

AGENDA REGULAR WORKSHOP OF THE BOARD OF DIRECTORS

WEDNESDAY, JULY 1, 2020 10:00 A.M.

INLAND EMPIRE UTILITIES AGENCY* Telecon: (415) 856-9169/Conference ID: 440 187 404#

PURSUANT TO THE PROVISIONS OF EXECUTIVE ORDER N-25-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 12, 2020, AND EXECUTIVE ORDER N-29-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 17, 2020 ANY BOARD MEMBER MAY CALL INTO THE BOARD MEETING WITHOUT OTHERWISE COMPLYING WITH ALL BROWN ACT'S TELECONFERENCE REQUIREMENTS.

TELECONFERENCE ACCESSIBILITY FOR THE GENERAL PUBLIC:

In all efforts to prevent the spread of COVID-19, until further notice, the Inland Empire Utilities Agency will be holding all Board and Committee meetings by teleconferencing.

The meeting will be accessible at: (415) 856-9169 / Conf Code: 440 187 404#

This meeting is being conducted virtually by video and audio conferencing. There will be no public location available to attend the meeting; however, the public may participate and provide public comment during the meeting by calling into the number provided above. The public may also view the meeting live through the Agency's website. Alternatively, you may email your public comments to the Interim Board Secretary/Office Manager Laura Mantilla at lmantilla@ieua.org no later than 24 hours prior to the scheduled meeting time. Your comments will then be read into the record during the meeting.

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

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 no later than 24 hours prior to the scheduled meeting time or 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.

1. CONSENT ITEMS

NOTICE: All matters listed under the Consent Calendar are considered to be routine and non-controversial and will be acted upon by the Board by one motion in the form listed below. There will be no separate discussion on these items prior to the time the Board votes unless any Board members, staff or the public requests specific items be discussed and/or removed from the Consent Calendar for separate action.

A. ADOPTION OF RESOLUTION NO. 2020-7-14, HONORING THE LIFE AND SERVICE OF WESTERN MUNICIPAL WATER DISTRICT DIRECTOR ROBERT STOCKTON

Staff recommends that the Board adopt Resolution No. 2020-7-14, honoring the life and service of Director Robert "Bob" Stockton from Western Municipal Water District.

2. WORKSHOP

- A. <u>TECHNOLOGY MASTER PLAN INITIATIVES</u>
- B. CHINO BASIN PROGRAM UPDATE ECONOMIC ANALYSIS
- 3. GENERAL MANAGER'S COMMENTS
- 4. BOARD OF DIRECTORS' REQUESTED FUTURE AGENDA ITEMS
- 5. <u>DIRECTORS' COMMENTS</u>
- 6. ADJOURN

*A Municipal Water District

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary (909) 993-1944, 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.

Proofed by: jh

Declaration of Posting

I, Laura Mantilla, Interim Board Secretary/Office Manager of the Inland Empire Utilities Agency*, A Municipal Water District, hereby certify that a copy of this agenda has been posted by 5:30 p.m. at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA on Thursday, June 25, 2020.

Laura Mantilla

CONSENT CALENDAR ITEM

1A



Date: July 1, 2020

To: The Honorable Board of Directors From: Shivaji Deshmukh, General Manager

100

Committee:

Executive Contact: Shivaji Deshmukh, General Manager

Subject: Adopt Resolution No. 2020-7-14, Honoring the Life and Service of Western Municipal

Water District Director Robert "Bob" Stockton

Executive Summary:

Robert "Bob" Stockton served on the Western Municipal Water District (WMWD) Board of Directors (Board) since December 2014 to represent Division 1. He served as a member of the Riverside and Murrieta Advisory Committees, was the representative for the Chino Desalter Authority, the alternate representative for Chino Basin Watermaster Board, and served on the District Joint Committees for Eastern Municipal Water District and Rancho California Water District. Director Stockton recently served as WMWD's Board President in 2019 and served as an avid supporter of regional water access and sustainability for the entire service area. He had more than 41 years of experience designing infrastructure projects as a certified civil engineer and had been the principal-in-charge at Rick Engineering's Riverside office for more than 30 years. In 2012, Governor Brown appointed him to the California Board for Professional Engineers, Land Surveyors and Geologists. Director Stockton volunteered as the President of the Board for Path of Life Ministries, was a past Chairman of the Board for the Greater Riverside Chambers of Commerce, a past Chair for the Riverside Public Utilities Board, a Board Member of the Riverside YWCA Board, and a member of the California Baptist University School of Engineering Advisory Committee. Director Stockton passed away on May 13, 2020, but his lasting impact to the Riverside community will not be forgotten.

Staff's Recommendation:

Adopt Resolution No. 2020-7-14, honoring the life and service of Director Robert "Bob" Stockton from Western Municipal Water District.

Budget Impact Budgeted (Y/N): N Amendment (Y/N): Y Amount for Requested Approval: Account/Project Name:

Fiscal Impact (explain if not budgeted):

Full account coding (internal AP purposes only): - - - Project No.:

Prior Board Action:		
Environmental Determination:		
Not Applicable		
Business Goal:		
Attachments:		

Attachment 1 - Resolution No. 2020-7-14

RESOLUTION NO. 2020-7-14

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY*, SAN BERNARDINO COUNTY, CALIFORNIA, HONORING THE LIFE AND SERVICE OF DIRECTOR ROBERT STOCKTON.

WHEREAS, Robert "Bob" Stockton was elected to the Western Municipal Water District (WMWD) Board of Directors (Board) in December 2014 to represent Division 1, which includes a portion of the City of Riverside; and

WHEREAS, in his elected official role on behalf of WMWD, Director Stockton served as a member of the Riverside and Murrieta Advisory Committees, the representative for the Chino Desalter Authority, the alternate representative for Chino Basin Watermaster Board, and served on the District Joint Committees for Eastern Municipal Water District and Rancho California Water District; and

WHEREAS, Director Stockton had recently served as WMWD's Board President for the year of 2019 and served as an avid supporter of regional water access and sustainability for the entire service area while always considering the voice of the district he served; and

WHEREAS, Director Stockton had more than 41 years of experience designing infrastructure projects as a certified civil engineer and had been the principal-in-charge at Rick Engineering's Riverside office for more than 30 years; and

WHEREAS, in 2012, Governor Brown appointed him to the California Board for Professional Engineers, Land Surveyors and Geologists; and

WHEREAS, Director Stockton volunteered as the President of the Board for Path of Life Ministries, was a past Chairman of the Board for the Greater Riverside Chambers of Commerce, a past Chair for the Riverside Public Utilities Board, a Board Member of the Riverside YWCA Board, and a member of the California Baptist University School of Engineering Advisory Committee; and

WHEREAS, Director Stockton also served as a Planning Commissioner for the City of Riverside, was a past Chair of the Leadership Riverside program, and was the Chair of the Monday Morning Group of Western Riverside County's Water Committee; and

WHEREAS, Director Stockton held a bachelor's degree in construction engineering from California State Polytechnic University, Pomona, was a registered civil engineer in both California and Arizona, and held LEED accreditation; and

WHEREAS, Director Stockton passed away on May 13, 2020, but his lasting impact to the Riverside community will not be forgotten.

Resolution No. 2020-7-14 Page 2

NOW, THEREFORE BE IT RESOLVED, on this 1st day of July, 2020, that the Inland Empire Utilities Agency Board of Directors hereby recognizes Director Stockton's life and service to not only WMWD, but to the greater Riverside community; and

BE IT FURTHER RESOLVED, that the Inland Empire Utilities Agency's Board of Directors gives their most sincere condolences to Director Stockton's family and friends, as he has touched the lives of so many people throughout his life and career of serving others, including those within his family at WMWD.

ADOPTED this 1st day of July 2020.

Kati Parker
President of the Inland Empire
Utilities Agency* and the Board
of Directors thereof

ATTEST:

Steven J. Elie Secretary/Treasurer of the Inland Empire Utilities Agency* and the Board

of Directors thereof

^{*}A Municipal Water District

Resolution No. 2020-7-14 Page 3	
STATE OF CALIFORNIA COUNTY OF SAN BERNARDINO))SS)
	Inland Empire Utilities Agency*, DO HEREBY ing No. 2020-7-14, was adopted at a regular meeting on ng vote:
AYES:	
NOES:	
ABSTAIN:	
ABSENT:	
	Kati Parker Secretary/Treasurer of the Inland Empire Utilities Agency* and of the Board of Directors thereof

WORKSHOP ITEM

2A

Technology Master Plan Initiatives









Background



Technology Master Plan updated every 5 years



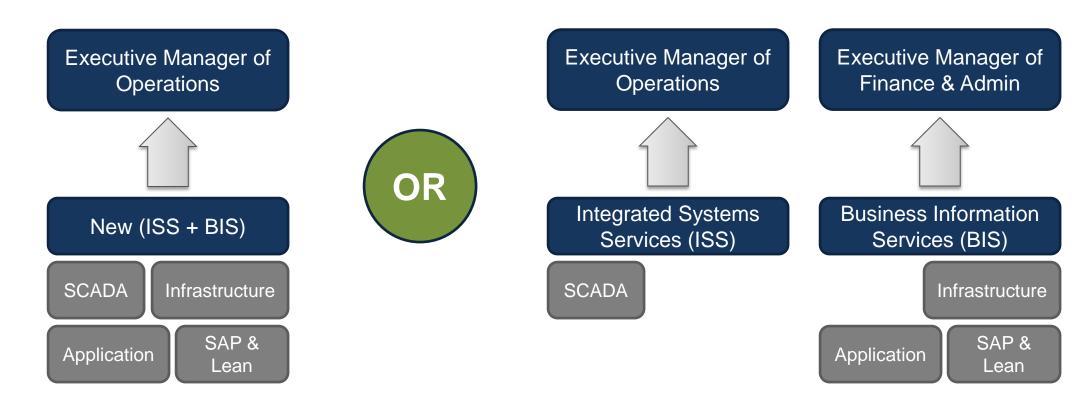
Comprehensive analysis includes technology, structure, and business systems review



3 days on-site interview workshops with 69 staff members representing all Agency departments

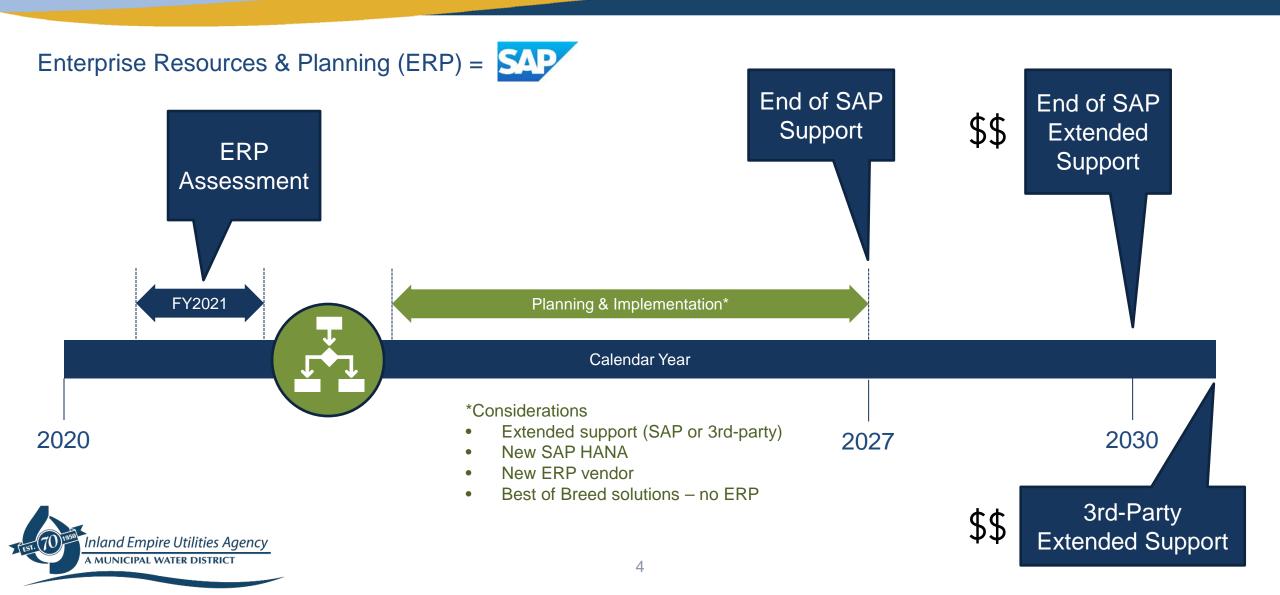


IT Organizational Structure





Perform ERP Assessment



Adopt "Cloud Preferred" Strategy

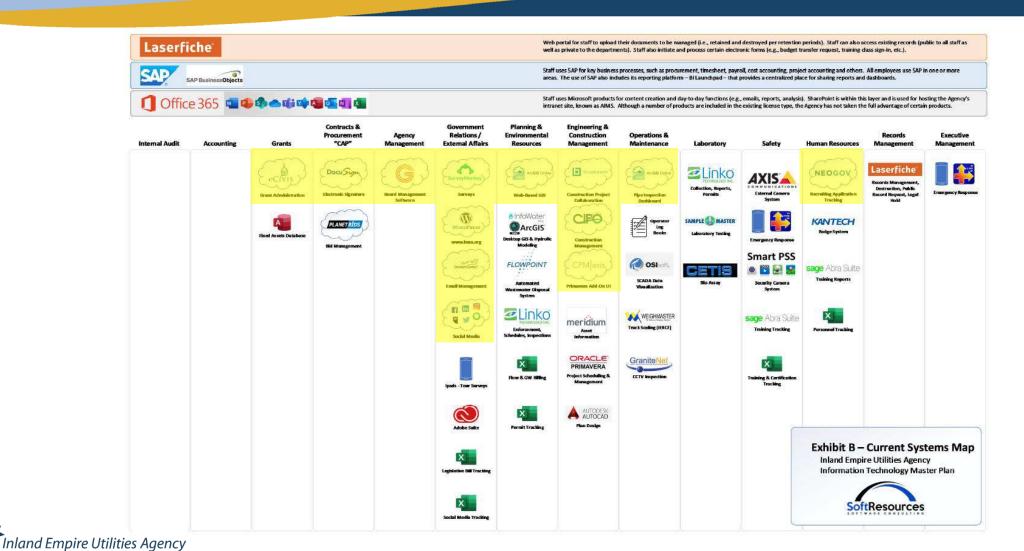


- Aligns Agency with future software deployment methods
- Mobile access
- Decreases Agency expenses on computer hardware and physical space
- Relieves IT staff of scheduled upgrades and maintenance/backup
- Favorable experience with existing Agency cloud-based software including CIPO, PlanetBids, and DocuSign



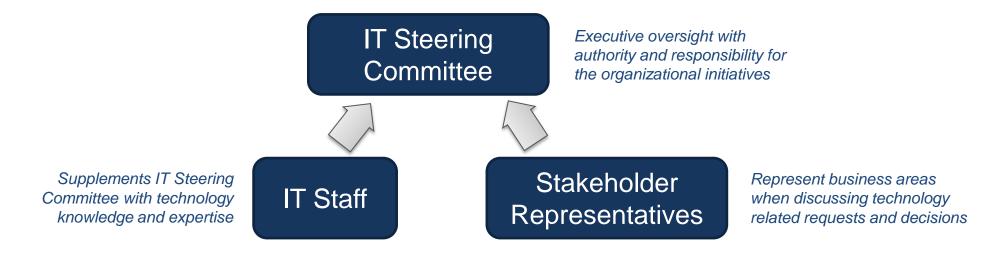
Adopt "Cloud Preferred" Strategy

A MUNICIPAL WATER DISTRICT



IT Steering Committee

- Includes stakeholders from all departments
- Ensures IT initiatives are vetted to ensure software/hardware solutions align with IT strategic direction at the Agency





Other Initiatives

Key Application Projects

- Expand Granicus for Board meeting preparation
- Digitization of paper forms
- Acquire legislative tracking software
- Maximize use of records management tool - Laserfiche
- Implement electronic signature (DocuSign)*
- Refresh Agency's website*

* Completed

Key Infrastructure Projects

- 3-year mobile device replacement program
- Cloud-based phone system
- Decommission desktop printers
- Upgrade Sadie Training Room equipment
- Kantech security badge implementation



Questions





WORKSHOP ITEM

2B



Economic AnalysisIEUA Board Workshop

July 1, 2020





- Building on our Past Successes
- Stakeholder Engagement
- Regulatory Risk & Recommendations
- Economic Analysis
- Next Steps

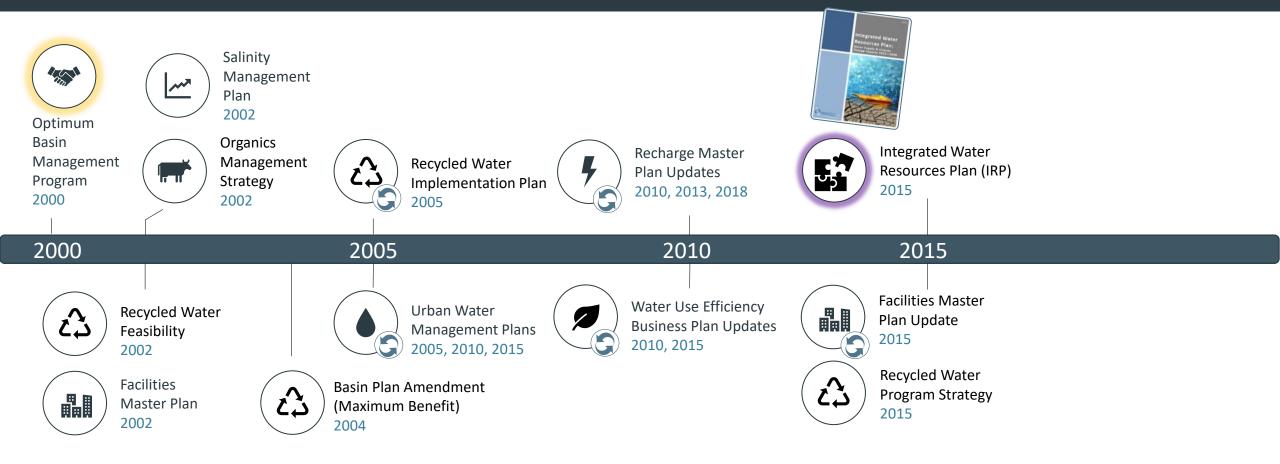


Building on our Past Successes



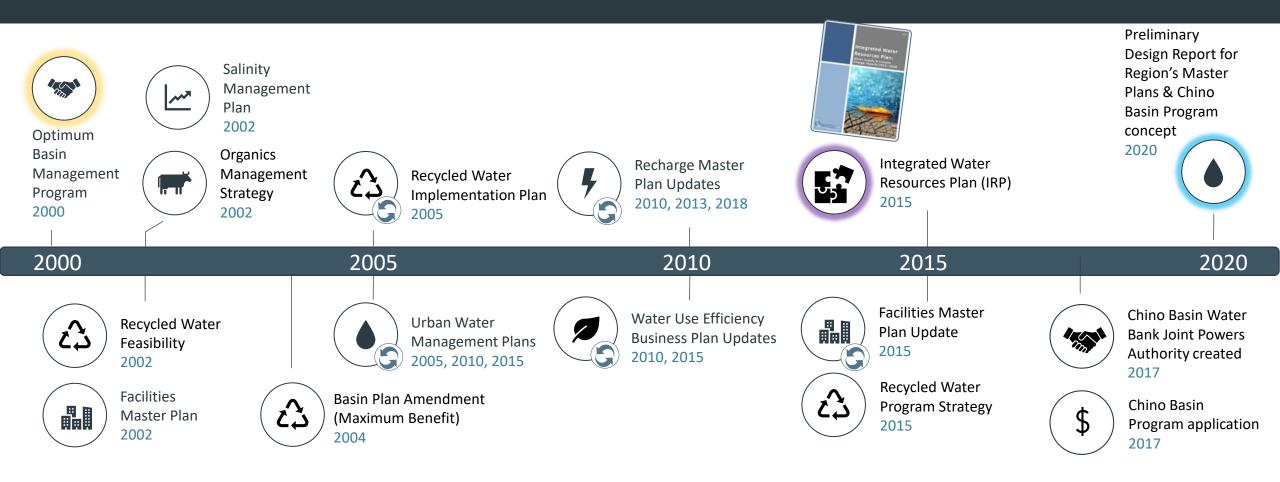


Building on our Past Successes





Building on our Past Successes





Stakeholder Engagement

- 20+ Recycled Water salinity management workshops from 2014 2020
- Since June 2019 ...
 - ✓ One-on-One Met with all fourteen agencies that signed the MOU
 - ✓ **GM Meetings** Held monthly since January 2020
 - Workshops
 - Nine CBP Workgroup meetings
 - Regulatory Challenges Workshop
 - CBP Economic Analysis
 - One-on-One IEUA Member Agency Meetings
 - Focused Workshops scheduled in July 2020
 - Multiple meetings with California Water Commission to discuss local concerns with State requirements



Regulatory Risk & Recommendations



Recycled water NPDES TDS permit limit projected to be exceeded by 2030



Drought and climate change may expedite TDS exceedance



Recycled water recharge regulatory MCL exceeded for 1,2,3-TCP and NL for PFAS



Ambient TDS water quality increasing trends demonstrates reduced assimilative capacity

Recommendations

Continue pursuit of permit modification

Purchase supplemental low TDS water

AWPF online by 2030

Develop local water supplies



Economic Analysis Definitions

What do we have to do to meet compliance?

IEUA Master Plan:

Ten Year Forecast

15,000 AFY of AWPF recycled water + 16 AWPF injection wells + 8 miles of pipeline [water quality] · 2031

What if we keep the water for ourselves? (no exchange with the State)

Region's Master Plan:

IEUA Master Plan + IRP +
Member Agency Capital Projects

IEUA Master Plan + 9 wells capacity of 26,700 AFY + 30 miles of pipeline + new external water supply [water quality | water supply] · 2036+

What do we need to build to get the \$207M WSIP funding?

Chino Basin Program:

Region's Master Plan +

MWD interconnection & State exchange for 25 years [water quality | water supply] · 2026



Economic Analysis Alternatives

Infrastructure	IEUA Master Plan	Region's Master Plans	СВР
AWPF	\checkmark	\checkmark	✓
Injection	✓	✓	✓
Additional Supplies	_	\checkmark	✓
Wellhead Treatment	_	\checkmark	✓
Regional Water Pipeline	_	√	√
Water Exchange with State	_	_	√

C



Economic Analysis Development

Developed CBP Economic Evaluation Decision Support Tool

- Incorporated PDR detailed cost estimates for 48 program alternatives
- Identified and assessed value of program benefits
- Structured Net Present Value analysis of costs and benefits
- Allocated costs and benefits to program purposes
- Compared alternatives
- Conducted sensitivity analysis



Economic Analysis Results

- 1. Costs
 - CBP Costs compared to other regional program alternatives
 - Impact of phasing local projects compared to CBP timeline of 2026

2. Value of water with WSIP funding and State performance for 25 years compared to local investments to keep water in the basin

Note: All costs shown are relative to each other; sensitivity analysis of assumptions indicate that if variables are modified, the impacts change consistently across all the program alternatives. "They all go up or they all go down, together"



Capital Cost Comparison

Infrastructure	IEUA Master Plan 2031	Region's Master Plan 2026	CBP WSIP Application 2026	CBP PDR 2026
Cost @ 2015	\$279 M	\$459 M	\$385 M	\$457 – 519 M
Cost w/ External Supplies @ 2019	\$443 M	\$599 M	\$526 M	\$598 M

Difference in Investment: \$158 M

WSIP Funding: \$207 M

TAKE AWAY: WSIP investment provides funds that cover 100% of CBP's additional infrastructure costs to provide the Region flexibility and reliability in water supply



Cost Comparison | Implementation by 2026

	IEUA MP 2026	CBP 2026	RMP 2026
Capital Cost 2019	\$305 M	\$ 598 M	\$599 M
Annual Cost 2019 Capital + O&M	\$22.6 M	\$28.6 M	\$35.9 M
	\$6 M/Yea cash flow say		

Net Present Value (NPV)
capital and O&M costs
evaluated for 50 years
and discounted to
2019\$

TAKE AWAY IF IEUA Master Plan is accelerated by five years, it will be lowest cost alternative IEUA MP will address regulatory challenges and not provide water reliability Region's MP cost with similar water reliability benefits is 26% higher than CBP



Cost Comparison | Phased Region's MP Implementation

\$19.6M/Year cash flow savings

	IEUA MP 2031	CBP 2026	RMP 2036
Capital Cost 2019	\$355 M	\$ 598 M	\$ 805 M
Annual Cost 2019 Capital + O&M	\$26.2 M	\$28.6 M	\$48.2 M

Net Present Value (NPV) capital and O&M costs evaluated for 50 years and discounted to 2019\$

TAKE AWAY: Annual cost for IEUA MP is 10% lower than the CBP Annual cost for Region's MP (2036) is 168% more than the CBP



Household Impact Assumptions

IEUA Master Plan

- Addresses wastewater treatment plant regulatory challenges
- Paid 100% on the existing rate base as monthly sewer rates (per EDU)

Region's Master Plan and Chino Basin Program

- Addresses wastewater treatment plant regulatory challenges, provides water supply reliability and future water supplies
- Sources of revenue would include monthly wastewater rates, connection fees, and monthly water rates (EDU + One Water Connection Fees + MEU)

Annual unit assumptions: 3,400,000 EDU and 4,800,000 MEU



Breakdown of Household Cost | Capital + O&M

	IEUA Master Plan 2031	CBP 2026	Region's Master Plan 2036
Annual Cash Flow (2019\$) [capital + O&M]	\$26.2M	\$28.6M	\$48.2 M
Funding Source Assumptions	Wastewater & Water 100% 0%	Wastewater & Water 50% 50%	Wastewater& Water 50% 50%
Per unit (EDU MEU)	\$7.71 -	\$4.21 \$2.98	\$7.10 \$5.03
Per household impact	\$7.71	\$7.19	\$12.12
	-	-\$0.52	+\$4.42
Capital O&M split	50% 50%	40% 60%	55% 45%

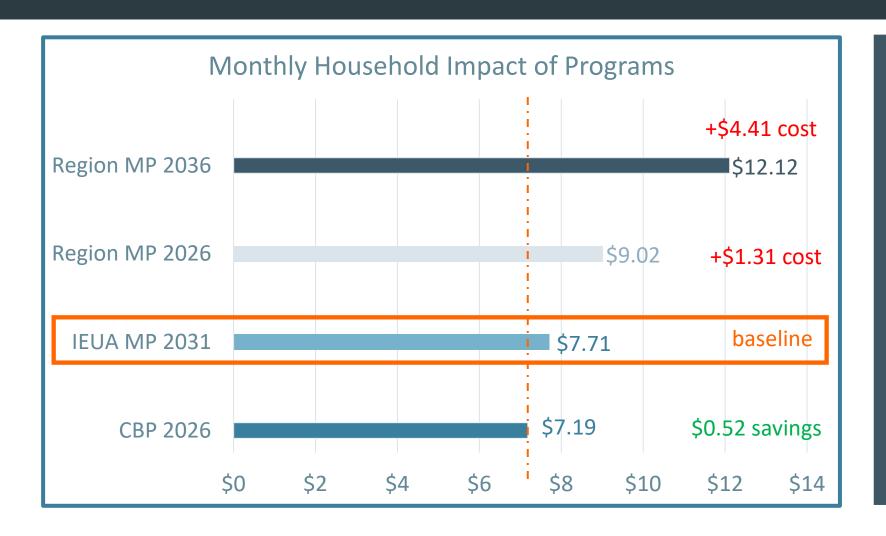


Breakdown of Household Cost | Capital + O&M

	No Action 2031	IEUA Master Plan 2031	CBP 2026	Region's Master Plan 2036
Annual Cash Flow (2019\$) [capital + O&M]	\$31.6 M+ Permit Violations + Stranded Assets	\$26.2M	\$28.7M	\$48.2 M
Funding Source Assumptions	Water Purchases	Wastewater & Water 100% 0%	Wastewater & Water 50% 50%	Wastewater& Water 50% 50%
Per unit (EDU MEU)	\$? fines \$6.58	\$7.71 -	\$4.21 \$2.98	\$7.10 \$5.03
Per household impact	\$6.58+	\$7.71	\$7.19	\$12.12
		-	-\$0.52	+\$4.42
Capital O&M split		50% 50%	40% 60%	55% 45%



Life Cycle Cost Comparison | Capital + O&M



TAKE AWAY

CBP is the <u>lowest cost</u> per household

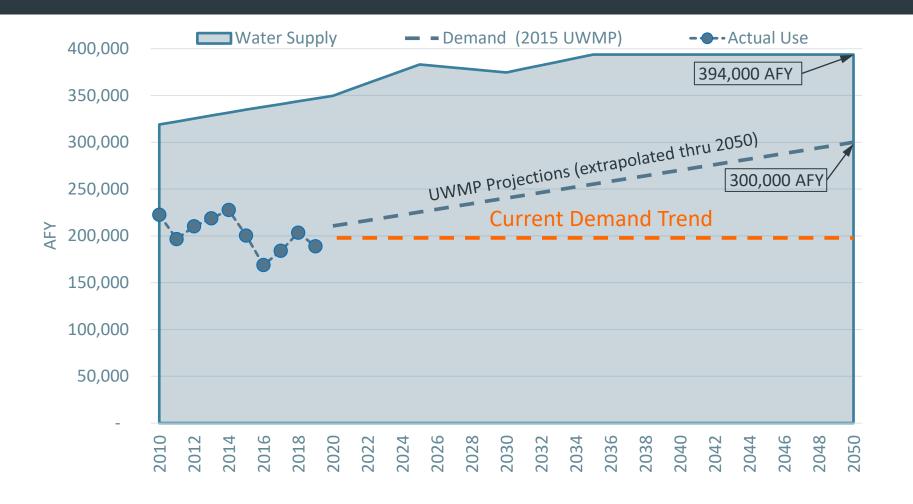
Region's MP (2036) is

68% higher

than CBP



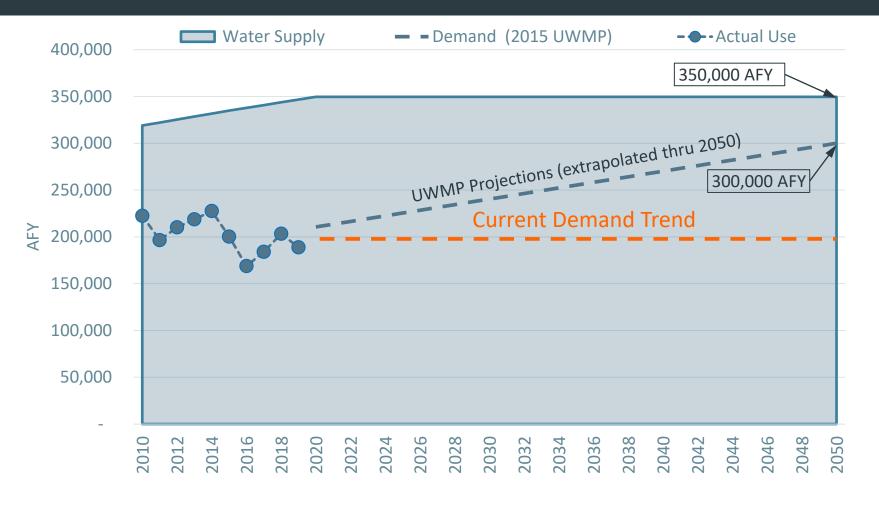
IEUA Service Area Water Supply Needs



Total supplies from
Customer Agency
projections in 2015
Urban Water
Management Plans



IEUA Service Area Water Supply Needs

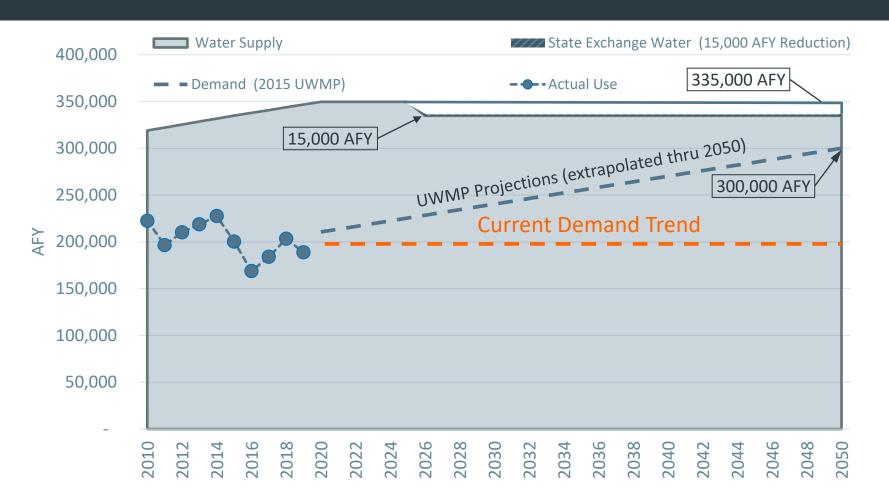


To be conservative, evaluation adjusted to show supplies held at 2020 level (~350,000 AF)

^{*} Water supplies held at 2020 levels. Projection was not adjusted for CECs/unforeseen shortages. Projections will be updated as part of 2020 UWMP & IRP updates.



IEUA Service Area Water Supply Needs



TAKE AWAY

- Based on 2015
 UWMP, supplies
 available to meet
 demands through
 2050
- Opportunity to leverage excess supplies

^{*} Water supplies held at 2020 levels. Projection was not adjusted for CECs/unforeseen shortages. Projections will be updated as part of 2020 UWMP & IRP updates.



Is it better to keep the water in the basin?

- Investing smartly in infrastructure allows the region to <u>develop valuable local</u> <u>supplies</u>
- Priority is <u>maximizing access to existing supplies</u> and protecting against MWD supply interruptions and managing water quality challenges
- \$206.9M State investment provides the region with water infrastructure that otherwise wouldn't be feasible at **the lowest household cost impact** for now and the future



Water Supply Benefit Tradeoffs

Cash Flow and Annual Benefit Comparisons (RMP 2026 and CBP 2026)

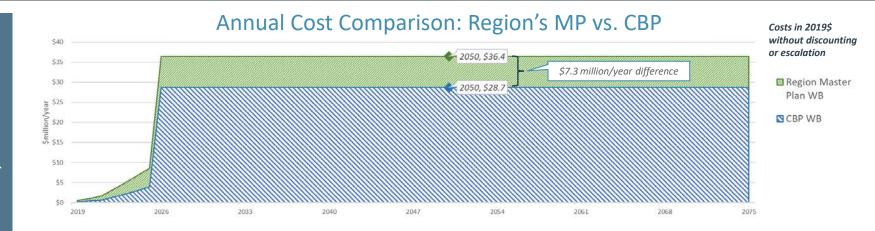
TAKE AWAY

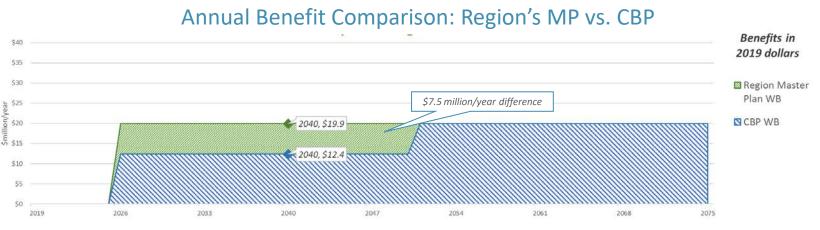
With WSIP Funding:

- Cash Flow Reduction: \$7.3 million/year
- WSIP Exchange: 15,000 AF/year
 - ∴ Unit Cost of Water: \$513/AF

Without WSIP Funding:

- Increase in water supply benefits of \$7.5 million/year for 25 Years
- 15,000 AF/year increase in supply
 - ∴ Incremental water value: \$500/AF







Stakeholder Questions

1. Is there a better deal than State's investment?

- State investment: 15,000 AFY @ \$550/AF for 25 years
- With the state investment, potential external supply sources are available

2. Parties are not in favor of exporting Chino Basin water

External supply sources and unused/growth recycled water is the source water for the State exchange

3. We don't want the State to be in the Chino Basin

• California Water Commission staff is working on response to assist local agencies concerns



Summary of Analysis

Baseline (IEUA Master Plan)

- meets regulatory requirements
- not water supply reliability

Region's Master Plan (CBP without State funding)

- 68% higher than the CBP
- Annual water supply benefits of \$7.5M for 25 years

Chino Basin Program

- <u>lowest cost</u> impacts to households
- \$0.52 less per month than IEUA Master Plan
- Annual cash flow savings of \$7.3M for 50 years

TAKE AWAY

Chino Basin Program
provides higher value
by
meeting permit
requirements
and
providing
water supply and reliability



Next Steps

- Staff stakeholder communication
- IEUA | CBWM Ad Hoc:
- CBP Econ Analysis Workgroup:
- CBP PDR Workgroup:
- CBP GM Meeting:
- IEUA Board Action:

June - July

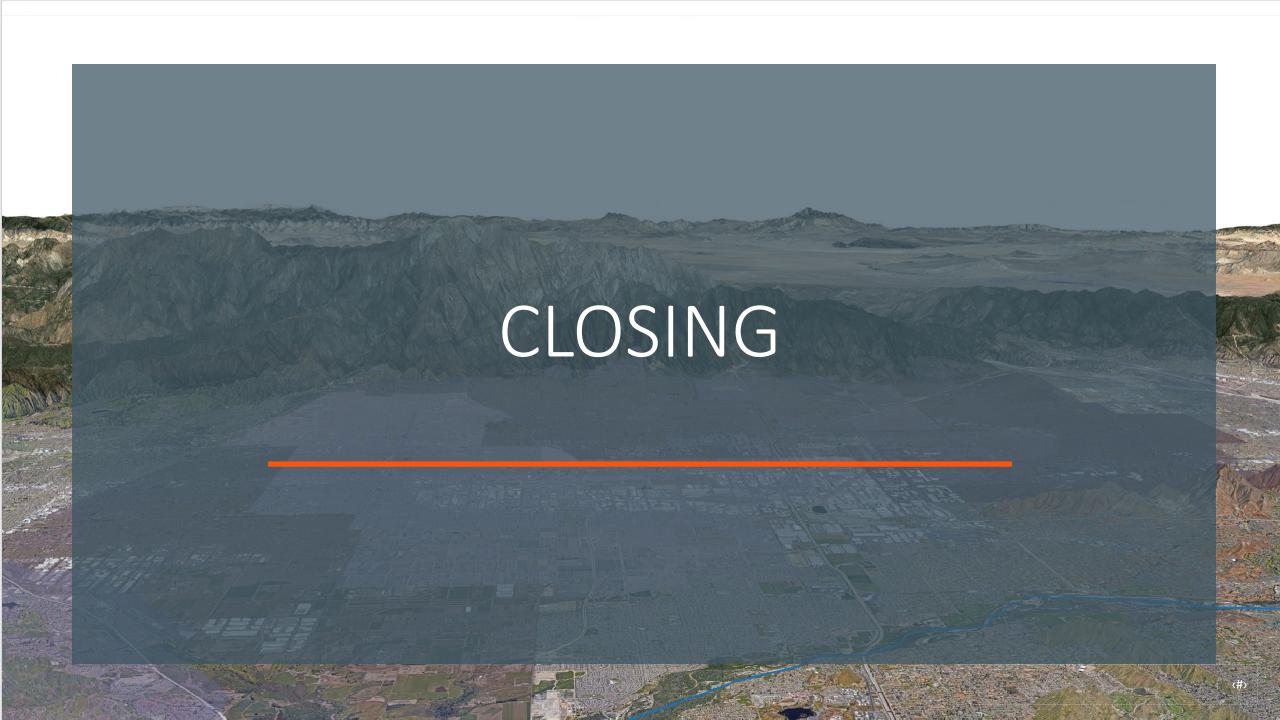
June 30, 2020

July 7, 2020

July 15, 2020

July 22, 2020

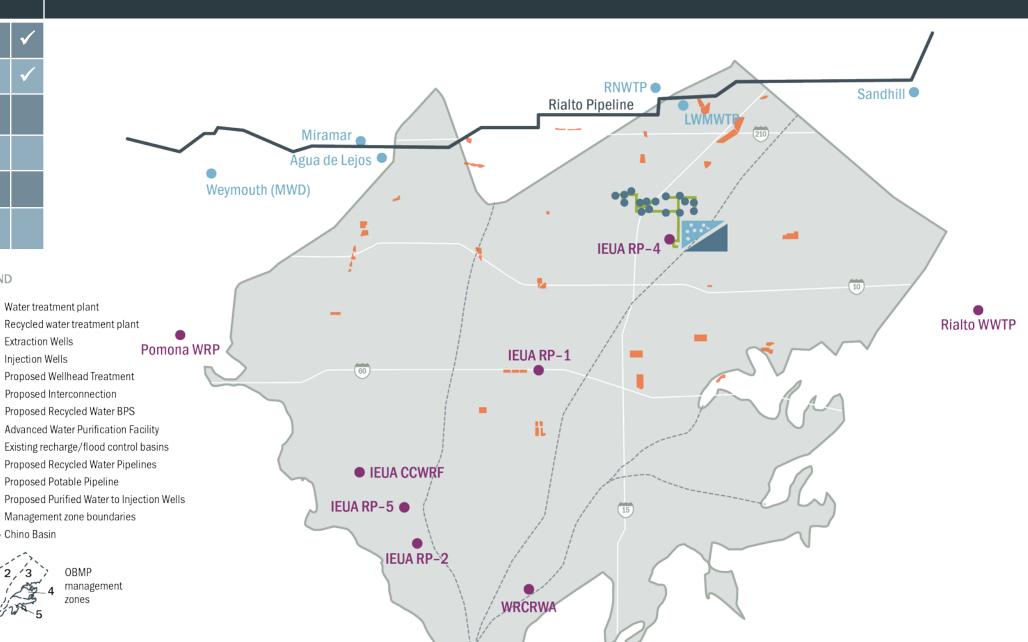
Aug 19, 2020



IEUA's Master Plan

Infrastructure AWPF Injection Additional Supplies Wellhead Treatment Regional Water Pipeline State Water Exchange

LEGEND



Region's Master Plan

Infrastructure

AWPF

Injection

Additional Supplies

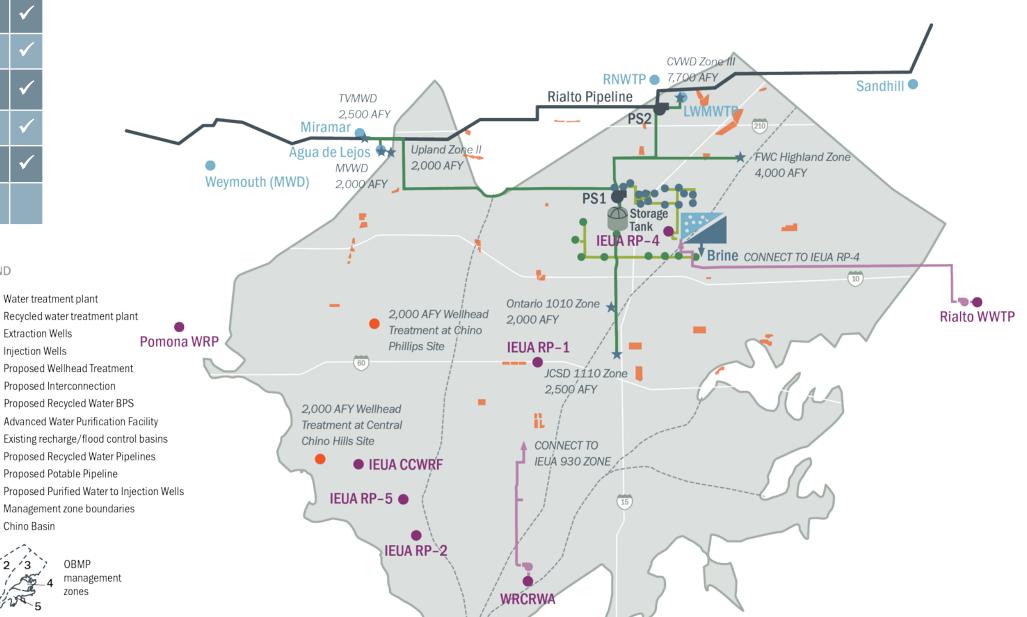
✓

Wellhead Treatment

Regional Water Pipeline

State Water Exchange

LEGEND



Chino Basin Program

Infrastructure

AWPF

Injection

Additional Supplies

✓

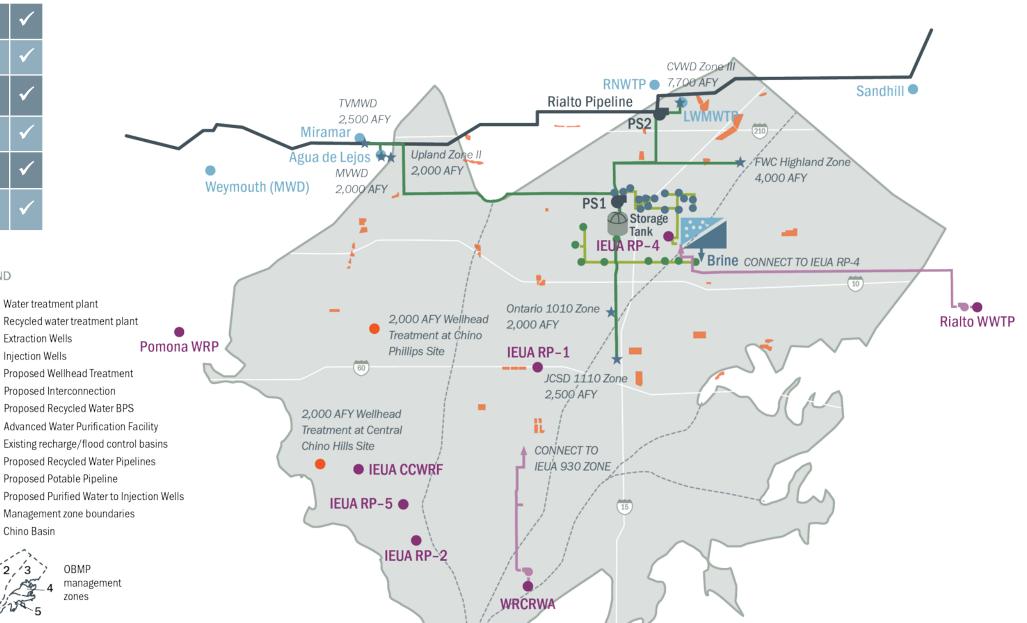
Wellhead Treatment

Regional Water Pipeline

✓

State Water Exchange

LEGEND





Program Alternatives | Benefit Cost Comparison

	IEUA Master Plan 2026	Region's MP NB 2026	Region's MP WB 2026	CBP WB 2026		
	(Costs in \$ millions)					
Capital Cost (2019 \$)	\$305	\$599	\$ 599	\$598		
NPV Cost (2019 \$)	\$708	\$1,292	\$1,292	\$1,198		
Total Loan Payments	\$132	\$237	\$237	\$110		
Total Replacement	\$80	\$120	\$120	\$122		
Total O&M	\$496	\$778	\$778	\$809		
NPV Benefit	\$708	\$1,492	\$1,732	\$1,543		
Water Supply Benefit		\$466	\$706	\$518		
B:C Ratio	1.00	1.15	1.34	1.29		

IEUA Master Plan
designed to meet
regulatory challenges does
not increase water supply

Region's Master Plan with a water bank provides higher Net Present Value of Water Supply benefits at a higher project cost

CBP at a lower Net Present
Value Cost provides a
reduced water supply
benefits of \$188M in
exchange of WSIP funding
of \$207M



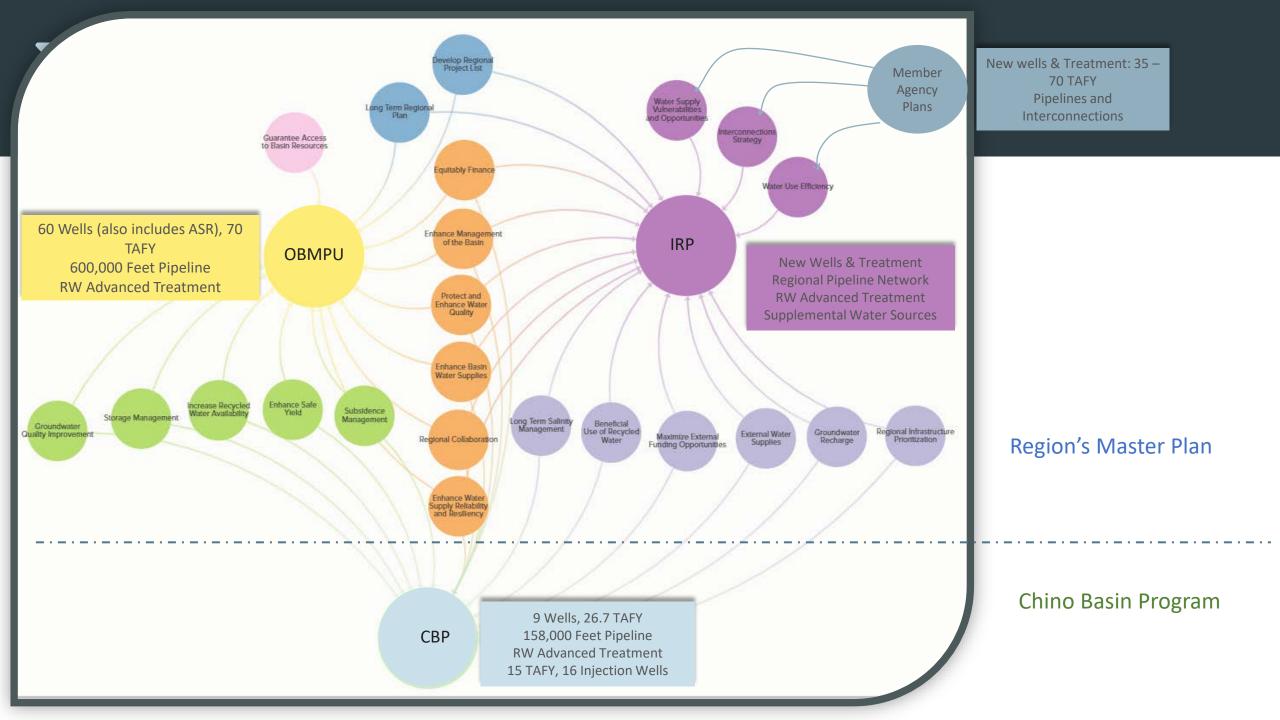
Program Alternatives | Benefit Cost Comparison

	IEUA Master Plan 2031	Region's MP NB 2036	Region's MP WB 2036	CBP WB 2026	
(Costs in \$ millions)					
Capital Cost (2019 \$ w esc)	\$355	\$805	\$805	\$598	
NPV Cost (2019 \$)	\$685	\$1,214	\$1,214	\$1,205	
Total Loan Payments	\$124	\$202	\$202	\$116	
Total Replacement	\$72	\$99	\$99	\$122	
Total O&M	\$489	\$769	\$769	\$809	
Recycled Water Import	-	\$145	\$145	\$158	
NPV Benefit	\$885	\$1,358	\$1,610	\$1,543	
Water Supply Benefit		\$388	\$640	\$517	
B:C Ratio	1.00	1.12	1.33	1.28	

IEUA Master Plan
designed to meet
regulatory challenges does
not increase water supply

Region's Master Plan with a water bank provides higher Net Present Value of Water Supply benefits at a higher project cost

CBP at a lower Net Present
Value Cost provides a
reduced water supply
benefits of \$188M in
exchange of WSIP funding
of \$207M





Water Resources Planned Infrastructure Overview

Infrastructure	OBMPU	СВР	Member Agencies Plan		
Wells	70 TAFY (60 wells, including ASR)	26.7 TAFY (9 wells)	35-70 TAFY (vary by agency)		
Treatment	AWPF	AWPF	Various		
Pipelines	600,000 LF	158,000 LF	✓		
Interconnections	✓	✓	✓		
Groundwater Storage	800 TAF - 1 MAF	200 – 300 TAF	✓		
Supplemental Water	✓	✓	✓		
* Information is preliminary and intended to show general comparison.					