

#### Metropolitan Water District of Southern California Board of Directors

Colorado River Workshop

Items 5 A - C January 17, 2023

## The Colorado River Basin



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# Metropolitan is the Junior Priority User in California

### California Priority System (1931)

- 1. Palo Verde Irrigation District
- 2. Yuma Project
- 3. (a) Imperial Irrigation District
  Coachella Valley Water District
  (b) Palo Verde Irrigation District
- 4. Metropolitan Water District -----→ 0.55 MAF

Total CA Basic Apportionment





# Overview of Metropolitan's Colorado River Supply Programs and Select Agreements

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## 1988 IID-MWD Conservation Program

Duration: 2047, extension to 2077



#### **105,000 AF/year** made available to Metropolitan

#### ~\$120/AF Marginal Cost to Metropolitan

## Program

- IID implements system conservation activities.
  - Reservoirs
  - Canal lining and lateral interceptors
  - Irrigation management and 12-Hour Deliveries
  - System Automation
- Conserved water made available to Metropolitan.
- Metropolitan pays for actual construction, operations, maintenance, repair, and rehabilitation costs

## 2003 SDCWA Exchange

Duration:

- Exchange of IID water – 2047
- Exchange of canal lining water (approx. 77,000 AF) – 2112

#### **277,700 AF/year** made available to Metropolitan

### **N/A** Cost to Metropolitan

## Agreement

- SDCWA pays IID farmers to conserve water
- Metropolitan assigned to SDCWA conserved water from lining the All-American Canal and the Coachella Canal
- SDCWA makes IID and canal lining water available to Metropolitan at Lake Havasu, and in exchange Metropolitan delivers water from any source(s) to SDCWA at its service area connections
- After significant ramp up period, volume is fixed
- SDCWA pays Metropolitan a per-acre-foot price for delivered exchange water

# 2005 PVID Fallowing

- 35-year Program
- (2005-2040)



## 25,000 - 125,000 AF/year

made available to Metropolitan

## Program

- Metropolitan pays PVID farmers to fallow land
- Variable Fallowing Call
  - Between 25% and 90% of program lands
  - Two-year call with one year advance notice
  - Program year is August 1 July 31
- Two Cost components
  - Up-Front payment tied to maximum acres enrolled (\$74M)
  - Annual payments tied to acres fallowed
- Additional \$6M to a Community Improvement Fund

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~\$215/AF

Marginal Cost to

**Metropolitan** 

## Quechan Forbearance Agreement

 Duration: Renew or optout in 2035



#### ~6,500 AF/year made available to Metropolitan

# **\$181/AF Diversion**

Cost to Metropolitan

## Program

- Based on 2005 Settlement Agreement related to Arizona v. California
- Quechan Tribe Forbears diversion of up to 13,000 AF/year
  - This is what Metropolitan makes payments on
- The portion of water the Tribe would have used on a consumptive use basis is ~50% of diversions.
  - This water comes to Metropolitan.

2007 Lower Colorado Water Supply Project

 Duration: 50 years + 50year option

#### ~9,000 AF/year made available to Metropolitan

### **\$258/AF** Cost to Metropolitan

## Program

- Groundwater pumped into the AAC and IID Forbears an equivalent amount on the Colorado River
- Water made available to persons or non-Federal governmental agencies whose lands are adjacent to the CR but do not hold rights to Colorado River Water
  - e.g. City of Needles, individual families
- Metropolitan pays for unused capacity in the Lower Colorado Water Supply Project

## San Luis Rey Exchange

- Agreement executed in 2003
- Delivery of exchange water began in 2017
- Duration: Lifespan of the All-American Canal and Coachella Canal

#### **16,000 AF/year** made available to Metropolitan

### **N/A** Cost to Metropolitan

## Agreement

- All American Canal and Coachella Canal Lining Project water made available to the San Luis Rey Settlement Parties.
- The water is exchanged with US and then provided to SDCWA for deliver to the Settlement Parties.
- USBR pays Metropolitan a per-acre-foot price for delivered exchange water

2020 Bard Seasonal Fallowing Program

• Duration: 2020-2026



#### **Up to 6,000 AF/year** made available to Metropolitan

### **\$240/AF** Cost to Metropolitan

## Program

- Seasonal Fallowing from April 1st July 31st
- Maximum enrollment is 3,000 acres
- Fallowing call made by Oct 1 the previous year
- Voluntary enrollment leads to variable volume
- Requirements
  - At least 10 contiguous irrigable acres
  - Have been farmed for at least three of the last five years / previously fallowed

2022 Quechan Seasonal Fallowing Program Pilot Program

• Duration: 2022 - 2023



#### **Up to 3,500 AF/year** made available to Metropolitan

### **\$240/AF** Cost to Metropolitan

## Program

- Seasonal Fallowing from April 1st July 31st
- Maximum enrollment is 1,600 acres
- Fallowing call made by Oct 1 the previous year
- Voluntary enrollment leads to variable volume
- Requirements
  - Have been farmed for at least three of the last five years / previously fallowed
  - Must be Quechan tribal land



# Managing Colorado River Supplies

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## Intentionally Created Surplus (ICS)

Storage Program Duration: 2006 - 2026



#### **Up to 400,000 AF** Annual Put Capacity\* Annual Take Capacity\*\*

\*less creation by IID which is capped at 25,000 AF \*\*less take by IID which is capped at 50,000 AF



Estimated end of 2022 Balance

- Ability to store water in Lake Mead. ICS may be created using a variety of approved measures within the four established ICS categories:
  - 1) Extraordinary Conservation ICS,
  - 2) Tributary Conservation ICS,
  - 3) System Efficiency ICS,
  - 4) Imported ICS
- Benefits:
  - DCP contributions in lieu of reduced deliveries
  - Augmenting CRA supplies
- Limitations on delivery start at elevation 1,045'

## Partnerships with States and Mexico

- Investments to create additional ICS
- Partnering agencies include SNWA, CAWCD, and Mexico

<u>Brock Reservoir</u> 100,000 AF ICS for Metropolitan Yuma Desalter 24,397 AF ICS for Metropolitan

122,000 AF Currently Available (subset of total ICS)

Minute 319 23,750 AF ICS for Metropolitan <u>Minute 323</u> 9,092 AF ICS for Metropolitan to date (27,275 AF over the Minute)

## Storing Water for IID

#### Up to 25,000 AF Made available to MWD in 2022

#### **N/A** Cost to Metropolitan

## Metropolitan provides for storing excess conservation for IID

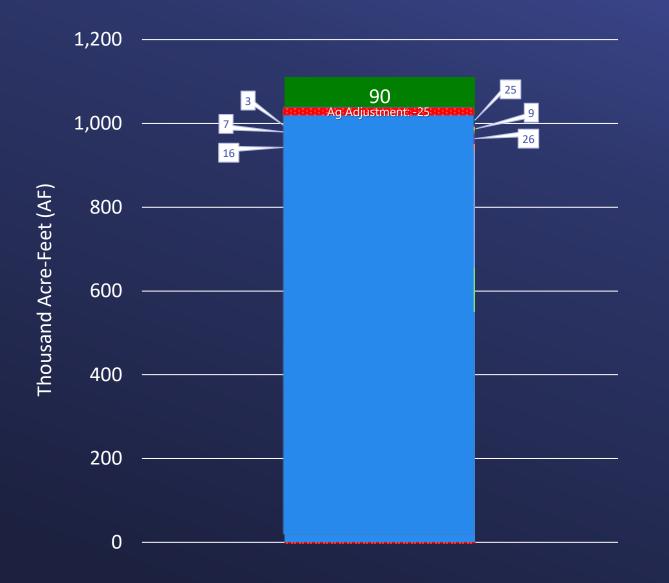
- California ICS Agreement
- Amendment #1 to the California ICS Agreement
- 2021 Settlement Agreement
- Current return amount: ~276,000 AF.

# Managing Colorado River Supplies Through Reclamation



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# 2022 CRA Delivery (Estimated)



#### Total Deliveries: 1.129 MAF

- Intentionally Created Surplus
- Agricultural Adjustment (est.) (~ -25,000)
- IID ICS Sub-Account
- Quechan Seasonal Fallowing Program (Too Small to see)
- Bard Fallowing Program
- Lower Colorado Water Supply Project
- Quechan Forberance
- PVID Fallowing Program
- Canal Lining to San Luis Rey
- SDCWA Exchange (IID Transfer and Canal Lining)
- IID-MWD Conservation
- Basic Apportionment



## Overview of the Supplemental Environmental Impact Statement Process

January 17, 2023

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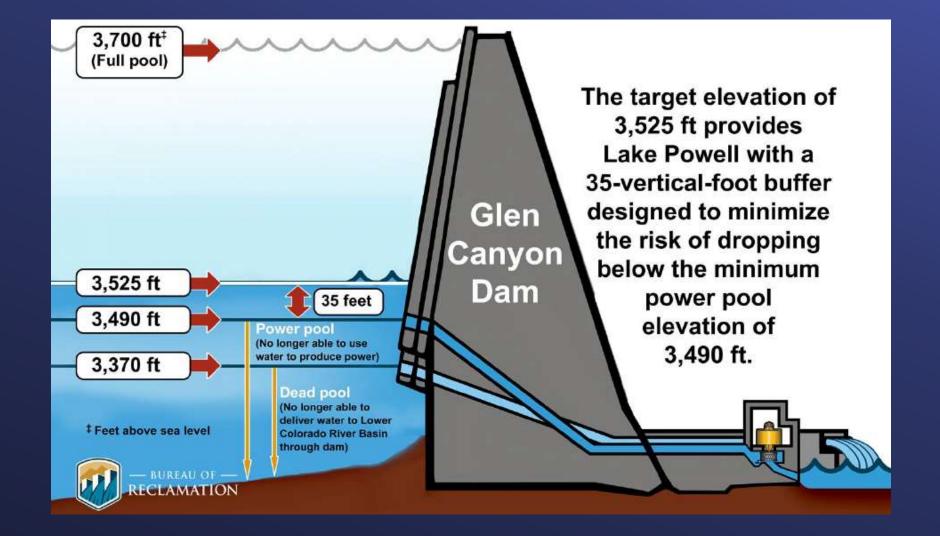
Rules for Operation of Lake Powell & Lake Mead

Under the Boulder Canyon Project Act, the Secretary of the Interior is the River Master in the Lower Basin

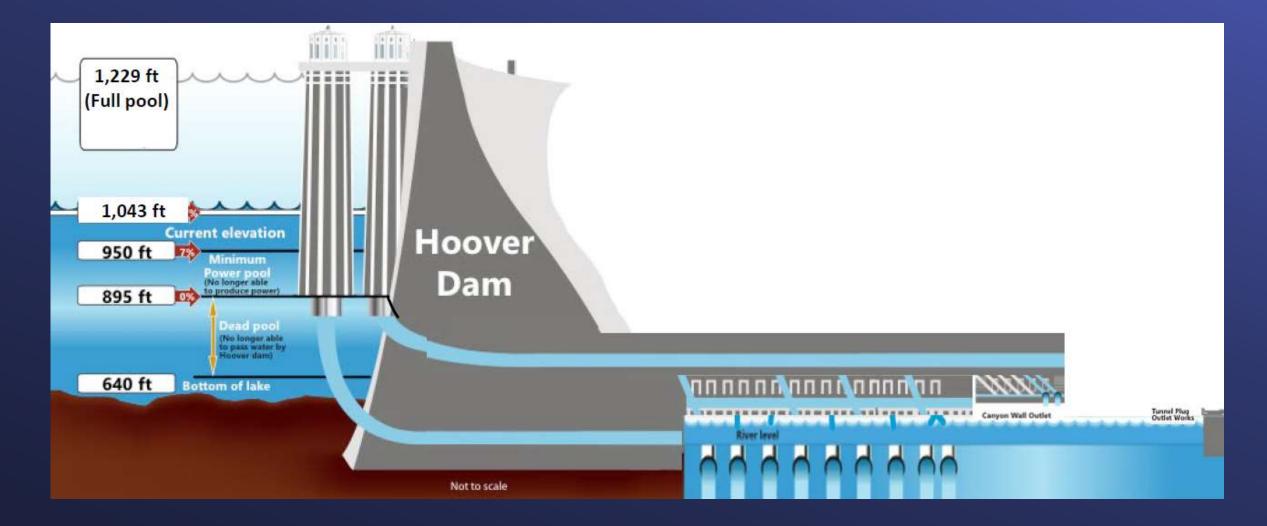
# 2007 Interim Guidelines

- Defined coordinated operation of Lake Powell and Lake Mead;
- Determined when Shortages would be taken in the Lower Division States (Arizona, California and Nevada);
- Established Intentionally Created Surplus storage in Lake Mead
- Effective 2007-2025

# Lake Powell Key Elevations



# Lake Mead Key Elevations



#### U.S. Bureau of Reclamation Announcement

Notice of Intent to prepare a Supplemental Environmental Impact Statement (SEIS)

## 2007 Interim Guidelines Revisions

Possible changes to operations of Glen Canyon and Hoover Dams in 2023-24 to address impacts of low runoff conditions that pose unacceptable risks to operations of dams. <u>Revisions may include:</u>

### • Reduced annual releases from Glen Canyon Dam;

• Changes to shortages and decrease in quantity of water for Arizona, Nevada and California.

## Anticipated Alternatives

Public comments on scoping were due December 20, 2022

# Three Primary Alternatives

- Framework Agreement consensus-based actions that build on States, Tribes and NGO's commitments in 2019 Drought Contingency Plan
- Reservoir Operations Reclamation alternative to mitigate risks to Colorado River System reservoirs if consensus alternative isn't reached or is insufficient
- No Action Alternative

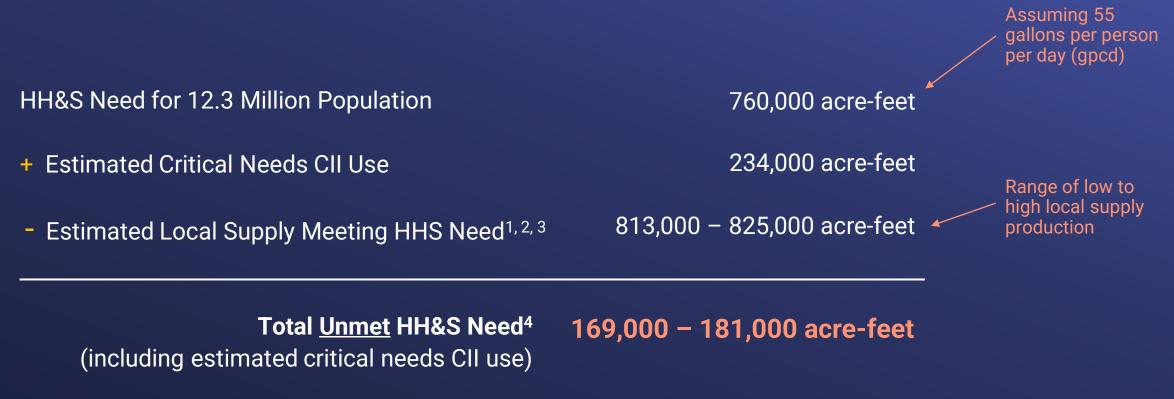
### Metropolitan's Scoping Comments

Metropolitan submitted a scoping comment letter and joined a 3-agency letter with the Southern Nevada Water Authority and Central Arizona Project

# Strategic Priorities for SEIS Process

- Protect stored Intentionally Created Surplus
- Provide for public health, safety and welfare (HHS) storage and deliveries
- Reduce water deliveries to protect infrastructure
- Modifications to operations of Lake Powell and improvements to Glen Canyon Dam

# Colorado River Unmet Human Health & Safety Needs



<sup>1.</sup> In this calculation, each agency's local supply was capped at their agency level HHS need because excess local supply from one agency cannot be used to meet unmet HHS demands of another agency

- <sup>2.</sup> Does not include SWP supplies that could be available for blending
- <sup>3.</sup> Includes the SDCWA exchange supply

<sup>4</sup> Does not include using SWP water to meet CR unmet HH&S need

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## Status of Current Discussions

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#### Colorado River

## Basin State Principals

Each of the seven signatory state's Governors appoints a representative pursuant to Art. V Colorado River Compact

## Governor's Representatives

- Arizona
- Nevada
- California
- Wyoming
- Colorado Rebecca Mitchell

Tom Buschatzke

John Entsminger

Brandon Gebhart

JB Hamby

- New Mexico Estevan Lopez
- Utah Gene Shawcroft

# Colorado River Board of California



#### Mission

To represent California in discussions among the federal government, Colorado River Basin States, Mexico, Tribes, and other in development, implementation, and management of programs to protect California's use of, and rights to, Colorado River water and hydropower resources.

#### **Board Members**

- Coachella Valley Water District
- Imperial Irrigation District
- Los Angeles Department of Water and Power
- The Metropolitan Water District of Southern California
- Palo Verde Irrigation District
- San Diego County Water Authority
- DWR & DFW representatives
- Two At-Large public members

Consensus Framework Agreement Alternative Development

Work on a Consensus Framework Agreement Alternative will continue through January

# Example of Options Being Evaluated

Southern Nevada Water Authority (SNWA) alternative:

- Protect stored ICS
- Provide for storage and delivery of HHS water
- Assess system and evaporative losses
- Increase Shortage volumes
- Trigger DCP Contributions at higher lake elevations
- Reduce Lake Powell releases at most elevations

#### Next Steps

SEIS and

Post-2026

**Operations** 

The SEIS and development of the next set of operational <u>guidelines</u> are separate

#### SEIS

- January: Develop SEIS alternatives
- Spring: Draft SEIS for public comment
- Summer:
  - Final SEIS and Record of Decision (ROD)
  - Board authorizations
- CY 2024: Implement new ROD, as needed

#### Post-2026 Operations

- September 2022: Pre-scoping comments
- Early 2023: Notice of Intent to prepare environmental impact statement

processes

## 2022 Inflation Reduction Act

# \$4 Billion for Drought Relief in the West

- Majority for the Colorado River Basin
- First round of proposals were due December 20th, 2022
- MWD submitted two joint proposals
  - PVID
  - Bard
- USBR is currently evaluating the 32 proposals that were received.
  - Volumes unknown

Upcoming Board Information /Action



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# Board Discussion

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