Recovery Planning Advisory Group
Agenda

1. Welcome and Introductions
2. Update on Colorado River Hydrology
3. Review of Planning Timeline under 2021 Joint Update
4. Summary of M&I Priority Subcontractor Firming Meetings
5. Review of CAP Recovery Capacity
6. Firming Agreements
   a. AWBA Standard Intergovernmental Agreement for CAP M&I Firming
   b. CAWCD Standard Firming Agreements
7. Member Roundtable
8. Next Steps
9. Public Comments
Colorado River System Reservoir Status

TOTAL SYSTEM CONTENTS – 34% or 20.32 MAF
Total system contents last year 42% or 25.28 MAF

May 2022
Updated as of May 12, 2022

Lake Powell
- 24% 5.85 MAF
- 3,523.71 ft
- Equalization Level: 3,660 ft WY 2022

Lake Mead
- 30% 7.82 MAF
- 1,075 ft Tier One Shortage
- 1,051.93 ft

Data Source: Bureau of Reclamation
Dry soil, higher temperatures, and low precipitation have contributed to low runoff conditions.
Lake Mead End of Month Elevations
Projections from the April 2022 24-Month Study Inflow Scenarios

End of CY 2022 Projections
- Most Probable: 1,047.10 feet (29% full)
- Probable Min/Max Range: 1,045.01 to 1,049.08 feet

End of CY 2023 Projections
- Most Probable: 1,037.44 feet (26% full)
- Probable Min/Max Range: 1,017.07 to 1,043.24 feet
Progressive planning triggers for M&I firming

- **Trigger 1:** BOR April 5-year table shows > 15% probability of M&I shortage in third year
  - Met in 2021 with 5-Yr Probability tables showing increasing likelihood of shortage from April to August
- **Trigger 2:** BOR April 24-Month Study “Min Probable” forecast projects M&I shortage in second year
- **Trigger 3:** BOR April 24-Month Study “Most Probable” forecast projects M&I shortage in following year
Trigger 2 -

“Min Probable” indicates potential for a Tier 3 shortage in 2024
M&I Firming - Operational Coordination

Two Years Prior to potential M&I firming year:

- Consultations meetings held in March with CAP M&I subcontractors on proposed firming method and credit distribution (CAP / Independent Recovery)

- CAWCD to provide notification of water availability in June “Water Delivery Schedule Request”

- Estimated firming volumes and methods included in AWBA Ten-Year Plan

- August 24-Month Study continues to indicate potential M&I firming
  - Notification/discussion at CAWCD Water Users Briefings
  - Initial requests for CAP recovery submitted with October 1 water orders.

- Estimated firming volumes and methods reported to CAWCD and AWBA governing bodies
M&I Firming - Operational Coordination

Year Prior to M&I firming year:

- AWBA, CAWCD and M&I subcontractors finalize estimated firming volumes and firming methods (January – May)
  - AWBA and CAP M&I subcontractors confirm firming method by May 15.
    - Firming agreements needed for CAP firming delivery and/or AWBA direct distribution of credits
  - Incorporated into AWBA Ten-Year Plan (June)
  - AWBA identifies credit for distribution (Aug)

- August 24-Month Study confirms shortage reductions in the following year
  - Notification of M&I supply estimates at CAWCD Water Users Briefings
  - Confirmed firming methods and estimated firming volumes identified in AWBA preliminary Plan of Operation (September)
  - Confirmed requests for CAP recovery submitted with water orders (October 1)

- Potential for adjustments based on actual CAP water orders
- CAWCD firming volumes included in approved final delivery schedules (November)
- Final credit distribution plan incorporated in AWBA Plan (December)
M&I Priority Subcontractor Firming Meetings

Initial consultations with CAP M&I subcontractors:

- Hosted 4 meetings: Pinal AMA, Tucson AMA, Phoenix AMA (East), Phoenix AMA (West)
- 21 subcontractors attended

Presentation topics:

- Brief background of the AWBA's role during Colorado River shortages
- Impacts of potential supply reductions
- Recovery methods available for addressing these reductions

Feedback & discussion:

- Subcontractors confirmed what recovery methods they anticipate using
- Potential for more CAP recovery than anticipated in the East Valley
- The AWBA and CAP are welcoming discussions with individual subcontractors, and will update the recovery capacity analysis with new information collected
Storage Location

• All parties agree that the location of recovery, relative to storage, is an important consideration when AWBA credits are distributed.
Recovery — Tucson AMA

- Most Tucson AMA recovery is expected to be independent from CAP
- Large existing recovery infrastructure
- CAP’s agreement with Tucson allows efficient recovery for Nevada
Recovery — Pinal AMA

• Most Pinal AMA recovery will be performed by CAP, either directly or with partners
  - Existing Ag Recovery Capacity Agreements, and AZ Water Company agreement, partially address needs
  - Ongoing discussions with Hohokam IDD
  - Some Direct Recovery (i.e., discharge directly to the CAP canal) may be needed
Credits earned at the Gila River Indian Irrigation and Drainage District are anticipated to be utilized on-reservation.

In the southeast, Independent Recovery and use of CAP’s Ag Recovery Capacity Agreements is expected:
- Direct Recovery with Ag district wells is also under consideration.

In the SRP territory, Independent Recovery predominates:
- Direct Recovery through the proposed SRP-CAP Interconnect is under consideration by CAP.
Recovery — Phoenix AMA continued

• By the Agua Fria, Independent Recovery and use of the CAGRD Exchange is anticipated

• In the vicinity of the Tonopah Desert Recharge Project (TDRP), Direct Recovery and an Ag Exchange Agreement are being pursued
  – TDRP recovery remains a priority
CAP Recovery Capacity Updates

- Amendments for 5,000 AF of additional recovery capacity in the Phoenix AMA have been executed
- Increases Phoenix AMA recovery capacity to 23,676 AF
- Ongoing discussions with Tonopah Irrigation District and landowners regarding recovery capacity agreements

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TDRP Direct Recovery

• Direct recovery capacity remains an objective for CAP
  – The geophysical and water quality attributes at TDRP have required a reassessment of wellfield design and capacity expectations
  – Capacity volumes are more in-line to reflect updated recovery plans

• TDRP Direct Recovery Plan
  – Wells located within and outside of the TDRP site
  – Target capacity of 10-15,000 KAF/year phased-in over time
  – Treatment options and associated costs refined based on new recovery wells
M&I Firming Agreements

AWBA Standard Template M&I Firming Agreement

- Draft distributed to subcontractors April 26
- Meetings held on May 10th and 11th for questions and comments
- Reviewing comments received
- Final draft to be presented at the AWBA June meeting for approval
CAWCD M&I Firming Services Agreement

• M&I Firming Services Agreement Timeline
  – Draft agreement will be shared with M&I subcontractors
  – Final draft will require CAWCD Board approval
  – Finalize and execute agreements by quarter 3 of 2022
    • Firming volume estimates for 2023/2024 requested with agreement execution

• What to expect?
  – Supplemental water delivery contract with subcontract as an exhibit
  – Will incorporate subcontract terms and conditions
  – Language regarding requested recovery volumes
  – Payment provisions
  – Liability provisions for firming water, i.e. water quality, recovery partners ability to perform
Member Roundtable
Next Steps

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- Agency Coordination Meetings
- CAP/ADWR Briefing
- CAP Water Users Shortage Briefing
- CAP Annual Water Users Briefing
- CAP AOP Development

Preparation | Coordination | Implementation
Public Comments