

Drought Planning Task Force Meeting 3

Burbank Water & Power Drought Contingency Plan



July 29, 2024





- 01** Welcome & Introductions
- 02** Drought Contingency Plan in Review
- 03** DCP Detailed Workplan Update
- 04** Plan Development
- 05** Next Steps and Closing

01 Welcome & Introductions

Drought Planning Task Force Members

Burbank Water and Power

Metropolitan Water District of Southern California

Hollywood Burbank Airport

Providence St. Joseph Hospital

City of Burbank

- Parks and Recreation
- Public Works
- Fire Department
- Community Development

Warner Brothers

Nickelodeon

Burbank Chamber of Commerce

Sustainable Burbank Commission

Burbank Unified School District

Ikea

Any first-time attendees?

Task Force Engagements to Date

Task Force Meeting #1

- Kickoff
- Introduction to Grant & Project
- Reviewed required elements and Task Force role

Task Force Meeting #2

- Plan Progress update
- Reviewed Draft Detailed Workplan









02 Drought Contingency Plan in Review

Elements of the DCP

 Task Force Focus

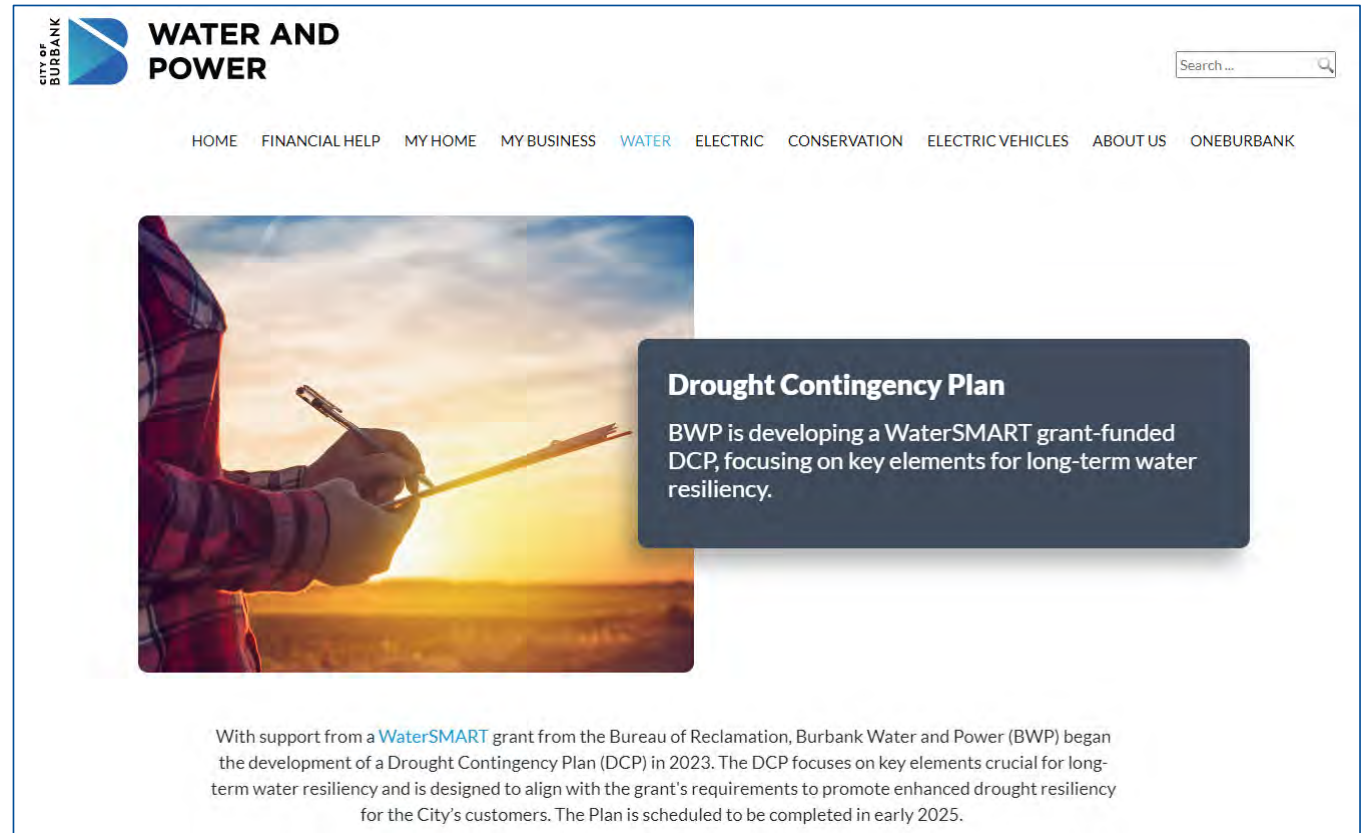
Water Supply &
Demand Planning



-  Drought Monitoring
-  Vulnerability Assessment 
-  Mitigation Actions 
-  Response Actions
-  Operational and Administrative Framework
-  Plan Update Process

Updated DCP Webpage – Live!

- Overview of Planning Approach
- Task Force Meeting Descriptions
- Presentation Slide Decks
- Email link for feedback



The screenshot shows the Burbank Water and Power website. The header includes the City of Burbank logo and the text "WATER AND POWER". A navigation menu contains links for HOME, FINANCIAL HELP, MY HOME, MY BUSINESS, WATER (highlighted), ELECTRIC, CONSERVATION, ELECTRIC VEHICLES, ABOUT US, and ONEBURBANK. A search bar is located in the top right corner. The main content area features a large image of a person in a plaid shirt writing on a clipboard against a sunset background. A dark blue callout box on the right side of the image contains the following text:

Drought Contingency Plan
BWP is developing a WaterSMART grant-funded DCP, focusing on key elements for long-term water resiliency.

Below the image, a paragraph of text reads: "With support from a WaterSMART grant from the Bureau of Reclamation, Burbank Water and Power (BWP) began the development of a Drought Contingency Plan (DCP) in 2023. The DCP focuses on key elements crucial for long-term water resiliency and is designed to align with the grant's requirements to promote enhanced drought resiliency for the City's customers. The Plan is scheduled to be completed in early 2025."

<https://www.burbankwaterandpower.com/water/drought-contingency-plan>

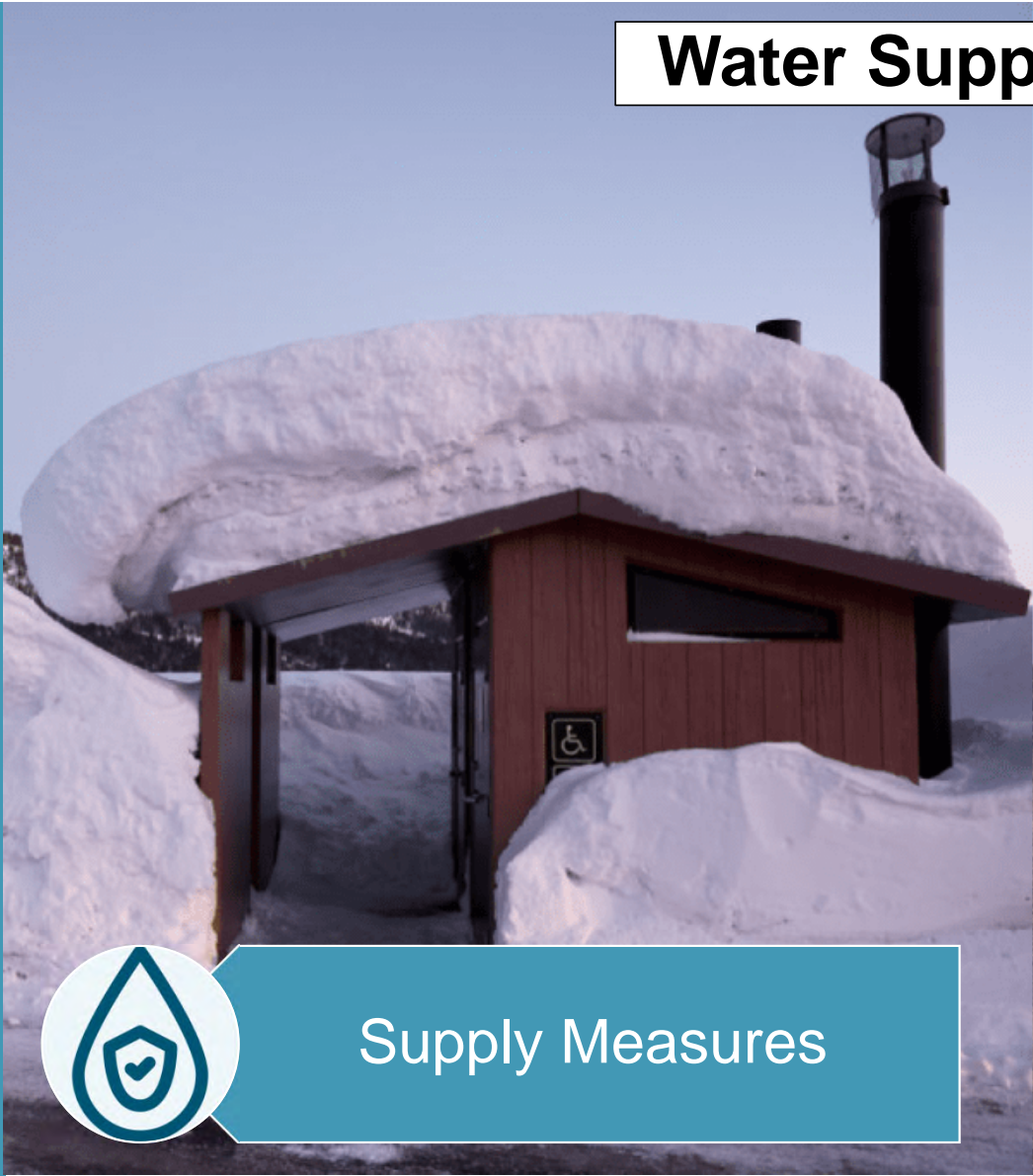
03 Review of Detailed Workplan

Drought Contingency Plan (DCP)

- Partnered with Bureau of Reclamation using WaterSMART grant funds
- Goal to ensure we have adequate supply of water to serve the community
- Major Plan elements:



Water Supply Planning



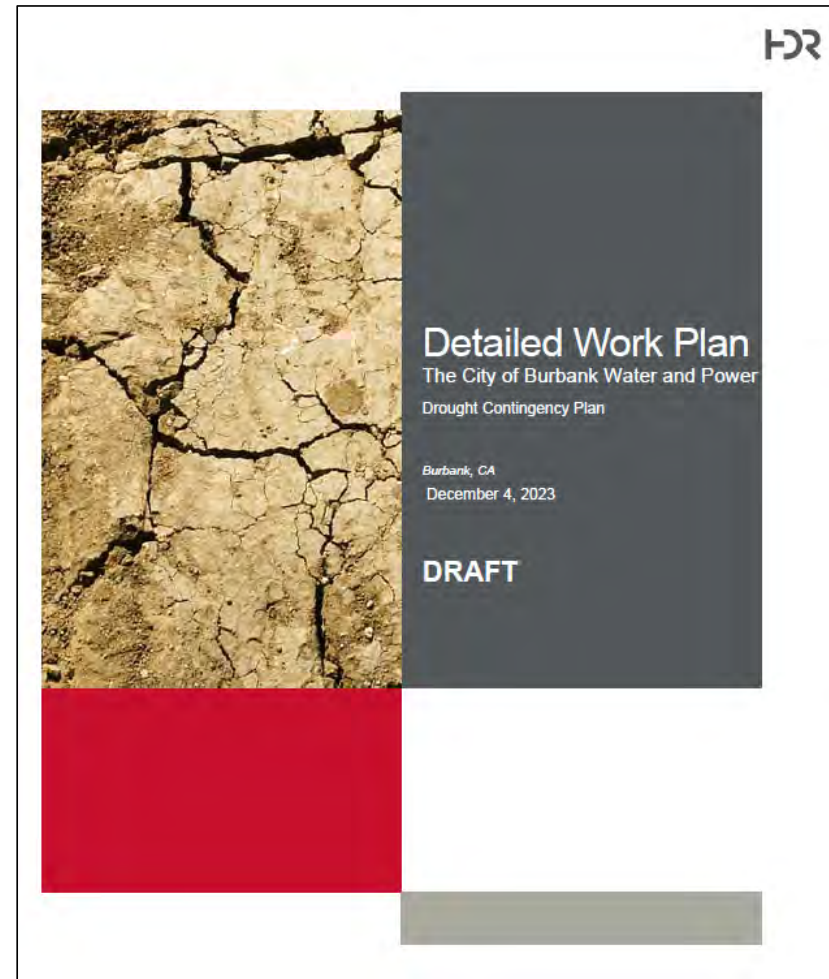
Supply Measures



Drought Response

DCP Detailed Workplan

- Documents the workplan needed to meet BoR requirements
- BoR has verbally approved the DCP direction
- Workplan development underway based on verbal approval



Joining via Mobile Device is recommended

Instructions

Go to

www.menti.com

Enter the code

4130 9357



Or use QR code

Your Information

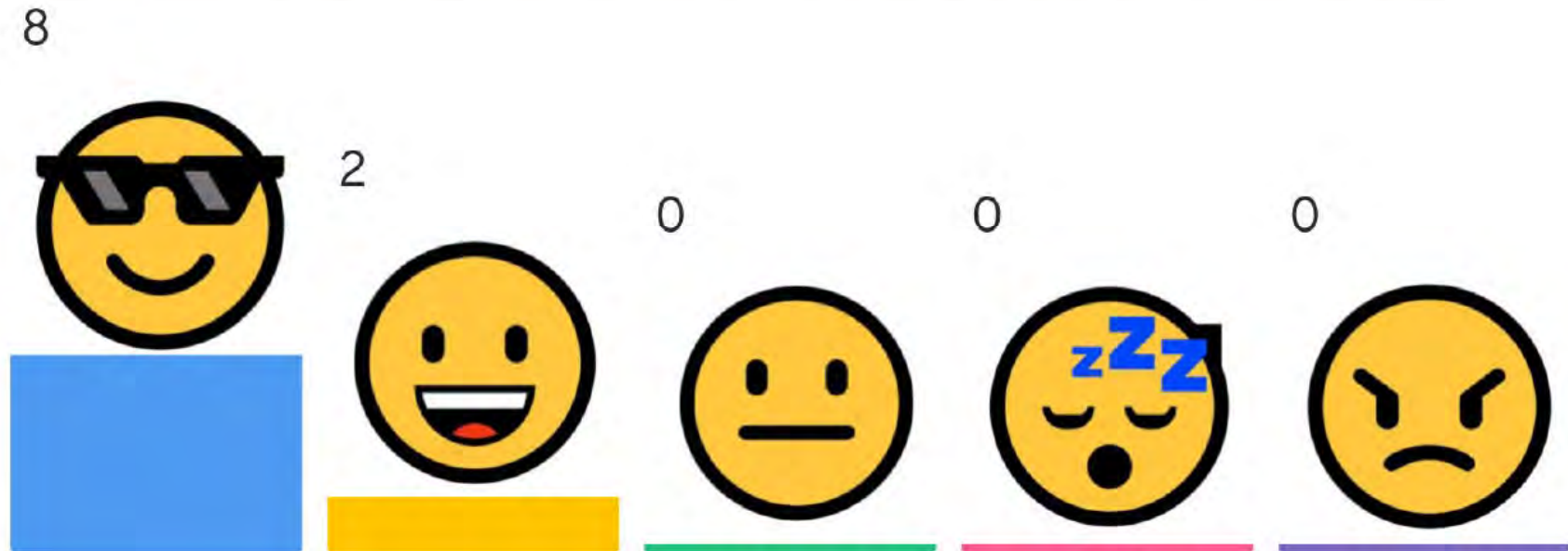
3



12



Which Emoji best represents you today?

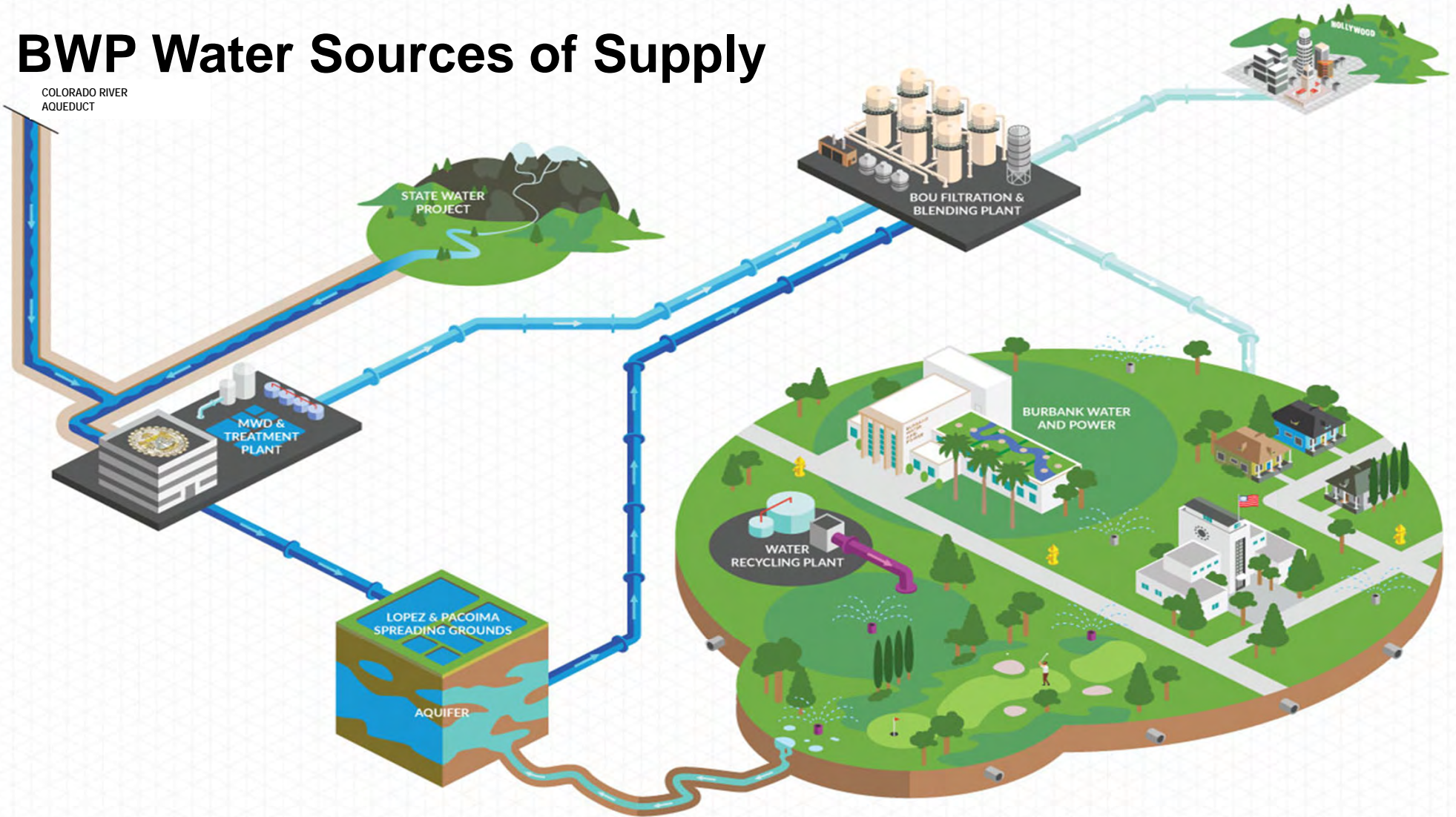


04 Drought Contingency Plan Development



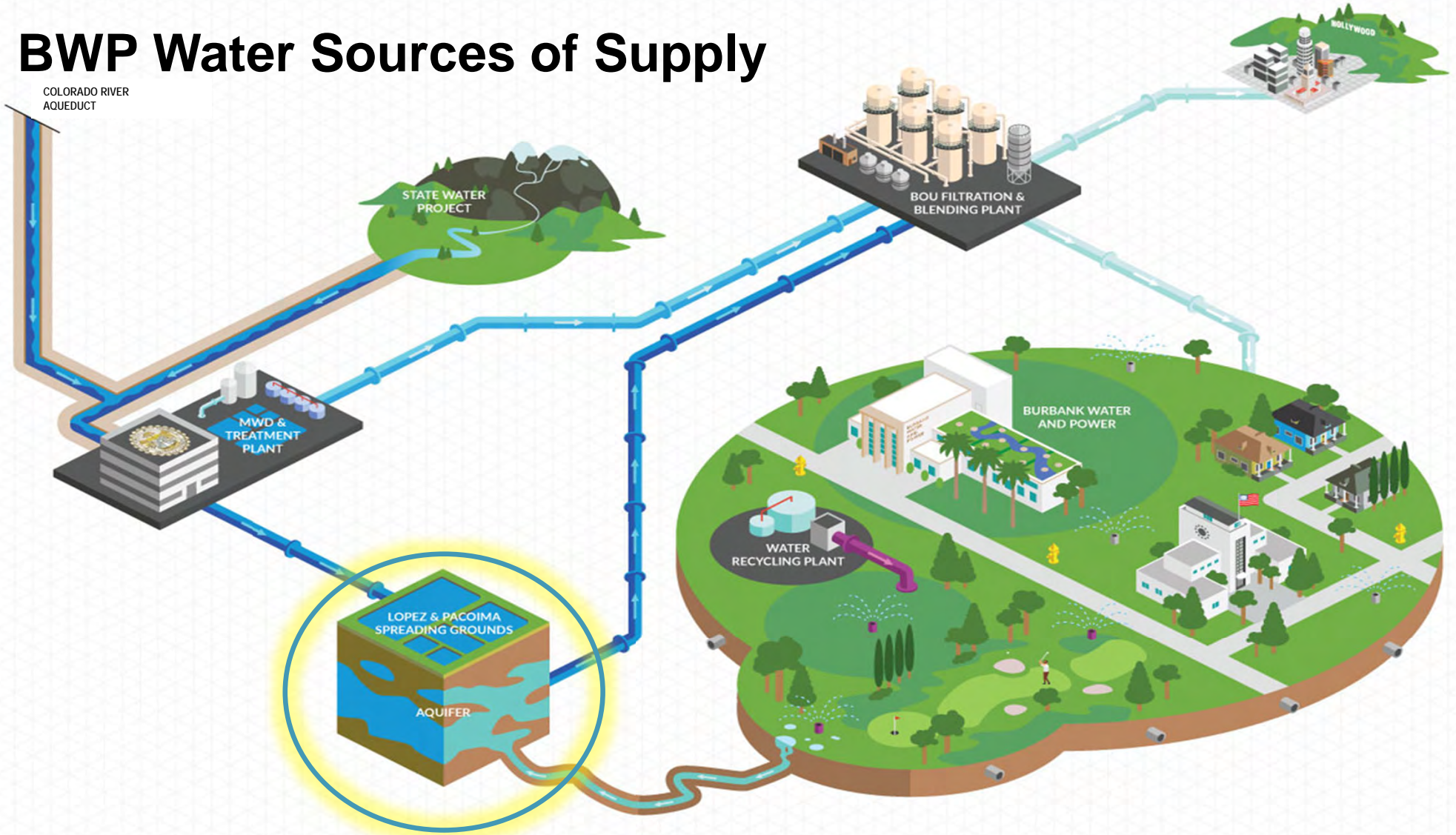
Supply and Demand Summary

BWP Water Sources of Supply



BWP Water Sources of Supply

COLORADO RIVER
AQUEDUCT



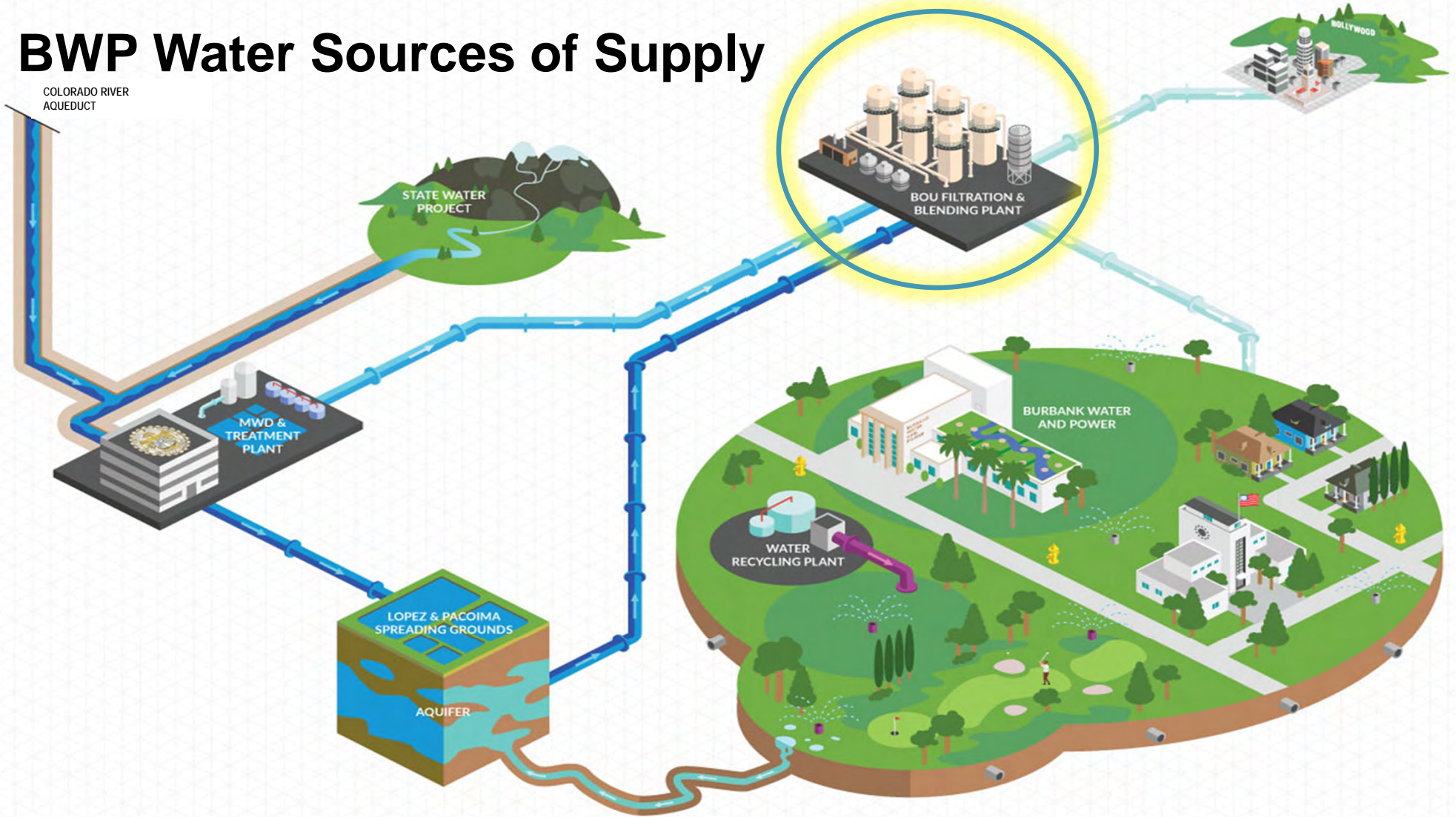
Spreading Grounds



- Spreads approximately 8,000 acre-feet per year in the San Fernando Ground Water Basin
- Spreading used to maintain groundwater inventory
- The Watermaster oversees the recharge and extraction allocations in the Basin

BWP Water Sources of Supply

COLORADO RIVER
AQUEDUCT



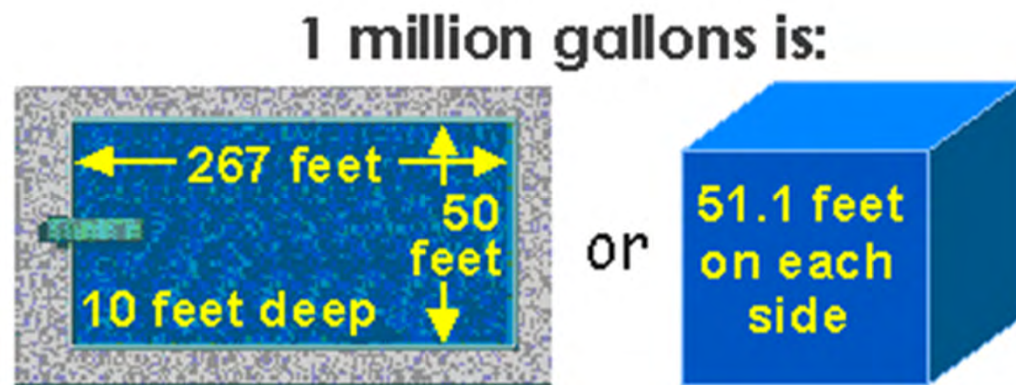
Burbank Operable Unit (BOU)



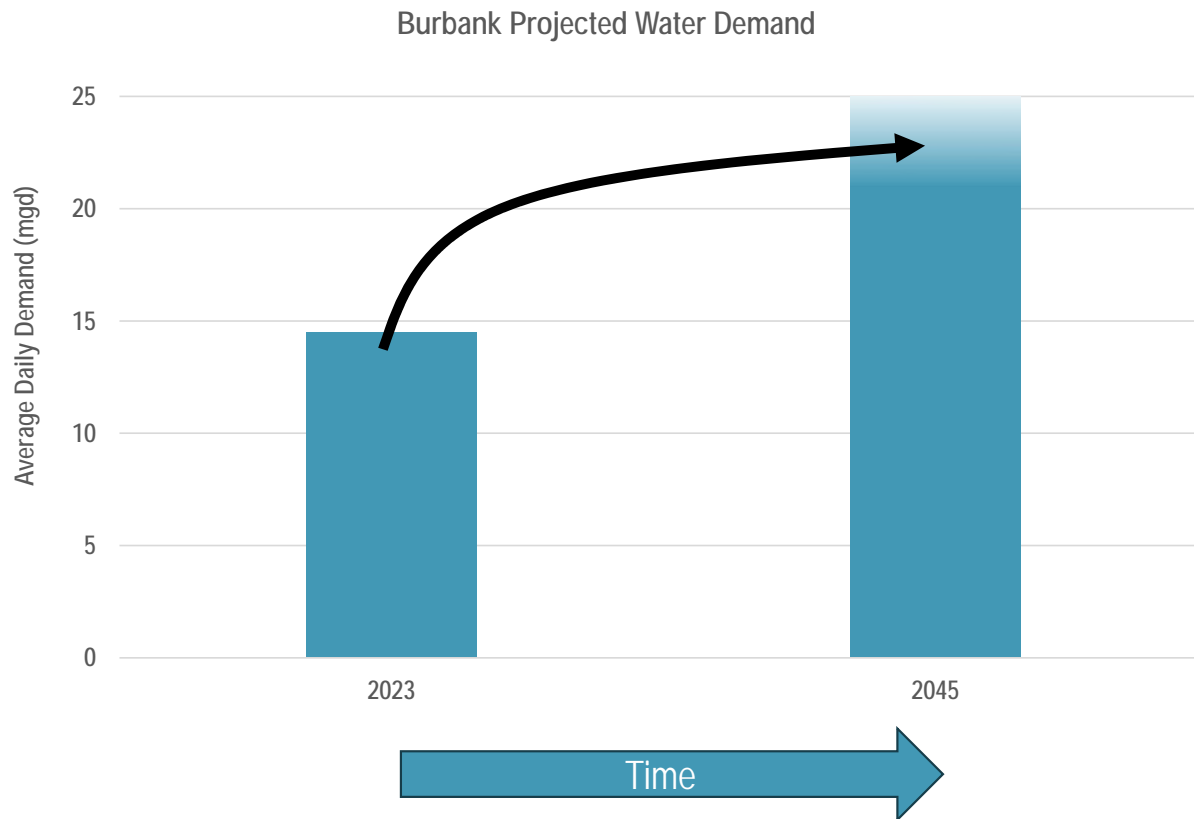
- Important BWP water supply
- Treats the groundwater to remove historical pollutants of concerns
- Water quality meets or exceeds state and federal water quality regulations
- Leverages local supply to reduce strain on imported supply and reduce overall costs

Burbank Water Demand

- 26,800 service connections
- Average demand: 14.5 Million Gallons/Day
- Max day: ~ 21 Million Gallons



BWP Anticipates Increased Water Demand



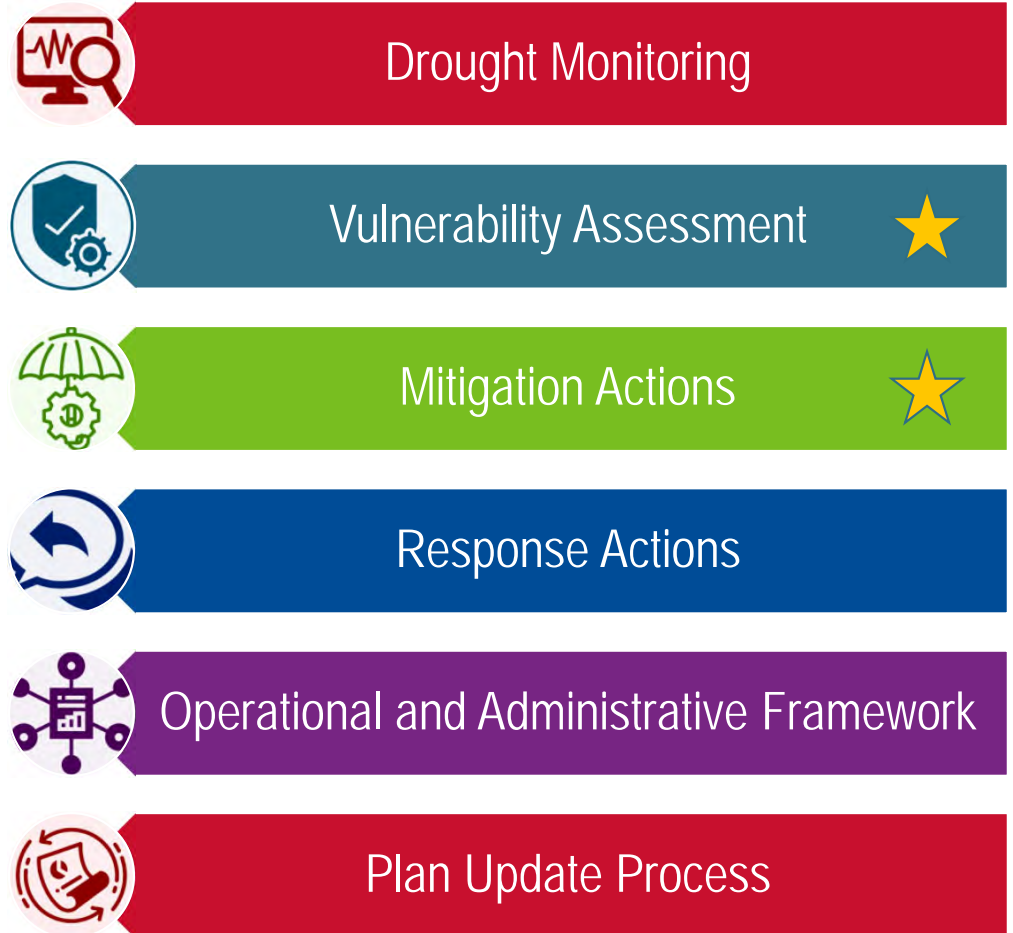
Additional water supply resiliency pressure

- State housing legal requirements
- Projected redevelopment
- The next drought...

Elements of the DCP

 Task Force Focus

Water Supply &
Demand Planning



System Vulnerabilities

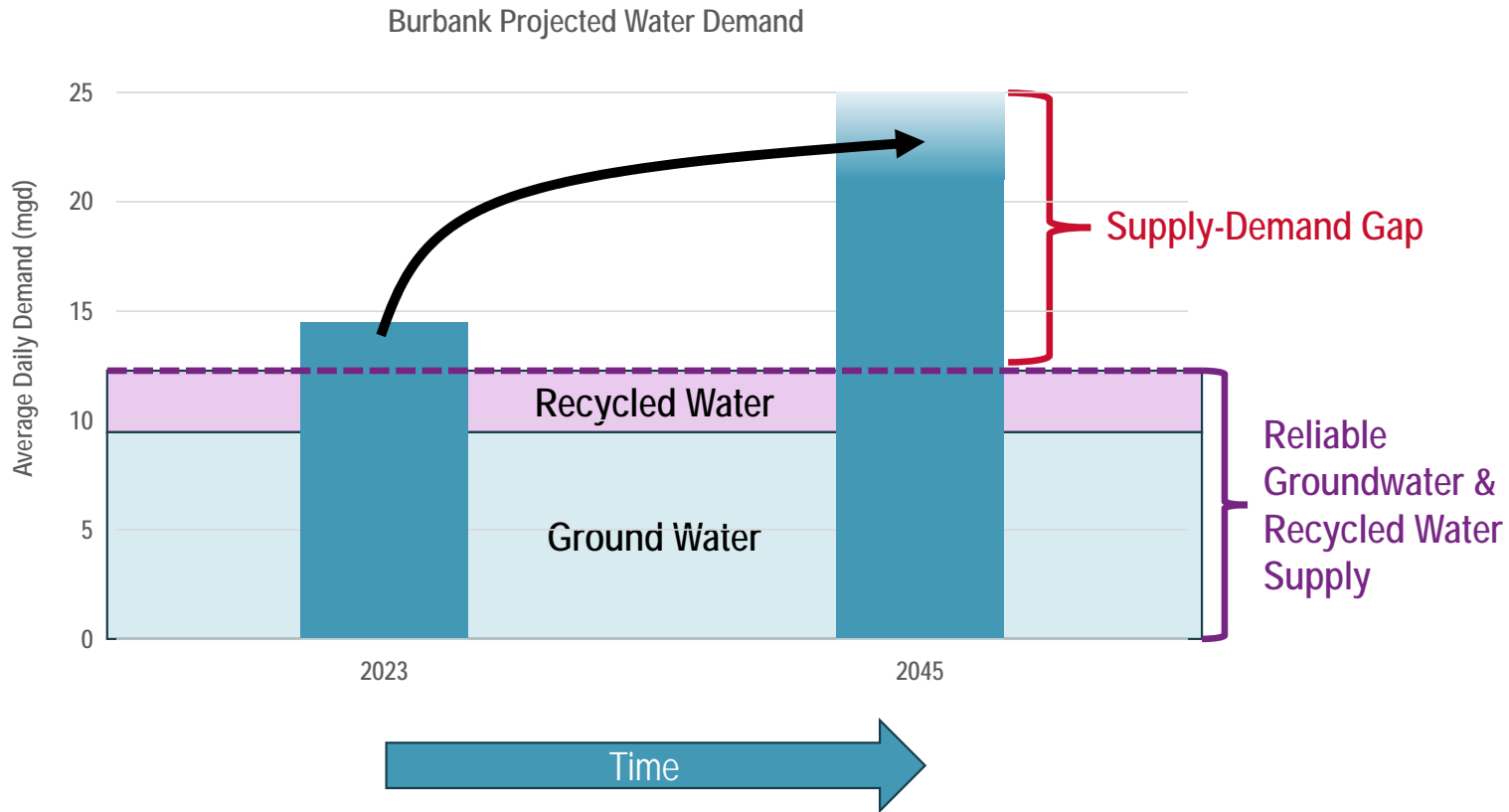
Burbank's Limited Water Supply Portfolio

- Burbank does not have water rights
- Burbank purchases water imported by Metropolitan Water District (MWD)



- BWP “spreads” untreated water onto the ground where it seeps into the aquifer for groundwater credits
- Spreading is restricted by spreading ground availability and flood control prioritization

BWP Anticipates Increased Water Demand



Addressing the Supply – Demand Gap

Gap substantially increases during severe drought conditions

Cost of additional water exceeds current unit supply costs

Survey Question

Go to
www.menti.com

Enter the code

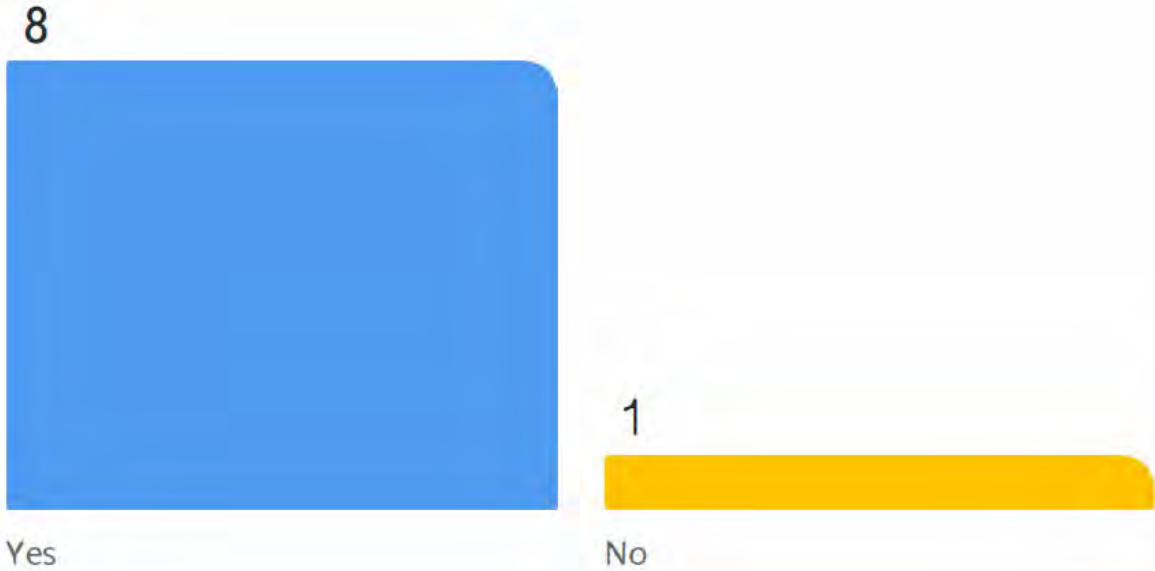
4130 9357



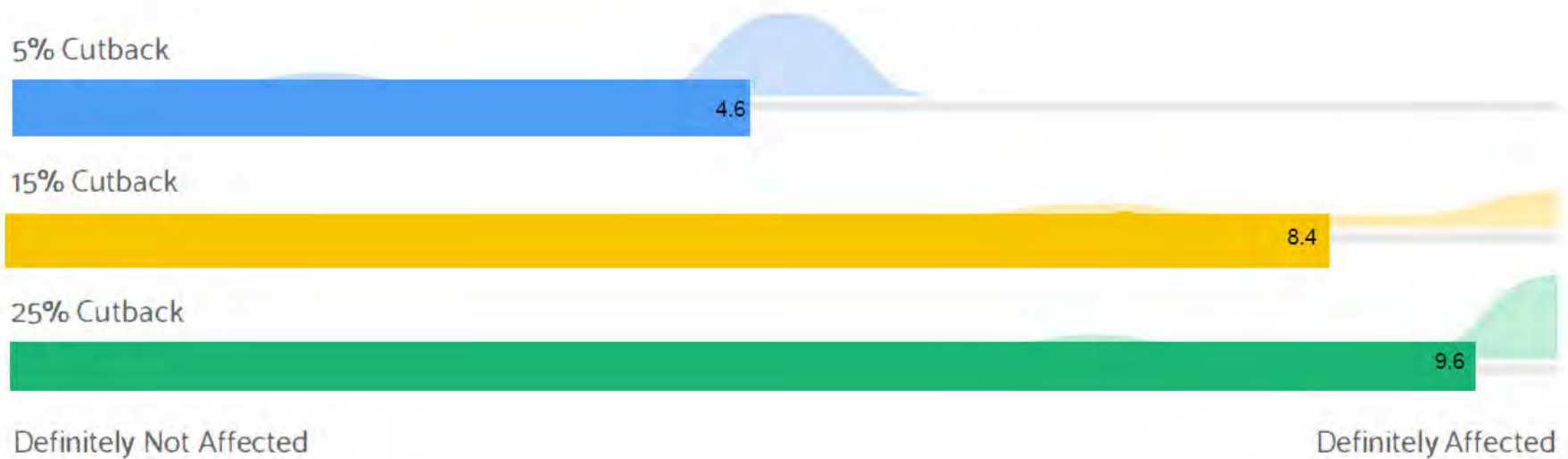
Or use QR code



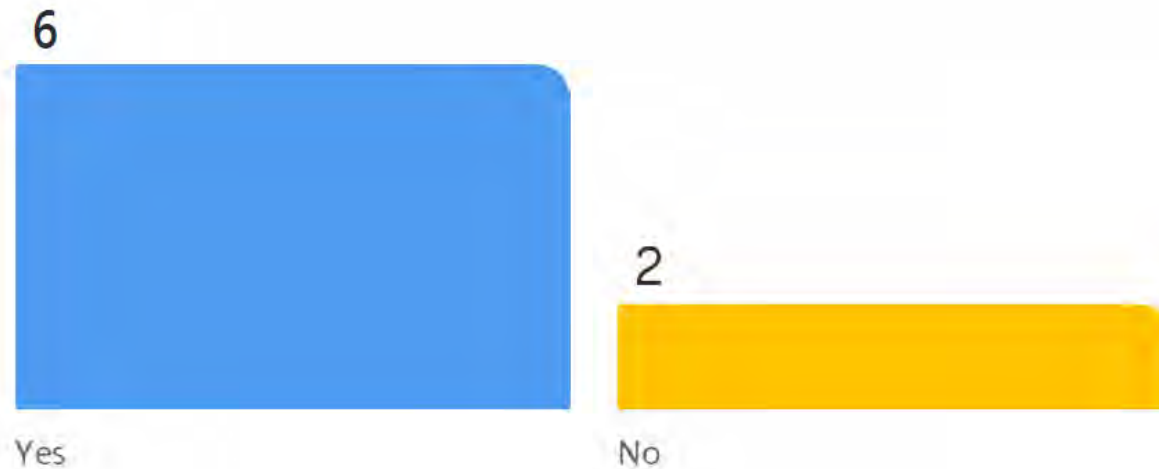
Is your sector affected by water supply restrictions?



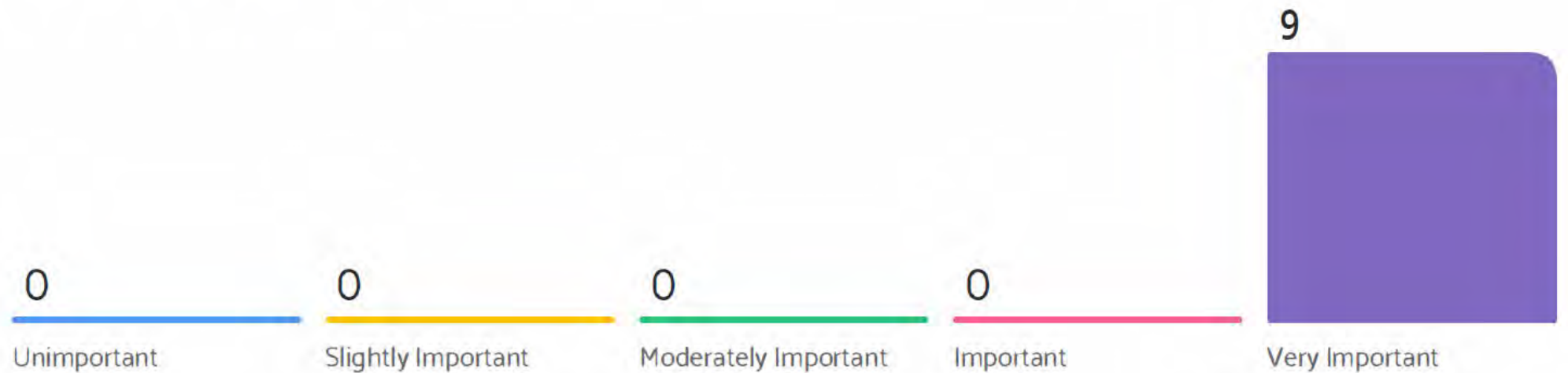
On a scale of [0 - Definitely Not Affected] to [10 - Definitely Affected] would a cutback of X% affect your sector?



Would your sector be willing to pay more for water to eliminate a need for water use restrictions?



How important is local control of our water supply to manage or eliminate water use cutbacks?





Projected Mitigation Measures Status



Mitigation Actions

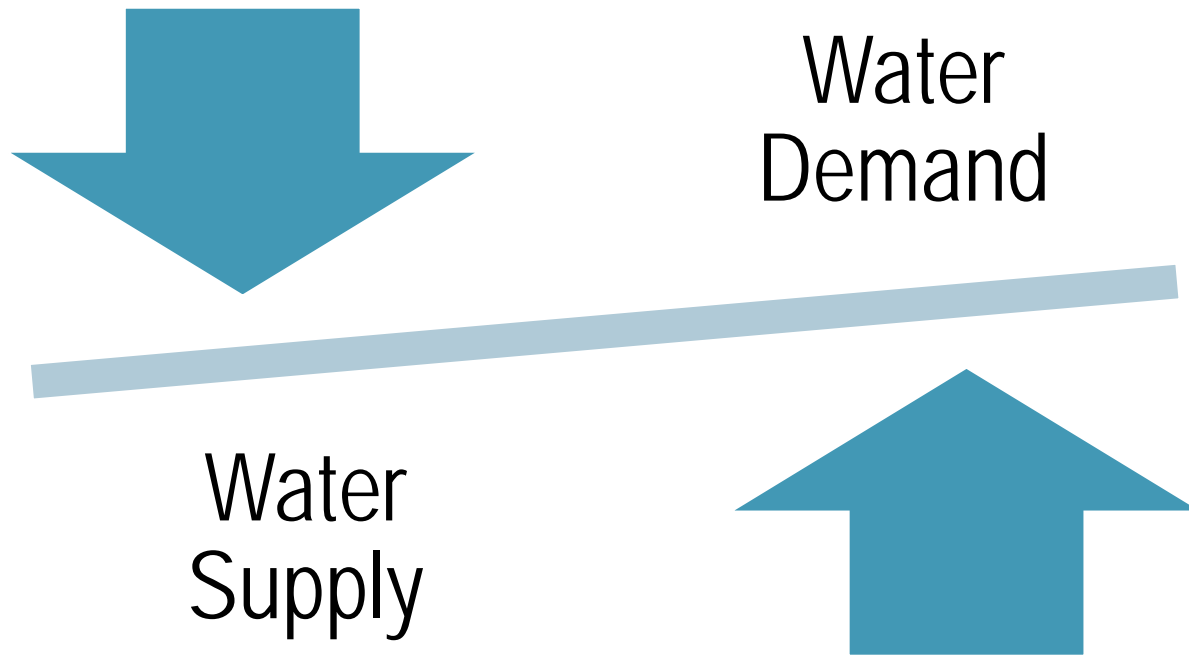
Purpose

The Plan must identify, evaluate, and prioritize mitigation actions and activities that will build long-term resiliency to drought and that will mitigate the risks posed by drought.



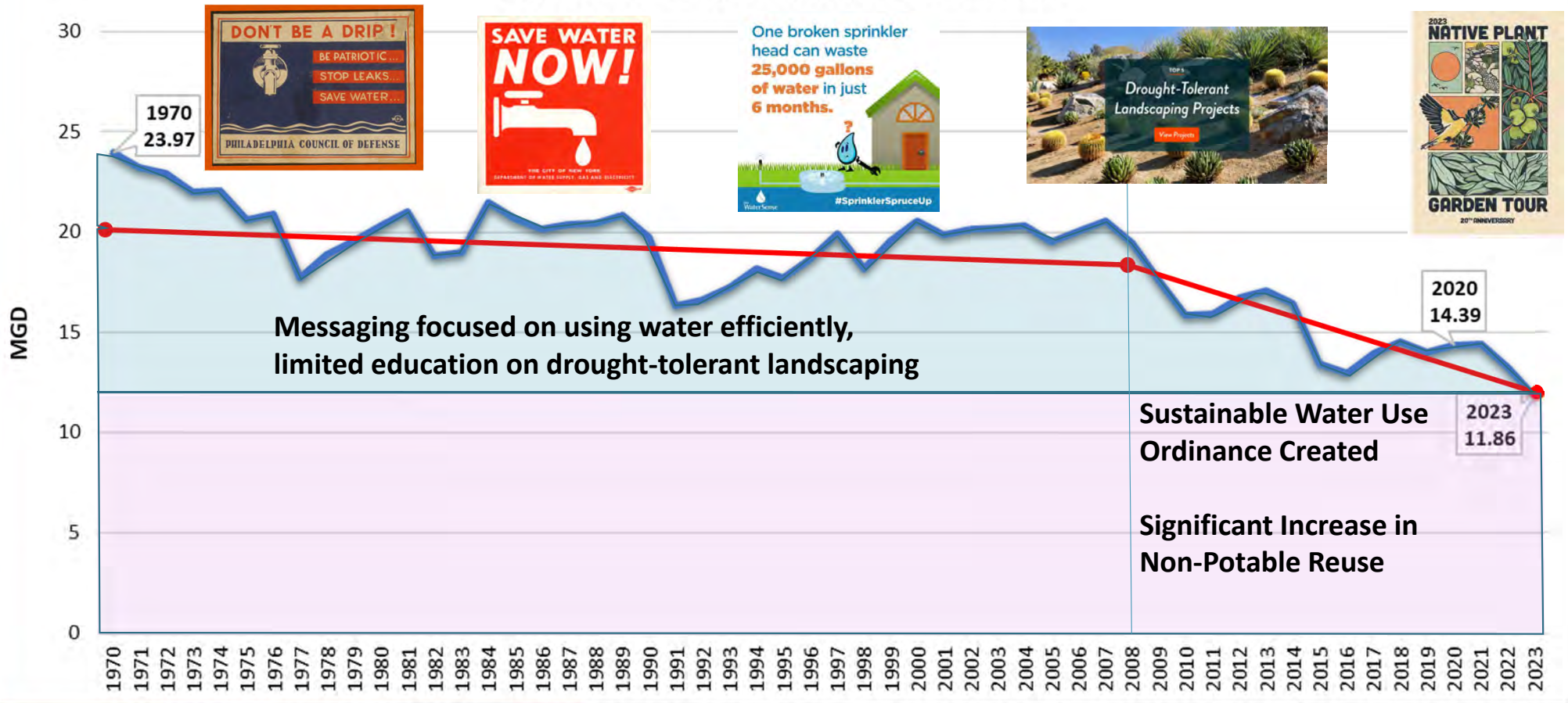
— BUREAU OF —
RECLAMATION

Opportunities to address both supply and demand vulnerability

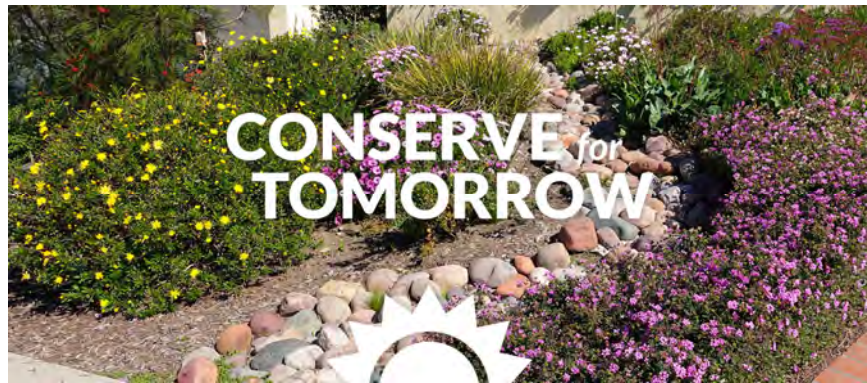


Efficient Water Use Reduces Demands

Burbank Water Demand 1970-2023



What is the Sustainable Water Use Ordinance?



- Six stages
- Maximizing efficient use of water
- Preventing waste
- Enforcement to discourage wasteful use

Survey Question

What best describes your familiarity with the new "Making conservation a California way of life" legislation?



Supply Management: Increase Water Availability

New Water
Supply

BWP pursuing additional
institutional agreements to
provide water exchange
opportunities

Water Reuse

Supply Management: Increase Water Availability

New Water
Supply

BWP pursuing additional institutional agreements to provide on-paper water exchange opportunities

Water Reuse

Defining Water Reuse

Intentional or unintentional use of treated wastewater effluent for several end uses, including, drinking water supply, nonpotable water, managed aquifer recharge, surface water augmentation, or another end use.

Also called "recycled water" or "reclaimed water"

Supply Management: Increase Water Availability

New Water Supply

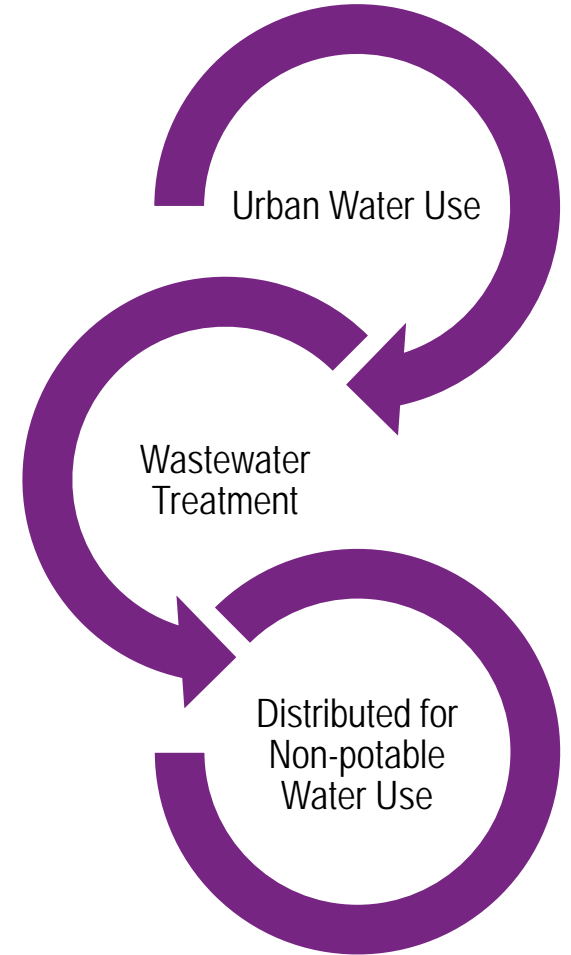
Water Reuse

Non-potable

Current BWP Strategy

Reclaimed water use for irrigation and other non-drinking water uses

Current BWP Program for almost two decades



Supply Management: Increase Water Availability

New Water Supply

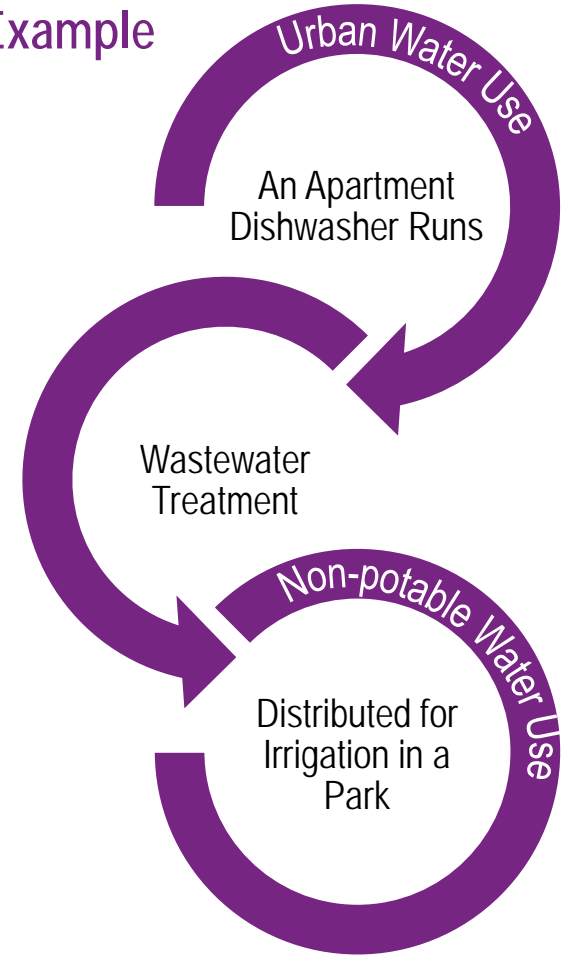
Water Reuse

Non-potable
Current BWP Strategy

Reclaimed water use for irrigation and other non-drinking water uses

Current BWP Program for almost two decades

Example



Supply Management: Increase Water Availability

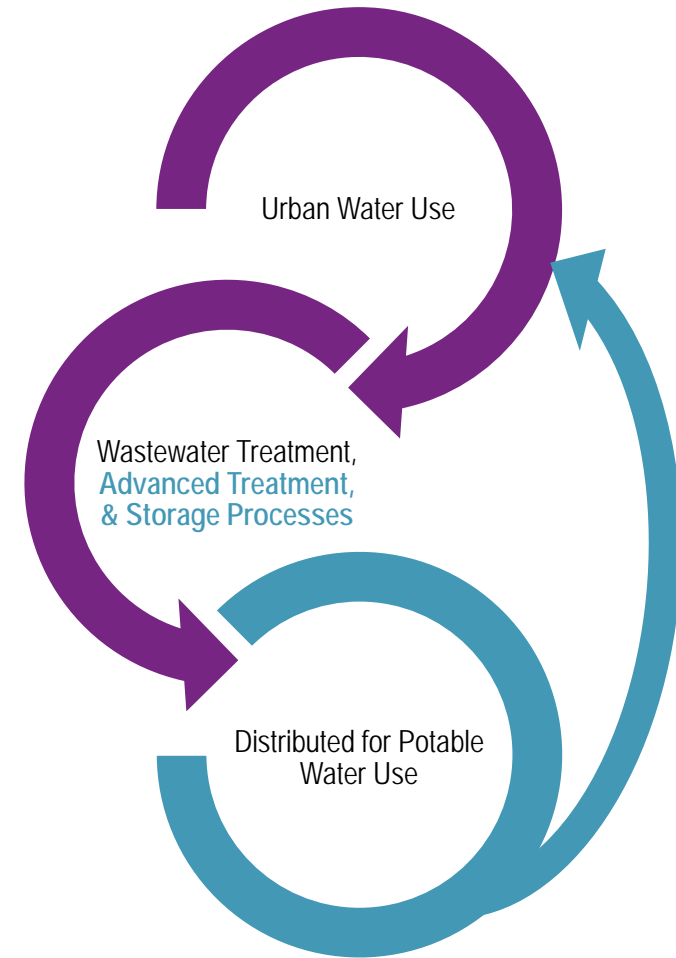
New Water Supply

Water Reuse

Potable

Potential Future BWP Strategy

Key element of a Sustainable One Water Program



Supply Management: Increase Water Availability

New Water Supply

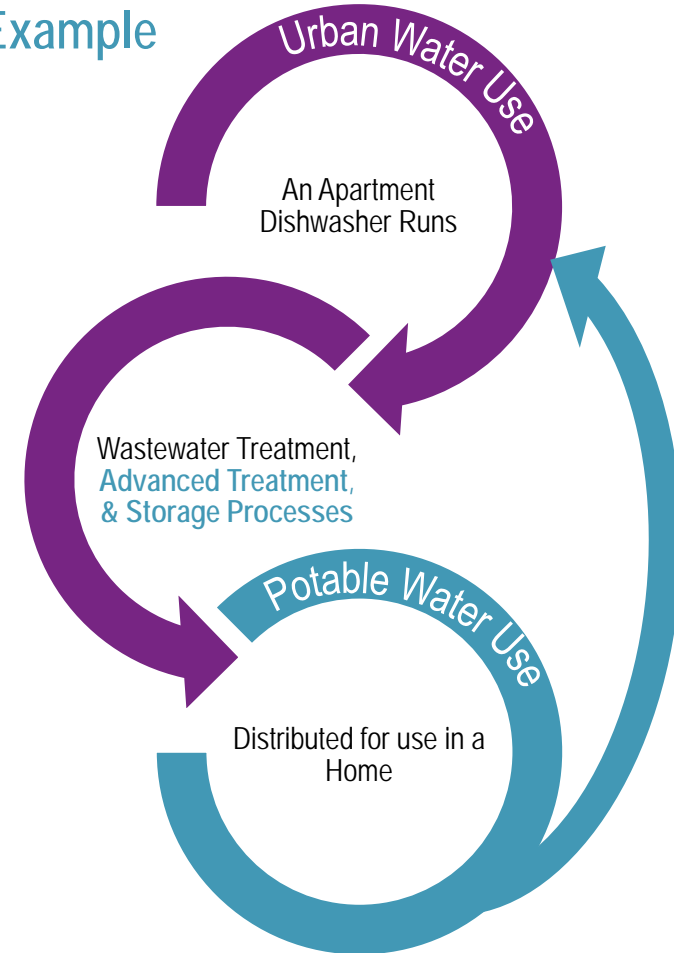
Water Reuse

Potable

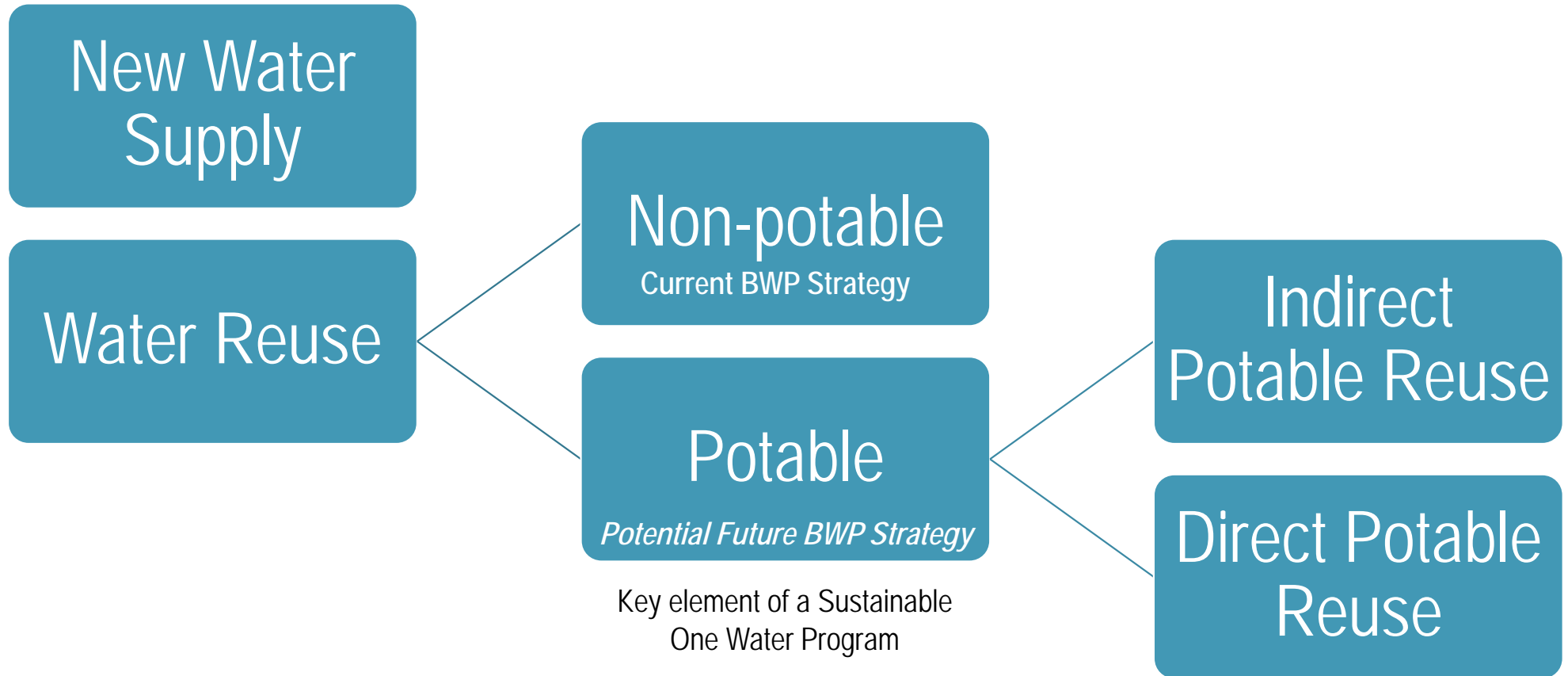
Potential Future BWP Strategy

Key element of a Sustainable One Water Program

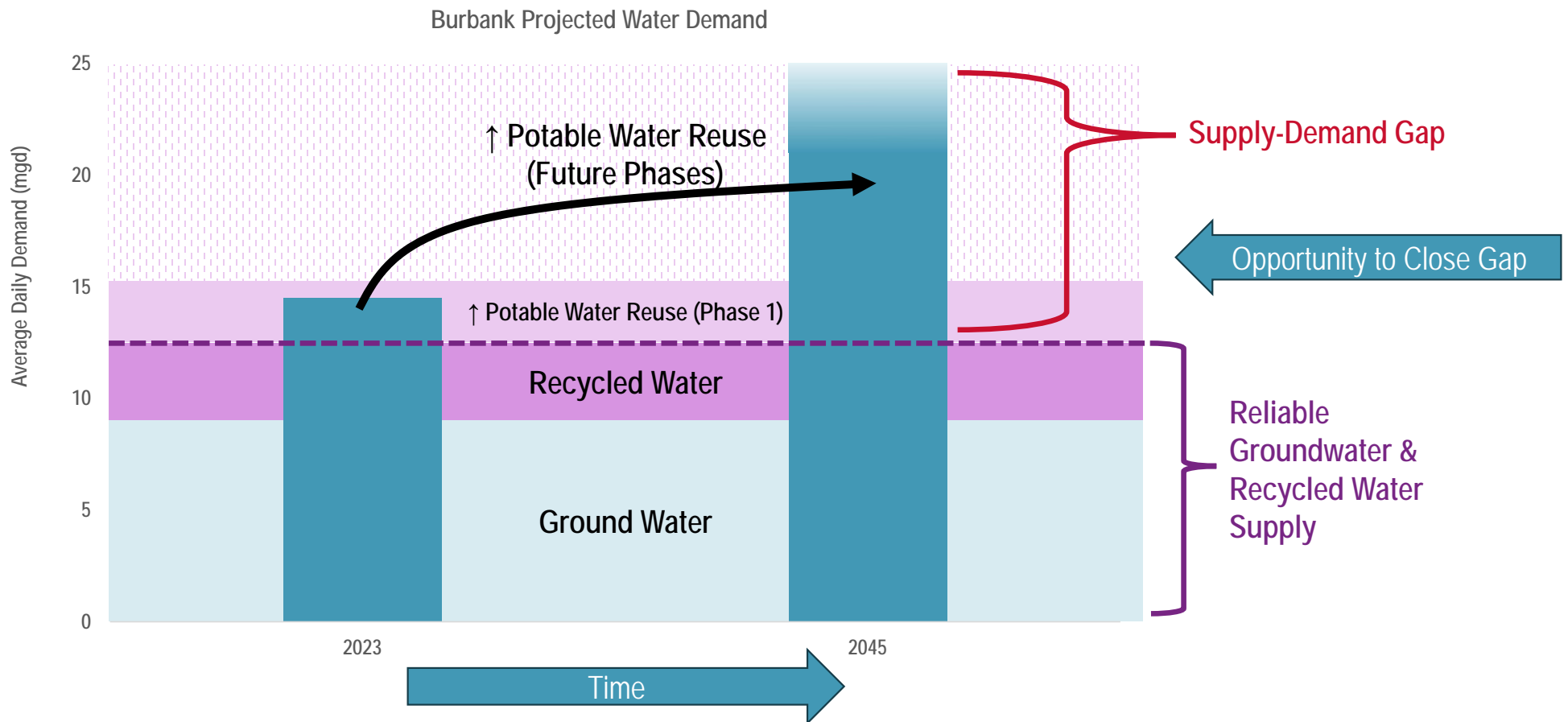
Example



Supply Management: Increase Water Availability

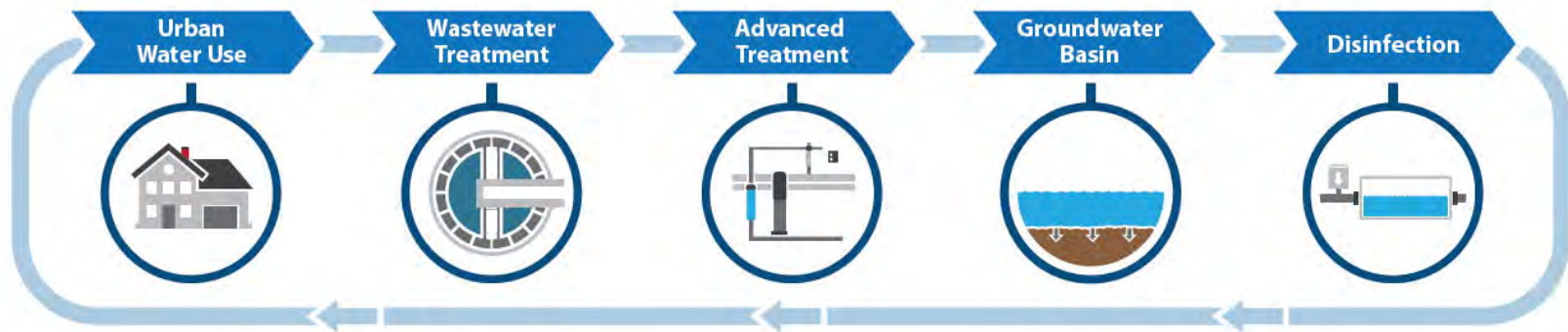


A One Water strategy will maximize Potable Water Reuse to close the projected Supply-Demand Gap



One Water Strategy: Indirect Potable Reuse

1. Groundwater Augmentation

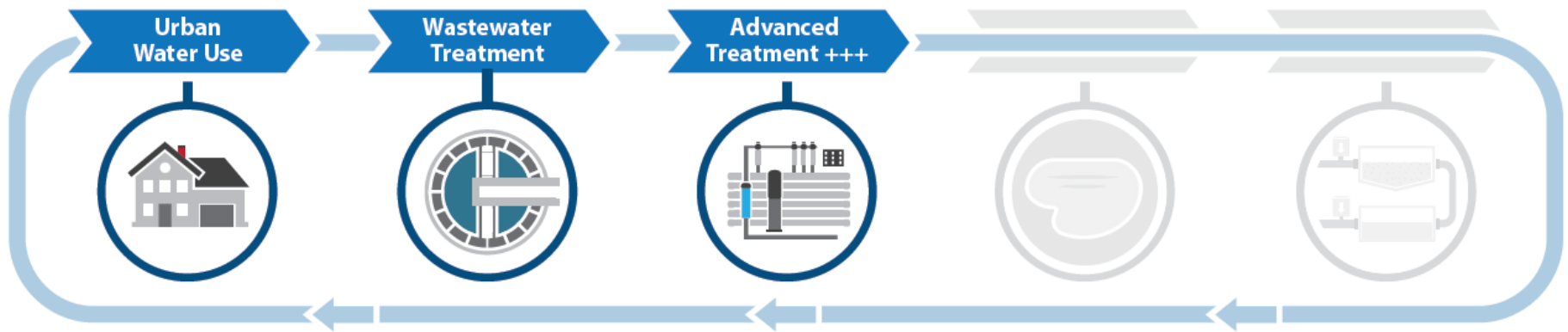


2. Surface Water Augmentation



One Water Strategy: Direct Potable Reuse

Treated Water Augmentation



California Now has Fully Developed Potable Reuse Regulations

2010

Senate Bill 918 requires regulators to assess feasibility of developing DPR regulations

2012

Expert panel convened to determine objectives for DPR

2013

Senate Bill 322 requires regulators to develop a public review draft of DPR report and establishes advisory group to assist expert panel

2014

Groundwater Recharge Regulations finalized

2016

Expert panel confirms DPR feasibility

2017

Assembly Bill 574 requires regulators to develop DPR regulations

2018

DPR Regulatory Framework Edition No. 1 Issued

2019

DPR Regulatory Framework Edition No. 2 Issued

2021

Water Research Foundation DPR-1 and DPR-2 are published for pathogen control

Water Research Foundation DPR-4 is published for chemical control

2023

DPR regulations adopted December 19th

Potable Reuse is Not New to Southern California

Representative Agencies

- LADWP Operation NEXT
- Metropolitan Water District of Southern California
- Las Virgenes Municipal Water District
- Palmdale Water District
- City of Oceanside
- City of San Diego

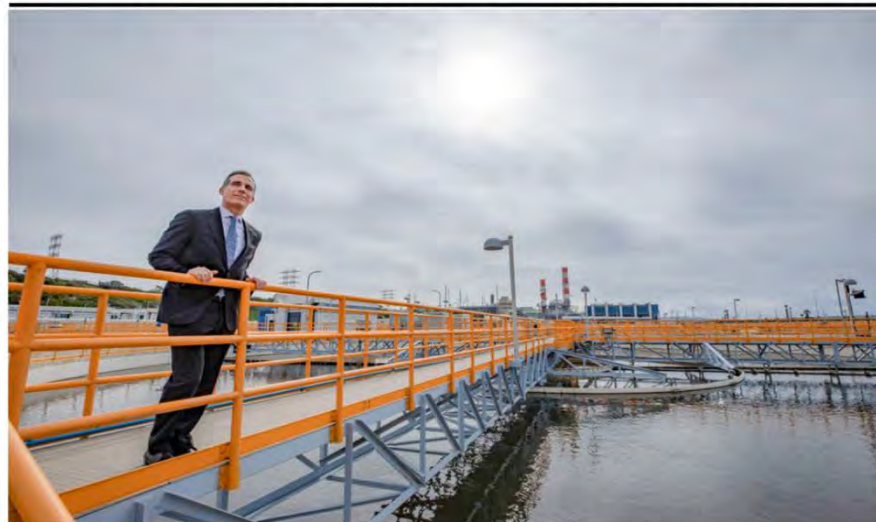
Los Angeles Times

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Tuesday, July 29, 2022

DESIGNATED AREAS 50c

LA Working Towards 100% Water Reuse



**Bold Plan
Announced to
Recycled 100% of
Wastewater**

Times Staff Writer

Today, the City of Los Angeles announced a bold plan to recycle 100 percent of wastewater currently being discharged to the ocean through the Hyperion Wastewater Treatment Plant by 2035. This is a necessary step to help the City ultimately achieve its local water reliability goals.

Supply Management: Evaluating Potable Water Reuse

- BWP has a recognized need for additional water supply
- Pursuing ongoing and future studies to evaluate portfolio alternatives
- Partnering with BoR for additional grant funds to support Potable Reuse Program development
- Cornerstone effort in BWP's Sustainable One Water Program



— BUREAU OF —
RECLAMATION

WTR 11-01

Reclamation Manual Directives and Standards

Subject:	Title XVI Water Reclamation and Reuse Program Feasibility Study Review Process
Purpose:	The purpose of this Directive and Standard (D&S) is to establish requirements and a review process for feasibility studies conducted under the Bureau of Reclamation's Water Reclamation and Reuse (Title XVI) Program. The benefits of this D&S are clear statements of the Title XVI feasibility study report requirements and Reclamation's review procedures leading to a more transparent and consistent Title XVI Program.
Authority:	Reclamation Projects Authorization and Adjustment Act of 1992 – Title XVI Reclamation Wastewater and Groundwater Study and Facilities Act, section 1604 (Feasibility Studies) (Pub. L. 102-575; 43 USC 390h et seq.), as amended
Approving Official:	Director, Office of Program and Policy Services (OPPS)
Contact:	Title XVI Program Manager, Program Support Services Office, 84-52000

Survey Question

Would your stakeholders be comfortable pursuing Potable Reuse if all regulatory and technology requirements were met?



Definitely Not

Definitely

1



9



06 Next Steps and Closing

Opportunities for Engagement

Periodic Meeting Engagements

- Task Force Meeting #4
- Sustainable Burbank Commission Meetings

Ongoing Engagement

- Webpage resources
- Share information with users
- Suggestions for webpage enhancements



Drought Contingency Plan

BWP is developing a WaterSMART grant-funded DCP, focusing on key elements for long-term water

Learn More Online www.burbankwaterandpower.com/water/drought-contingency-plan

The banner features a QR code on the right side and a background image of a person's hand writing on a document against a sunset or sunrise sky.

Upcoming Bill Stuffer

Questions & Comments?

Funded in part by:



