1C



May 3, 2023

20 Years of Accomplishments

| Collaborative partnerships | |
|----------------------------|---------|
| Efficient workgroups | |
| Innovative programs | <u></u> |
| Award recognition | Ş |
| Effective drought response | |
| Excellent customer service | |



Key Historic Drivers and Regulations

CA Urban Water Conservation Council MOU (1991)

—IEUA Regional Programming (2002)

AB 1420 (2007): Urban Water Management Plans

- Include Best Management Practices implementation
- Required for state grants and loans eligibility

Water Conservation Act SBx7-7 (2008)

-UWMP (2010, 2015, 2020)

New WUE Regulatory Framework

- -SB 606/AB 1668 (2018)
- -Rulemaking completed in 2023 and goes into effect in 2024

















Conservation Highlights over 20 Years

150K AF lifetime water savings

1K rain barrels

13K weather-based irrigation controllers

25K clothes washers

50K toilets

400K sprinkler nozzles

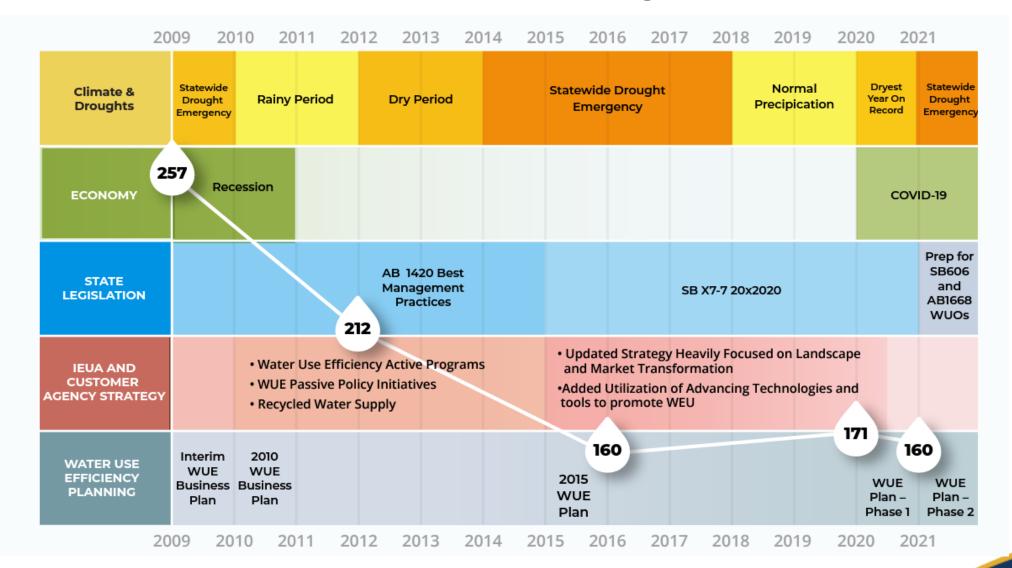
9M square feet of turf removed

\$50M total program cost (IEUA, MWD, Others)

\$333 total cost to save an acre-foot of water



Per Capita Water Use Declined by 38% since 2009





Metropolitan Water District Partnership

Rebates

Water Savings Incentive Program

Turf Dashboard

Outreach

MAAP Funding





City of Chino – Before and after installing soil moisture sensors and controllers at the parks



Leveraged over \$30M in WUE benefits to date!



Regional Water Saving Programs

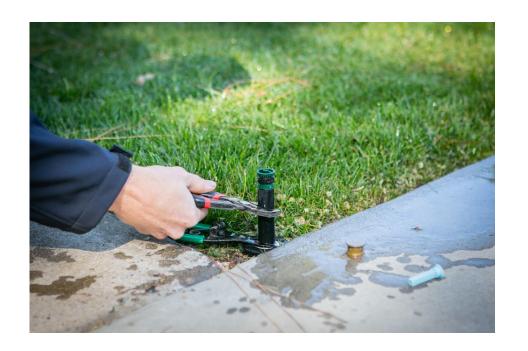
Landscape Irrigation Tune-ups Pressure Regulation Valves

Small Site Controller Retrofits Residential Toilet Installs

Large Site Controller Retrofits Freesprinklernozzles.com

Landscape Audit & Evaluations
Landscape Transformations





Regional Education and Support

Landscape Workshops K-6 School Performances

Garden in Every School WUE Device Distributions

Landscape Designs CA Irrigation Management Info System Maintenance













Local WUE Initiatives Examples

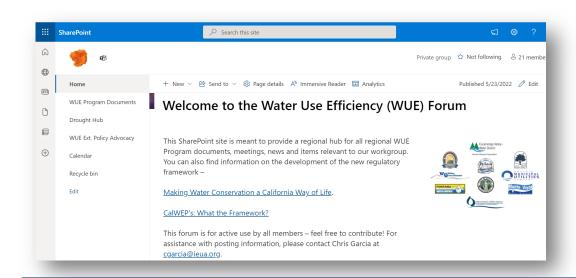








Added Enhanced Program Data Accessibility





WUE Forum

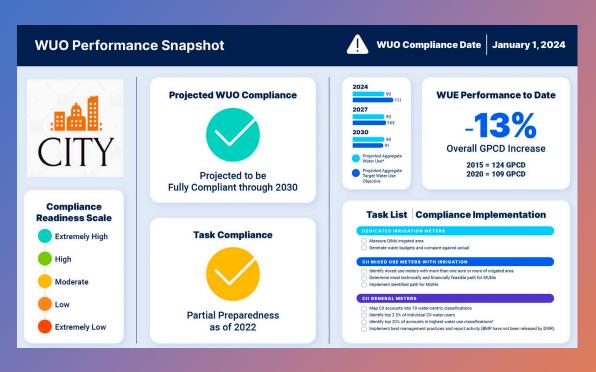
- —Monthly/ annual file sharing
- -Multi-department access
- —External resources

WUE Dashboard

- —Program performance
- Data transparency
- —Ongoing development









Framework Compliance Readiness Assessment Tool

- Helps Customer Agency understand their level of readiness
- Presented in visual "snapshot" format
- Rates projected compliance level based on Current Aggregated Water Use vs Target Aggregated Water Objective
- Identifies high-level Task List required to meet Water Use Objective (WUO)
- Provides Snapshot for Each Component

WUO Performance Snapshot



WUO Compliance Date | January 1, 2024



Compliance Readiness Scale

Extremely High

High

Moderate

Low

Extremely Low

Projected WUO Compliance

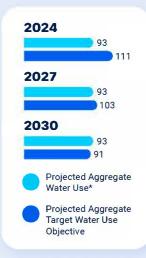


Projected to be **Fully Compliant through 2030**

Task Compliance



Partial Preparedness as of 2022



WUE Performance to Date

-13%

Overall GPCD Increase

2015 = 124 GPCD2020 = 109 GPCD

Task List Compliance Implementation

DEDICATED IRRIGATION METERS

- Measure DIMs irrigated area
- Generate water budgets and compare against actual

CII MIXED USE METERS WITH IRRIGATION

- Identify mixed use meters with more than one acre or more of irrigated area
- Determine most technically and financially feasible path for MUMs
- Implement identified path for MUMs

CII GENERAL METERS

- Map CII accounts into 19 water-centric classifications
- Identify top 2.5% of individual CII water users
- Identify top 20% of accounts in highest water use classifications*
- Implement best management practices and report activity (BMP have not been released by DWR).

CII/Dedicated Irrigation Meters WUO Compliance





Compliance Readiness Level



2030 **Compliance** Readiness Level

2024 Compliance Performance

Target: 11 GPCD

Estimated Compliance Standard*

RPU projected to be in compliance



2030 Compliance **Performance**

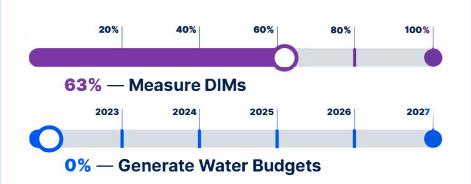
Target: 11 GPCD

Estimated Compliance Standard*

RPU projected to be in compliance



2024 Implementation Requirements Status





Compliance Requirement Tasks

Measure DIMs irrigated area

190 out of 516 DIMs currently being measured through SAWPA/NV5

> Generate water budgets and compare against actual

Report annual WUO starting in January 2024



Program Enhancement Opportunities

Target inefficient water users for programs Implement large landscape optimization services for entire service area

Maximize turf replacement incentives

*At present there are two unknowns that factor into the final compliance standard. 1. Currently RPII has not calculated a water budget for the total irrinated area of dedicated irrination meter accounts. In order to calculate the standard, it will be necessary for RPII to include the amount of irrinated area as a component of the equation

Water Loss Compliance (must comply with SB555)



Extremely High

High

Moderate

Low

Extremely Low



2024 Compliance Readiness Level



2030 Compliance Readiness Level

2021 Water Loss Audit

414 Current Real Loss (AF/yr)

72.4 Length of Mains (mi)

6,434 Number of Connections

\$1,640.70 Variable Production Cost (\$)

85 Avg Operating Pressure (psi)

66.8 Apparent Loss (AF/yr)

2024 Compliance Performance

33.9 GPC*

Current Leakage

21.0 GPC*

Current Standard

*Gallons per Connection



Water Loss 2016 2017 2018 2019 2020 2021 Apparent Losses (MGY) 17.523 21 768 34.308 34.962 33.894 16,442 Real Losses (MGY) 176.685 109.015 129.802 87.656 Number of Connections 6.288 6.285 6,279 6,326 6.332 6.434 Apparent Losses (GPCD) 14.95 15.24 14.79 7.12 7.58 9.27 Real Lossess (GPCD) 47.50 63.41 56.64 37.96 76.45 33.86 Amount below/above Standard (GPCD) 26 42 17 55 13 Percent below/above Standard 124% 200% 171% 81% 262%



Compliance Requirement Tasks

Conduct Water Loss Audit review
Continue annual water audit & reporting

Current Leakage vs. Standard Leakage

33.9 GPCD 21.0 GPCD

CII Mixed Use Meters with Irrigation Compliance



40% by 2024

20% by 2023

2024 Implementation Requirements Status

60% by 2025

0% — Identify MUMs >1 acre of irrigated area

0% — Determine most feasible path for MUMs

0% — Implement solution for MUMs

80% by 2026 |

100% by 2027

2027 Compliance Performance



Requirement is to install DIMs or In-lieu technology for mixed use meters with 1+ acre of irrigated area



Compliance Requirement Tasks

Identify mixed use meters with more than one acre or more of irrigated area.

Determine most technically and financially feasible path for MUMs

Implement identified path for MUMs

Annually report activities and performance results

In-lieu Technologies

If In-lieu technology chosen, must implement complementary BMPs along with the technology.

The required BMPs include:

communications,
irrigation system inspections,
repair and maintenance and proper
irrigation scheduling

- Water budget-based rate structure
- Water budget-based management (no rate structure)
- Hardware improvements
- Remote sensing combined with other available information
- Other technologies meeting the burden of proof

