

# The Metropolitan Water District of Southern California

# Agenda

The mission of the Metropolitan Water District of Southern California is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

## **WP&S Committee**

R. Atwater, Chair  
C. Kurtz, Vice Chair  
J. Abdo  
L. Ackerman  
G. Cordero  
D. De Jesus  
L. Dick  
S. Goldberg  
R. Lefevre  
M. Luna  
C. Miller  
J. Morris  
M. Petersen  
G. Peterson  
B. Pressman  
R. Record

## **Water Planning and Stewardship Committee**

Meeting with Board of Directors \*

**July 12, 2022**

**1:30 p.m.**

Teleconference meetings will continue until further notice. Live streaming is available for all board and committee meetings on [mwdh2o.com](https://mwdh2o.com) ([Click Here](#))

A listen only phone line is also available at 1-877-853-5257; enter meeting ID: 831 5177 2466. Members of the public may present their comments to the Board on matters within their jurisdiction as listed on the agenda via teleconference only. To participate call (833) 548-0276 and enter meeting ID: 815 2066 4276.

## **Tuesday, July 12, 2022 Meeting Schedule**

9:30 am - E&O  
10:30 am - RP&AM  
11:00 am - OP&T  
12:00 pm - L&C  
1:00 pm - C&L  
1:30 pm - WP&S  
3:00 pm - BOD

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MWD Headquarters Building • 700 N. Alameda Street • Los Angeles, CA 90012

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\* The Metropolitan Water District's meeting of this Committee is noticed as a joint committee meeting with the Board of Directors for the purpose of compliance with the Brown Act. Members of the Board who are not assigned to this Committee may participate as members of the Board, whether or not a quorum of the Board is present. In order to preserve the function of the committee as advisory to the Board, members of the Board who are not assigned to this Committee will not vote on matters before this Committee.

## **1. Opportunity for members of the public to address the committee on matters within the committee's jurisdiction (As required by Gov. Code Section 54954.3(a))**

### **\*\* CONSENT CALENDAR ITEMS -- ACTION \*\***

## **2. CONSENT CALENDAR OTHER ITEMS - ACTION**

- A. Approval of the Minutes of the Meeting of the Bay-Delta Committee held January 25, 2022 and Water Planning and Stewardship Committee held June 13, 2022

[21-1320](#)

**Attachments:** [07122022 WPS 2A-1 Minutes](#)  
[07122022 WPS 2A-2 Minutes](#)

## **3. CONSENT CALENDAR ITEMS - ACTION**

NONE

**\*\* END OF CONSENT CALENDAR ITEMS \*\***

**4. OTHER BOARD ITEMS - ACTION**

NONE

**5. BOARD INFORMATION ITEMS**

NONE

**6. COMMITTEE ITEMS**

- a. Update on Water Surplus and Drought Management and Water Shortage Emergency Condition [21-1324](#)

**Attachments:** [07122022 WPS 6a Report](#)  
[07122022 WPS 6a Presentation](#)

**7. MANAGEMENT REPORTS**

- a. Colorado River Manager's Report [21-1321](#)

**Attachments:** [07112022 WPS 7a Report](#)

- b. Bay-Delta Manager's Report [21-1322](#)

**Attachments:** [07112022 WPS 7b Report](#)

- c. Water Resources Management Manager's Report [21-1323](#)

**Attachments:** [07122022 WPS 7c Presentation](#)

**8. FOLLOW-UP ITEMS**

NONE

**9. FUTURE AGENDA ITEMS**

**10. ADJOURNMENT**

**NOTE:** This committee reviews items and makes a recommendation for final action to the full Board of Directors. Final action will be taken by the Board of Directors. Agendas for the meeting of the Board of Directors may be obtained from the Board Executive Secretary. This committee will not take any final action that is binding on the Board, even when a quorum of the Board is present.

Writings relating to open session agenda items distributed to Directors less than 72 hours prior to a regular meeting are available for public inspection at Metropolitan's Headquarters Building and on Metropolitan's Web site <http://www.mwdh2o.com>.

Requests for a disability related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Executive Secretary in advance of the meeting to ensure availability of the requested service or accommodation.

# **THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA**

## **MINUTES**

### **BAY-DELTA COMMITTEE**

**January 25, 2022**

Committee Chair Ackerman called the teleconference meeting to order at 10:30 a.m.

Members present: Chair Ackerman, Vice Chair Faessel, Directors Apodaca, Atwater, Blois, Cordero, Kurtz, Lefevre, McCoy, Morris, Peterson, Pressman, and Sutley.

Members absent: Director Repenning.

Other Board Members present: Chairwoman Gray, Directors Abdo, De Jesus, Dick, Erdman, Fellow, Fong-Sakai, Goldberg, Jung, Luna, Miller, Ramos, Record, Smith, and Tamaribuchi.

Committee Staff present: Arakawa, Hagekhalil, Horton, Upadhyay, Winn, and Zinke.

#### **1. OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO ADDRESS THE COMMITTEE ON MATTERS WITHIN THE COMMITTEE'S JURISDICTION**

1. Caty Wagner, Sierra Club California, spoke in opposition to the Delta Conveyance Project (DCP), and supports local solutions.
2. Nancy Boscoes spoke in opposition to the DCP and supports local water resources and conservation.

#### **CONSENT CALENDAR ITEMS – ACTION**

#### **2. CONSENT CALENDAR OTHER ITEMS – ACTION**

- A. Approval of the Minutes of the Meeting of the Bay-Delta Committee held on November 23, 2021

#### **3. CONSENT CALENDAR ITEMS – ACTION**

None

Director Sutley made a motion, seconded by Director Pressman to approve the consent calendar consisting of item 2A:

The vote was:

Ayes: Directors Ackerman, Apodaca, Atwater, Blois, Cordero, Faessel, Kurtz, Lefevre, McCoy, Morris, Peterson, Pressman, and Sutley.

Noes: None

Abstentions: None

Absent: Director Repenning.

The motion passed by a vote of 13 ayes, 0 noes, 0 abstention, 1 absent.

### **END OF CONSENT CALENDAR ITEMS**

#### **4. OTHER BOARD ITEMS – ACTION**

None

#### **5. BOARD INFORMATION ITEMS**

None

#### **6. COMMITTEE ITEMS**

- a.      Subject:           Update on Delta Stewardship Council Activities  
Presented by:   Jennifer Nevills, Bay-Delta Initiatives Principal Resource  
Specialist

Ms. Nevills provided background information on the Delta Reform Act and the Delta Stewardship Council's organizational structure. She presented collaboration highlights and updated the committee on key activities, such as Delta Plan Amendments, Delta Plan Certification of Consistency, and Delta Adapts – Creating a Climate Resilient Future.

The following Director provided comment or asked a question.

1. Lefevre

Staff responded to the Director's question.

- b.      Subject:           Update on Delta Conveyance  
Presented by:   Nina Hawk, Bay-Delta Initiatives Policy Manager

Ms. Hawk provided key updates on the California Department of Water Resources Planning process. She also reported on the December 2021 Stakeholder Engagement Committee meeting, the January 2022 Delta Conveyance Design and Construction Authority meeting, and the January 2022 Delta Conveyance Finance Authority meeting.

The following Director provided comments or asked a question.

1. Ackerman

Staff responded to the Director's question.

## **7. MANAGEMENT REPORTS**

a. Subject: Bay-Delta Manager's Report

Presented by: Steve Arakawa, Bay-Delta Initiatives Manager

Mr. Arakawa presented an overview of the Proposition 1 California Department of Fish and Wildlife Multi-Benefit Restoration Planning Grant. He noted the objectives and identified the grant manager, the facilitators, stakeholder advisory participants, and the expert engagement participants. Mr. Arakawa mentioned that he plans to bring back a more detailed update later this year.

The following Directors provided comments or asked a question.

1. Luna
2. Record

Staff responded to the Directors' question.

Director Record also thanked Committee Chair Ackerman for her leadership and acknowledged that this is the last Bay-Delta Committee Meeting.

## **8. FOLLOW-UP ITEMS**

None

## **9. FUTURE AGENDA ITEMS**

None

Meeting adjourned at 11:19 a.m.

Linda Ackerman  
Chair

# **THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA**

## **MINUTES**

### **WATER PLANNING AND STEWARDSHIP COMMITTEE**

**June 13, 2022**

Chair Atwater called the teleconference meeting to order at 2:40 p.m.

Members present: Chair Atwater, Vice Chair Kurtz, Directors Abdo, Ackerman, De Jesus, Lefevre, Miller, Morris, Petersen, Peterson, and Record.

Members absent: Directors Cordero, Dick, Goldberg, Luna, and Pressman.

Other Board Members present: Directors Blois, Dennstedt, Erdman, Fellow, Fong-Sakai, Jung, Ortega, Quinn, Smith, and Tamaribuchi

Committee staff present: Coffey, Hagekhalil, Munguia, Schlotterbeck, and Upadhyay

**1. Opportunity for members of the public to address the committee on matters within the committee's jurisdiction (As required by Gov. Code Section 54954.3(a))**

- a. Update on Release of Delta Conveyance Project Public Draft Environmental Impact Report: Carrie Buckman, California Department of Water Resources

Nina Hawk provided a brief background and introductory comments, and she introduced Ms. Buckman. Ms. Buckman provided an update on the Delta Conveyance Project that included an overview of the Delta Conveyance Project schedule, proposed project and alternatives, and Community Benefits Program overview and next steps.

Public speakers included:

- 1. Caty Wagner, Sierra Club California, spoke in opposition to the Delta Conveyance Project
- 2. Conner Everts, Southern California Watershed Alliance, spoke in opposition to the Delta Conveyance Project
- 3. Maura Monagan, L.A. Waterkeeper, spoke in opposition to the Delta Conveyance Project

## **CONSENT CALENDAR ITEMS – ACTION**

**2. CONSENT CALENDAR OTHER ITEM – ACTION**

- A. Approval of the Minutes of the Meeting of the Bay-Delta Committee held January 25, 2022; Integrated Resources Plan Committee held March 22, 2022; and Water Planning and Stewardship Committee held May 9, 2022

**3. CONSENT CALENDAR ITEM – ACTION**

**7-14** Subject: By a two thirds vote, authorize the General Manager to make payment of up to \$871,680 for support of the Colorado River Board and Six Agency Committee for FY 2022/23; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Presented by: None

Motion: By a two-thirds vote, authorize the General Manager to make payment of up to \$871,680 for support of the Colorado River Board and Six Agency Committee for FY 2022/23.

No presentation was given, Director Morris made a motion, seconded by Director De Jesus to approve the consent calendar consisting of items 2A and 7-14.

The vote was:

Ayes: Directors Abdo, Ackerman, Atwater, Blois, Cordero, Erdman, Fellow, Morris, Peterson, Pressman, and Quinn.

Noes: None

Abstentions: None

Absent: Directors Cordero, Dick, Goldberg, Luna, and Pressman.

The motion for items 2A and 7-14 passed by a vote of 11 ayes, 0 noes, 0 abstain, and 5 absent.

The motion for item 2A (Minutes of the Meeting of the Bay-Delta) failed by a vote of 6 ayes, 0 noes, 0 abstain, and 2 absent.

Note: Staff will seek approval at the following WPS meeting.

**END OF CONSENT CALENDAR ITEMS**

**4. OTHER BOARD ITEMS – ACTION**

None



**5. BOARD INFORMATION ITEMS**

None

**6. COMMITTEE ITEMS**

- a. Subject: Review of Policy Principles regarding the Sacramento-San Joaquin River Bay-Delta

Presented by: Nina Hawk, Bay-Delta Initiatives Policy Manager, and  
Jennifer Nevills, Program Manager, Bay Delta Initiatives

Steve Arakawa provided background information and introduced Ms. Hawk. Ms. Hawk noted that both she and Ms. Nevills would be co-presenting this report. Their presentation discussed a general overview and key points to date, feedback from committee members and Directors from the May Water Planning and Stewardship Committee Meeting, and an overview of Policy Principles that included cited examples.

The following Directors provided comments or asked questions:

1. Peterson
2. Smith
3. Ortega
4. Fong-Sakai
5. Erdman
6. Tamaribuchi

- b. Subject: Update on the Antelope Valley East Kern Water Agency High Desert Water Bank

Presented by: Tracy Abundez, Resource Specialist, Water Resource Management

Ms. Abundez gave a presentation that discussed background information on Antelope Valley East Kern Water Agency, Board-approved Water Bank Program, Program operation, and terms and benefits.

The following Director provided comments or asked questions:

1. Peterson

Staff responded to the Directors questions and comments.

- c. Subject: Update on Water Surplus and Drought Management and Water Shortage Emergency Condition

Presented by: Demetri J. Polyzos, Manager, Resource Planning, Water Resource Management

Mr. Polyzos provided an update on water surplus and drought management and reviewed supply and demand balances of the Colorado River and State Water Project supplies. He also provided a detailed explanation of the early performance of the Emergency Water Conservation Program.

The following Director provided comments or asked questions:

1. Peterson

Staff responded to the Directors questions and comments.

- d. Subject: Colorado River Conditions and Planning for Next Steps Following the 2007 Interim Guidelines

Presented by: Shanti Rossett, Colorado River Resources Policies Manager

Ms. Rossett gave a presentation that addressed current conditions and the plan for the next steps to follow the current interim guidelines.

The following Directors provided comments or asked questions:

1. Atwater
2. Miller

## **7. MANAGEMENT REPORTS**

- a. Subject: Colorado River Manager's Report

Presented by: Bill Hasencamp, Manager, Colorado River Resources

Mr. Hasencamp gave a brief update on Colorado River activity.

The following Director provided comments or asked questions:

1. Erdman

Staff responded to the Directors questions and comments.

- b. Subject: Bay-Delta Manager's Report

Presented by: Steve Arakawa, Manager, Bay-Delta Initiatives

Mr. Arakawa's report included an update on curtailment on the Delta System and Delta Watershed.

- c. Subject: Water Resource Management Manager's Report

Mr. Coffey's report included an overview of the group's activity including an awarded grant by U.S. Bureau of Reclamation for a Water and Energy application, State Water Resources Control Board-adopted emergency regulations actions, and an application to Department of Water Resources relating to fire prevention and fire safety water.

**8. FOLLOW-UP ITEMS**

None

**9. FUTURE AGENDA ITEMS**

None

**10. ADJOURNMENT**

Next meeting will be held on July 12, 2022.

Meeting adjourned at 4:29 p.m.

Richard Atwater  
Chair



● **Water Surplus and Drought Management Update** *Conditions as of 6/27/2022*

**Summary**

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This report accounts for water supply, demand, and storage conditions for calendar year (CY) 2022 as of June 27, 2022. The report also tracks the hydrologic conditions for water year (WY) 2021-2022.

Imported supply available to help meet demand is currently estimated to be 1.17 million acre-feet (MAF) which includes 258 thousand acre-feet (TAF) of SWP supply and 911 TAF of Colorado River supply. Metropolitan's SWP supply includes 133 TAF of human health and safety (HH&S) supply from the Department of Water Resources (DWR). Any HH&S supply Metropolitan receives must be returned to DWR similar to water withdrawn from DWR's Flex Storage. The projected amounts to be returned to DWR are shown in Attachment 2. Metropolitan's Colorado River supply is based on the United States Bureau of Reclamation's (USBR) daily forecast of water use for California's Colorado River water users for this year. Since the Coachella Valley Water District is projected to use 17 TAF less than anticipated this year, that supply becomes available to Metropolitan and is now being shown in the Colorado River Supply table. Metropolitan's Colorado River supply also reflects the projected higher water use of other higher priority water users that decreases Metropolitan's projected Colorado River supply by 103 TAF. Despite this decrease, Metropolitan will be able to move a full Colorado River Aqueduct (CRA) this year. The current demand on Metropolitan is estimated to be 1.80 MAF. Since supply is less than demand, Metropolitan's supply/demand gap for calendar year 2022 is currently projected to be 629 TAF. Metropolitan will satisfy this supply/demand gap through storage withdrawals.

June 1<sup>st</sup> marked the beginning of Metropolitan's Emergency Water Conservation Program, and less than a month into the program, use of State Water Project (SWP) supply in the SWP Dependent Area has declined. At the time of this report, affected member agencies used 4 percent less than the June volumetric limit on aggregate as depicted in Attachment 3. To drive down demands of SWP supply, affected agencies used a combination of strategies including increased conservation messaging, rigorous outdoor watering restrictions and enforcement, and increased production of local supply. Water savings from this program are expected to decrease the region's annual demand on Metropolitan.

Conservation efforts across the region must continue especially as we enter the hotter summer months. For the SWP Dependent Area member agencies under the Emergency Water Conservation Program, Metropolitan is prepared to take additional actions which include banning all outdoor watering and moving all affected agencies to the volumetric limit compliance path should conservation efforts wane. Water saved this year will also help preserve critical water supplies for next year. This is especially important when the amount and conditions under which Intentionally Created Surplus (ICS) will be available to Metropolitan in 2023 is uncertain. This uncertainty is due to the Commissioner of the USBR's recent call for additional conservation efforts in 2023 to protect critical elevations in Lakes Powell and Mead. Metropolitan should have more information about the volumes and conditions under which ICS will be available in 2023 by next month.

**Purpose**

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Informational

**Attachments**

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- Attachment 1: Projected 2022 WSDM Storage Detail (5 percent SWP Table A allocation)
- Attachment 2: Agreements to Exchange or Return Stored Water and Cyclic Program Balances
- Attachment 3: Emergency Water Conservation Program Performance

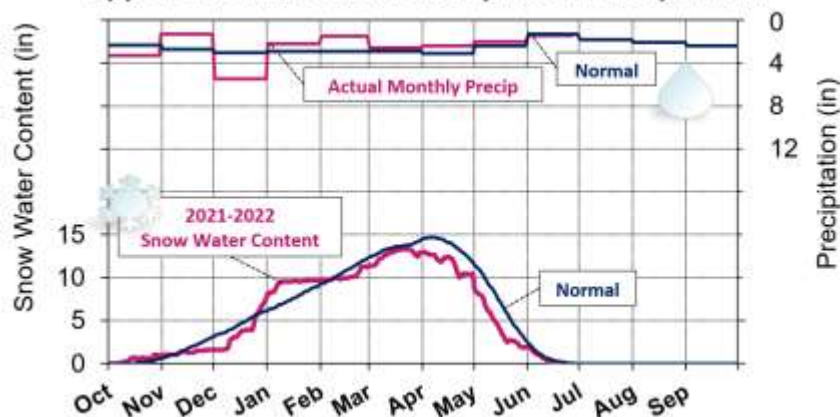
**Detailed Report**

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This Water Surplus and Drought Management (WSDM) report updates water supply and demand conditions for CY 2022 and developing hydrologic conditions for WY 2021-2022.

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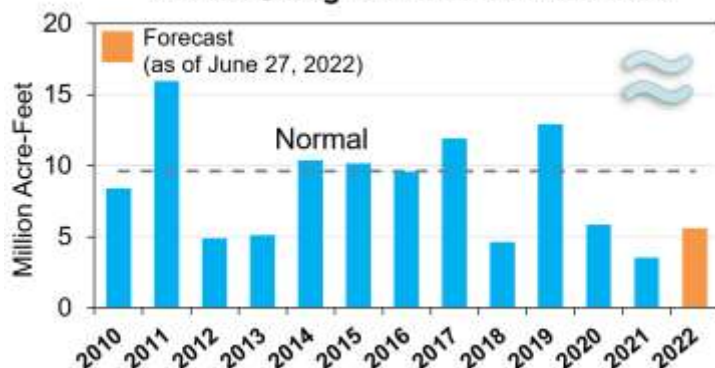
## Upper Colorado Basin Snowpack &amp; Precipitation



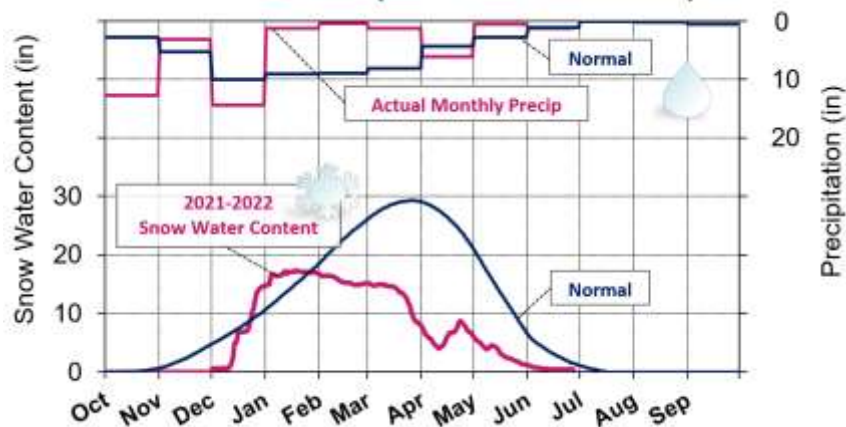
## Upper Colorado River Basin

- ❄ Snowpack water content peaked in mid-March (13.3 inches or 91% of normal April 1).
- ◆ Near normal precipitation to date (22.2 inches or 91% of normal).
- ≈ Runoff into Lake Powell for WY 2022 is forecasted at 58% of normal.

## Powell Unregulated Water Year Inflow



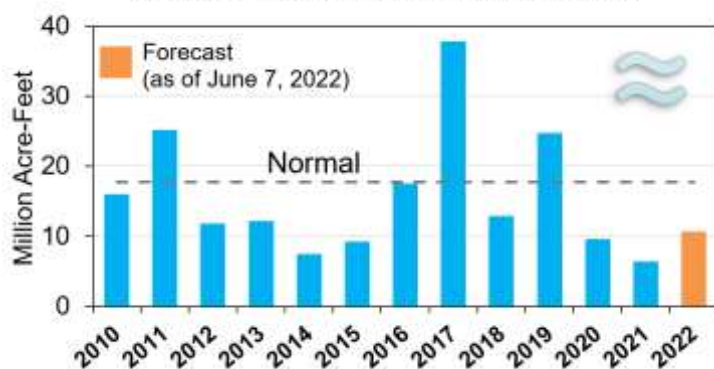
## Northern Sierra Snowpack &amp; 8 Station Precipitation



## Sacramento River Basin

- ❄ Snowpack water content peaked low and early in mid-January (17.2 inches or 61% of normal April 1).
- ◆ Below normal precipitation at the 8 Station to date (41.2 inches or 79% of normal).
- ≈ Runoff into the Sacramento River for WY 2022 is forecasted at 60% of normal.

## Sacramento River Water Year Runoff



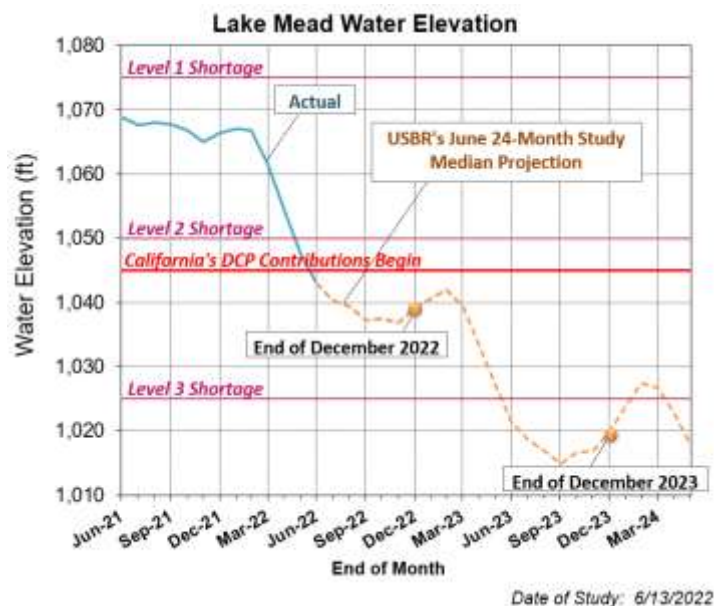
CRA Supplies	Acre-Feet
Basic Apportionment	550,000
IID/ MWD Conservation Program	105,000
CVWD - 2nd Amendment, Exchange of Additional Water	17,000
PVID Fallowing Program	25,000
Exchange w/ SDCWA (IID/Canal Lining)	280,000
Exchange w/ USBR (San Luis Rey Tribe)	16,000
Lower Colorado Water Supply Project	9,000
Bard Seasonal Fallowing Program	3,000
Quechan Diversion Forbearance	6,000
Quechan Seasonal Fallowing Program <sup>1</sup>	0
Higher Priority Water Use Adjustment <sup>2</sup>	-103,000
<b>Total CRA Supplies <sup>3</sup></b>	<b>911,000</b>

<sup>1</sup> Rounded to the nearest thousand.

<sup>2</sup> Per USBR Forecast (6/27/22).

<sup>3</sup> Total may not sum due to rounding.

- Lake Mead storage is currently at its historic low at 7.2 MAF or elevation 1043.3 feet (28 percent of total capacity).
- The Lower Basin is at a Level 1 shortage in CY 2022. Supplies to Metropolitan will not be curtailed and Metropolitan will have full access to its Intentionally Created Surplus (ICS) in CY 2022 to fill the CRA.
- USBR's June 24-Month Study continues to show Lake Mead's water elevation declining over the next two years.
- Operations of Lakes Powell and Mead are uncertain in 2023. The triggers for shortage and Drought Contingency Plan (DCP) contributions could change based on current discussions in response to USBR's call for additional conservation volumes of 2 MAF to 4 MAF in CY 2023. The graph shows physical elevations and existing triggers.



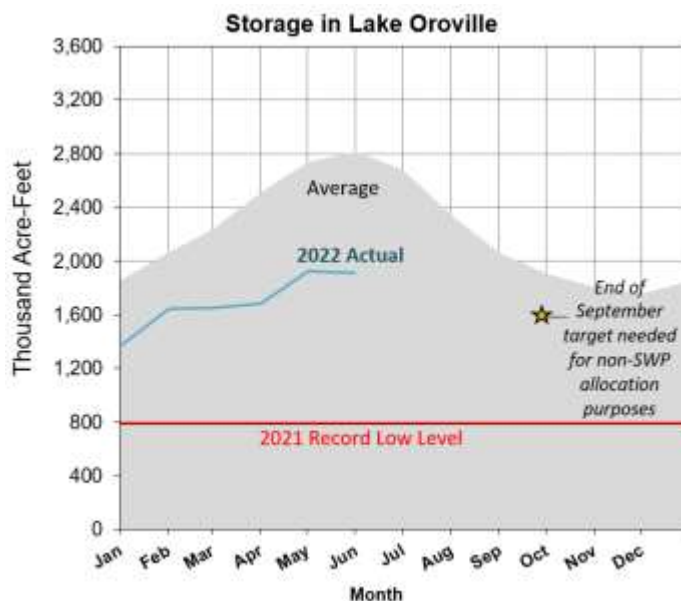
SWP Supplies	Acre-Feet
Table A (5% SWP allocation)	96,000
Article 21	0
Port Hueneme <sup>1</sup>	0
SWC Buyers Group Transfers <sup>2</sup>	7,000
Yuba Accord Dry-Year Purchase Program <sup>2</sup>	14,000
MWDOC/IRWD Partnership	4,000
Purchase of SDCWA's Semitropic Supply	4,000
Human Health & Safety Supply	133,000
<b>Total SWP Supplies <sup>3</sup></b>	<b>258,000</b>
<b>Total Supplies (CRA + SWP)</b>	<b>1,169,000</b>
<b>(Prior to storage actions)</b>	

<sup>1</sup> Rounded to the nearest thousand.

<sup>2</sup> Current estimate subject to change based on buyer/seller participation and losses.

<sup>3</sup> Total may not sum due to rounding.

- In addition to the 5 percent Table A allocation, DWR is providing water for Contractors' unmet Human Health and Safety needs (HH&S). DWR expects Contractors receiving HH&S water to take mandatory conservation measures; implement conjunctive use practices; acquire alternative supplies; and return any HH&S water to the SWP in a future year. DWR has approved 133 TAF of HH&S supply for Metropolitan thus far. Metropolitan began receiving deliveries of HH&S supplies in June.
- Lake Oroville is currently at 1.75 MAF (50 percent of total capacity) or 65 percent of historical average as of the date of this report.



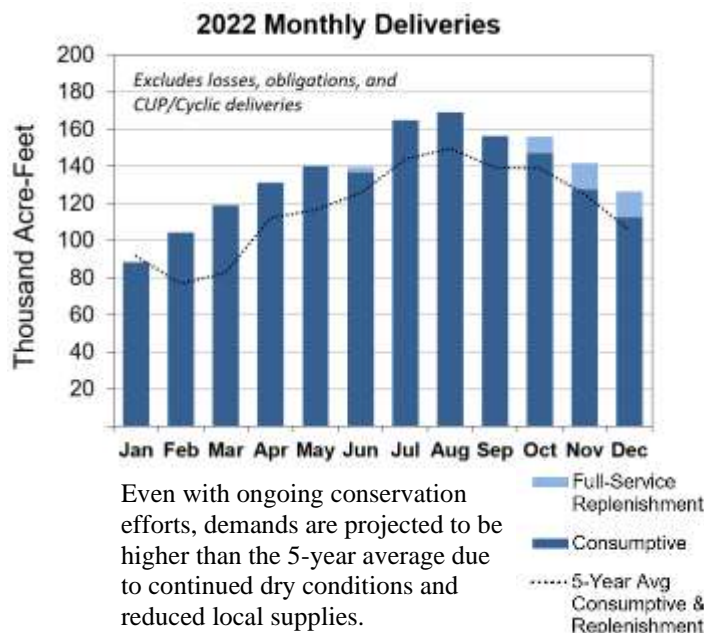


Current Demand	Acre-Feet
Member Agency Consumptive <sup>1</sup>	1,605,000
Member Agency Replenishment	40,000
Coachella Valley Water District Agreement	15,000
Return to Imperial Irrigation District <sup>2</sup>	72,000
Exchange w/ San Luis Rey Tribe	16,000
System and Storage Losses	50,000
Cyclic Deliveries	0
<b>Total Demands <sup>3</sup></b>	<b>1,798,000</b>

<sup>1</sup> Includes exchange w/ SDCWA (IID/Canal Lining) and CUP sales.

<sup>2</sup> Per USBR Forecast (6/27/22).

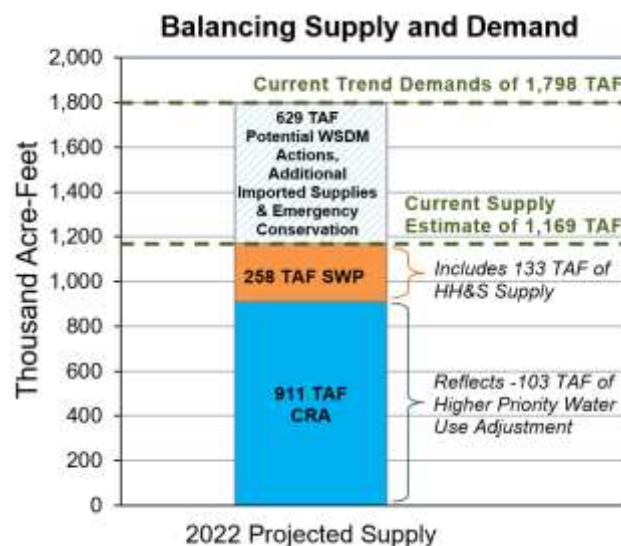
<sup>3</sup> Total may not sum due to rounding.



## MANAGING REGIONAL SUPPLY AND DEMAND

Supply/Demand Balance	Acre-Feet
Total Supplies	1,169,000
Total Demands	1,798,000
<b>Current Balance Estimate <sup>2</sup></b>	<b>-629,000</b>

<sup>1</sup> Total may not sum due to rounding.



## Dry-Year WSDM Strategies/Actions

The following WSDM actions are being pursued or are underway to satisfy the estimated supply/demand gap in 2022, enhance Metropolitan's capability of delivering supplies to the SWP Dependent Areas, and reduce storage withdrawals in 2022.

- Strategic withdrawals of water from dry-year storage reserves.
- Coordinating with member agencies to identify new drought actions targeted at Metropolitan's SWP Dependent Areas.
- Executed an agreement with DWR to allow for water withdrawals from Perris Flex storage at Castaic Lake.
- Increased exchange amounts with Arvin-Edison for Metropolitan to receive Friant surface water supplies.
- Maximizing use of Colorado River or stored supplies by using the Greg Avenue pump station and drafting water from Diamond Valley Lake to serve the Lakeview Pipeline and the Mills Plant.
- Advancing infrastructure improvements to reduce the impact of the current drought and provide future system flexibility.
- Working with member agencies to switch from service connections providing SWP supplies to alternate connections that use Colorado River supplies, both within and outside of the Operational Shift Cost-Offset Program.
- Purchasing San Diego County Water Authority's groundwater stored in the Semitropic Water Bank and leasing their pumping capacity.
- Partnering with non-member agencies such as the San Bernardino Valley Municipal Water District, a SWP Contractor, for exchange opportunities.
- Utilizing the Coordinated Operating Agreement with Municipal Water District of Orange County and Irvine Ranch Water District to enhance SWP supplies.
- Securing one-year transfers with various water districts north of the Sacramento-San Joaquin River Delta.
- Implementing the Emergency Water Conservation Program in the SWP Dependent Area.
- Receiving deliveries of HH&S supply from DWR to help meet demands in the SWP Dependent Area.

## 2022 WSDM Storage Detail

	1/1/2022 Estimated Storage Levels	CY 2022 Take Capacity <sup>1</sup>	2022 Total Storage Capacity
<b>WSDM Storage</b>			
<b>Colorado River Aqueduct Delivery System</b>	<b>1,252,000</b>	<b>304,000</b>	<b>1,657,000</b>
Lake Mead ICS	1,252,000 <sup>2</sup>	304,000 <sup>3</sup>	1,657,000
<b>State Water Project System</b>	<b>636,000</b>	<b>187,000</b>	<b>1,879,000</b>
MWD SWP Carryover <sup>4</sup>	38,000	38,000	350,000
DWCV SWP Carryover <sup>4</sup>			
MWD Articles 14(b) and 12(e)	0	0	N/A
Castaic Lake (DWR Flex Storage)	0	0	154,000
Lake Perris (DWR Flex Storage)	49,000	49,000 <sup>5</sup>	65,000
Arvin Edison Storage Program	136,000	17,000 <sup>6</sup>	350,000
Semitropic Storage Program	218,000	51,000 <sup>7</sup>	350,000
Kern Delta Storage Program	149,000	32,000	250,000
Mojave Storage Program	19,000	0	330,000
AVEK Storage Program	27,000	0	30,000
<b>In-Region Supplies and WSDM Actions</b>	<b>795,000</b>	<b>426,000</b>	<b>1,246,000</b>
Diamond Valley Lake	600,000	343,000	810,000
Lake Mathews and Lake Skinner	179,000	67,000	226,000
Conjunctive Use Programs (CUP) <sup>8</sup>	16,000	16,000	210,000
<b>Other Programs</b>	<b>674,000</b>	<b>10,000</b>	<b>1,181,000</b>
Other Emergency Storage	381,000	0	381,000
DWCV Advanced Delivery Account	293,000	10,000	800,000
<b>Total</b>	<b>3,357,000</b>	<b>927,000</b>	<b>5,963,000</b>
Emergency	750,000	0	750,000
<b>Total WSDM Storage (AF) <sup>9</sup></b>	<b>2,607,000</b>	<b>927,000</b>	<b>5,213,000</b>

<sup>1</sup> Take capacity assumed under a 5 percent SWP Table A Allocation. Storage program losses included where applicable.

<sup>2</sup> Reflects USBR's final accounting for 2021, released in May 2022. This amount is net of the water Metropolitan stored for IID in Lake Mead in an ICS sub-account, which IID can access to avoid an overrun.

<sup>3</sup> Take capacity based on planned maintenance activities and current CRA supply estimate and includes return of water to IID.

<sup>4</sup> Total storage capacity varies year to year based on prior year remaining balance added to current year contractual limits.

<sup>5</sup> Available for withdrawal from Castaic Lake in 2022 pursuant to an MWD-DWR agreement.

<sup>6</sup> Take amounts dependent on exchange capabilities.

<sup>7</sup> Includes leasing 5,000 AF of return capacity from SDCWA. This provides Metropolitan the ability to withdraw more of its groundwater stored in the program.

<sup>8</sup> Total of all CUP programs including IEUA/TVMWD (Chino Basin); Long Beach (Central Basin); Long Beach (Lakewood); Foothill (Raymond and Monk Hill); MWDOC (Orange County Basin); Three Valleys (Live Oak); Three Valleys (Upper Claremont); and Western.

<sup>9</sup> Total WSDM Storage level subject to change based on accounting adjustments.



## Agreements to Exchange or Return Stored Water

	<b>Future Returns <sup>1</sup></b>
<b>CR Total (AF)</b>	<b>802,000</b>
Water Stored for IID under the California ICS Agreement and its Amendment or the 2021 Settlement Agreement with IID	262,000 <sup>2</sup>
Storage and Interstate Release Agreement with Southern Nevada Water Authority	330,000 <sup>3</sup>
Coachella Valley Water District Agreement	210,000 <sup>4</sup>
<b>SWP Total (AF)</b>	<b>352,000</b>
DWR Flex Storage	219,000 <sup>5</sup>
Human Health & Safety	133,000 <sup>6</sup>
<b>Total (AF)</b>	<b>1,154,000</b>

<sup>1</sup> Rounded to the nearest thousand. Subject to change based on accounting adjustments.

<sup>2</sup> IID can request return in any year, conditional on agreement terms. Future return is projected to be reduced by 72,000 AF as shown on page 4.

<sup>3</sup> Up to 30,000 AF per year beginning no earlier than 2022.

<sup>4</sup> Obligation to be met by the end of 2026.

<sup>5</sup> Flexible storage withdrawals from Castaic Lake and Lake Perris must be returned within five calendar years.

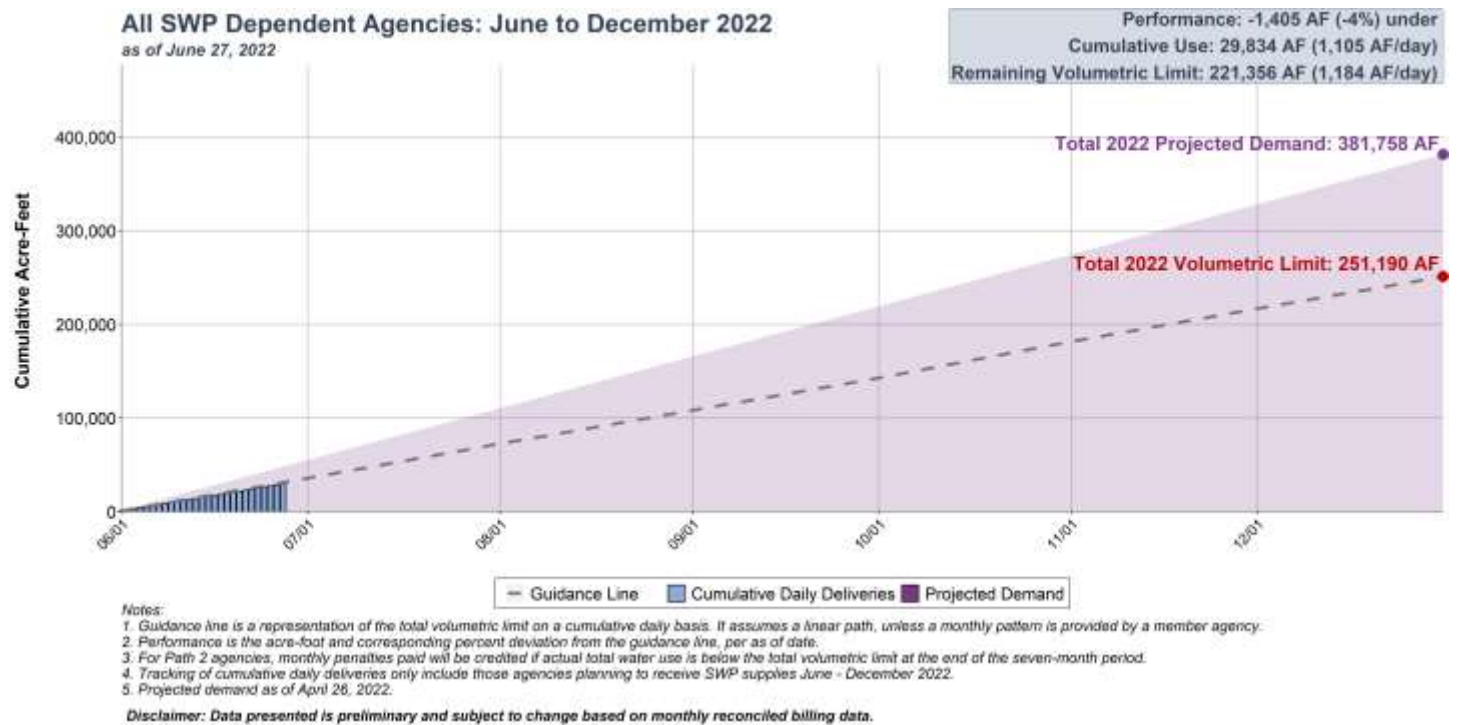
<sup>6</sup> Metropolitan's scheduled CY 2022 Human Health & Safety deliveries. Any water taken must be returned within five calendar years.

## Cyclic Program Activity

CY	Starting Balance (AF)	CY Actions (AF)				Ending Balance (AF)
		Cyclic Pre-Delivery	Cyclic Cost-Offset Pre-Delivery	Total Pre-Delivery	Sale Out of Cyclic	
2019	51,000	147,000	19,000	166,000	91,000	126,000
2020	126,000	2,000	0	2,000	50,000	78,000
2021	78,000	0	0	0	28,000	50,000
2022 <sup>1</sup>	50,000	0	0	0	32,000	18,000

<sup>1</sup> Projected Cyclic program activity for the year. Subject to change.

## Emergency Water Conservation Program Performance





Water Planning and Stewardship Committee

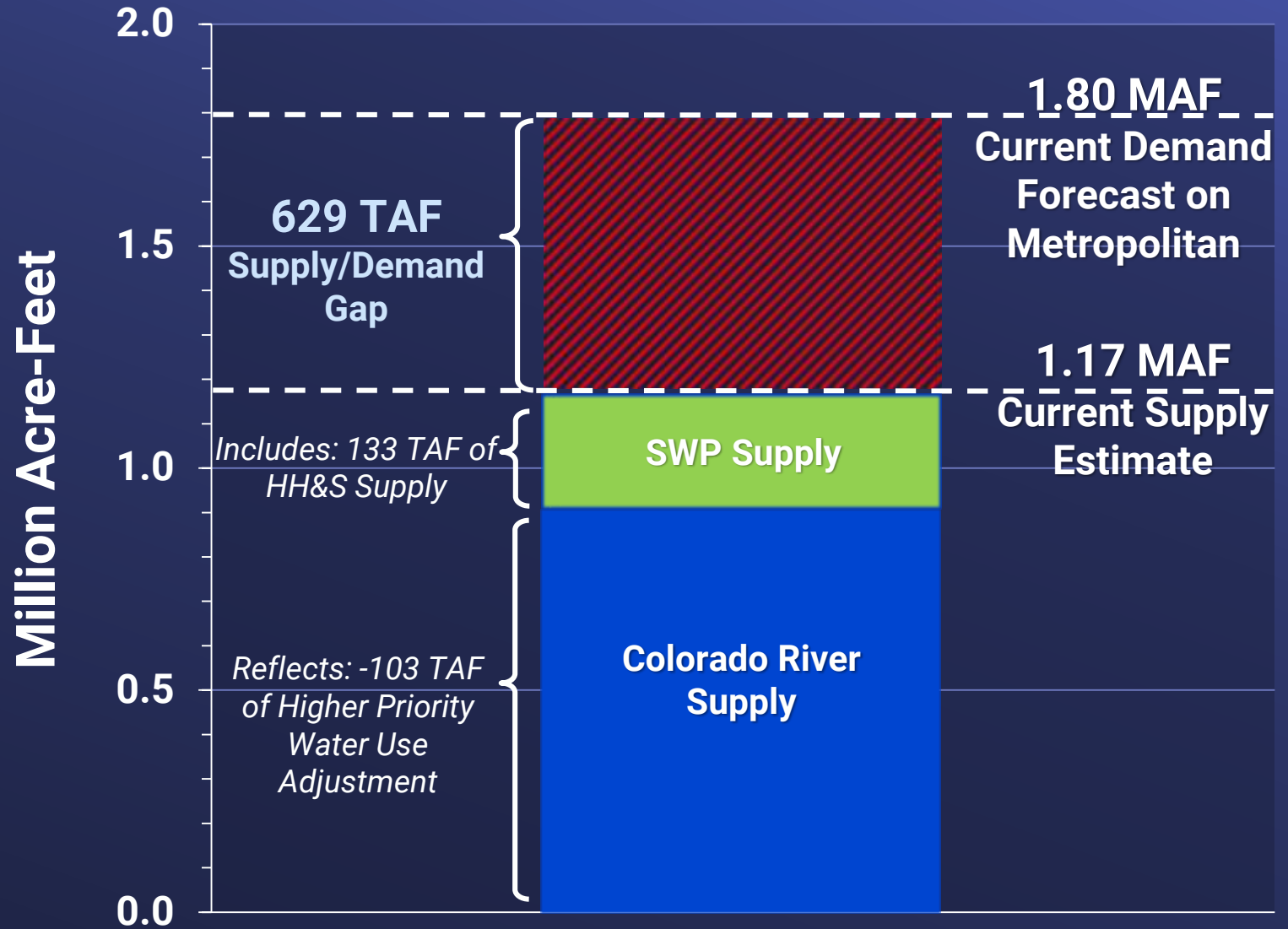
# Update on WSDM and Status of Emergency Water Conservation Program

Item 6a  
July 12, 2022

# WSDM Update

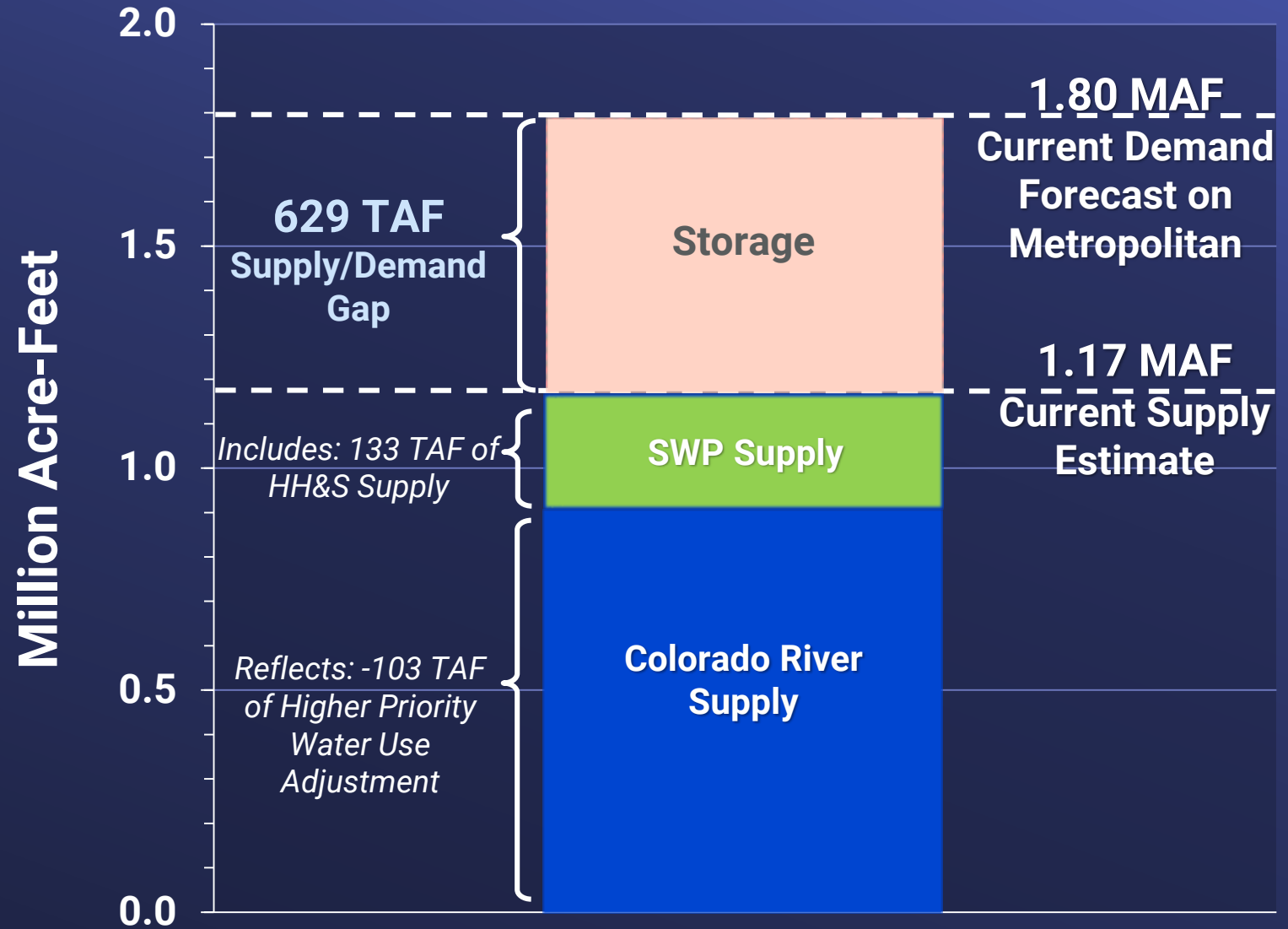
# WSDM Supply Demand Balance

## Regional View



# WSDM Supply Demand Balance

Gap can be  
satisfied  
through stored  
supplies



# What's New in the WSDM Report

- SWP return obligations
  - Human health and safety (HH&S) supplies of
  - Flexible storage takes from Castaic Lake and Lake Perris
- Coachella Valley Water District projected underrun
- Emergency Water Conservation performance information

# Emergency Water Conservation Program Update



# Emergency Water Conservation Program (EWCP)

- Water shortage emergency continues to exist for population within the currently identified SWP Dependent Area
- Full month has passed since EWCP's inception on June 1, 2022
  - June path compliance determined for each member agency
  - SWP Dependent Area demand remains below previous projections
  - SWP Dependent Area 4% below Total 2022 Volumetric Limit, as of June 30<sup>th</sup>

# Emergency Water Conservation Program

## June Path Compliance

- Agencies have a choice on how to manage demands to available supplies

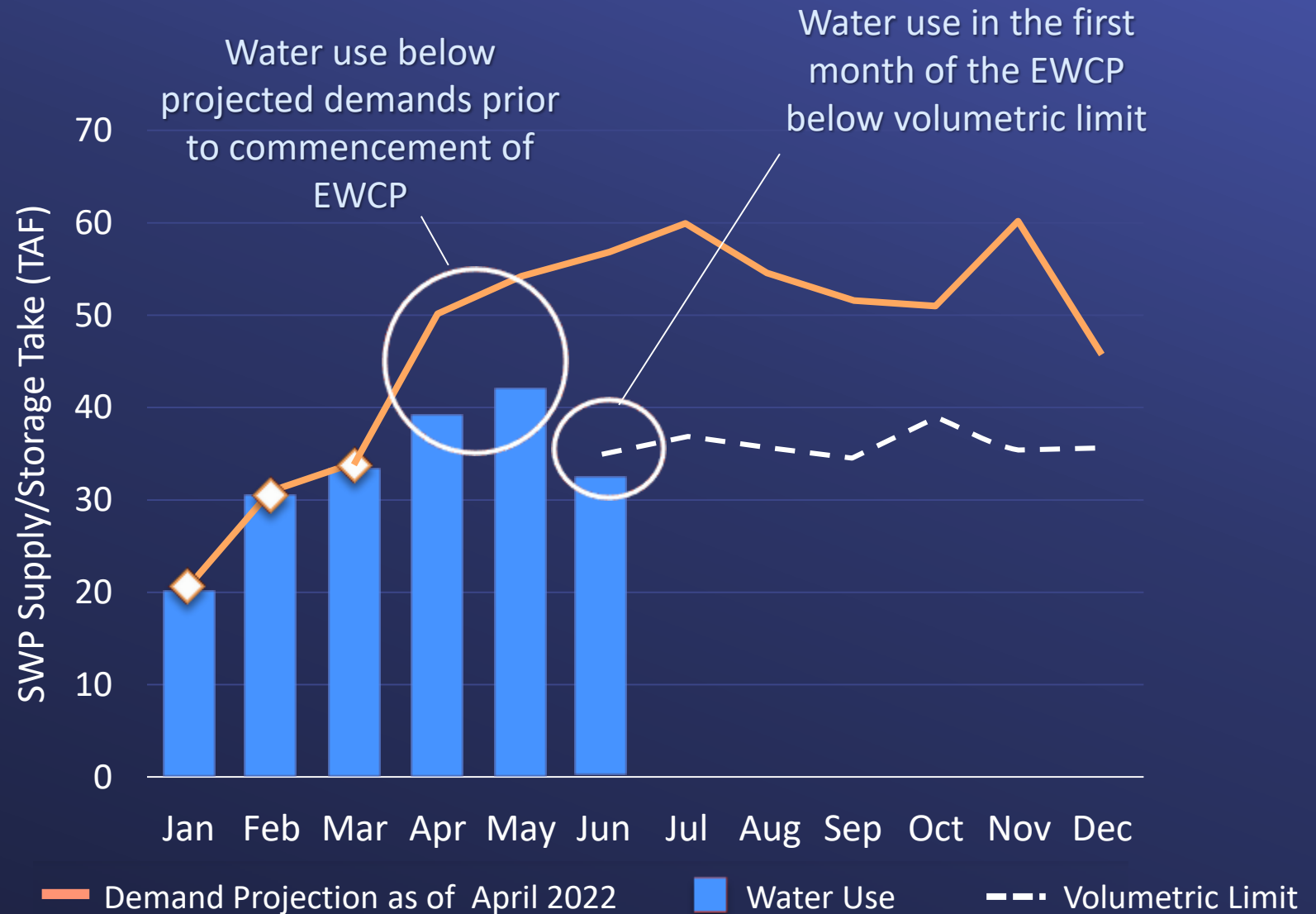


- Metropolitan reviewed submitted ordinance documentation and enforcement plans by each member agency

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

*\*7 of 19 Calleguas water purveyors are Path 2*

# SWP Dependent Area Demands on Metropolitan

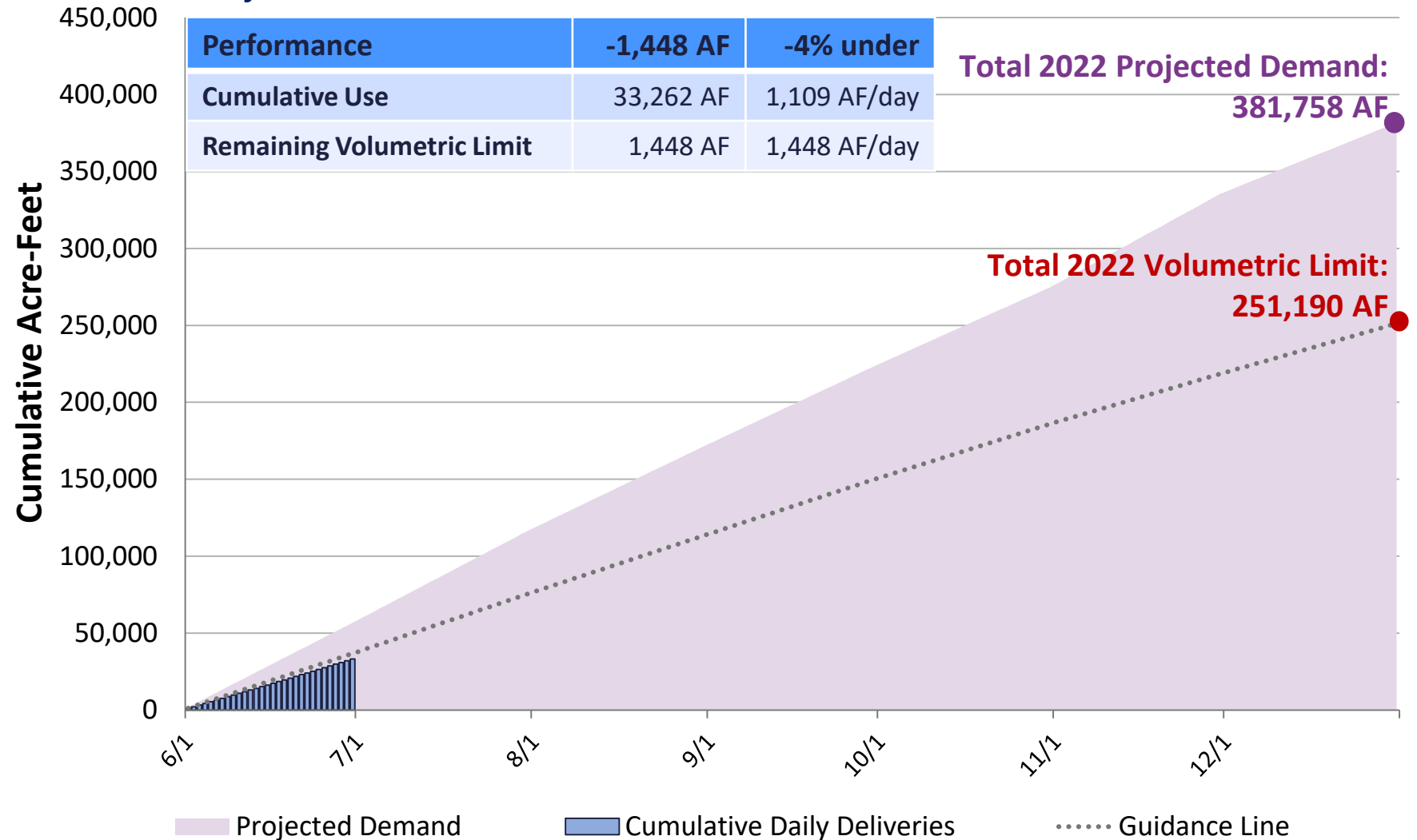


# All SWP Dependent Agencies Weekly Water Use Tracking

June to  
December  
2022

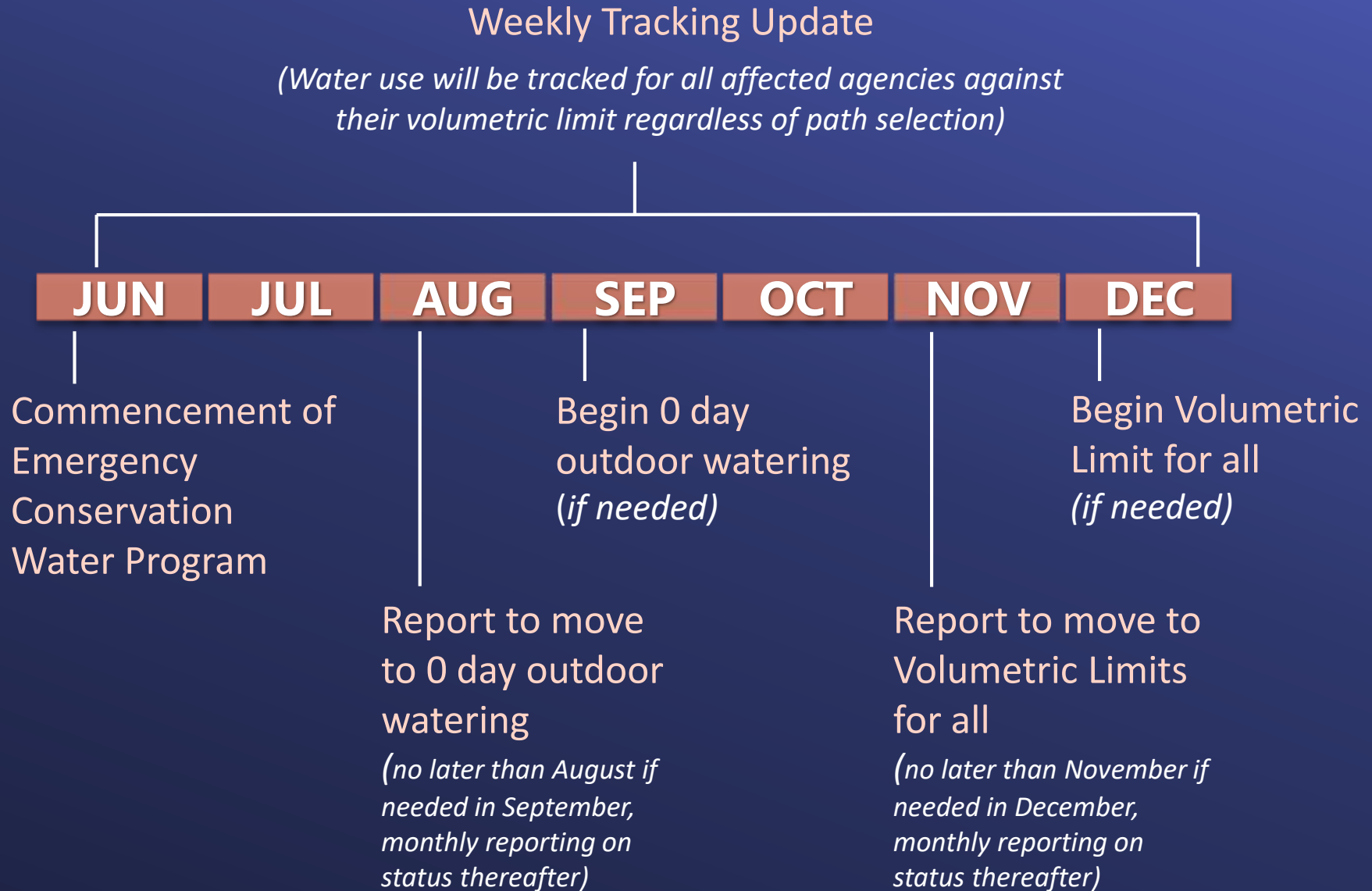
## All SWP Dependent Agencies: June to December 2022

as of June 30



\*Demand projection as of April 26, 2022

# Timeline of Activity and Key Decision Points



# Emergency Water Conservation Program

Decision to  
move to more  
stringent  
measures based  
on use of  
available  
supplies

- Monitoring reports
  - Track agencies water use against their volumetric limits
  - Discuss demand reduction progress with member agencies weekly
- Ongoing WSDM re-evaluation of SWP Dependent Area supply/demand balances
  - Provides an indication of end-of-year storage carryover into 2023
  - Reflects DWR water accounting
- Other Factors

# Emergency Water Conservation Program

## Appeal Process

- Penalties assessed monthly
- Appeals process will be for monthly penalties *actually* incurred
  - Penalties incurred for a given month will appear in the billing period two months later
    - For example, penalties incurred in June will be billed in August
  - Allows additional time for Metropolitan to engage with member agencies on any questions or concerns prior to the actual billing period
- Should a member agency's total 2022 water use fall within their total 2022 volumetric limit, any penalties incurred will be returned



# Emergency Water Conservation Program

## Next Steps

- Continue to evaluate member agency path compliance and potential penalties
- Continue transmittal of weekly reports
  - Weekly report reflecting data from June 1 – July 12 tentatively scheduled for transmittal on July 13, 2022
- Ongoing coordination
  - System limitations impacts
  - Monthly reporting to the Board







## • Colorado River Management Report

### Summary

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This report provides a summary of activities related to management of Metropolitan's Colorado River resources for the month of June 2022.

### Purpose

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Informational

### Detailed Report

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#### Department of the Interior Statements on Critical Reservoir Elevations

At the June 14 Senate Energy and Natural Resources Committee hearing on Western Drought, the Bureau of Reclamation (Reclamation) Commissioner Camille Touton identified the need for Colorado River Basin water users to reduce their use by two to four million acre-feet of water per year to address critical reservoir elevations at Lake Powell and Lake Mead, starting in 2023. The Commissioner said that the Department of the Interior (Interior) would be working with states, tribes, and others to reach a consensus by August 2022 about how to make these reductions. In response to questions from Senators, the Commissioner stated that the Interior has the authority to act unilaterally, if needed, and will protect the system if consensus cannot be reached.

Reclamation described the modeling they developed to show the need for additional water to address critical reservoir elevations in Lake Powell and Lake Mead, water that Reclamation is calling "Protection Volumes", at the Getches-Wilkinson Conference in Boulder, Colorado. At that conference, Assistant Secretary for Water & Science Tanya Trujillo made remarks about conditions in the Colorado River reservoirs and the need for Protection Volumes starting in 2023.

Metropolitan staff is working with its Colorado River Basin States (Basin States) partners to explore options and strategies that could meet the Interior's call for Protection Volumes by the August 2022 deadline, which would be in place starting next year. Staff will keep the Board informed as a plan is being pursued.

#### Reclamation Publishes Pre-Scoping Notice Seeking Public Comment for Next Set of Guidelines

Reclamation published a Federal Register notice to assist in its efforts to develop future Colorado River operating provisions. The notice seeks input on how to foster meaningful participation by all stakeholders in preparation for beginning the National Environmental Policy Act (NEPA) process to develop Colorado River operational guidelines after 2026. Reclamation is targeting early 2023 to start the NEPA process.

The notice asks for specific suggestions on the process and the substance of how best to analyze future operations and what those operations should include. The notice describes the changing circumstances in the Colorado River Basin since 2007, including declining hydrology, drought, and low-runoff conditions impacted by a warmer, changing climate and the need for continued operational alignment and partnership with Mexico. Metropolitan staff will work with the Basin States to try and develop a consensus comment letter to be provided to Reclamation for this process.

Specific documents and agreements that expire at the end of 2025 include the December 2007 Colorado River Interim Guidelines for Lower Basin Shortages and Coordinated Operations for Lake Powell and Lake Mead, among other essential management documents, including Treaty Minute 323.

To help explain the process and answer questions, Reclamation is hosting two webinars on July 12 and 14, 2022.



## ● Bay-Delta Management Report

### Summary

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This report provides a summary of activities related to the Bay-Delta for June 2022.

### Purpose

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Informational

### Detailed Report

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#### Long-Term Delta Actions

##### Delta Conveyance

The California Department of Water Resources (DWR) is continuing to develop a public Draft Environmental Impact Report under the California Environmental Quality Act for the Delta Conveyance Project (DCP). The U.S. Army Corps of Engineers (USACE), as part of its permitting review under the Clean Water Act and Rivers and Harbors Act, is preparing an Environmental Impact Statement to comply with the National Environmental Policy Act. DWR and USACE are planning to release draft environmental documents for public review in mid-2022.

Field activities under the Initial Study/Mitigated Negative Declaration for soil investigations in the Delta, including cone penetration tests, soil borings, and geophysical surveys, restarted in May 2022 after a wet season break.

##### Joint Powers Authorities

During the June 16 regularly scheduled Board of Directors Meeting, the Delta Conveyance Design and Construction Authority (DCA) Board of Directors approved a resolution to extend virtual board and committee meetings pursuant to AB 361. The DCA Board adopted the proposed \$31.16 million budget for fiscal year 2022/23 by minute order. The work activities for fiscal year 2022/23 will focus on providing support to the DWR environmental planning and permitting efforts for the DCP, including continued implementation of field investigation programs. The DCA Board also adopted a resolution to authorize the investment policy and the annual delegation to DCA Treasurer for the fiscal year 2022/23.

The regularly scheduled June 16 meeting of the Delta Conveyance Finance Authority was cancelled.

##### Sites Reservoir

In their joint June meetings, the Sites Project Authority Board and the Sites Reservoir Committee authorized the Executive Director to submit the Project's 2023-2026 application to the U.S. Fish and Wildlife Service for a Bald and Golden Eagle Protection Act Short-Term Disturbance "Take" Permit for Geotechnical Activities.

#### Near-Term Delta Actions

##### Science Activities

Staff participated in several tours of the Delta with the General Manager and non-governmental organization (NGO) leaders to discuss and share science priorities and identify opportunities for collaboration. Staff provided briefings on Bay-Delta science activities, management of the Delta islands and proposed studies as part of the Delta Smelt and Native Species Preservation Project.

Staff continued participating in the Collaborative Science and Adaptive Management Program (CSAMP), including participation on the Collaborative Adaptive Management Team (CAMT). In June, CAMT received a briefing on the Delta smelt entrainment studies and continued discussions on the CAMT monitoring assessment effort.

Date of Report: 7/12/2022

## Board Report (Bay-Delta Management Report)

Staff continued collaboration with the environmental organizations on the CSAMP Salmon Recovery Initiative. A series of workshops were held in June with interested parties to share stories on why each party cares or values salmon and translating these values into metrics that allow for evaluation of different salmon management actions. Over 70 individuals participated in the workshops; these interested parties represented NGOs, tribal governments, agriculture, water, fishing industries, and state and federal resource agencies. The next several months will be spent on the development and translation of these values into metrics. The project's purpose is to develop an effective and implementable strategy for recovering listed and non-listed salmonids in California's Central Valley while considering other social, ecological, and economic interests in the region. In June, the *San Francisco Estuary Magazine* published an article about the Reorienting to Salmon Recovery project that includes input from Metropolitan staff and other members of the project team (<https://archive.estuarynews.org/reorienting-to-salmon-recovery/>).

### Habitat Restoration

Staff attended a Habitat Planning Workshop with representatives from DWR, California Department of Fish and Wildlife and others to discuss the status of proposed habitat restoration projects that can be constructed in the next three to five years. The purpose of the workshop was to identify projects that are ready for implementation and to identify barriers to implementation such as permitting, funding, equipment or staffing resources, so that the agencies can identify areas where they can help.



Water Planning & Stewardship Committee

# Water Resource Management Managers Report

Item 7c

July 12, 2022

# Water Resource Manager's Report

## Topics

- Annual Water Supply and Demand Assessment
- Open Water Data initiatives

# Conservation as a California Way of Life Legislation

## Annual Water Supply & Demand Assessment

- New requirement of 2018 legislative package (SB 606/AB 1668)
- Submitted first annual water shortage assessment report on Jun. 30
  - Difference between “unconstrained” demand and available supply for current & one dry year
  - Planned shortage response actions
  - Coordinated with Member Agencies on submittal



# Open Water Data Initiatives

## California Water Data Consortium

- Improve access to information necessary for urban water management during drought.

