

#### Approaches adopted by Southern California water agencies to overcome current drought conditions



# California's Water Supply: Diverse but Challenged



#### Water Supply Options in CA

- Imported Supplies
- Groundwater
- Stormwater
- Water Transfers
- Desalination
- Water Recycling

### **IEUA Service Area**

- Located in the southwestern portion of San Bernardino County
- 875,000 residents in our service area
- 242 square miles approximately 627 square kilometres



#### **Major Programs**



# First Class Water and Wastewater Operations

#### • Wholesaler of Imported Water

- —Delivers more than 60,000 AF (acrefeet)/ 74,008,800 cubic meters of imported water
- Recycled Water Pioneers One of the First to Develop
  - —Delivers 32,000 AF / 39,471,360 cubic meters of recycled water
  - -More than 850 connections
  - -17% of region's water supply
- Wastewater Treatment
  - Approximately 53 million gallons (MGD)
    / 201 million liters of water per day is received for treatment



FACT: One acre-foot / 1,233 cubic meters is enough water to provide to three families for an entire year.



### **State of the Art IEUA Treatment Facilities**

*Tours available upon request* 



Treatment capacity of 44 million gallons per day of wastewater





Treatment capacity of 11.4 million gallons per day of wastewater





#### **Groundwater Recharge Critical to Local Reliability and Water Quality**

- Enhances water supply reliability and improves drinking water quality throughout the greater Chino Basin
- 18 recharge sites
- Captures runoff from storms, imported water from the State Water Project and high-quality recycled water from IEUA's distribution system
- FY 2020/2021: IEUA recharged 16,253 AF / 20,047,750 cubic meters of recycled water and 4,883 AF / 6,023,083 cubic meters of stormwater/local runoff



Hickory Basin

# Majority of California in Moderate to Severe Drought





#### 12 month SPEI



# IEUA Customers Meet & Exceed the Challenge



5. The historical dry year average is intended to be a representation of dry year demand but may be influenced by operations or conditions that affect the use within particular months or particular years used in the average.

Disclaimer: Data presented is preliminary and subject to change based on monthly reconciled billing data.

### California Water Storage will Still Drop Despite Conservation Efforts



Graphic courtesy of Metropolitan Water District of Southern California

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### **Review of Conservation Actions**

#### **Theme: Reduce Irrigation by 30%**

WUE/Recycling Incentives Drought

Contingency Plan

Possible legislation redefining Law of River

Colorado River MOU\* WUE/Recycling Incentives

Emergency Regulations

Rew HH&S limits

New Regulatory Framework\*\* WUE/Recycling Incentives MWD Resolution Banning CII NFT\* (Item 7-11) Update EWCP? Institute WSCP?

#### For Discussion: - Sign CR MOU

- Resolution Banning CII NFT

- If EWCP updated, IEUA will likely hold public hearing to establish new limits

\* MWD (and IEUA) can strongly recommend that all Member Agencies and local jurisdictions within Metropolitan's service area amend their regulatory codes and ordinances, as appropriate, to implement these principles in a manner consistent with each jurisdiction's legal authority

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#### We All Have to Do More!

- Today, the Chino Basin relies upon imported water from the State Water Project (SWP) for 30% of its water supplies
- Sometimes, drought restrictions limit the amount of water available from the SWP
- What will we rely on when water imports are limited?



### How is IEUA Planning for the Future? Innovative Solutions through Regional Collaboration

Imported Surface Water Storage & Recovery StormWater in Chino Basin POTW Recharge Treatment Desalter **High-Quality** Groundwater Unsaturated Zone (unused storage) Lesser-Quality Groundwater Bedrock

# One Solution to Increase Local Supply Reliability



Imported water from Metropolitan is 30% of water supplies

- State Water Project constrained area
- 2022: 5% allocation
- Subject to environmental flow restrictions

Local need for Advanced Water Purification Facilities (AWPF)

- Wastewater permit compliance by 2030
- Meet Basin Plan commitments
- Opportunity to build infrastructure for future Direct Potable Reuse

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### **Chino Basin Program Increases Reliability, Access, and Water Quality**

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

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#### **Questions?**



