

# Chino Basin Watermaster

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REGIONAL WATER SUPPLIES: CHALLENGES, SOLUTIONS AND THE ROLE  
OF THE GROUNDWATER BASIN

BOARD WORKSHOP

DECEMBER 5, 2022





# Recap

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Throughout three workshops, Watermaster Board members and attendees have improve their understanding of:



## Workshop I

- The Chino Basin Adjudication
- The Watermaster role
- The role of Watermaster Board, Board Officers, and other Committees



## Workshop II

- The 1998 Court Order
- The relationship between the Pool Committees, AC, and the Board
- The different types of actions and decisions the Board could make



## Workshop III

- The Peace Agreement
- The Optimum Basin Management Program
- The OBMP Update

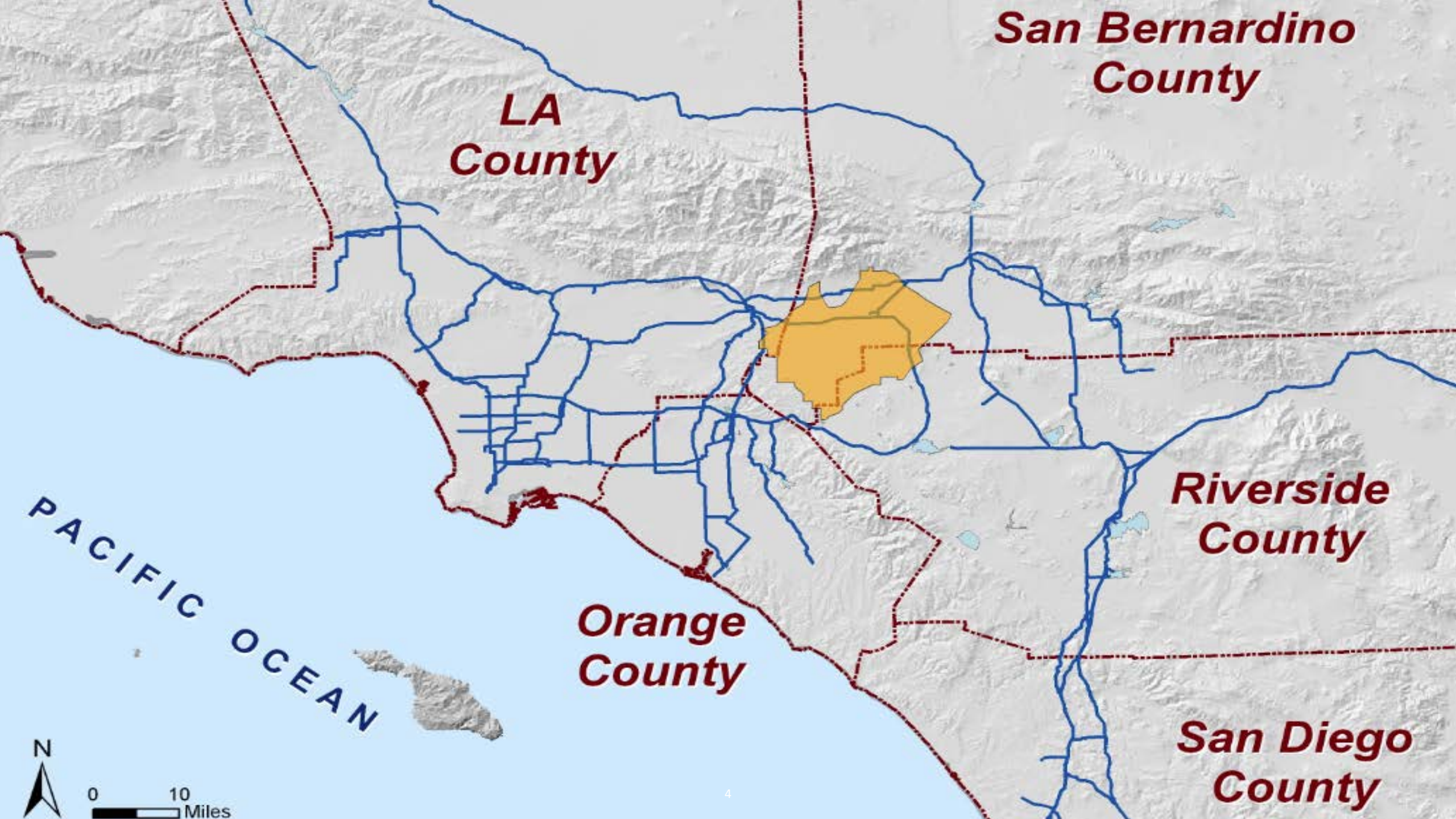


# Workshop Goals

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## Improve understanding of:

- The regional supply challenges, and solutions for IEUA, TVMWD, and WMWD
- The role of the groundwater basin in helping overcome regional supply challenges



**San Bernardino  
County**

**LA  
County**

**Riverside  
County**

**Orange  
County**

**San Diego  
County**

**PACIFIC OCEAN**





# Metropolitan Water District

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BRANDON GOSHI





## Chino Basin Watermaster Workshop

# Regional Water Supply Conditions and Key Future Initiatives

December 5, 2022

# Metropolitan Water District



# Sources of Water for MWD's Service Area





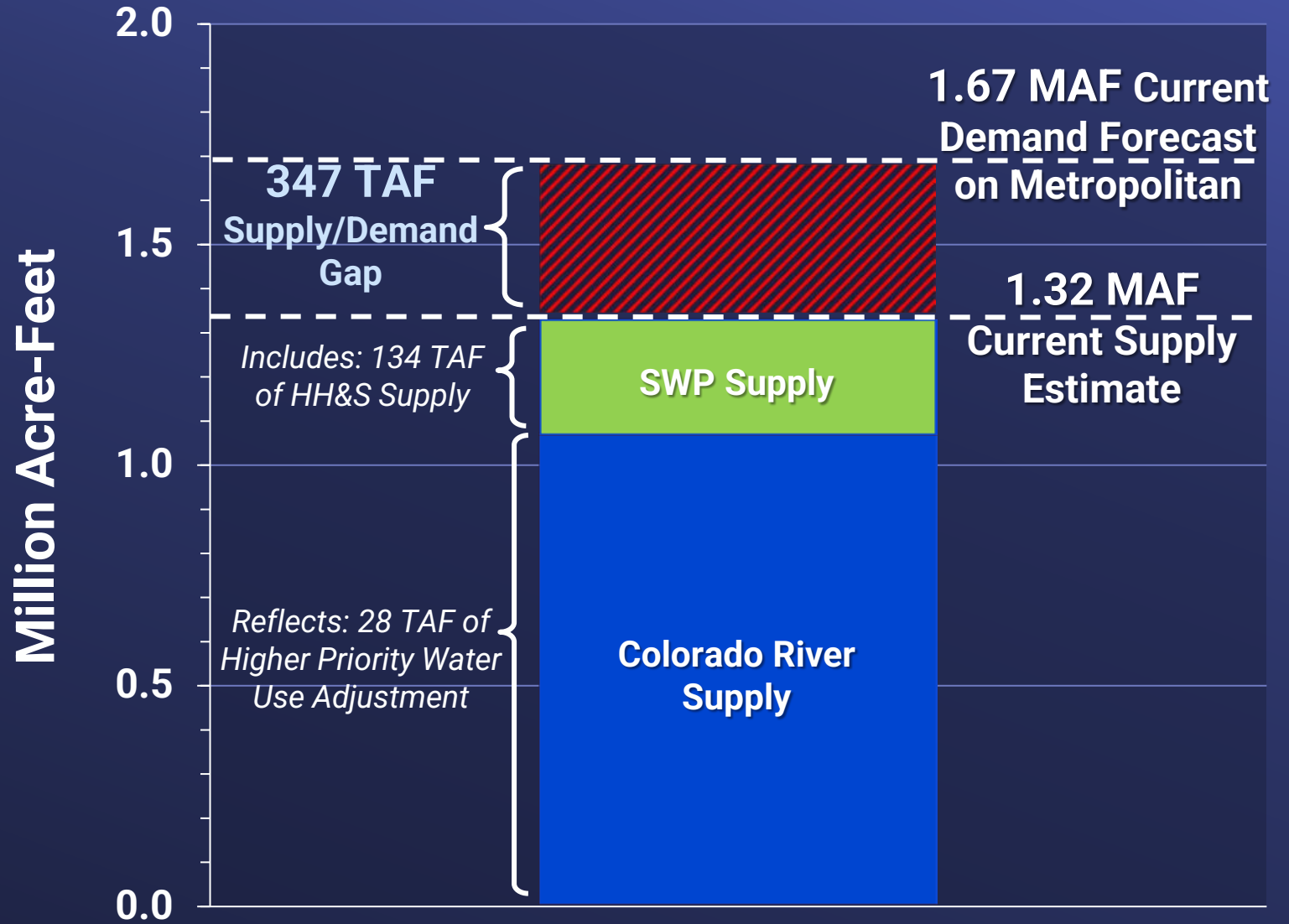
# Metropolitan's Imported Water Supplies



# 2022 Water Supply Update

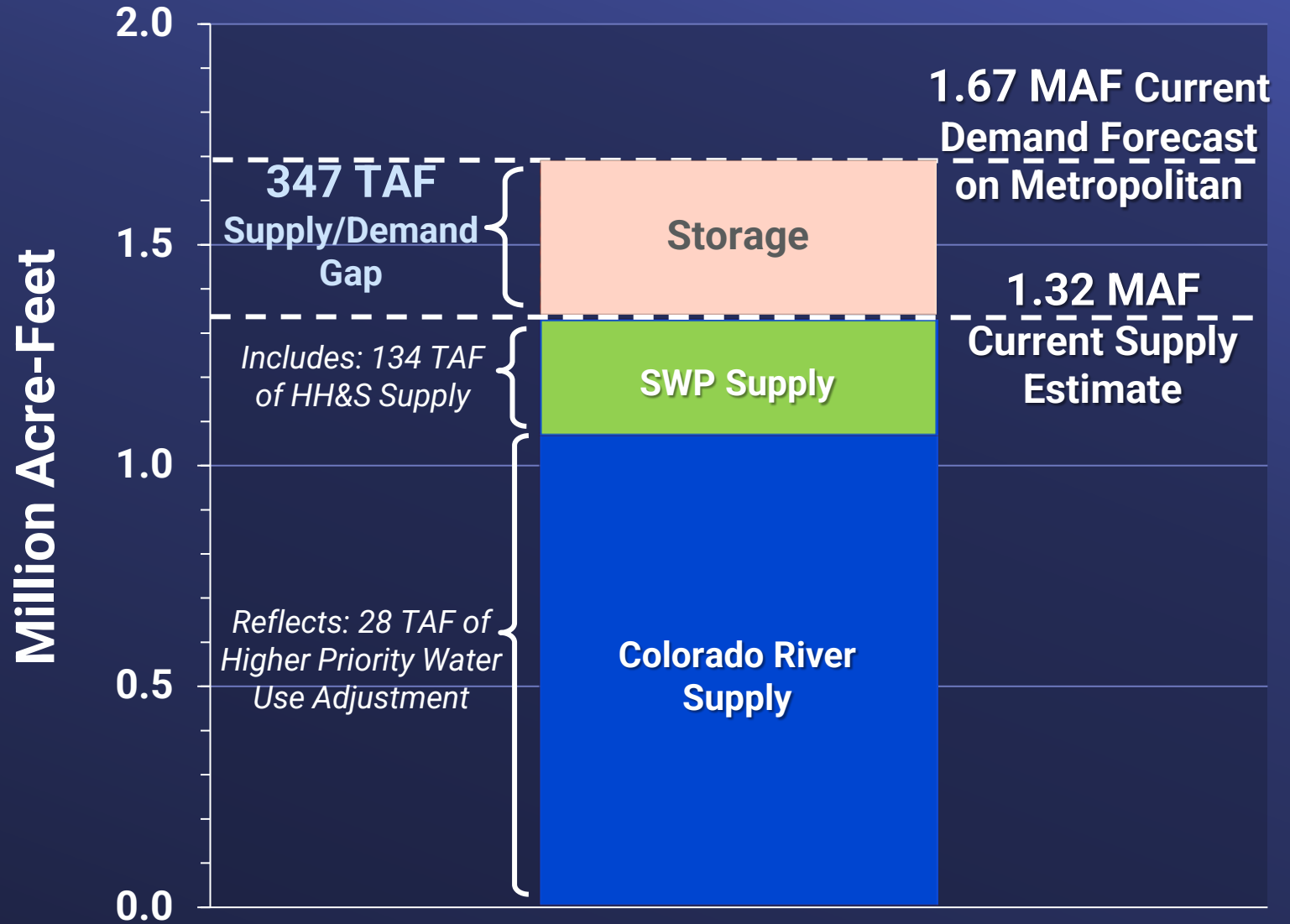
# WSDM Supply Demand Balance

## Regional View



# WSDM Supply Demand Balance

Regional View



# Emergency Water Conservation Program

## October Update

- October Path Compliance

PATH 1	PATH 2
Las Virgenes MWD Three Valleys MWD Calleguas MWD*	City of Los Angeles Inland Empire Utilities Agency Upper San Gabriel Valley MWD

*\*5 of 19 Calleguas water purveyors are Path 2*

- No penalties issued for any Path 2 member agencies thus far
- Path 1 one-day-a-week watering continues through the end of the year

# All SWP Dependent Agencies Weekly Water Use Tracking

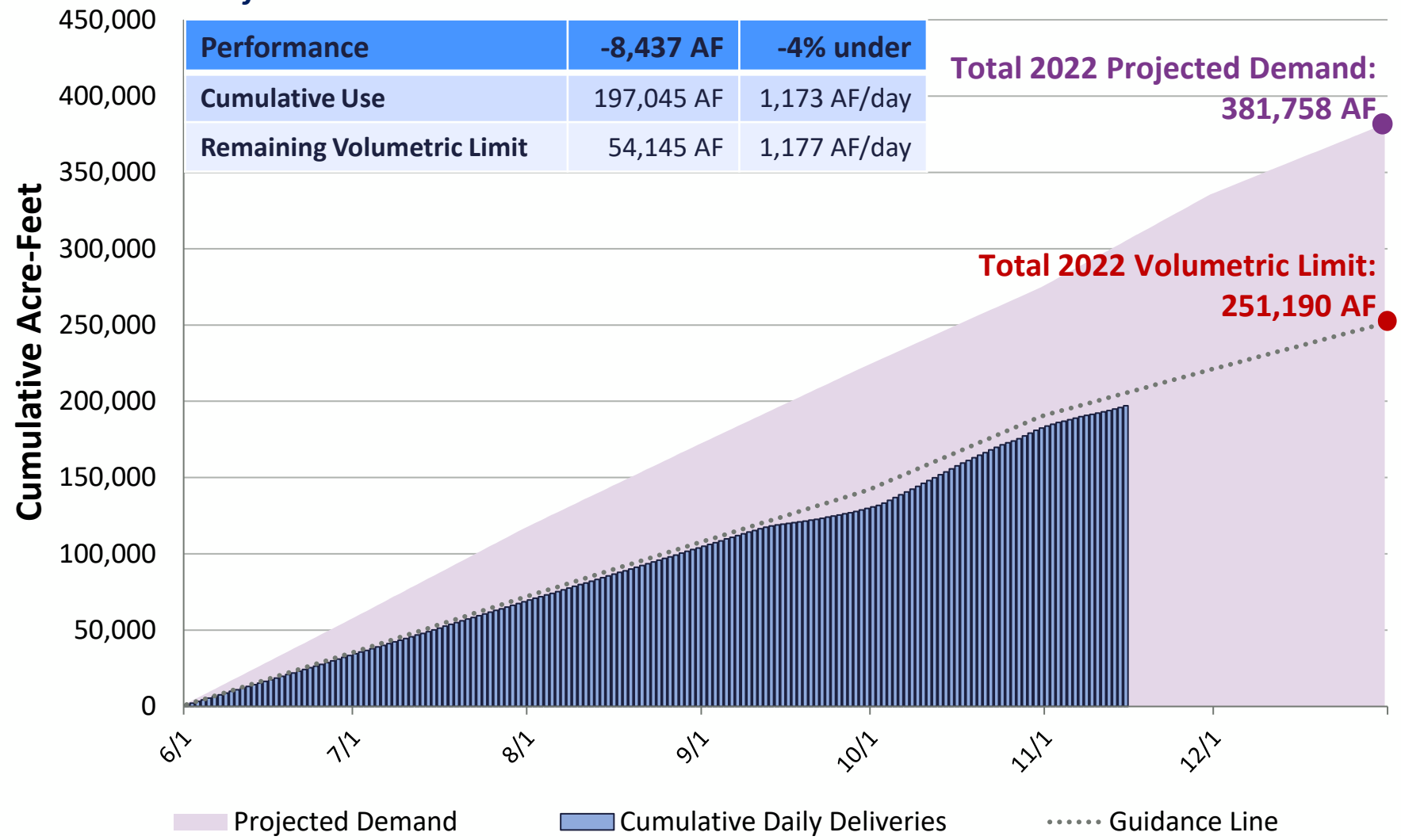
June to  
December 2022

## All SWP Dependent Agencies: June to December 2022 as of November 15

<b>Performance</b>	<b>-8,437 AF</b>	<b>-4% under</b>
Cumulative Use	197,045 AF	1,173 AF/day
Remaining Volumetric Limit	54,145 AF	1,177 AF/day

**Total 2022 Projected Demand:**  
381,758 AF

**Total 2022 Volumetric Limit:**  
251,190 AF

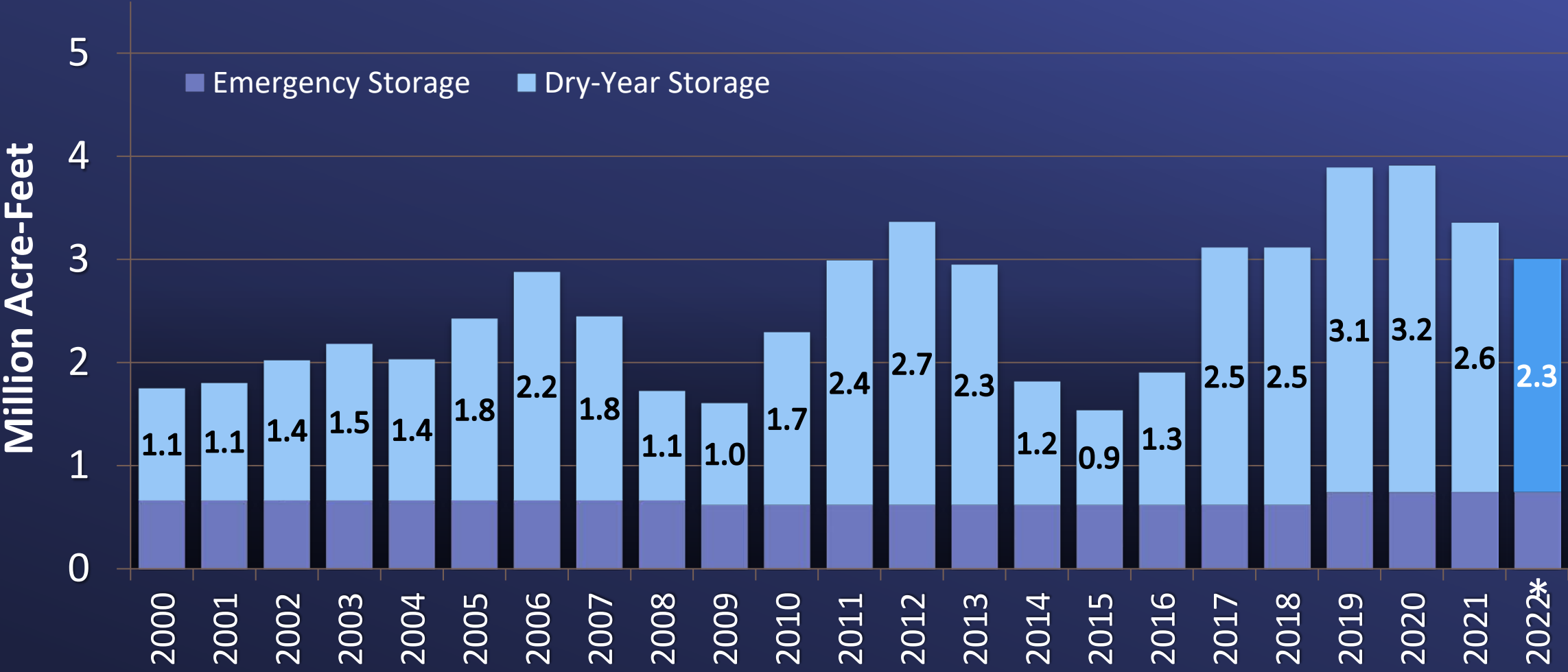


\*Demand projection as of April 26, 2022

# Outlook and Planning for 2023 and Beyond

# 2022 Storage Projected to be 2.3 MAF

## End of Year Balances

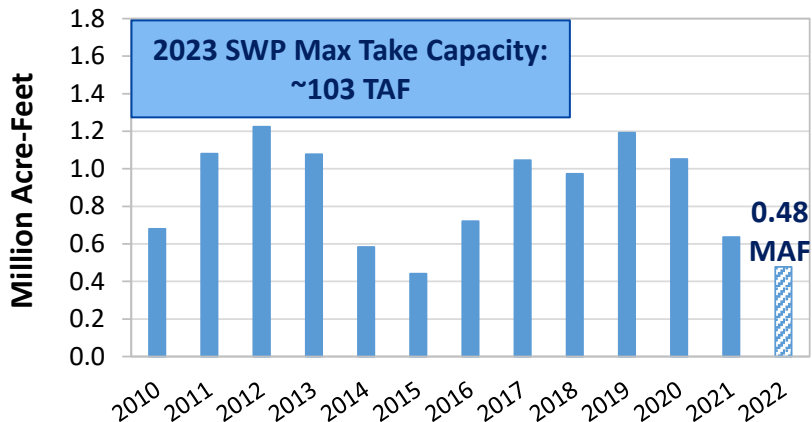


\* Estimate – May change based on supply/demand conditions

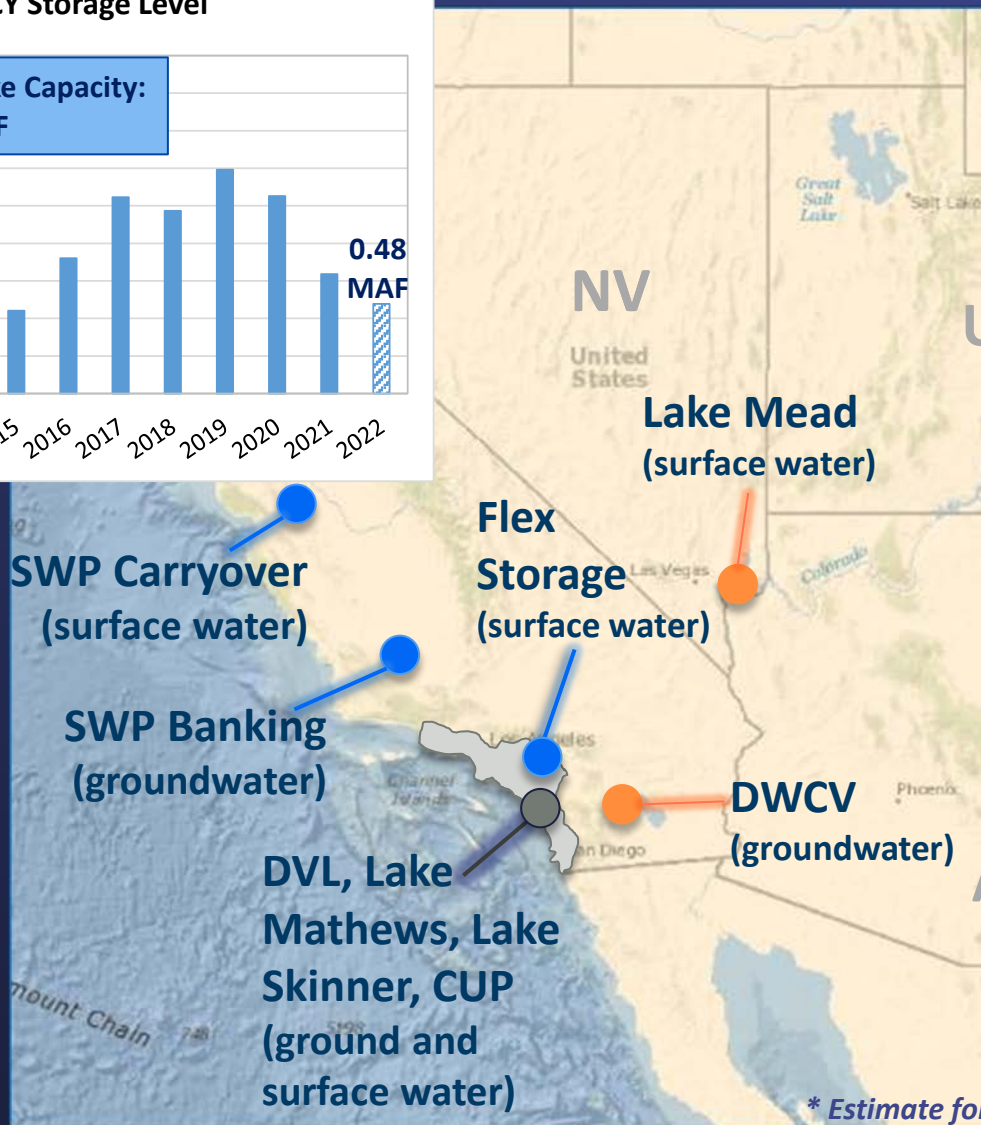
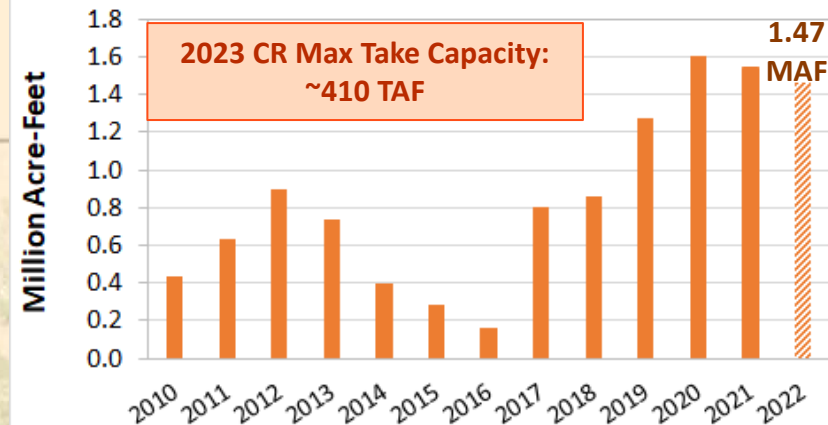


# End of Year Storage by Region

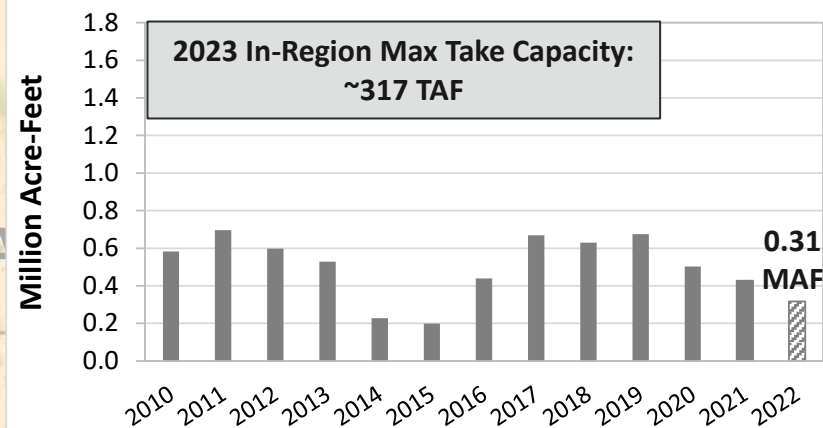
SWP End-of-CY Storage Level



CR End-of-CY Storage Level



In-Region End-of-CY Storage Level



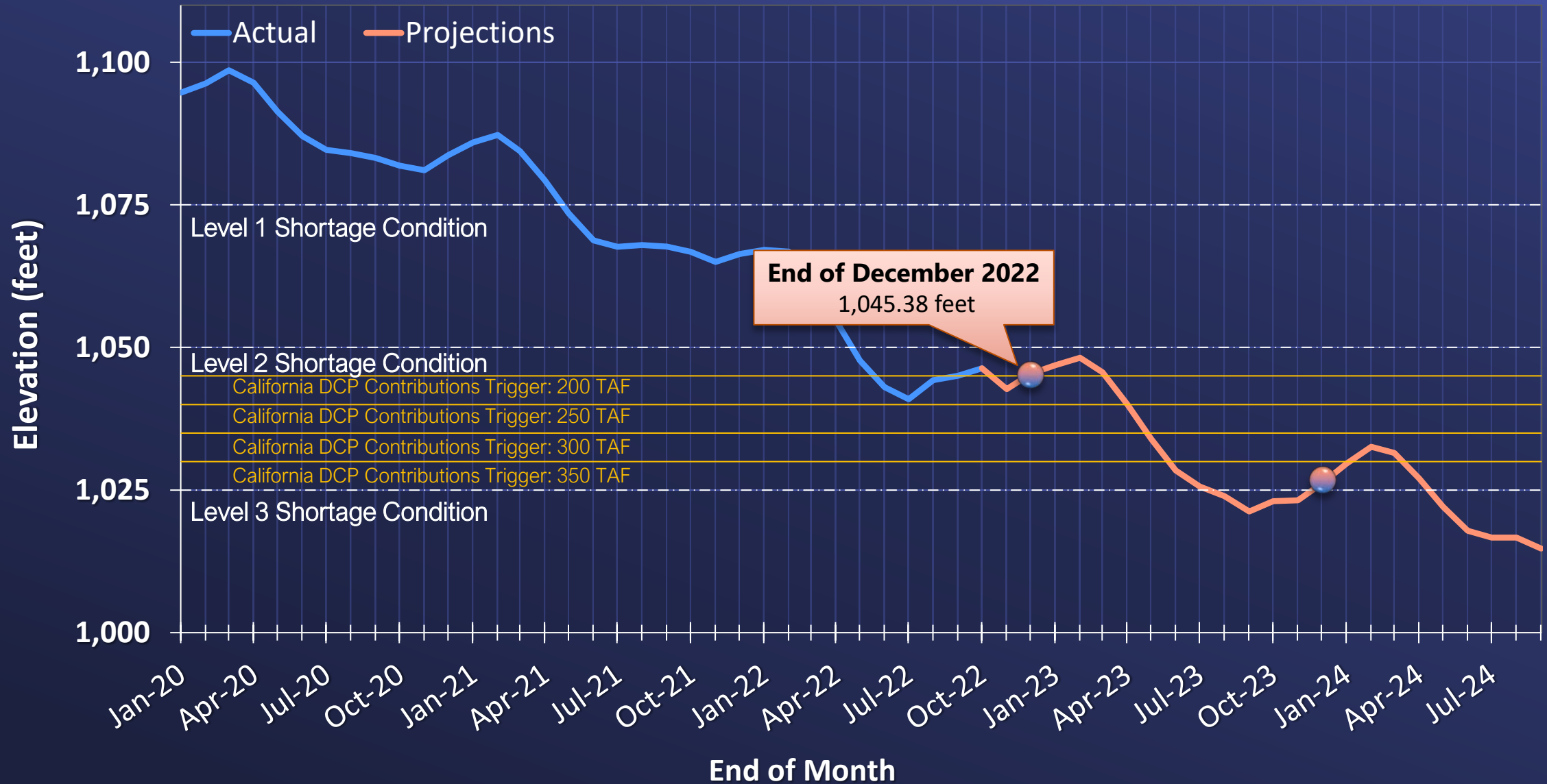
\* Estimate for 2022. Does not include emergency storage.

# Planning for 2023

## Supply Outlook: State Water Project

- Five Percent initial State Water Project Table A allocation plus Human Health and Safety Allocation
- Limited Metropolitan SWP storage
  - Depleted flexible storage
  - Low SWP carryover storage
- Continued acute shortage of water supply to meet demands in the SWP Dependent Area

# Potential DCP Contributions on the horizon



# Planning for 2023

## Supply Outlook: Colorado River

- Metropolitan will access ICS to meet future DCP contributions; additional use of ICS to meet service area demand remains uncertain
- Metropolitan is not planning for a full Colorado River Aqueduct for 2023
- California has submitted a proposal to reduce Colorado River use by 400 TAF each year, beginning 2023 through 2026
- USBR evaluating options for delivery reductions for California, Arizona, and Nevada next year

# Planning for 2023

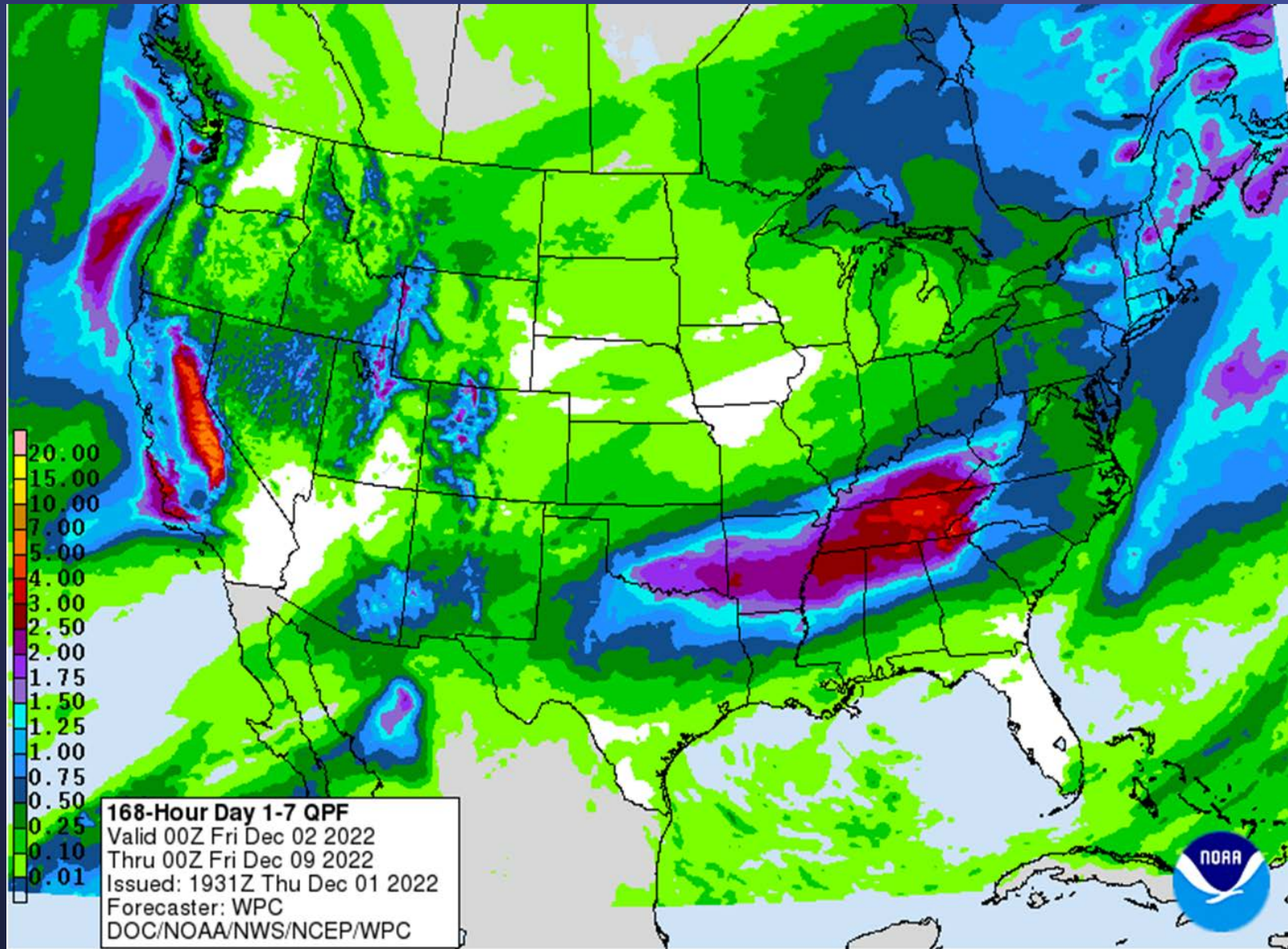
Key  
Takeaways:  
EWCP

- EWCP will continue in January 2023
- Continuing discussions with Member Agencies on EWCP supply allocation methodology for 2023
- New volumetric limits and potential compliance mechanisms to be finalized in December 2022

# Planning for 2023

## Key Takeaways: Regionwide Conservation

- Agencies should consider preparing their governing bodies and communities for mandatory restrictions
- Agencies should implement enhanced voluntary conservation measures immediately to reduce water use in anticipation of mandatory 2023 WSAP
- Effective and timely voluntary conservation will mitigate the region's need for deeper mandatory cuts
- Mandatory measures will likely be needed with SWP allocations less than ~70%



## 7-Day Precipitation Outlook

Two major  
storm systems  
moving through  
the West

# Planning for 2023 and Beyond

## Key Initiatives

- Colorado River
  - USBR funded conservation
  - Drought Contingency Plan
- SWP
  - Water banking and transfers
  - Delta Conveyance and Sites Reservoir
- MWD Service Area
  - Enhanced Conservation
  - SWP Dependent Area Drought Solutions
  - Local Partnerships – Chino Basin Program
  - Pure Water Southern California

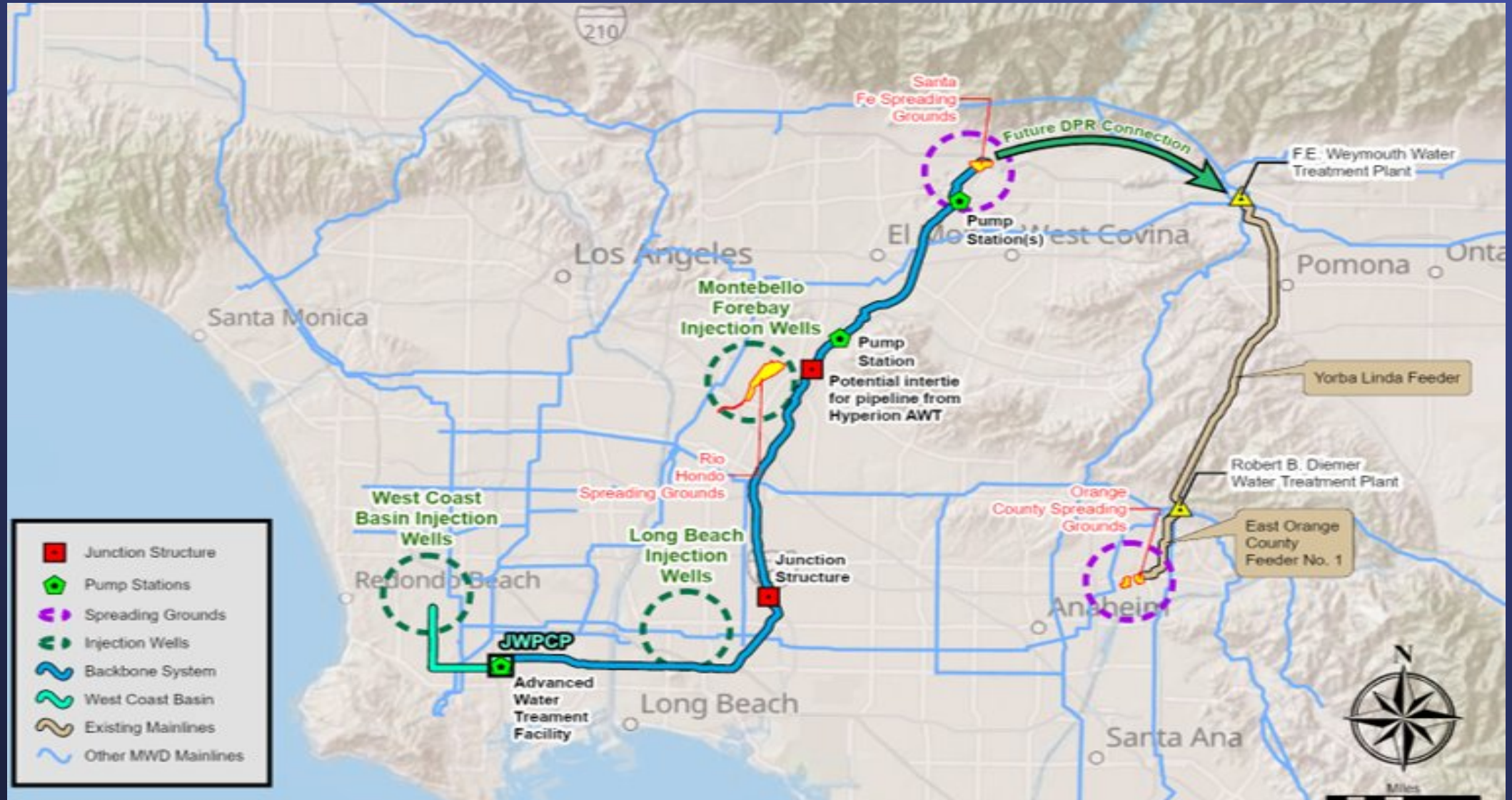


Pure Water  
Southern  
California

A New Drought-  
Proof Water Source



# Pure Water Southern California







# Questions

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# Inland Empire Utilities Agency

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SHIVAJI DESHMUKH

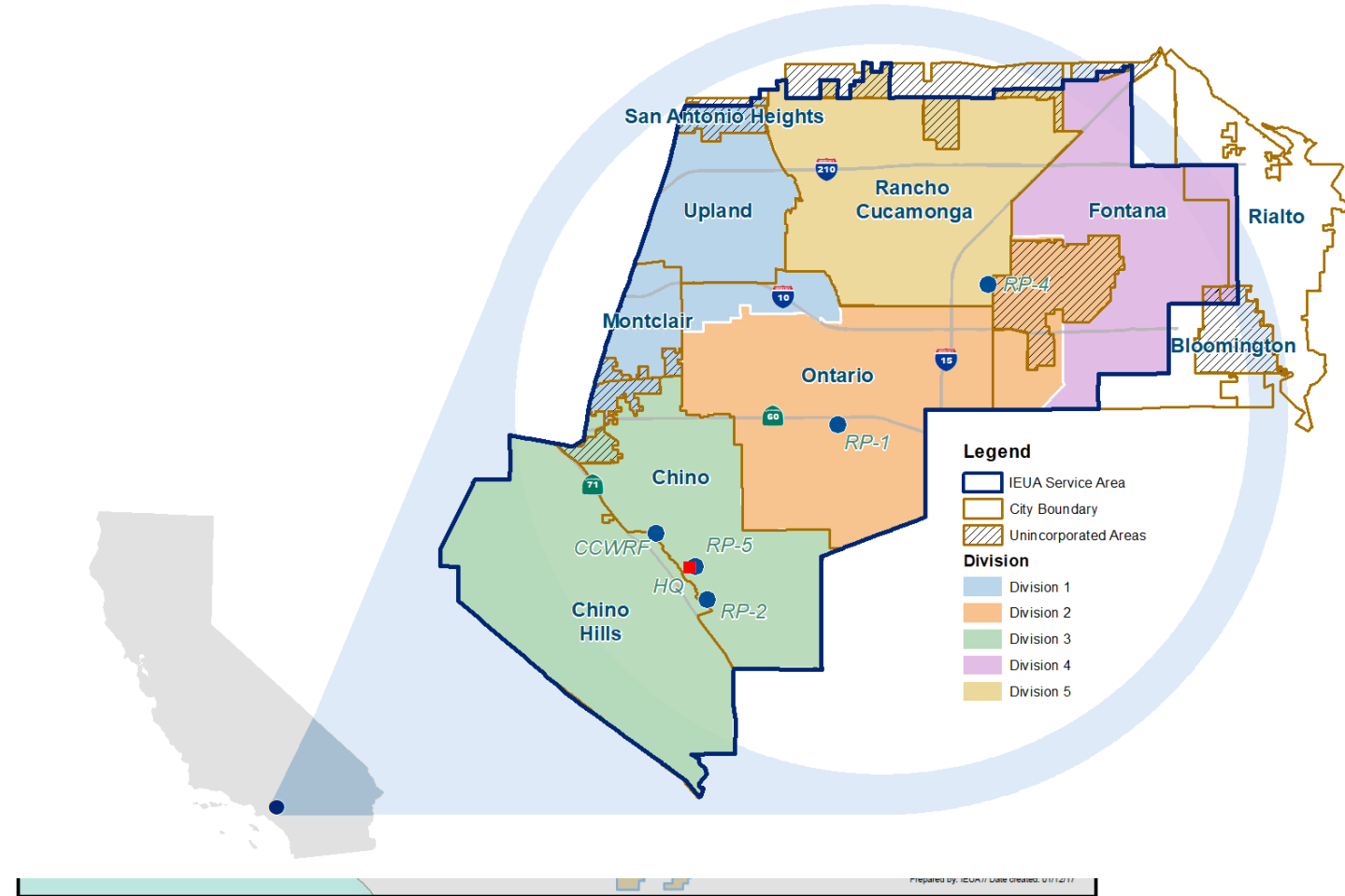




# Inland Empire Utilities Agency Overview

# Who is the Inland Empire Utilities Agency (IEUA)

- Located in the southwestern portion of San Bernardino County
- 875,000 residents in our service area
- 242 – square miles
- Contracting and retail agencies:
  - City of Chino
  - City of Chino Hills
  - Cucamonga Valley Water District
  - City of Fontana
  - City of Montclair
  - City of Ontario
  - City of Upland
  - Fontana Water Company
  - Monte Vista Water District



# Board of Directors



**Steven J. Elie**

President

Division 3



**Michael Camacho**

Vice President

Division 5



**Marco Tule**

Secretary/Treasurer

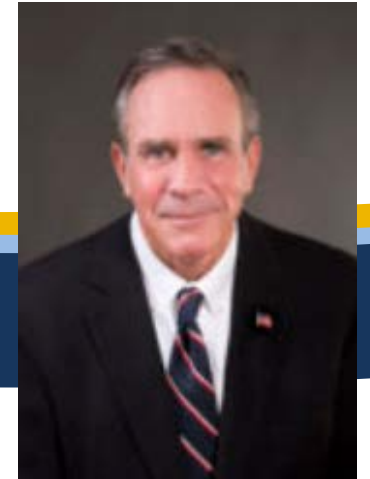
Division 1



**Jasmin A. Hall**

Director

Division 4



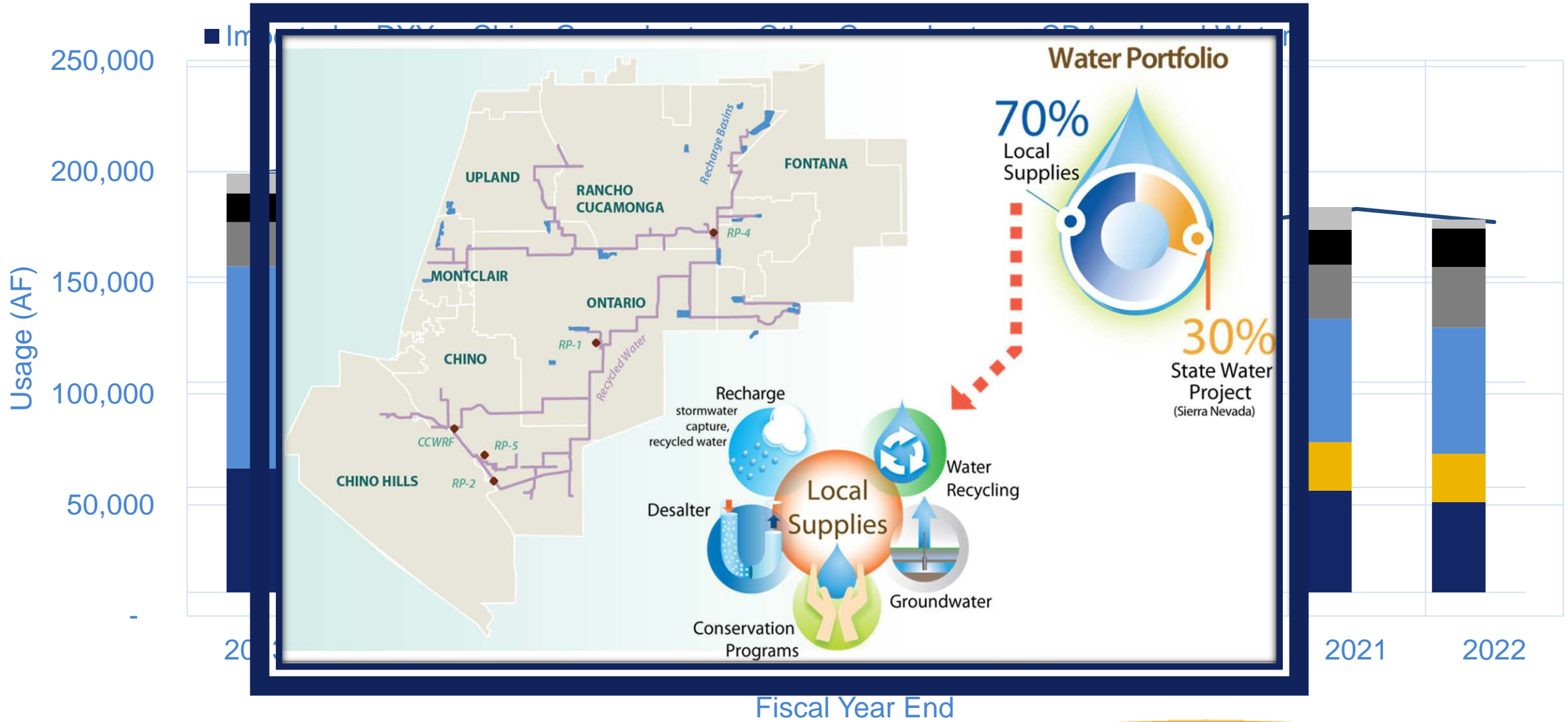
**Paul Hofer**

Director

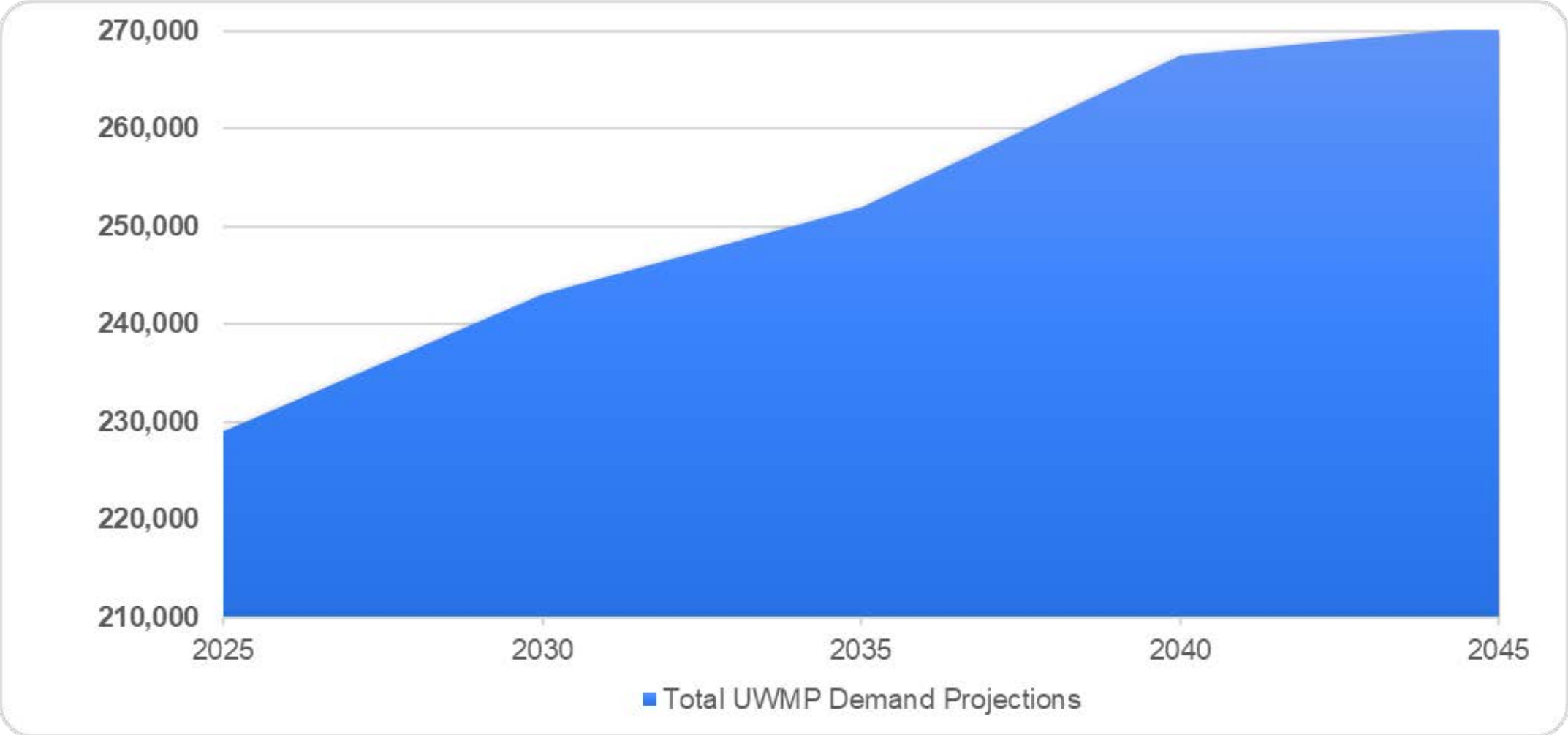
Division 2



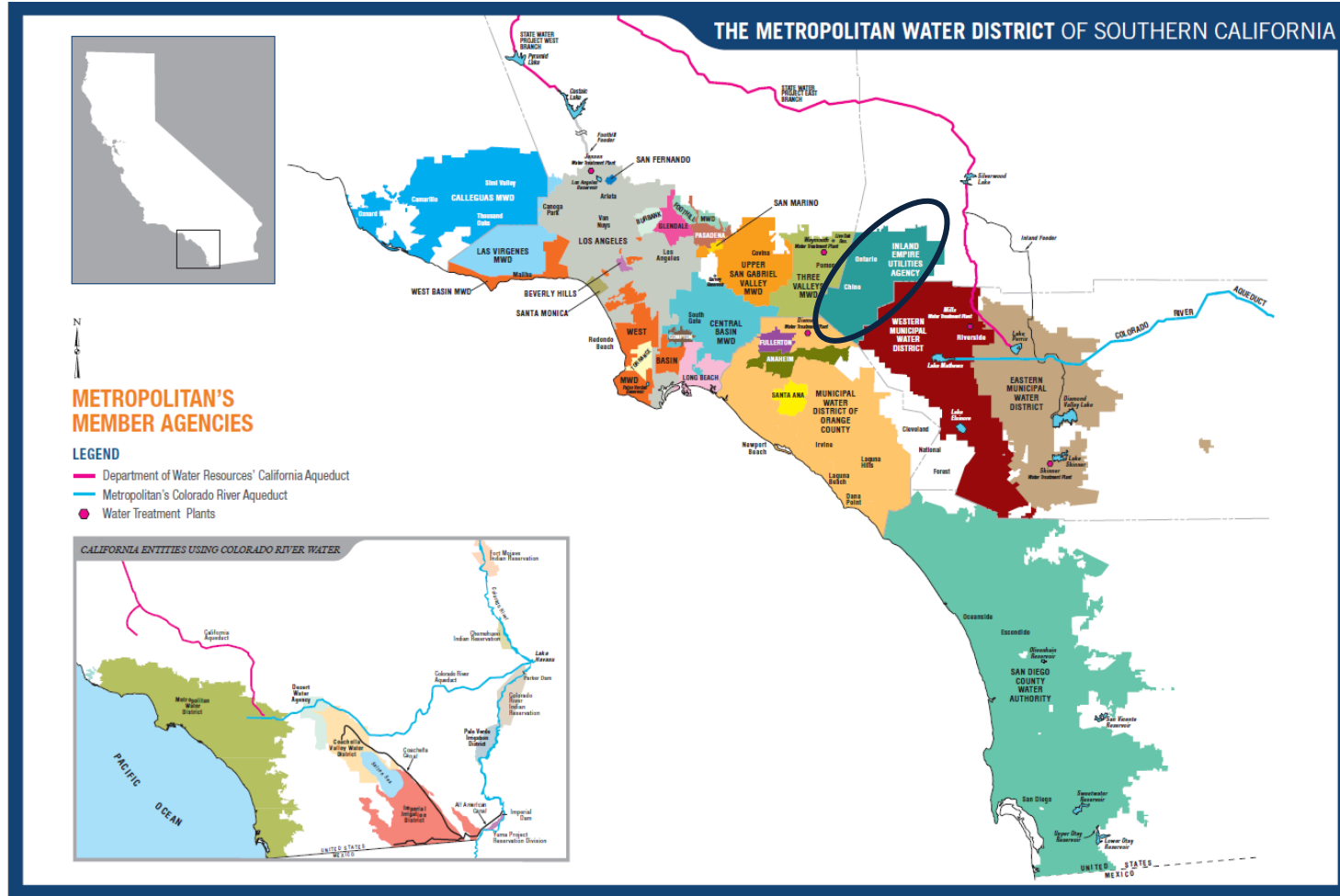
# IEUA's diverse and flexible supplies portfolio



# Total 2020 UWMP Retail Demands



# Collaboration as a MWD Member Agency in the Region



- Metropolitan operates and maintains a vast storage and distribution system that allows them to distribute water imported from hundreds of miles away to their 26 member agencies
- Supplies 40 percent of California's water resources
- Helping the region meet the challenges of climate change and extended drought
  - Offers water-saving tips, classes, and rebates for water-saving devices and sustainable landscaping Southern Californians



# Drought in the Inland Region

# MWD's Emergency Water Conservation Plan (EWCP)

## State Water Project Dependent Agencies Only



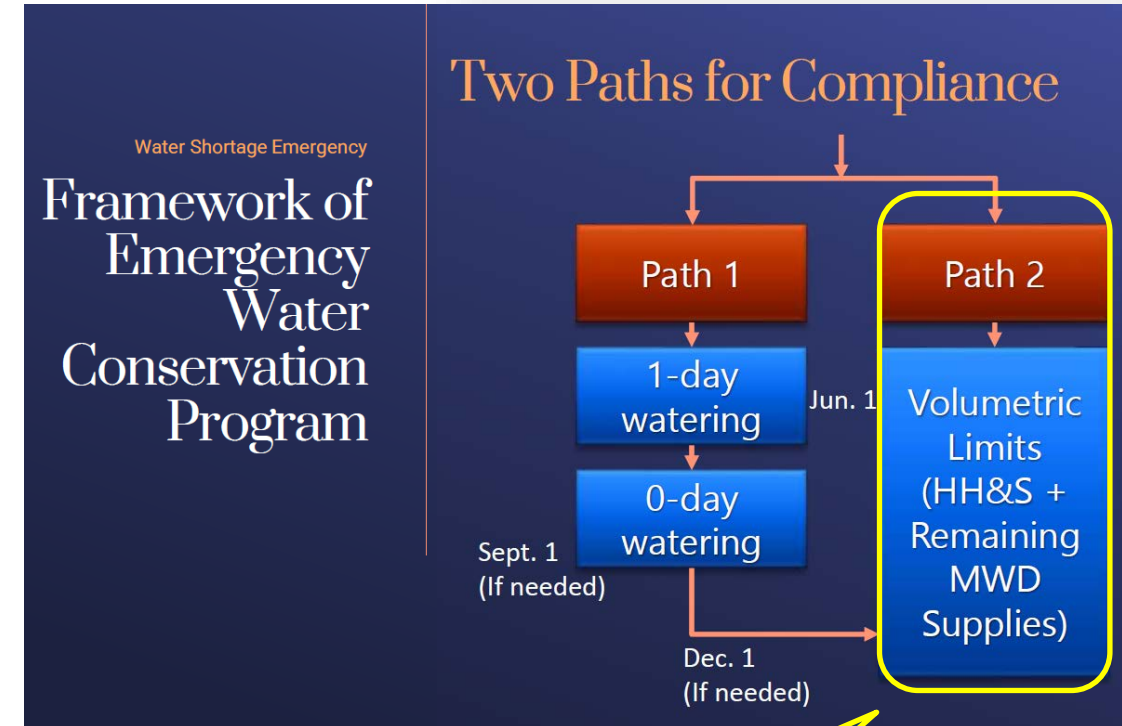
# IEUA's Regional Response and Strategy to the Water Shortage Emergency

## IEUA-Customer Agency collaboration:

- ✓ Drought Response Task Force coordination
- ✓ Advocacy for extraordinary conservation programs
- ✓ Advocacy for long-term local and regional solutions

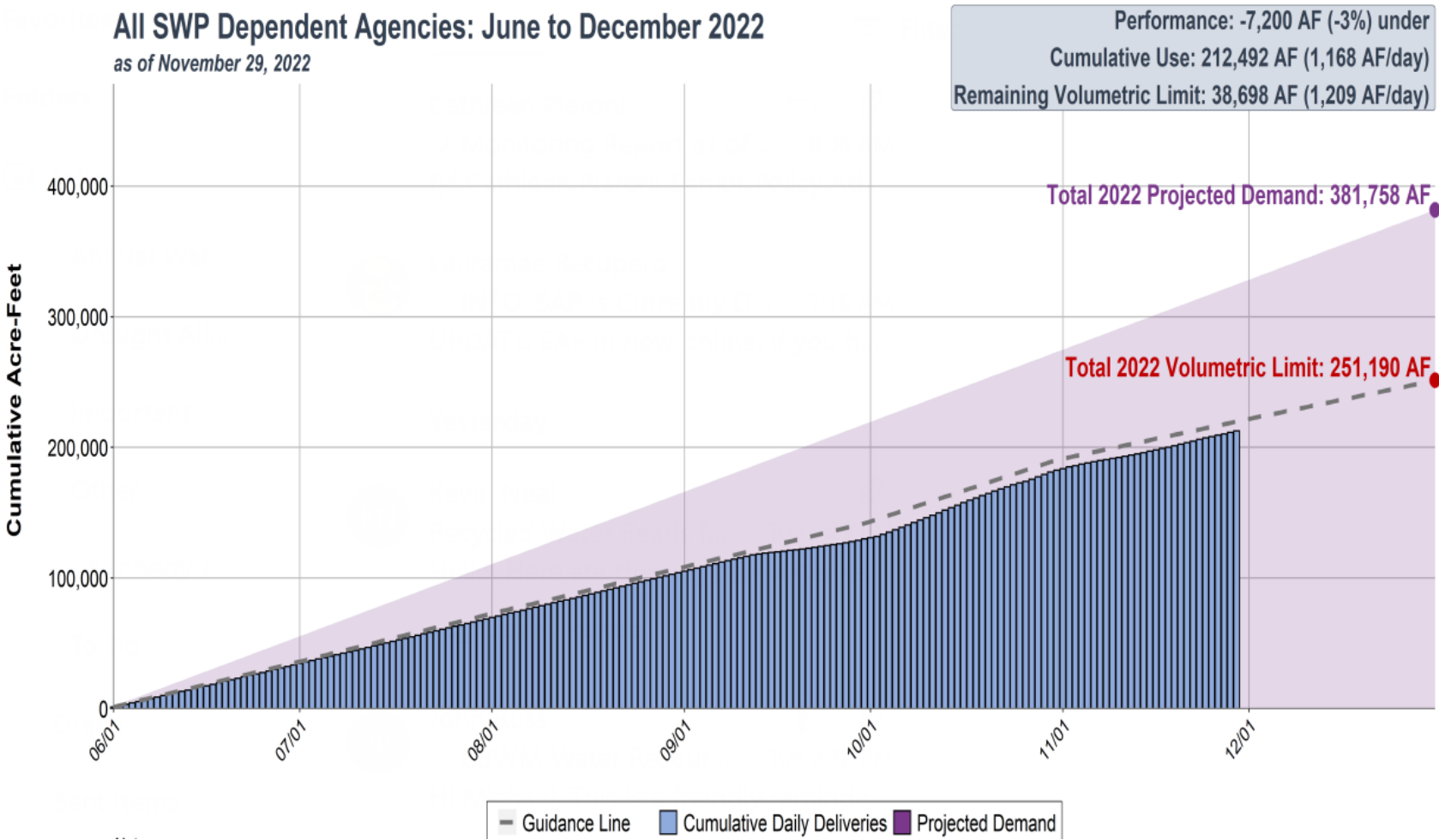
## IEUA's EWCP Framework:

- ✓ Leverages Water Shortage Contingency Plan
- ✓ Imported water (IW) supply monthly allocation
- ✓ Monitoring and tracking
- ✓ Compliance with MWD's Emergency Water Conservation Program



*IEUA & Retail Agencies' Approach*

# Current Drought Conditions Across IEUA and Across SWP Dependent Agencies



# Board Items and Drought Initiatives in Response to 2023 Conditions



## Resolution & Model Ordinance

- MWD Adopted in October
- Encourages Reduction and Elimination of NF Turf Irrigation
- Model Ordinance attached for use by Local Jurisdictions



## Sign MOU with CR Basin Agencies

- Join MWD and other Member Agencies Supporting WUE Principles
- Commits to Reducing NF Turf by 30%



## Grant Funding Application

- Apply for grant funding for a new Regional Turnkey Turf Transformation Project
- Focus on Highly Visible Sites for Multiplier Effect





# Chino Basin Program

# What is the Chino Basin Program?

The Chino Basin Program (CBP) adds infrastructure so we can treat and store water locally:

- CBP builds Advanced Water Purification Facilities to treat recycled water, providing access to currently untapped supply
- CBP builds injection and extraction wells to store and retrieve the treated water
- CBP builds a distribution system to convey the treated water

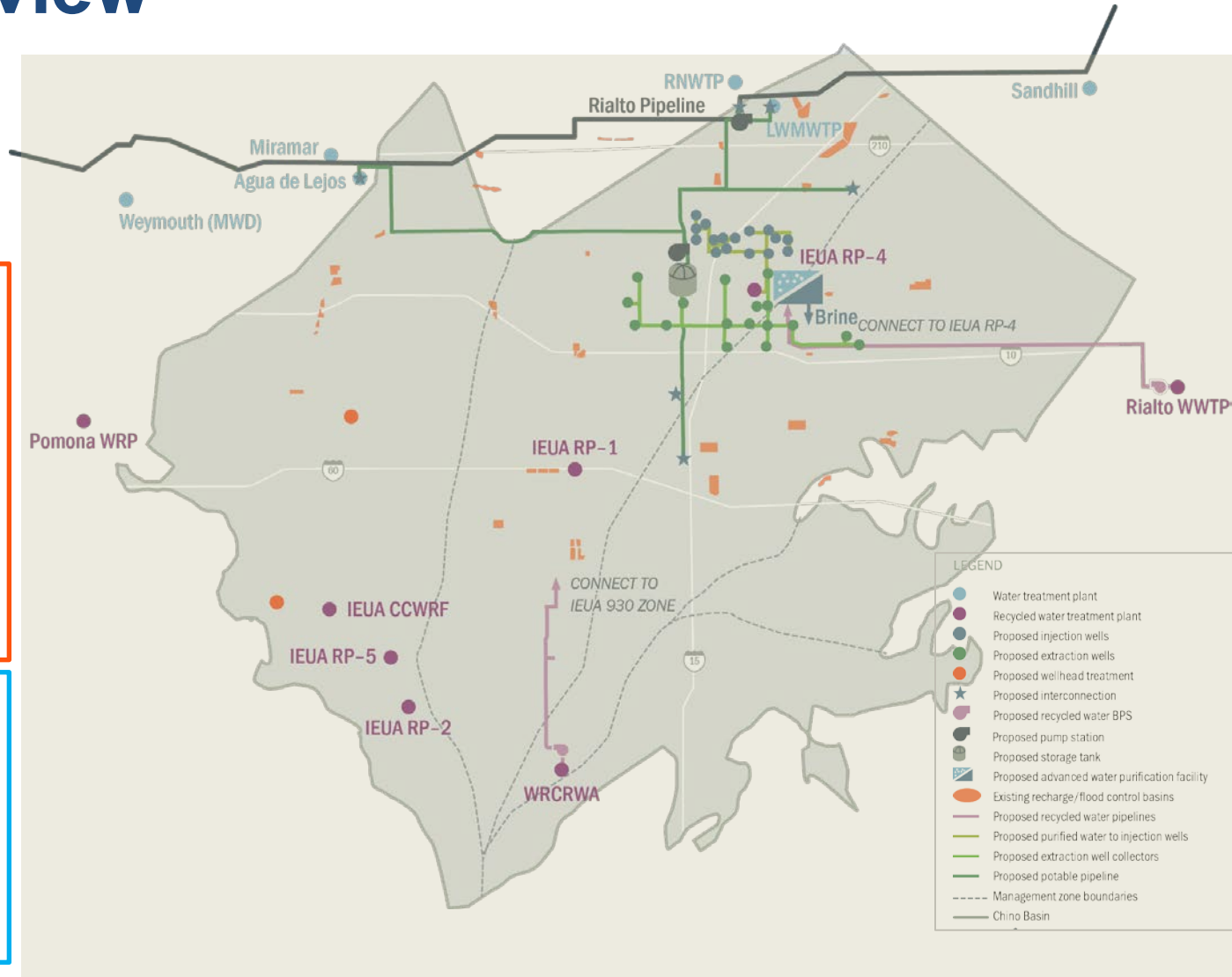


# CBP– Local Facilities Overview

## Facilities:

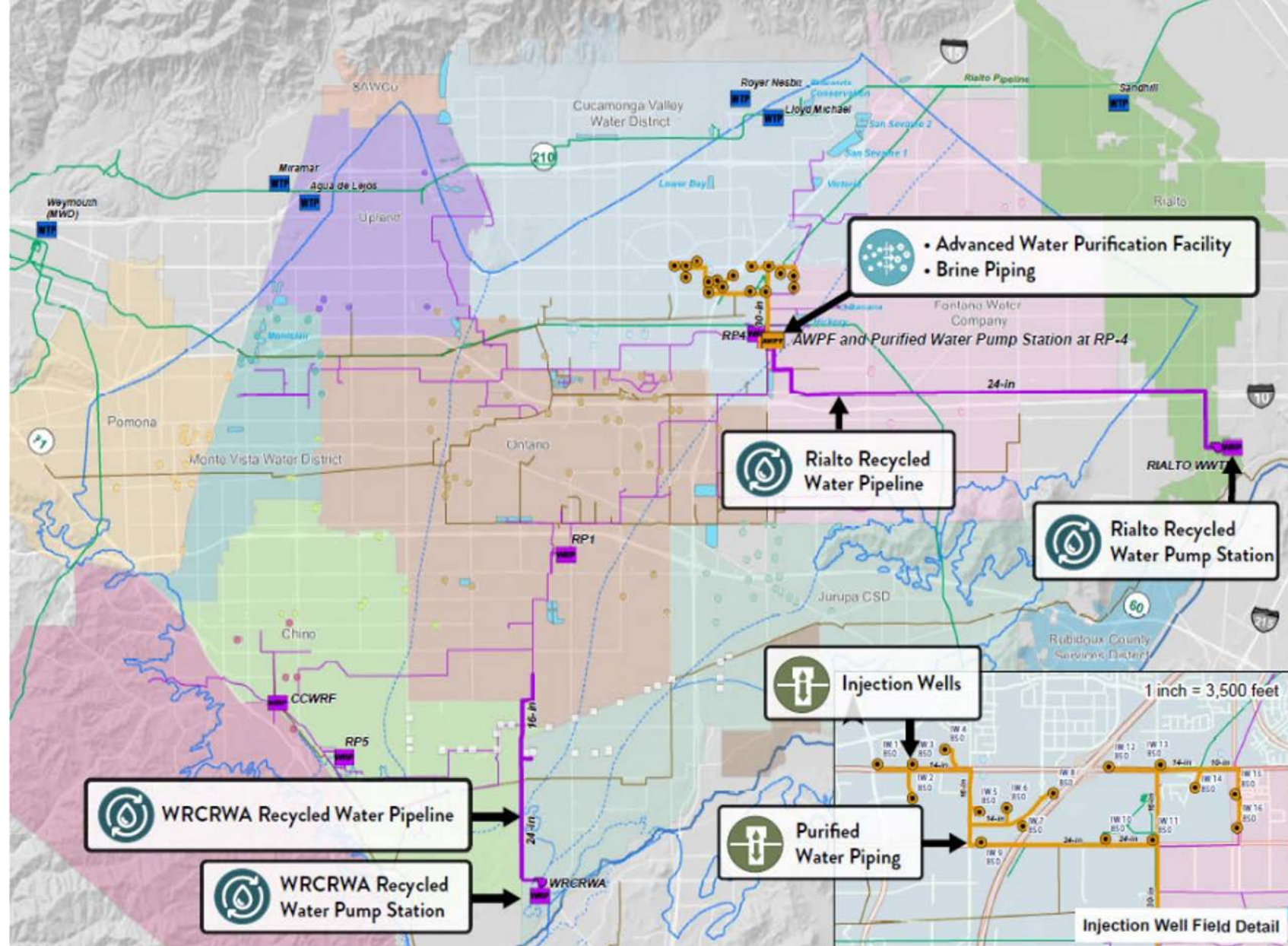
- 15,000 AF/year AWPf at RP-4
- Advanced treated recycled water pipeline
- 15,000 AF/year Injection wells
- 6,000 AF/year external water supply sources

- 40,000 AF/year Extraction wells
- Potable water pipelines & Reservoir
- Interconnection to Metropolitan's Rialto Pipeline



# PUT – Infrastructure

\$392,000,000 (2019)



# Take – Infrastructure

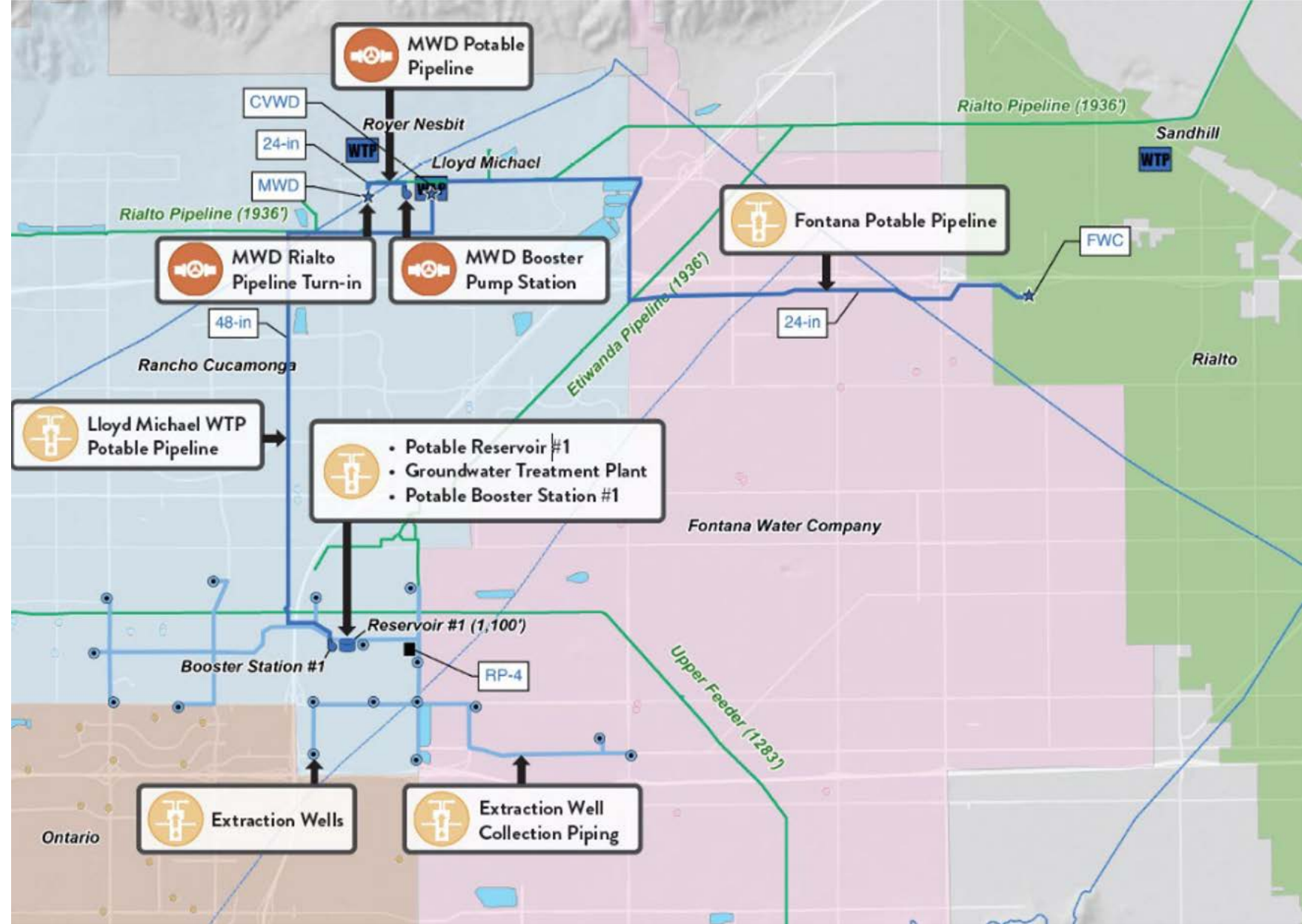
\$270,000,000 (2019)



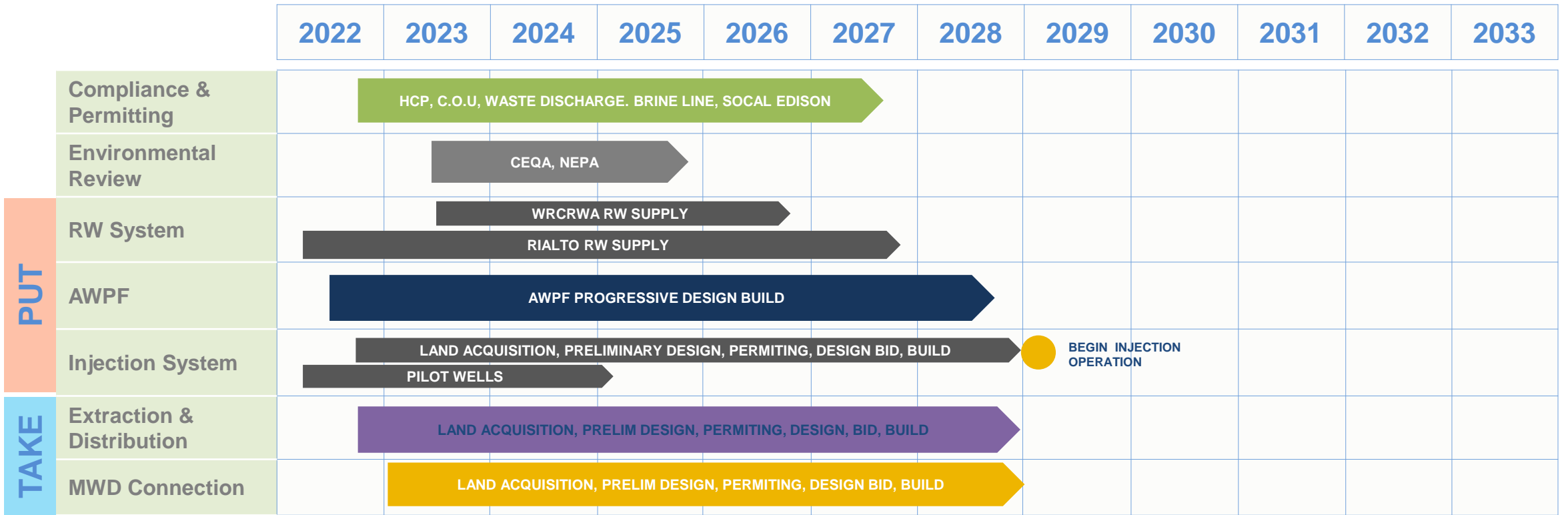
Extraction & Regional Distribution



MWD Connection



# Schedule Overview by Project Component





# Questions

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# Break

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# Three Valleys Municipal Water District

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MATTHEW LITCHFIELD




# WATER RESOURCES



# NOW + PLAN FORWARD

December 2022





Our mission is to supplement and enhance local water supplies to meet our region's needs in a reliable and cost-effective manner

## Three Valleys Municipal Water District

Pomona, Walnut, East San Gabriel Valley

133 square miles | 525,000 population



# BOARD OF DIRECTORS



**CARLOS GOYTIA**

Division 1  
Secretary



**DAVID DE JESUS**

Division 2



**JEFFREY HANLON**

Division 3



**BOB KUHN**

Division 4



**JODY ROBERTO**

Division 5  
President



**DANIELLE SOTO**

Division 6

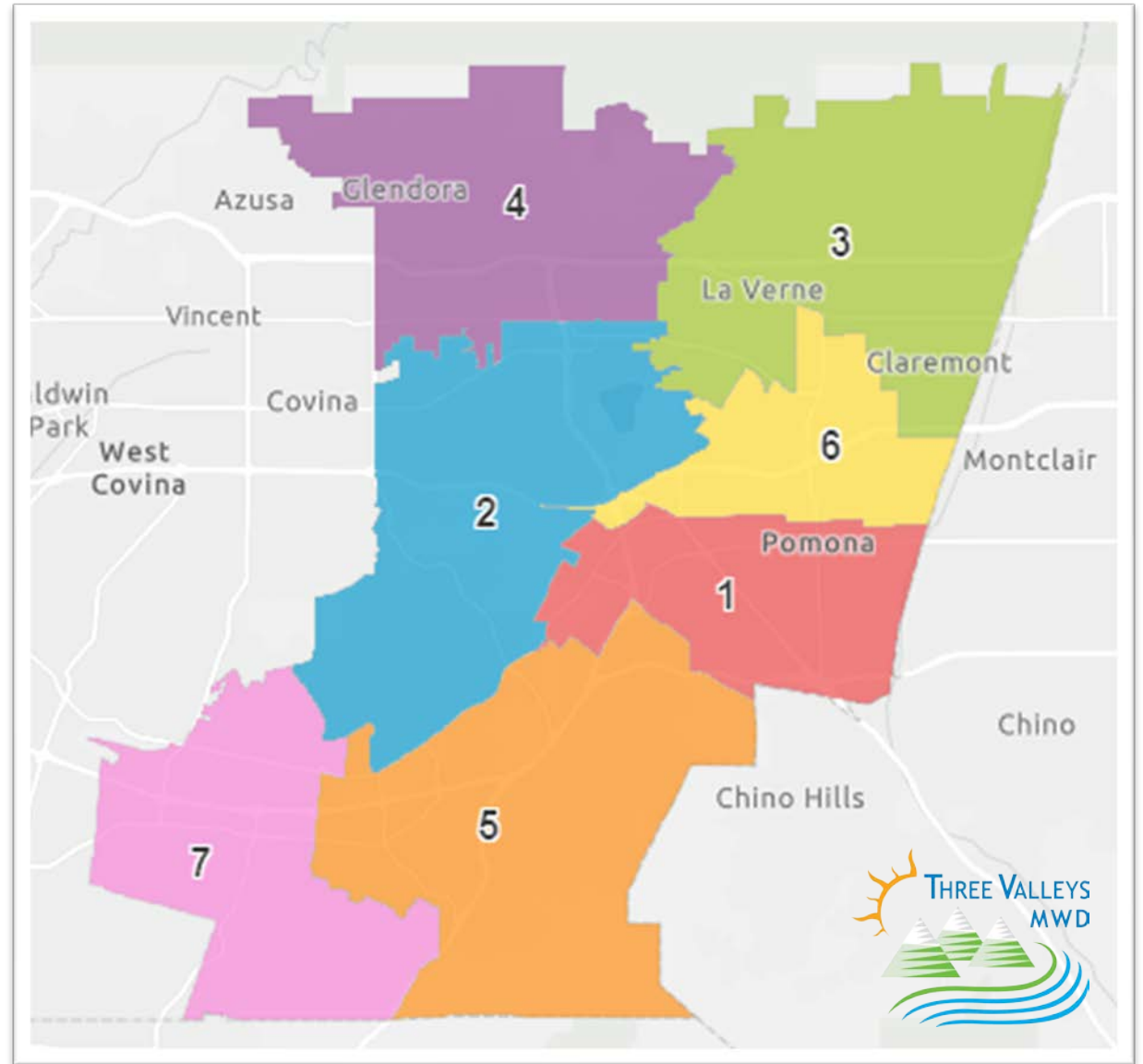


**MIKE TI**

Division 7  
Treasurer

## TVMWD Member Agencies

- City of Covina
- City of Glendora
- City of La Verne
- City of Pomona
- Rowland Water District
- Walnut Valley Water District
- Golden State Water Claremont + San Dimas
- Suburban Water Systems
- Valencia Heights Water Company
- Boy Scouts of America - Firestone Reservation
- Ca. State Polytechnic University, Pomona
- Mt. San Antonio College

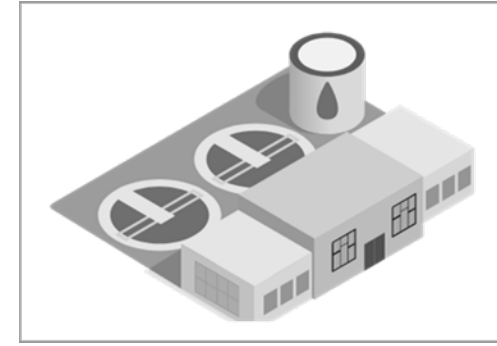


# 1950 - 2010 TVMWD WATER SUPPLY PORTFOLIO



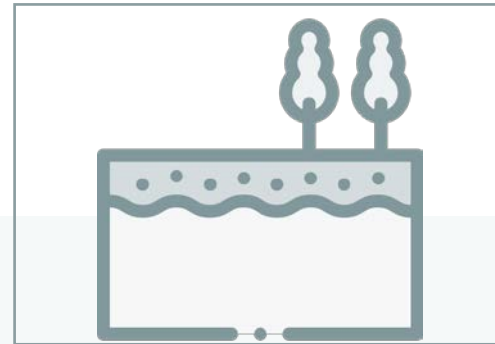
## RAW WATER

SWP | Rialto Pipeline



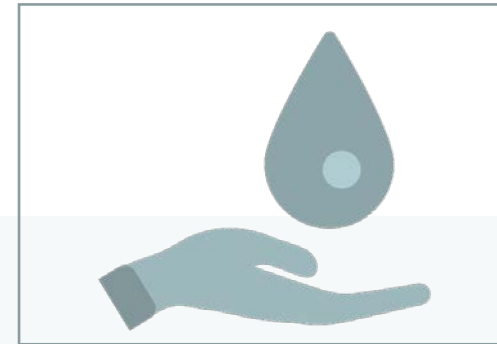
## TREATED WATER

SWP + CRA | Weymouth



## STORAGE

Main Basin, Six  
Basins, Chino Basin



## CONSERVATION

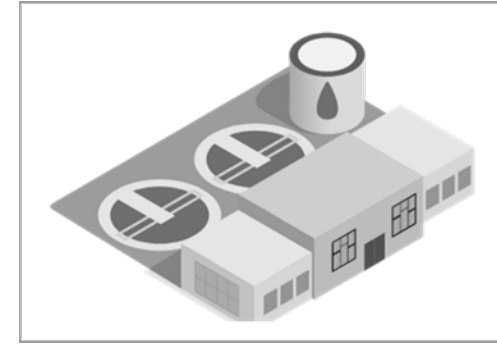
SWP + CRA | Weymouth

# 2022 TVMWD WATER SUPPLY PORTFOLIO



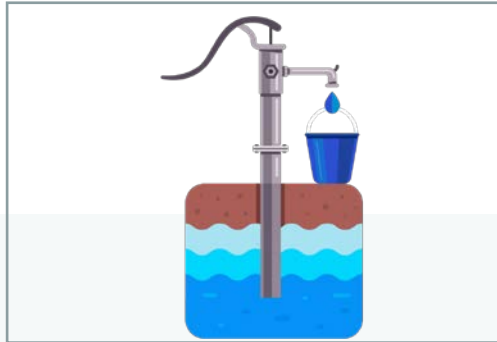
RAW WATER

SWP | Rialto Pipeline



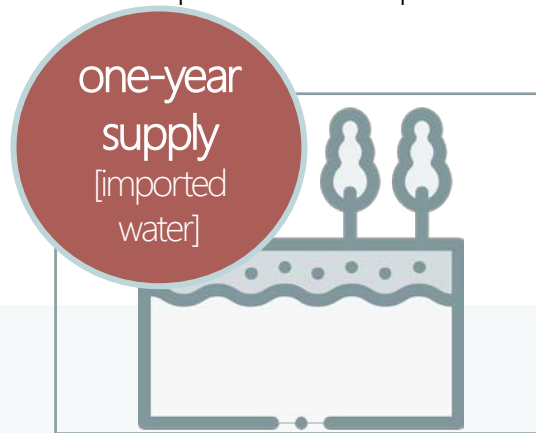
TREATED WATER

SWP + CRA | Weymouth



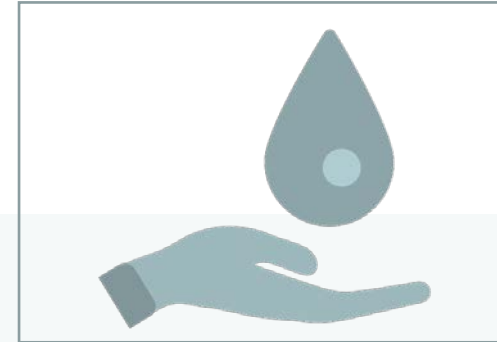
GROUNDWATER

Six Basins



STORAGE

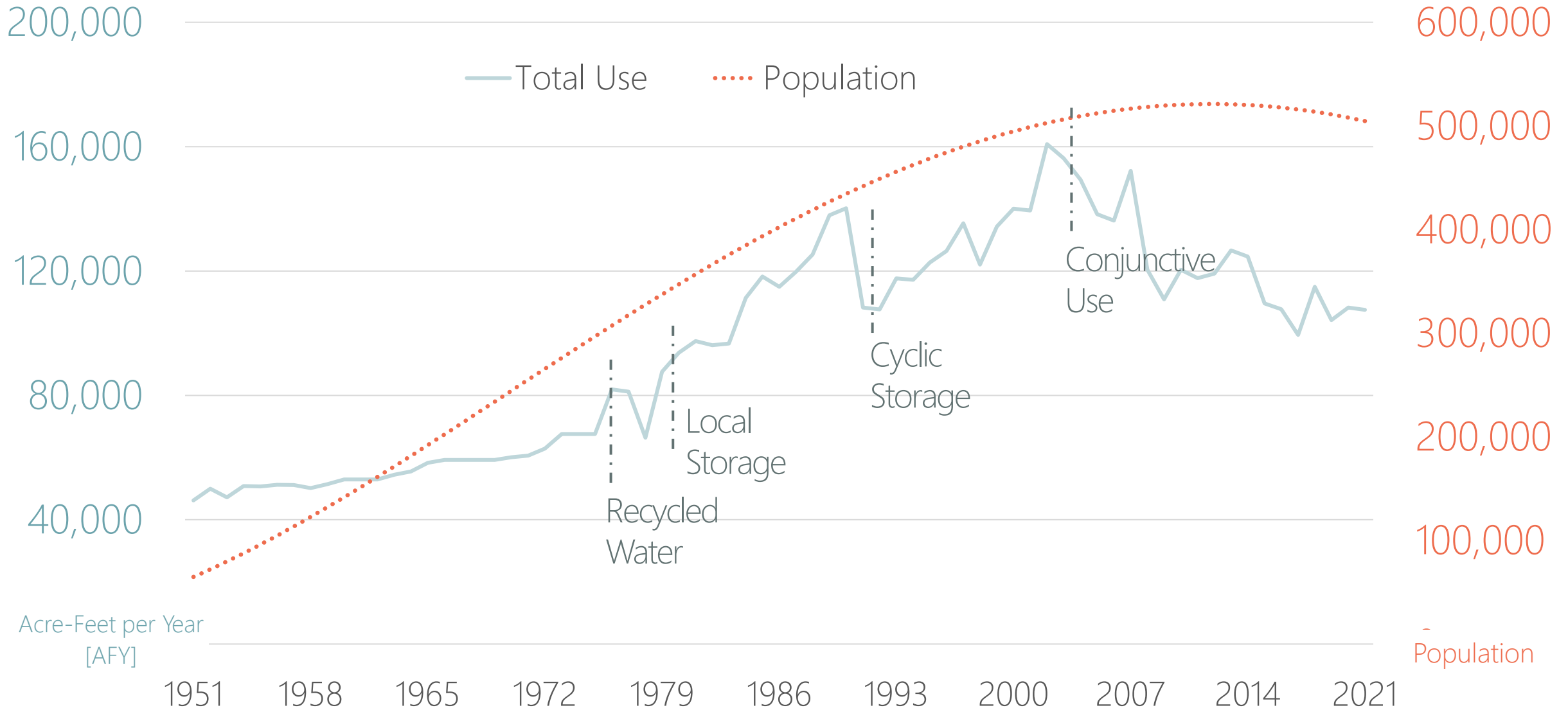
Main Basin, Six Basins, Chino Basin



CONSERVATION

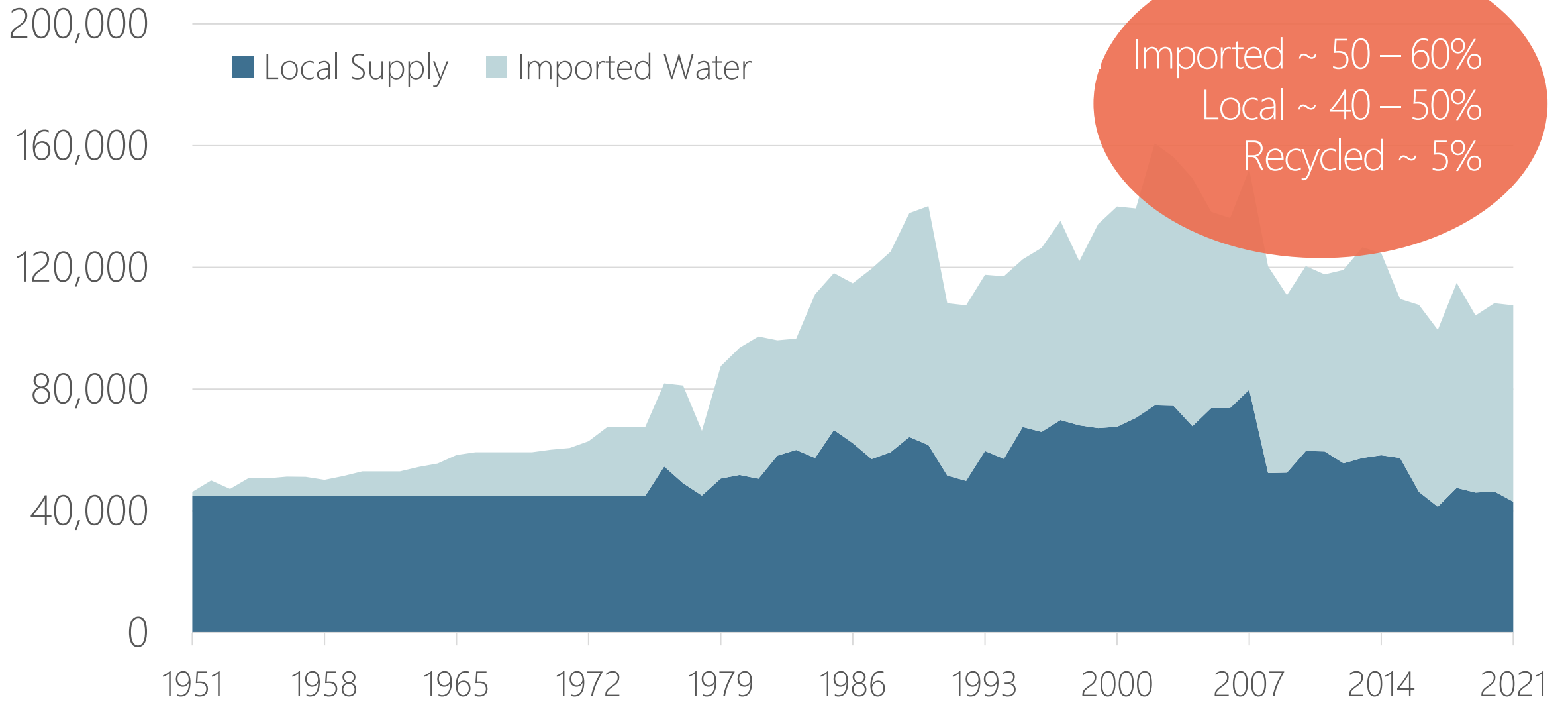
SWP + CRA | Weymouth

# TVMWD SERVICE AREA WATER USE

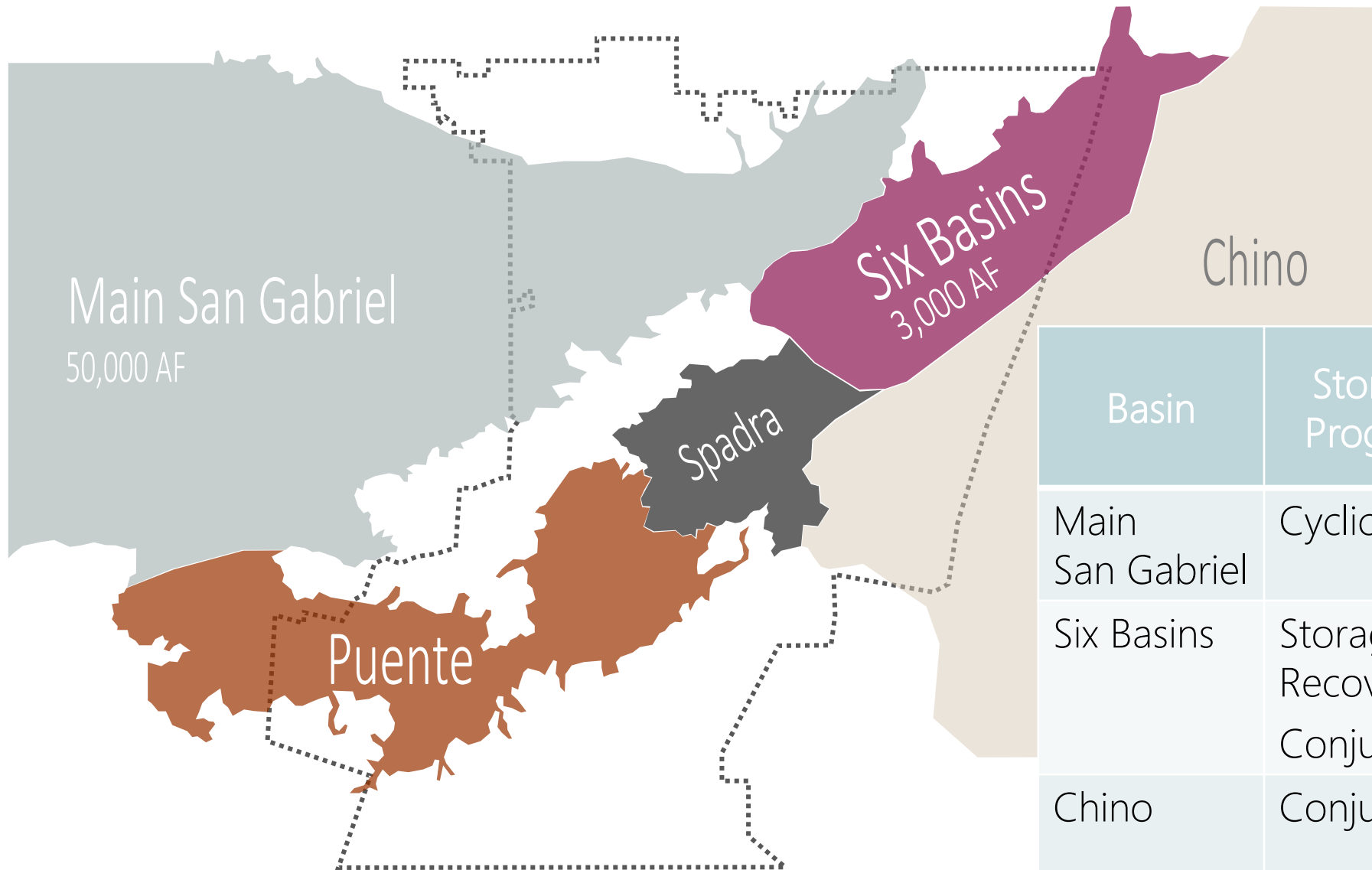




# THREE VALLEYS SUPPLY PORTFOLIO

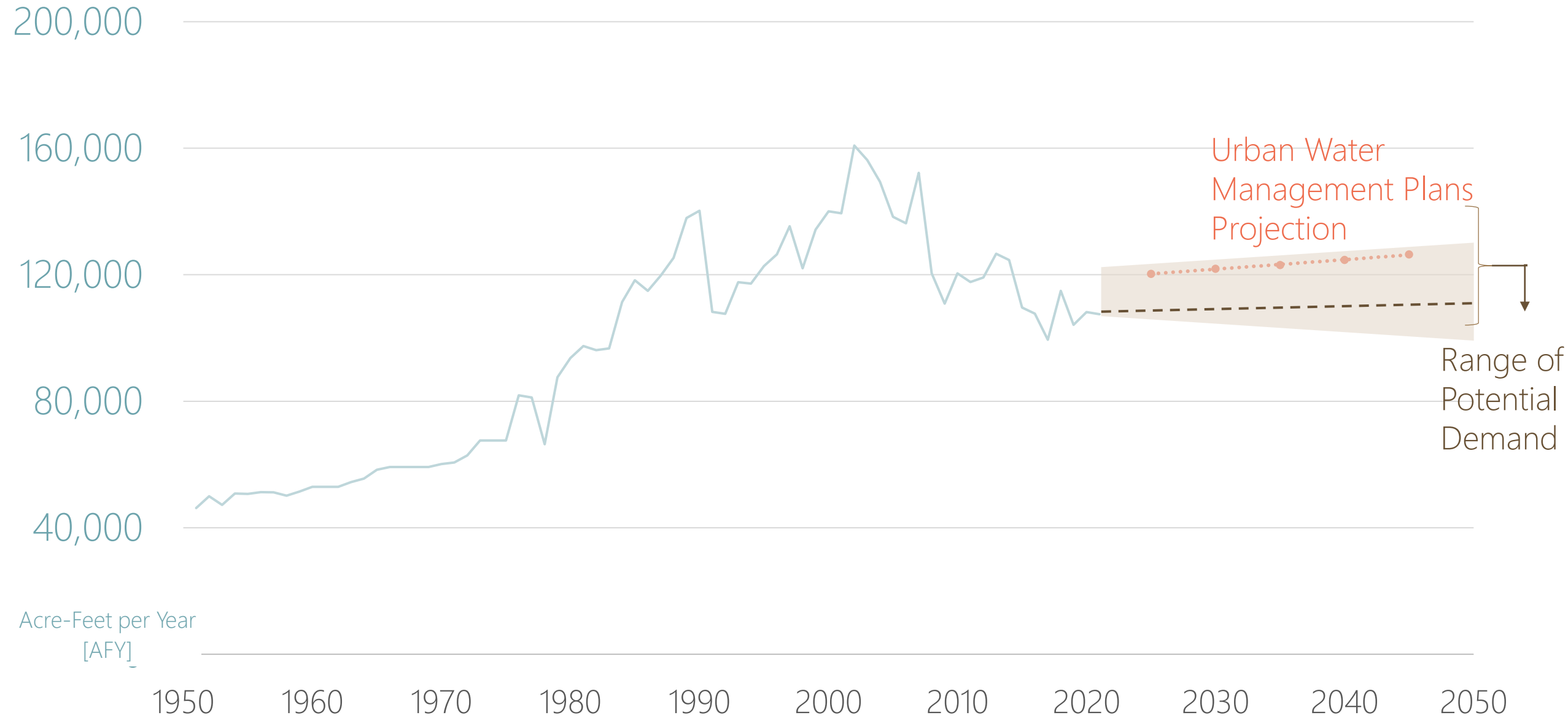


# WHAT'S IN STORAGE



Basin	Storage Program	Capacity [AF]	2022 Balance [AF]
Main San Gabriel	Cyclic	50,000	6,000
Six Basins	Storage + Recovery	3,000	2,000
	Conjunctive	1,000 AFY	400
Chino	Conjunctive		-

# TVMWD SERVICE AREA WATER USE

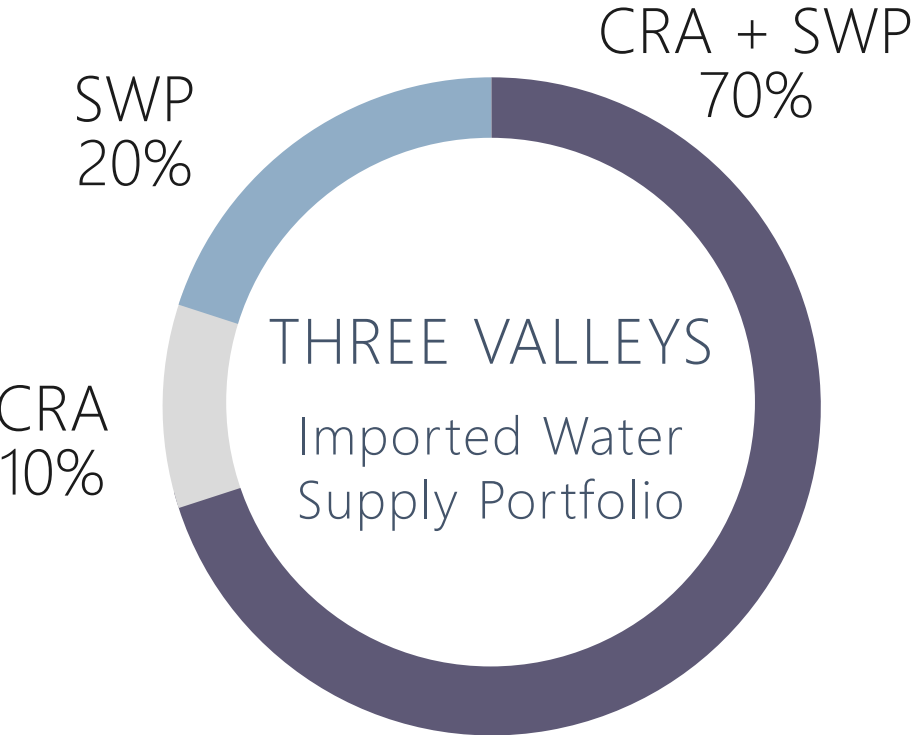


Acre-Feet per Year  
[AFY]



# WATER RESOURCES CHALLENGES UNDER UNCERTAIN FUTURE CONDITIONS

- Invest in “regional” system integration and operational flexibility
- Increase groundwater storage/banking opportunities to develop local resilience
- Diversify water supply portfolio by integrating flow of water between groundwater basins
- Maintain access to current supplies by *proactively addressing future uncertainty*



# WATER SUPPLY PORTFOLIO FORWARD



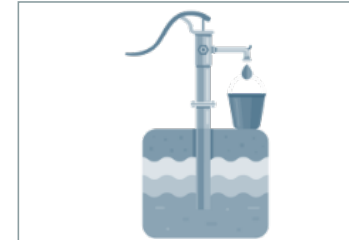
## RAW WATER

State Water Project  
reliability



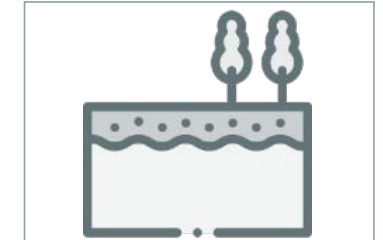
## TREATED WATER

State Water Project  
+ Colorado River  
Aqueduct



## GROUNDWATER

Sustainable  
Production



## STORAGE

Optimized storage  
and recovery  
programs



## COLLABORATION

Partnership beyond  
boundaries



## INTEGRATION

Interconnected  
Supply +  
Distribution Network



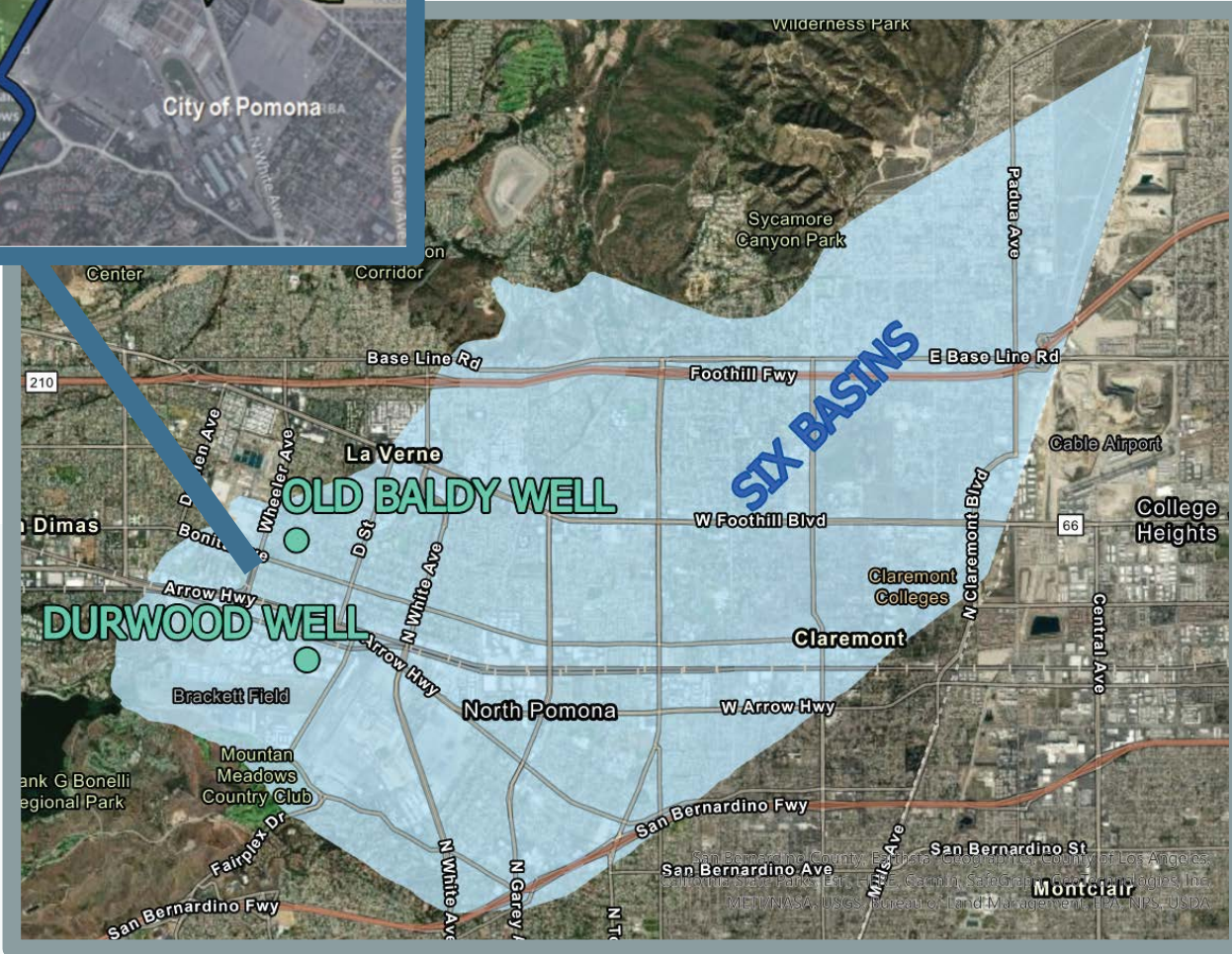
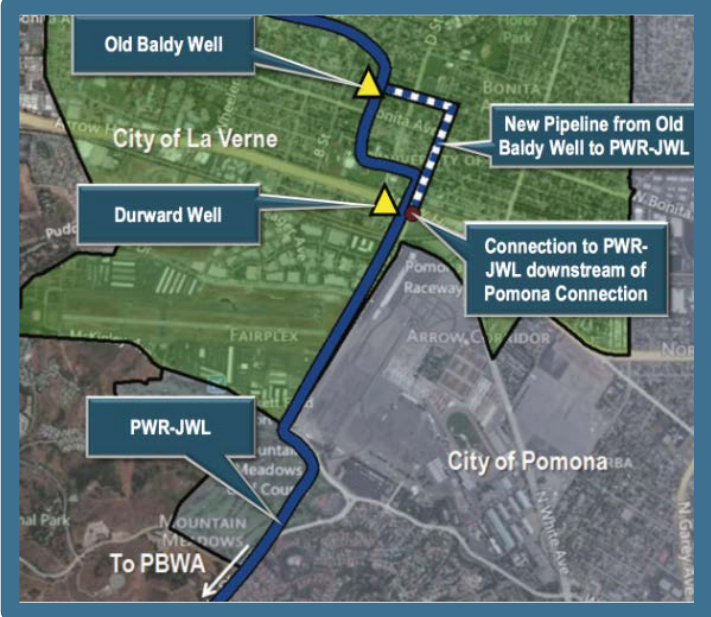
## WATER USE EFFICIENCY

Efficient use of water  
and energy protecting  
the environment



## CLIMATE RESILIENCE

Recognize the  
circular importance  
of resources



# Sustainable Groundwater

- Rehabilitation and operation of stranded wells in *Six Basins*
- Provides groundwater to Puente Basin Water Agency, otherwise 90% dependent on imported water
- Increasing groundwater spreading and storage capacity



# Integrated *Regional System*

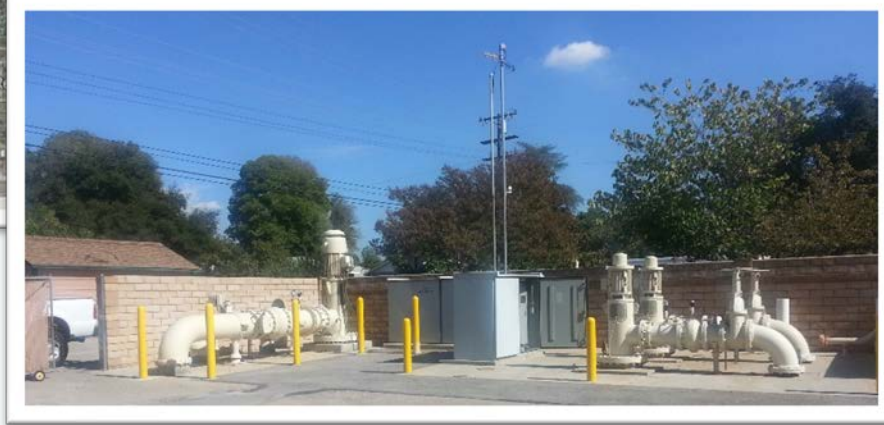
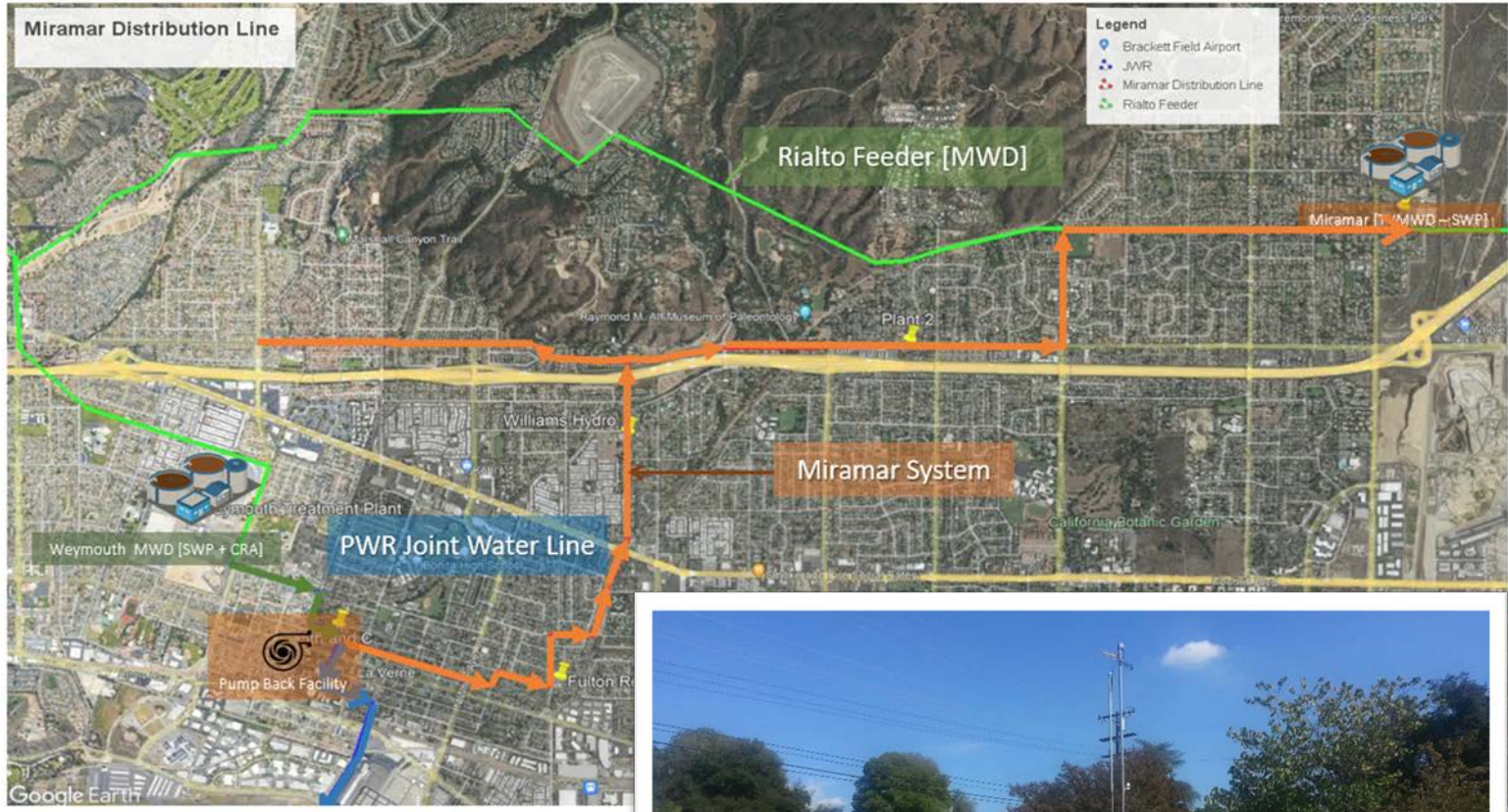
- Rehabilitation and operation of stranded wells in *Main Basin*
- Maximizes use of groundwater rights
- 6,000 AFY
- Provides alternative regional supply and distribution system
- Diversifies supply portfolio



THREE VALLEYS MUNICIPAL WATER DISTRICT

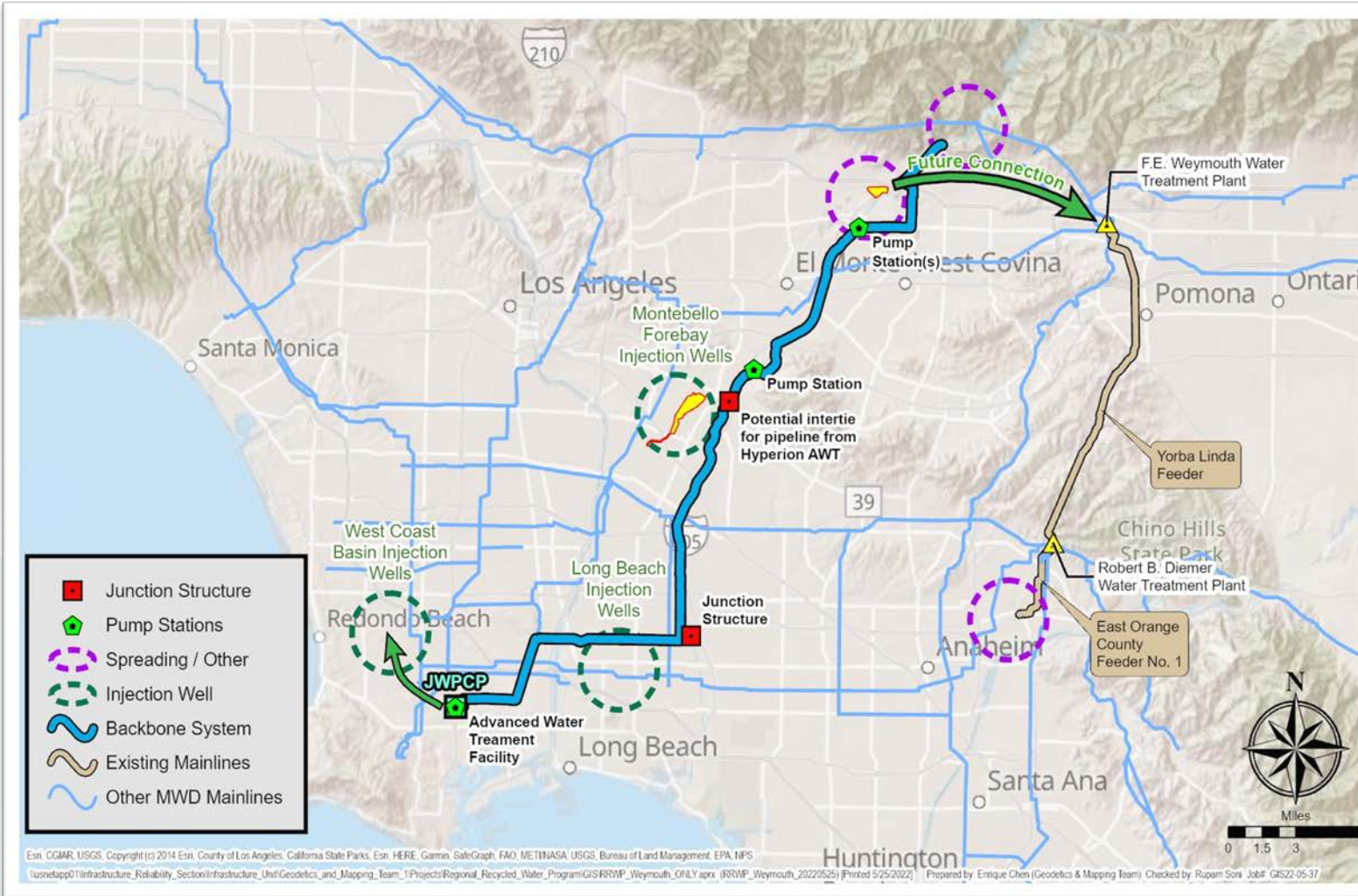
# SYSTEM FLEXIBILITY

MIRAMAR DISTRIBUTION SYSTEM PUMPBACK OPERATION



- Collaborating with Metropolitan Water District
- Provides system flexibility to move Weymouth Treatment Plant water to SWP dependent areas of Claremont\* and La Verne
- High priority project for SWP – East Branch solutions



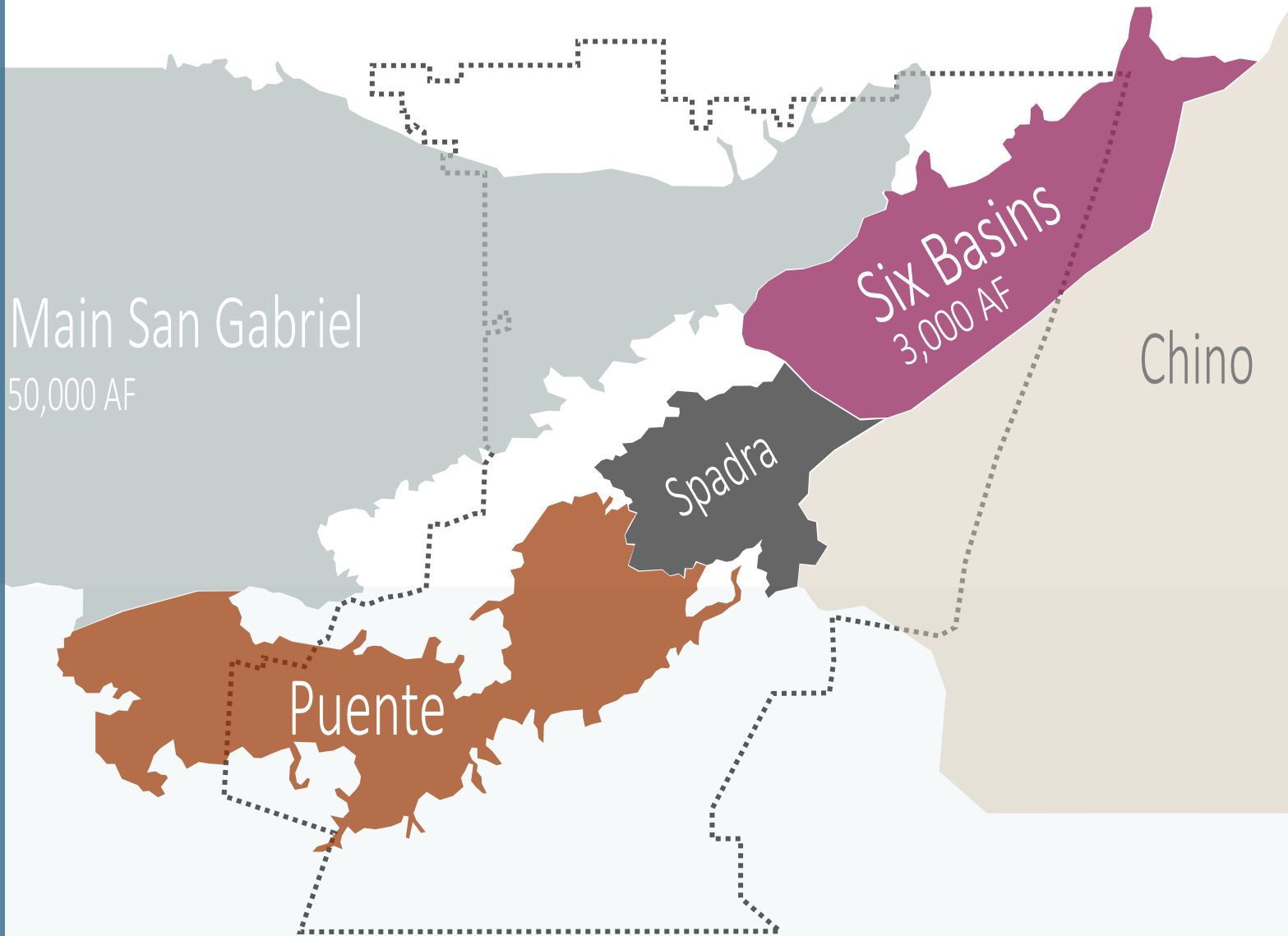


- Pure Water Southern California commitment of 6,500 AFY
- Azusa Pipeline to deliver to Weymouth/*Miramar*/WFA
- TVMWD in process of acquiring land for pump station for conveyance to Miramar
- Includes recharge in Main and Six Basins

# INTEGRATED SYSTEMS



- Azusa Pipeline to deliver to Weymouth/Miramar/WFA
- Increasing groundwater spreading and recharge
- Alternate supply source to Miramar/WFA during Rialto Feeder shutdowns



## STORAGE + RECOVERY

- Collaborate with Metropolitan, its member agencies and partners to enhance and invest in local storage and recovery programs in Chino Basin, Main Basin and Six Basins
- Partnership in programs such as the Chino Basin Program



# PLAN FORWARD

*Collaboration*

*Integration*

*Advocacy [Education + Funding]*





# Western Municipal Water District

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CRAIG MILLER





# Western Municipal Water District

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CRAIG MILLER





# Regional Water Supplies and the Future of Water



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Chino Basin Watermaster Workshop

December 5, 2022 |



# Overview

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1) About Western

2) Water supply and drought

3) Local efforts

4) The future of water management







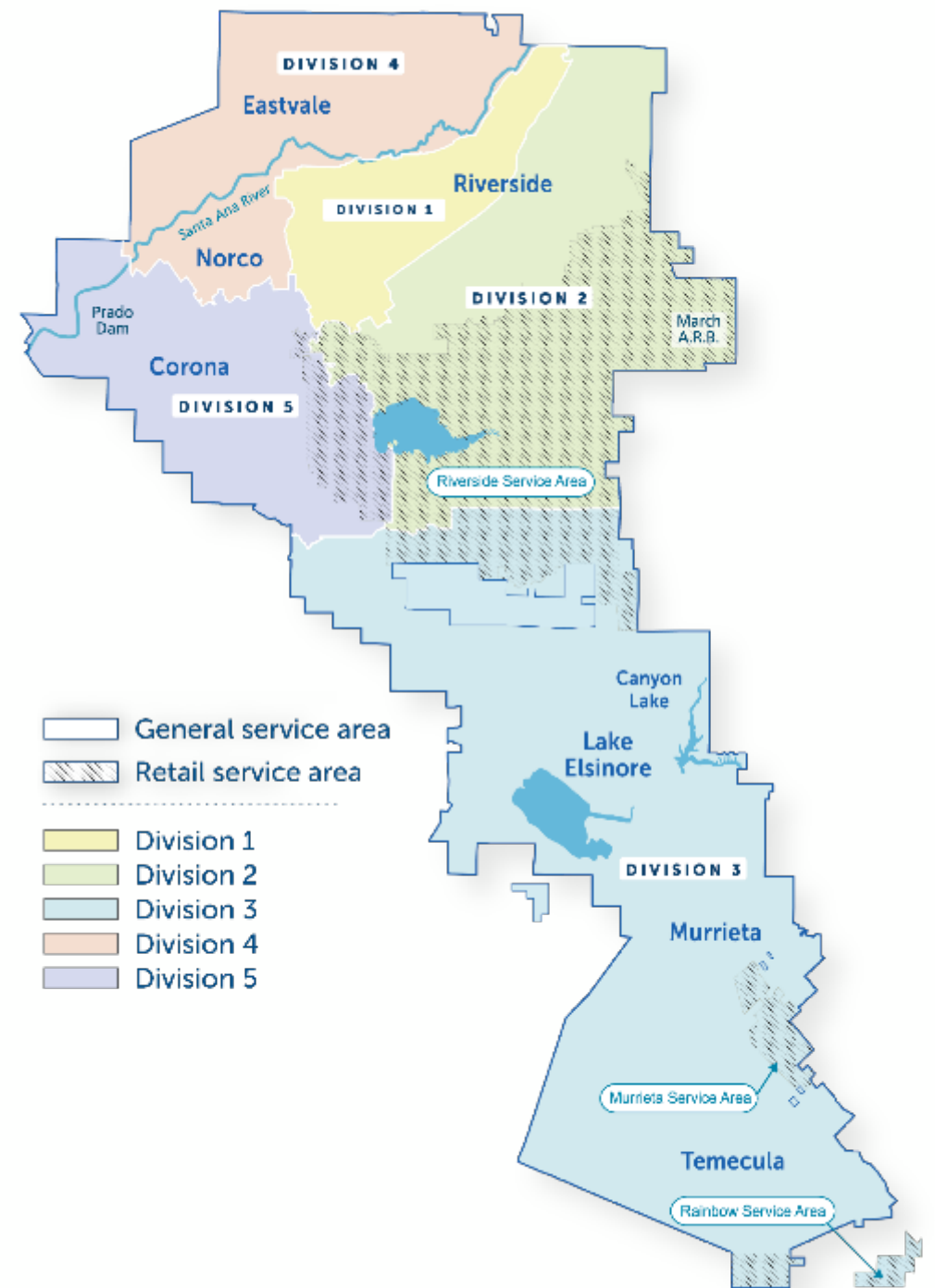
# Overview of Western

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# Western's Service Area

- Established in 1954 to deliver imported water
- Wholesale and retail water provider
- Serve 527 square-miles area in western Riverside County
- One of the largest public agencies in the region



# Western's Board of Directors

- Five-member Board, publicly elected



**Mike Gardner**  
*Division 1*



**Gracie Torres**  
*Division 2*



**Brenda Dennstedt**  
*Division 3*



**Laura Roughton**  
*Division 4*

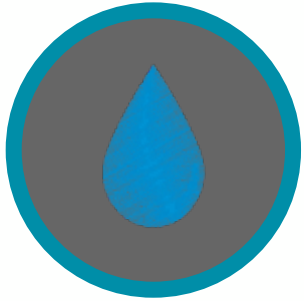


**Fauzia Rizvi**  
*Division 5*



# About Western

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Provide drinking water, recycled water, and wastewater services to nearly **1 million people**



Western serves **fourteen (14) wholesale customers**



Serving nearly **25,000 retail connections** (100,000+ people)



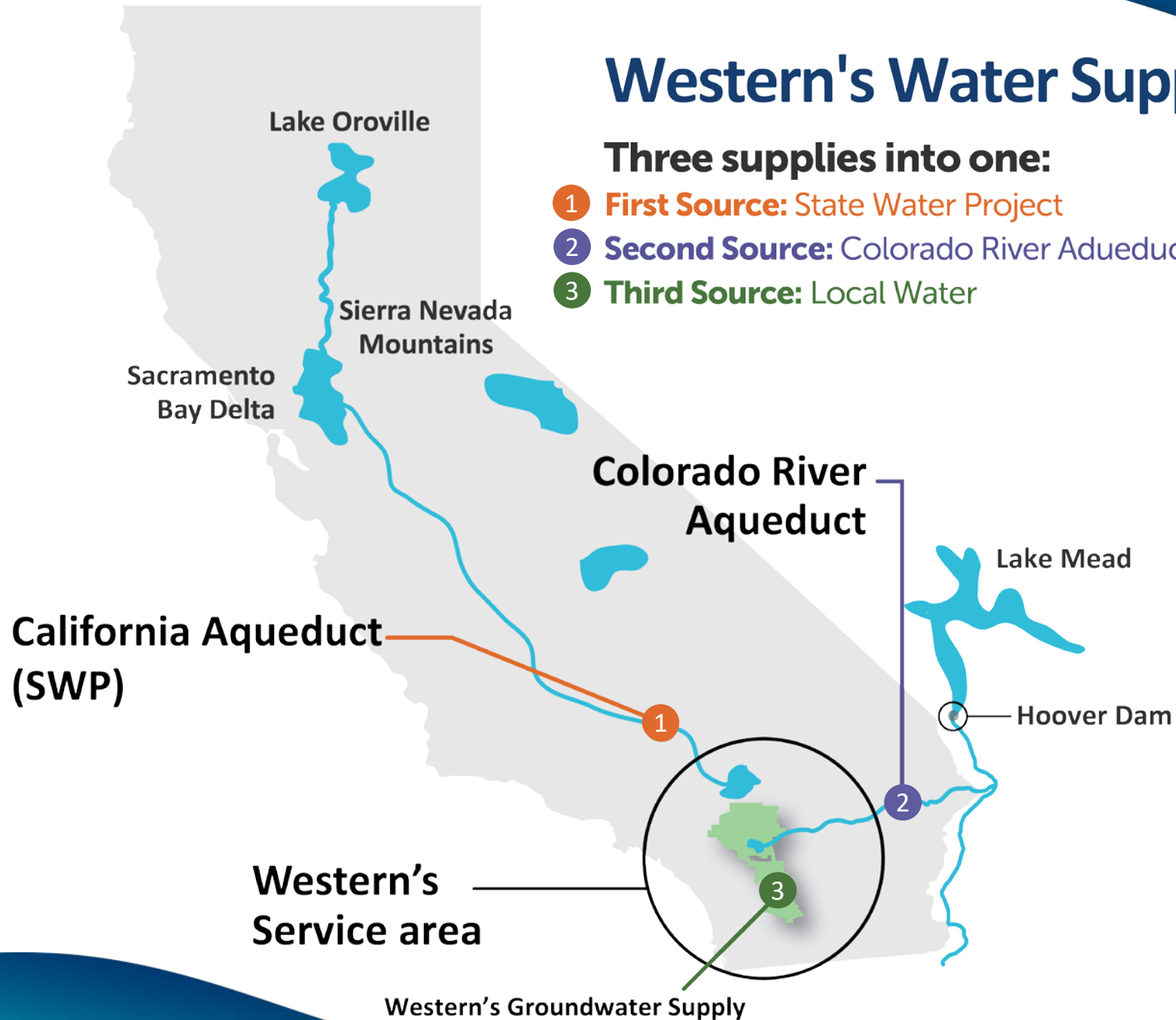
Member agency of the Metropolitan Water District of Southern California



# Western's Water Supply

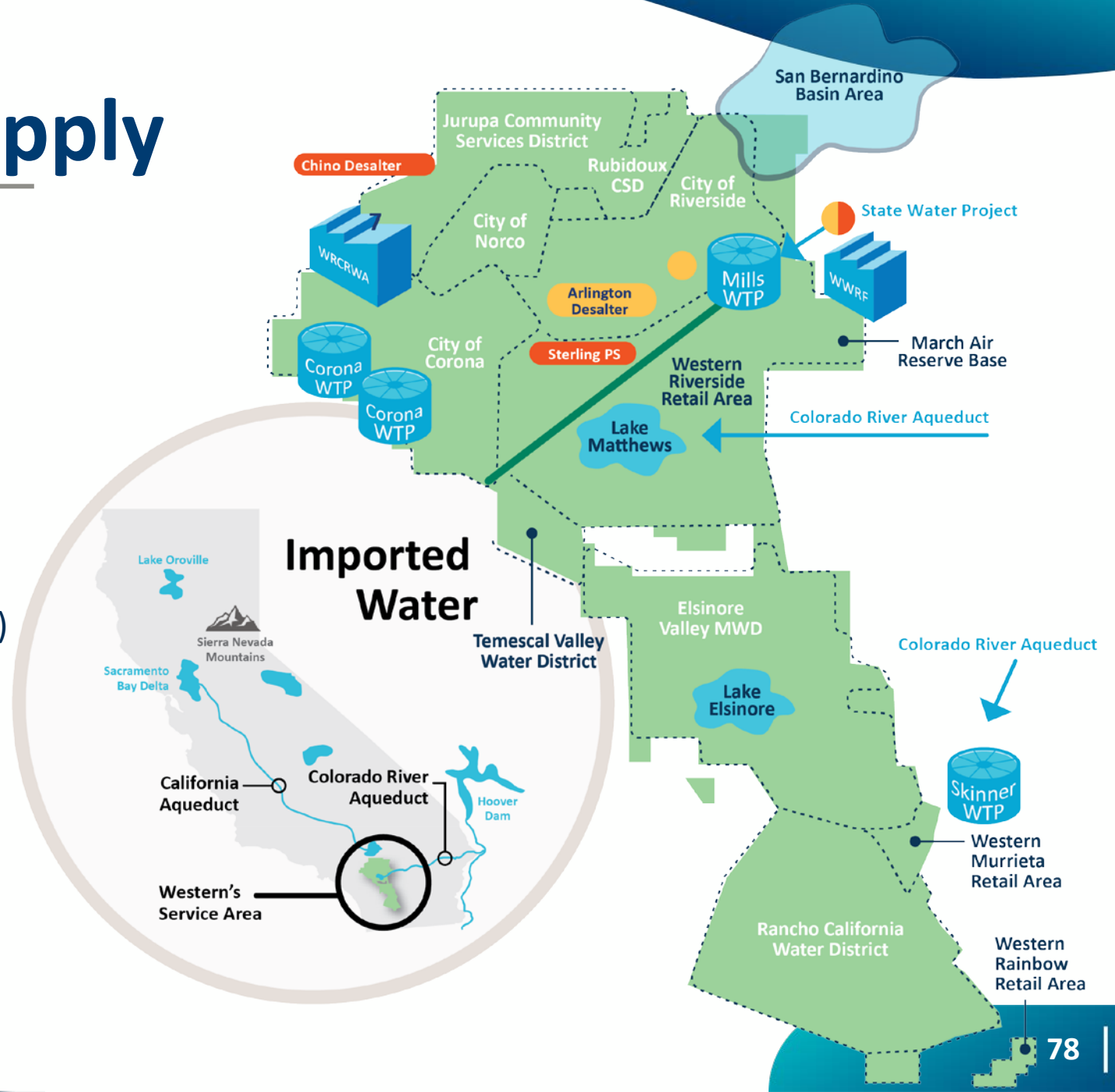
Three supplies into one:

- 1 **First Source:** State Water Project
- 2 **Second Source:** Colorado River Adueduct
- 3 **Third Source:** Local Water



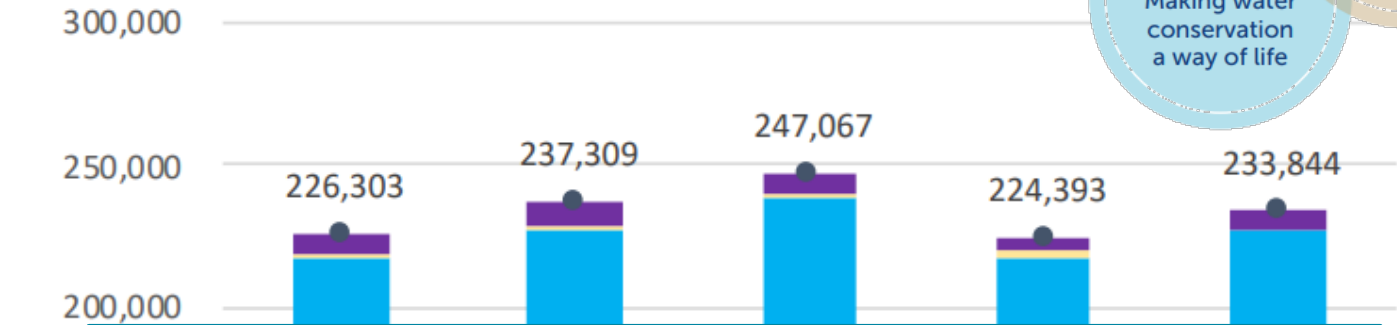
# Diverse Water Supply

- ✓ Arlington Desalter
- ✓ Chino Desalter
- ✓ Victoria Recharge Basin
- ✓ Groundwater
- ✓ Recycled Water
- ✓ Imported Water (Mills and Skinner WTPs)



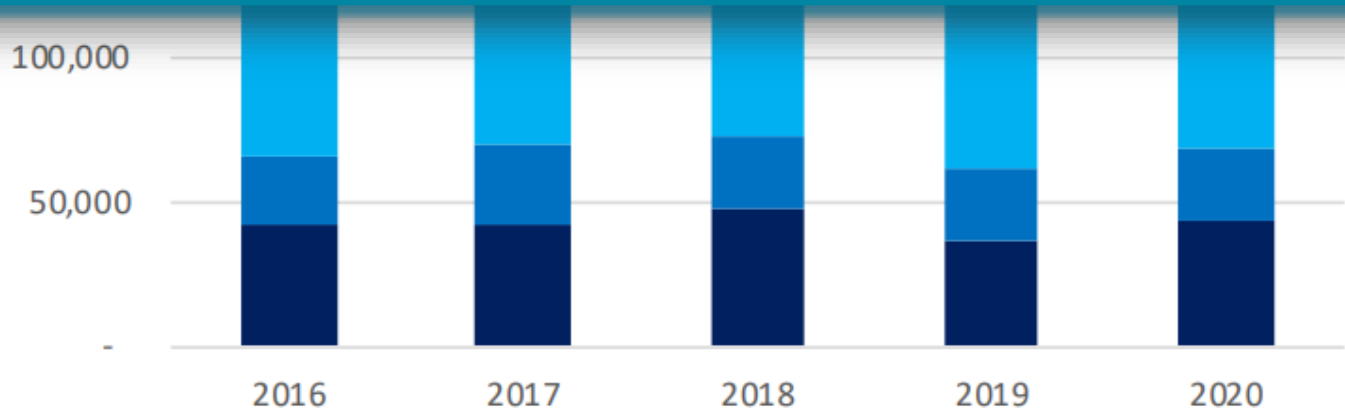
# Service Area Water Supply

- Making water conservation a way of life
- Securing local water resources
- Collaborating with Metropolitan in securing imported supplies



*Demands are expected to grow about 25% in the next 25 years*

	2025	2030	2035	2040	2045
TOTAL DEMAND	244,895	256,534	268,727	281,499	294,878



- Recycled Water
- Groundwater
- Imported Treated
- Surface Water
- Imported Untreated
- Total Water Use



Western Municipal Water District

# Strategic Priorities

2022-2025



## Western's Values



### Efficiency

Ensuring that our dedication to efficiency standards extends across Western and beyond water resources, providing guidance to all financial and operational decisions.



### Water Supply Reliability

Securing a safe and stable water supply through diverse source strategies and innovative water resource management.



### Fiscal Responsibility and Value

Ensuring the financial stability of Western and value to the customer through sound fiscal management and disciplined decision making.



### Public Trust, Accountability and Transparency

Maintaining a standard of exceptional integrity, honor and respect through open communication and accessibility.





# RESOURCE MANAGEMENT

Maximize Western's diversified, regulatory compliant, and cost-effective resource portfolio to ensure service reliability and resiliency for an expanding customer base

- 1 Implement a wholesale enterprise to optimize water supplies and infrastructure that benefits wholesale and retail customers
- 2 Collaborate with neighboring agencies to optimize regional resources
- 3 Save money, energy, and water through:
  - Exploring energy generation and storage opportunities
  - Maximizing technology
  - Optimizing operational efficiency
  - Incorporating energy management practices and design

- 4 Increase the beneficial use of recycled water
- 5 Create a water storage initiative to ensure Western can take advantage of surplus imported supplies, when available
- 6 Expand Geographic Information Systems (GIS) capabilities by advancing processes to support asset management and business needs



## Challenges

- ❑ Regulatory Requirements
- ❑ Basin Sustainability
- ❑ Climate Change/Drought

## Solutions



Chino Basin Conjunctive Use Programs



WRCRWA RW in Chino Basin



Stormwater Capture & Recharge



Chino and Arlington Desalters





# CURRENT RESPONSE TO DROUGHT

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# The State's Drought Response

- 20% voluntary water reductions
- Mandatory restrictions
  - Nonfunctional turf for commercial, industrial, and institutional customers
- Continued focus by the Legislature on indoor water conservation and drought outreach
- Demand local agencies build local supply projects



# Local Preparation



Southern California uses up to **50% less water** than a decade ago



Investments in local water supply projects **reduce reliance on imported water**



Even with significant population increase, per capita **water demand is down** from 30 years ago



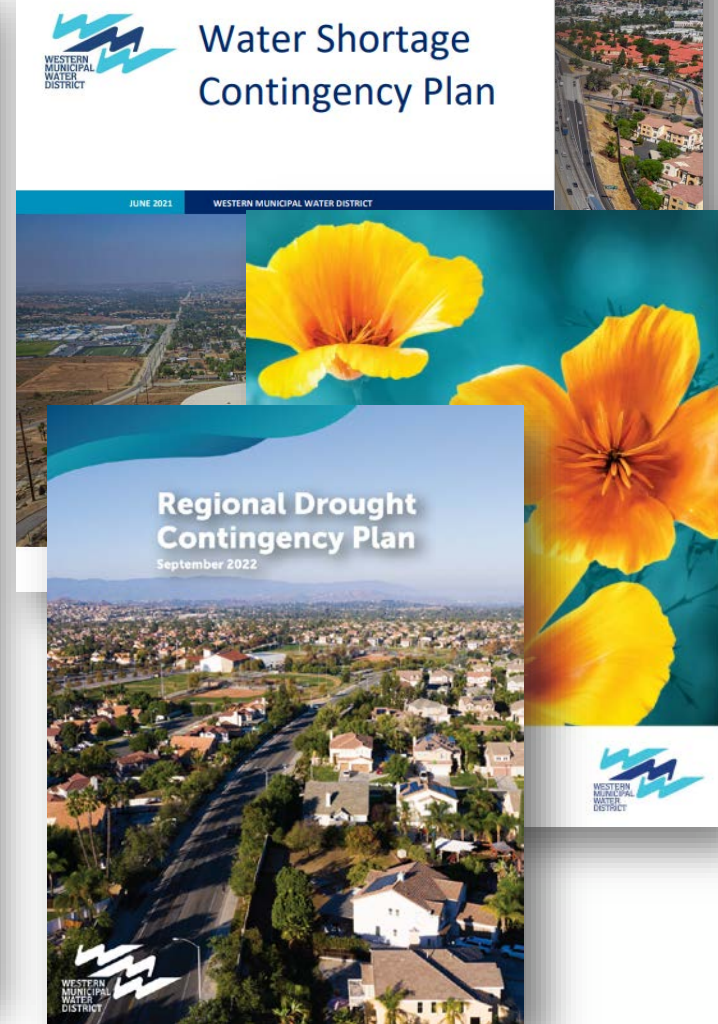
Ongoing **education and outreach** programs



# Substantial Water Resource Planning

Figure 1-2. UWMP Relation to Other Planning Efforts

PLANNING DOCUMENT	PREPARED BY	DOCUMENT PROGRESS STATUS	PLAN AREA FOCUS			PLAN TOPICS					
			WESTERN WHOLESALE	WESTERN RETAIL	REGIONAL OR STATE	SUPPLIES / RELIABILITY	DEMANDS / WATER USE EFFICIENCY	INFRASTRUCTURE	CLIMATE CHANGE	RISK AND MITIGATION	WATER SHORTAGE & EMERGENCY RESPONSE
WESTERN 2020 UWMP	Western	■■■■■ This UWMP	✓	✓		✓	✓		✓	✓	✓
WATER SHORTAGE CONTINGENCY PLAN	Western	■■■■■ Developed as part of 2020 UWMP	✓	✓		✓	✓		✓	✓	✓
WESTERN DROUGHT CONTINGENCY PLAN	Western in collaboration with Drought Task Force	■■■□□ Under Development as part of 2020 UWMP	✓	✓	✓	✓	✓	✓	✓	✓	✓
WESTERN RETAIL FACILITIES MASTER PLANS	Western	■■■□□ Under development		✓			✓	✓			
RIVERSIDE RETAIL SERVICE AREA BUILD-OUT DEMAND ANALYSIS	Western	■■■■■ Completed in 2019		✓			✓				
MURRIETA SERVICE AREA BUILD-OUT DEMAND ANALYSIS	Western	■■■■■ Completed in 2018		✓			✓				
ARLINGTON BASIN GROUNDWATER SUSTAINABILITY PLAN (GSP)	Western in collaboration with the Arlington Groundwater Sustainability Agency (GSA)	■■■□□ Under development	✓	✓	✓	✓			✓	✓	
AWIA RISK AND RESILIENCE ASSESSMENT AND EMERGENCY RESPONSE PLAN	Western	■■■■■ Completed	✓	✓		✓		✓		✓	
LOCAL HAZARD MITIGATION PLAN	Western	■■■■■ Completed in 2017	✓	✓		✓		✓		✓	
METROPOLITAN INTEGRATED RESOURCES PLAN (IRP) AND 2020 UWMP	MWD in collaboration with Western and other member agencies	■■■□□ Under development	✓	✓	✓	✓	✓		✓	✓	✓
2019 WATER USE EFFICIENCY (WUE) MASTER PLAN	Western	■■■■■ Completed in 2019		✓			✓				
LOCAL RETAIL AGENCY 2020 UWMPs	Local retail water suppliers	■■■□□ Under development			✓	✓	✓		✓	✓	✓
2020 UPPER SANTA ANA WATERSHED INTEGRATED REGIONAL URBAN WATER MANAGEMENT PLAN	San Bernardino Valley Municipal Water District in collaboration with Western and other agencies	■■■□□ Under development			✓	✓	✓		✓	✓	✓
ONE WATER ONE WATERSHED PLAN	SAWPA in collaboration with Western and others	■■■■■ Completed in 2019			✓	✓	✓		✓	✓	✓



# Western's Drought Response

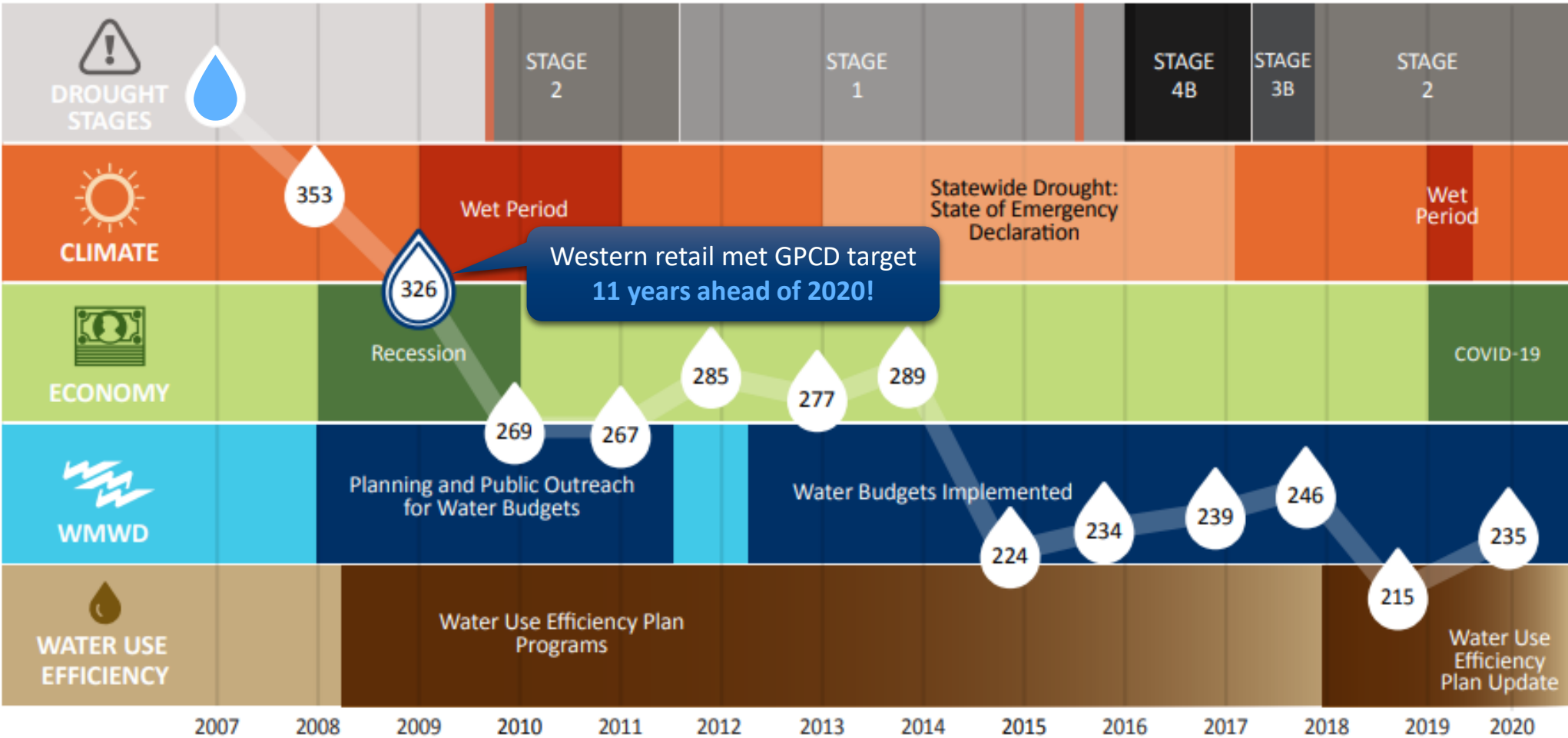
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- Continue to promote water-use efficiency
- Responding to State mandated CII non-functional turf watering restrictions
- Preparing for an escalation in Water Shortage Stages

- Currently in Stage 2



# Western's Customers Have Responded



430 Baseline Water Use from 1995-2004, gallons per capita per day

352 2020 Water Use Target





# THE FUTURE OF WATER SUPPLY

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Californians need bold action on water now



# CA Water Supply Strategy

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1. Create storage space for up to 4 MAF
2. Recycle and reuse at least 800,000 AFY by 2030
3. Free up 500,000 AFY by eliminating water waste
4. Make new water available by capturing stormwater and desalination





**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

## COALITION MISSION

- Education campaign to elevate the water crisis
- Raise awareness among California policymakers and thought leaders
- Demand bold and immediate State action to secure California's future
- Make water a top State agenda item with ongoing investment

# SOLVE THE WATER CRISIS

## Growing Participation



**SOLVE THE WATER CRISIS**  
ACT NOW TO SECURE CALIFORNIA'S FUTURE.

### By the Numbers

26

**Board Members: Funding the effort - water providers from across California**

33

**Pledged supporters advancing Solve the Water Crisis' goals**

80+

**Interested supporters in the process of pledging membership or support**

#### Board Members



#### Supporters



# SOLUTIONS

Educate key audiences on solutions to address the state's water supply and reliability issues, including statewide and long-term benefits of solutions.

1

More surface and groundwater storage

2

Improved inter-regional and local conveyance

3

Creative regulatory solutions such as the voluntary agreements

4

New supply including investments in local water infrastructure, such as groundwater recharge, desalination, and recycling



**SOLVE THE WATER CRISIS**

*ACT NOW TO SECURE CALIFORNIA'S FUTURE*

# Opportunities within the Chino Basin



How can we use the basin to **enhance water resiliency**?



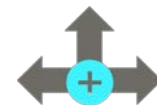
How can **Western's water resources further contribute** to the Chino Basin?



Are there opportunities for **intra-basin partnerships**?



How do we continue to leverage **grant funding as a region**?



Are there **regional facilities and/or programs** to help enhance water resiliency?





# Questions

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# Break

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# Chino Basin Watermaster

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PETER KAVOUNAS

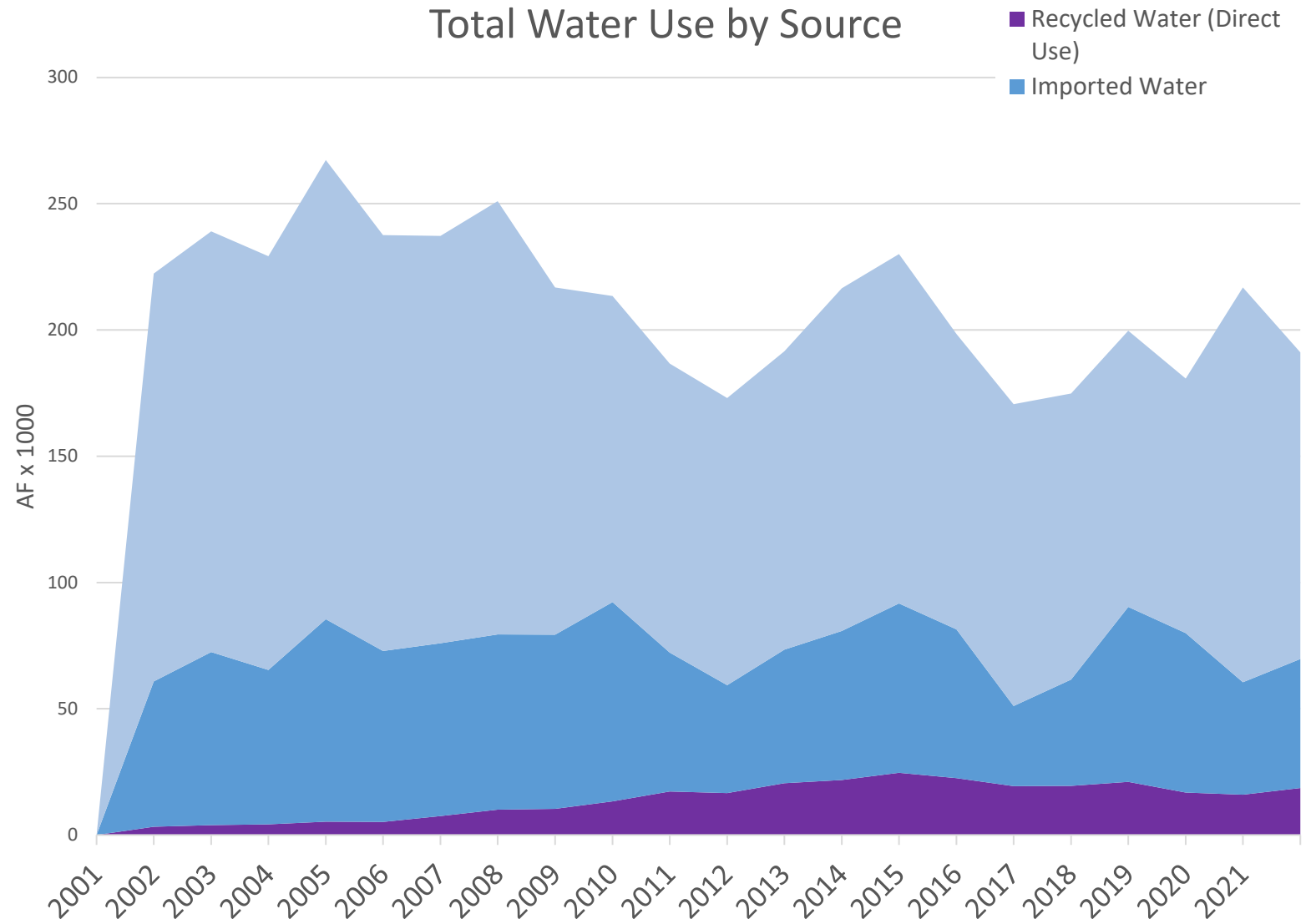


# The Role of the Groundwater Basin

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HOW THE CHINO BASIN IS HELPING THE REGION OVERCOME THE  
REGIONAL SUPPLY CHALLENGES

Chino Basin is...  
The largest source of  
water for the region:

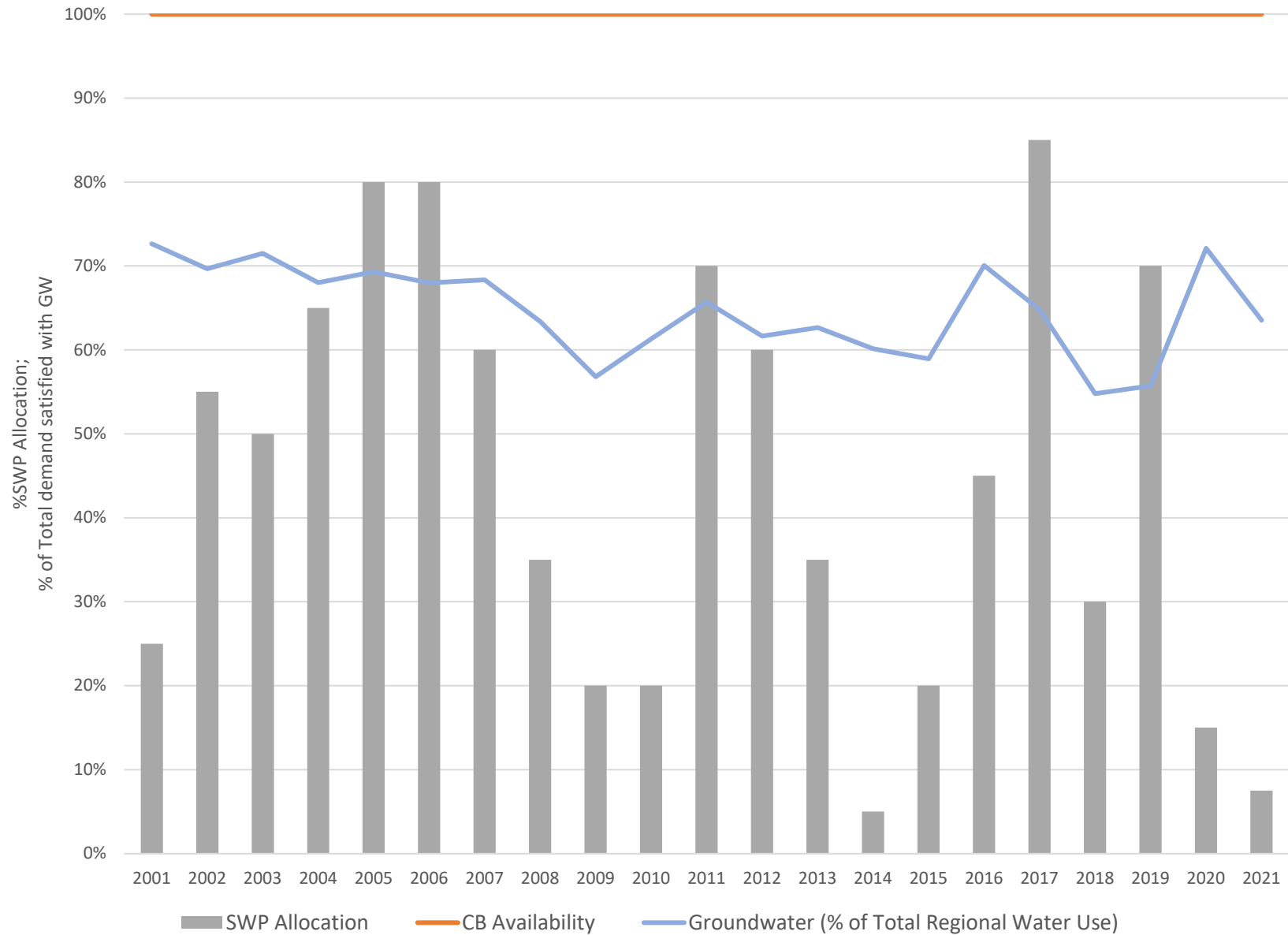


Chino Basin is...

A more reliable source  
than imported water:



SWP Allocations vs GW Reliability

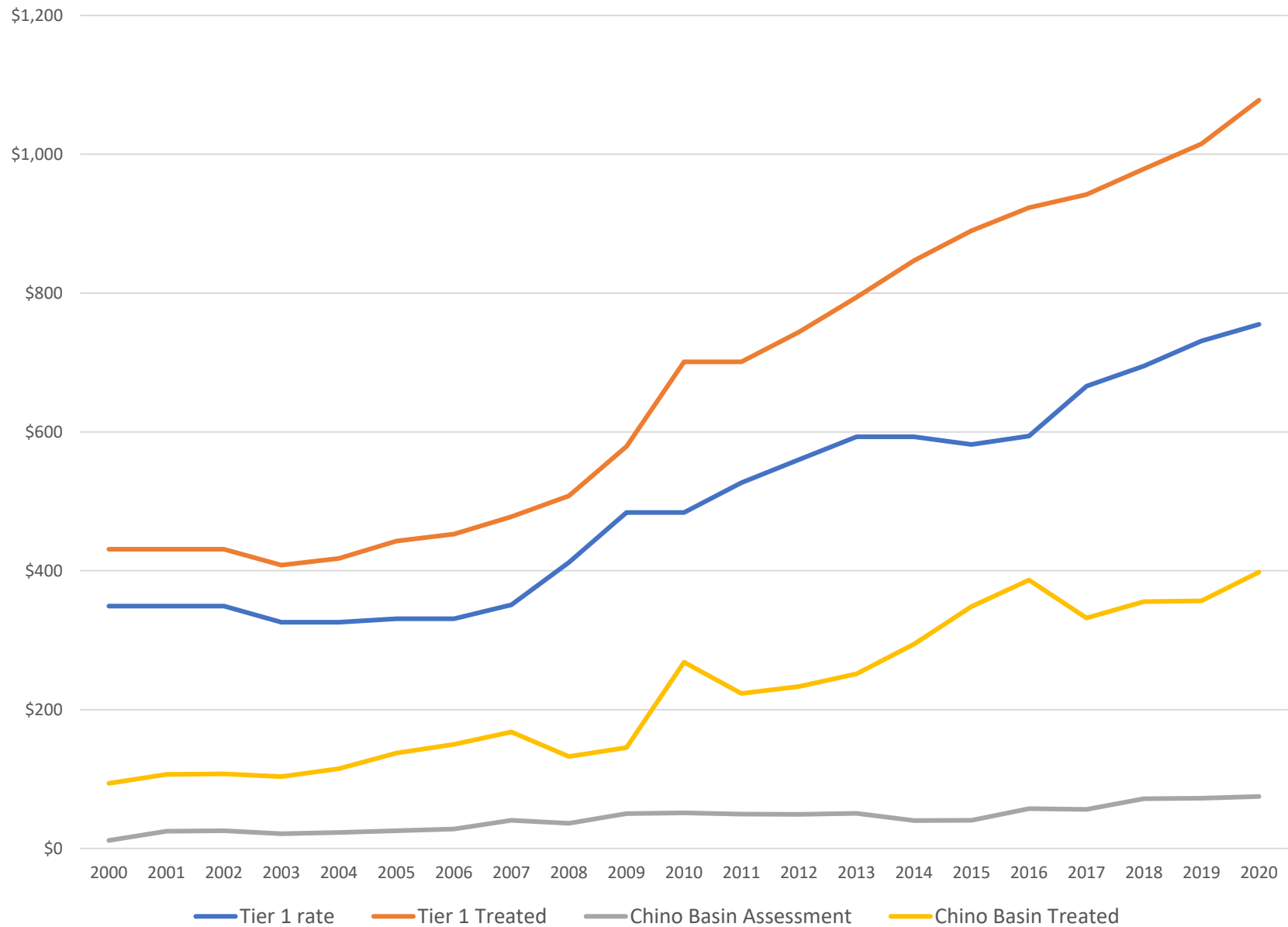


Chino Basin is...

A less expensive source than imported water:

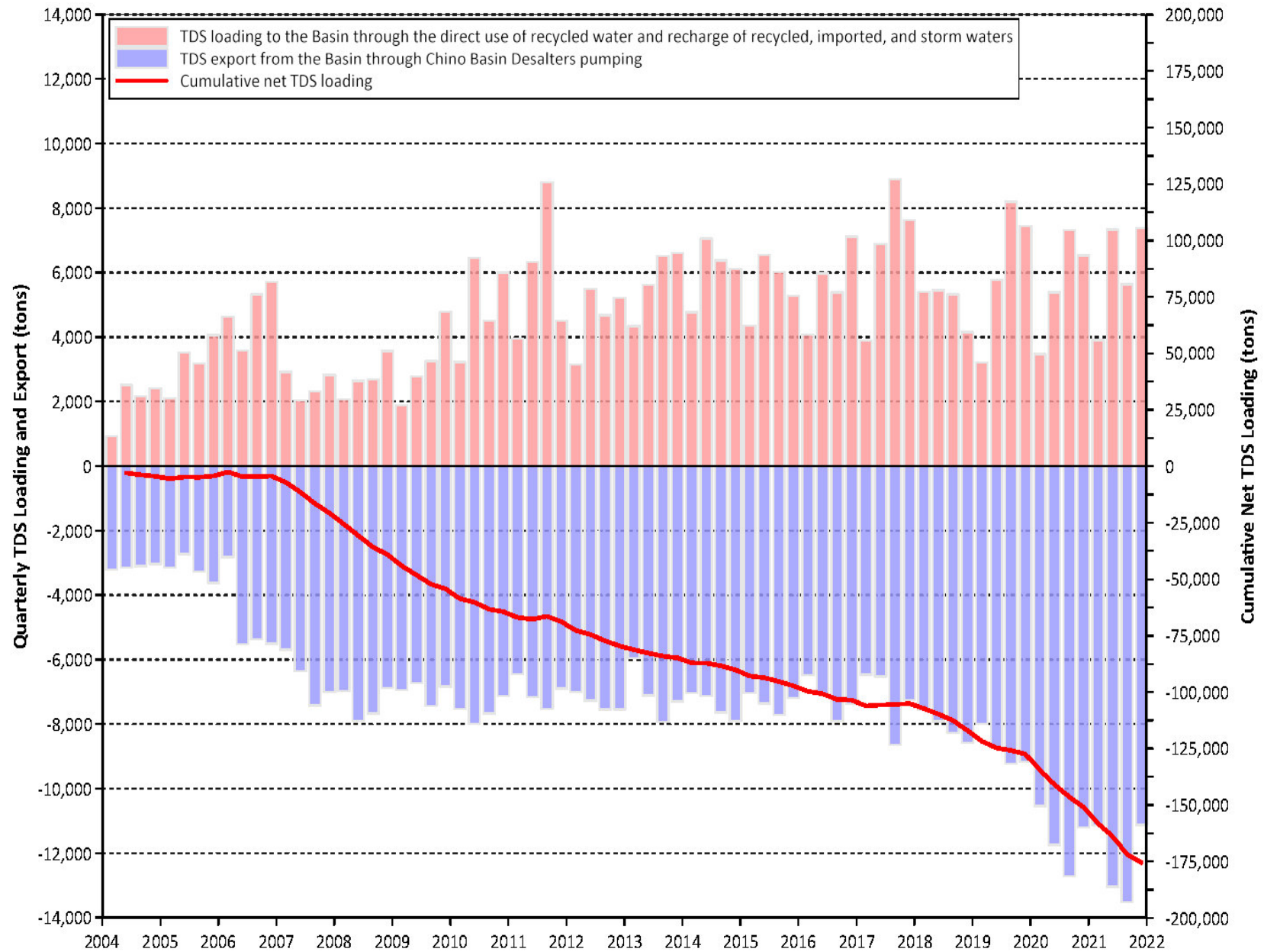


MWD vs CB Water



# Chino Basin is...

## A success story in desalting



# OBMP Program Elements (PEs)

**1 - Develop and Implement Comprehensive Monitoring Program**

**2 - Develop and Implement Comprehensive Recharge Program**

**3 - Develop and Implement Water Supply Plan for the Impaired Areas of the Basin**

**4 - Develop and Implement Comprehensive Groundwater Management Plan for MZ1**

**5 - Develop and Implement Regional Supplemental Water Program**

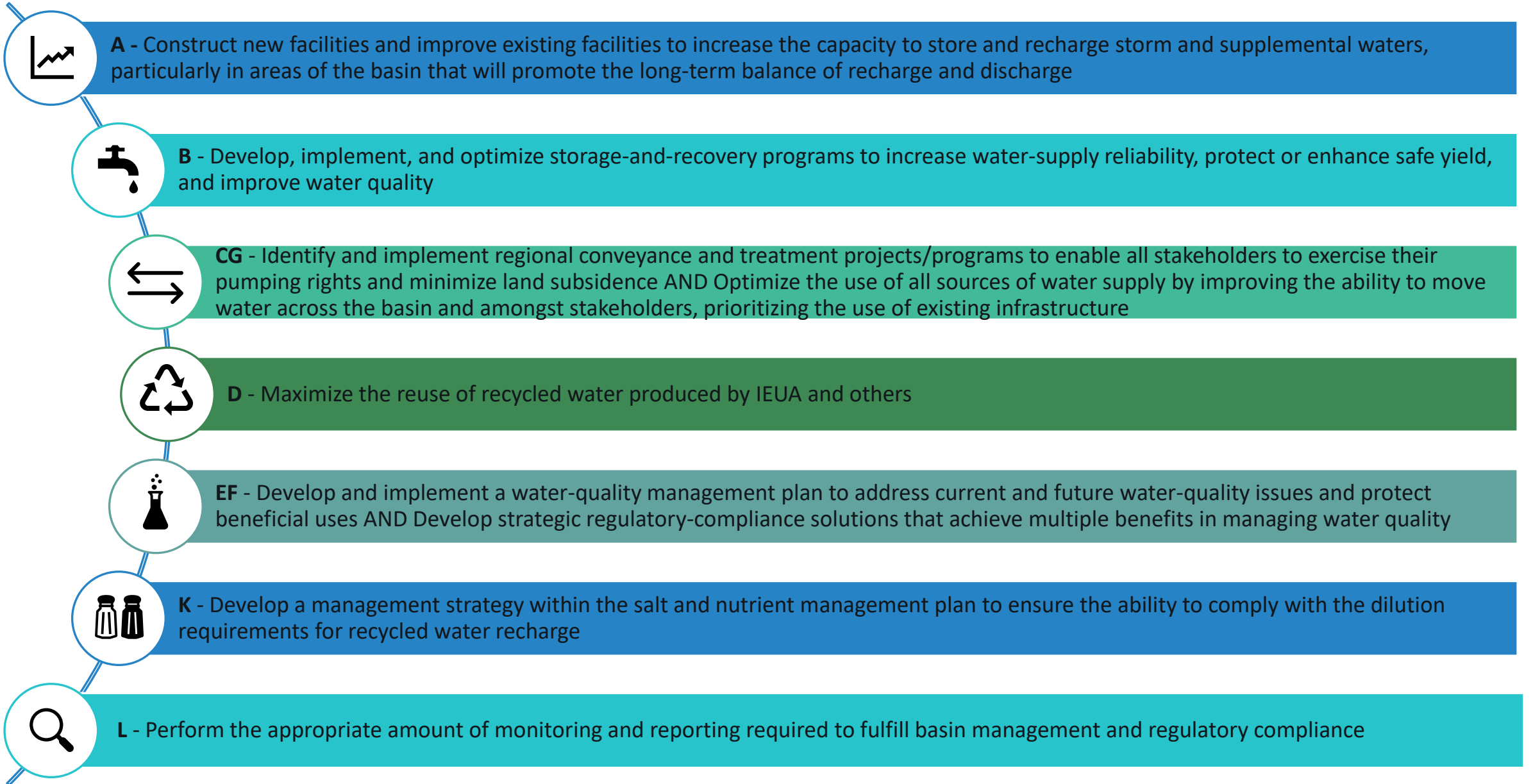
**6 - Develop and Implement Cooperative Programs with the Regional Board and Other Agencies to Improve Basin Management**

**7 - Develop and Implement Salt Management Program**

**8 - Develop and Implement Groundwater Storage Management Program**

**9 - Develop and Implement Storage and Recovery Programs**







# Next Steps



Environmental Review



Potential Implementation Plan Update



Potential Peace Agreement Amendment



# Workshop Goals

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## Improve understanding of:

- The regional supply challenges, and solutions for IEUA, TVMWD, and WMWD
- The role of the groundwater basin in helping overcome regional supply challenges



# Thank you!

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