



CENTRAL ARIZONA PROJECT

P.O. Box 43020
Phoenix, Arizona 85080

September 28, 2023

Mr. Jeremy Dodds

Bureau of Reclamation
Lower Colorado Regional Office
LCB-4200
P.O. Box 61470
Boulder City, NV 89006-1470

Dear Mr. Dodds,

Following your letter regarding the Estimate of Calendar Year (CY) Colorado Diversions – Central Arizona Water Conservation District (CAWCD) and in preparation for our upcoming consultation, we have developed an estimate of CAWCD's Colorado River Diversions for your use. The CAWCD 2024 Diversion estimate includes a reduction required pursuant to the 2007 Interim Guidelines, contributions to Lake Mead in accordance with the Lower Basin Drought Contingency Plan (LB DCP), system conservation agreements by CAP Contractors and Subcontractors, CAWCD Intentionally Created Surplus (ICS) release required for mitigation pursuant to the LB DCP, and wheeling of non-project water pursuant to federal wheeling agreements.

As you know, the August Most Probable 24-Month Study projected end of calendar year 2023 Lake Mead elevation at elevation 1065.27 feet. Consistent with Section 2.D.1 of the Interim Guidelines and Section III.B of Exhibit 1 to the LB DCP, a Tier 1 shortage condition will govern the operation of Lake Mead in 2024. Pursuant to the 2007 Guidelines and the LB DCP Agreements there will be a shortage reduction of 320,000 acre-feet (AF) and a DCP contribution of 192,000 AF to Arizona's Basic Apportionment. Reclamation in its letter regarding notification of Tier 1 Shortage Condition and LB DCP contributions for the Lower Colorado River in CY 2024 included these reductions in its estimate of 1,149,934 AF for the Arizona fourth priority Colorado River water available supply for CY 2024 provided. CAWCD acknowledges this estimate in the included estimate of CAWCD's Colorado River diversion for 2024 but does intend to divert the balance of Arizona's reduced apportionment not consumed by equal and higher priority entitlement holders in accordance with contract No. 14-06-W-245, as amended and supplemented. CAWCD will also provide Arizona's 192,000 AF of LB DCP contributions through a range of actions consistent with the LB DCP agreements including simultaneous creation of EC-ICS and conversion to DCP-ICS.

CAWCD acknowledges the efforts of Reclamation and water users in the Lower Colorado River Basin to conserve water through participation in Reclamations' Lower Colorado River Basin Conservation and Efficiency program in

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2024. A summary of the conservation agreements and associated reductions considered in the CAWCD diversion estimate are included in the table below.

2024 Forbearance and Reductions to CAP Diversion	Per Letter Agreement #	Amount (AF) ¹
Yuma Mesa Irrigation and Drainage District	23-XX-30-W0769	13,670
Mohave Valley Irrigation and Drainage District	23-XX-30-W0770	12,819
Gabrych	23-XX-30-W0774	3,240
Cathcarts	23-XX-30-W0776	60
Cibola Valley Irrigation and Drainage District	23-XX-30-W0769	2,700
242 Wellfield Expansion	16-XX-30-W0603	25,000
<i>Subtotal On-River Forbearance</i>		<i>57,489</i>
System Conservation Water - ASARCO LLC	23-XX-30-W0752	21,000
System Conservation Water - Gilbert	23-XX-30-W0759	1,200
System Conservation Water - Glendale	23-XX-30-W0778	7,000
System Conservation Water - Metro Water	23-XX-30-W0757	5,000
System Conservation Water - Peoria	23-XX-30-W0753	7,200
System Conservation Water - Phoenix	23-XX-30-W0754	50,000
System Conservation Water - Scottsdale	23-XX-30-W0755	6,000
System Conservation Water - Tucson	23-XX-30-W0756	30,000
System Conservation Water - Spanish Trails Water Company	23-XX-30-W0801	2,400
System Conservation Water - Fort McDowell Yavapai Nation	23-XX-30-W0750	13,933
System Conservation Water - Gila River Indian Community	23-XX-30-W0760	125,000
<i>Subtotal CAP Water User Forbearance</i>		<i>268,733</i>
<i>Subtotal 2007 Guidelines Reduction</i>		<i>320,000</i>
<i>Subtotal Reduction for CAP DCP Contribution</i>		<i>192,000</i>
<i>Total</i>		<i>838,222</i>

¹ These figures are estimates of program system conservation. Final amounts will be verified according to provisions in each System Conservation Implementation Agreement (SCIA).

Shortage reductions to the Arizona fourth priority available Colorado River water has resulted in shortage to CAWCD NIA priority contracts. Pursuant to the Arizona DCP implementation plan, CAWCD has estimated that 30,980 AF of CAWCD ICS will be released for delivery to satisfy these requirements. CAWCD also intends to divert 2,033 AF of Colorado River water for the Town of Queen Creek in accordance with Reclamation wheeling contract 20-XX-30-W0691 with Reclamations approval of the Town’s water order. The table below shows factors considered in developing CAWCD’s Colorado River water diversion estimate for CY 2024 but it is anticipated that CAWCD will modify this estimate, following the final development of its Annual Operating Plan, which will incorporate all customer water orders and delivery requirements, conservation activities, and shortage mitigation resource requirements.

CAP Diversion Estimate Adjustments	AF of CU for CY 2024
AZ Fourth Priority Supply	1,149,934 ¹
Minus P4(i) Available Supply (CU Equivalent of 113,995 AF)	(70,635) ²
Equals Fourth Priority Water Available to CAP Contractors and Subcontractors at the CAP Point of Diversion	1,079,299³
Plus P3 Priority Water	72,000
Plus Release of CAWCD ICS for DCP Mitigation	30,980
Plus Wheeled Water	2,033
Minus CAP Service Area System Conservation	(268,733)
Equals CAP 2024 Colorado River Diversion	915,579

¹ Fourth priority supply available after 2007 Guidelines Reductions, DCP Contributions and the average historical consumptive use by Arizona first, second, and third priority users is based on the four highest years of consumptive use during the five-year period from 2018-2022.

² The P4(i) pool will receive 9.85% of the Arizona fourth priority Colorado River water available for CY2024, calculated as 164,652 AF divided by the difference between Arizona’s 2.8 MAF basic apportionment and the average historical consumptive use by Arizona first, second, and third priority users. The average historical consumptive use by Arizona first, second, and third priority users is based on the four highest years of consumptive use during the five-year period from 2018-2022.

³ The volume of fourth priority water available to CAP Contractors and subcontractors at the CAP point of diversion does not account for the unauthorized uses that has been occurring on-River. These illegal uses negatively and unlawfully impact the available supply to CAP and the volume shown is subject to change depending on the completion and resolution of Reclamation and ADWR review of consumptive use that may not presently hold an entitlement to the Colorado River water, or which may be outside current parameters.

Listed below are the Central Arizona Project’s (CAP’s) monthly Colorado River diversion estimates, to be pumped through the Mark Wilmer (Havas) Pumping Plant, for calendar year 2024.

Month	Acre-Feet
January	45,600
February	50,600
March	132,100
April	168,700

May	169,500
June	57,200
July	20,700
August	22,100
September	66,200
October	87,800
November	52,800
December	42,279
Total	915,579

CAWCD will continue to coordinate with Reclamation and modify its water order accordingly as ICS and conservation activities that affect CAP's diversion become known. If Arizona's final 2024 use is less than Arizona's apportionment, when accounting for mandatory contributions and other system conservation activities, CAWCD requests the unused volume remain in the Colorado River system storage.

Attached you will find a completed Part 417 Consultation Questionnaire for CY 2024.

If you have any questions or require additional information, feel free to contact me or Don Crandall at 623-869-2457.

Sincerely,



Brenda Burman, General Manager
Central Arizona Water Conservation District

- c: Tom Buschatzke, ADWR
Clint Chandler, ADWR
Kristen Johnson, ADWR
Alex Smith, USBR
Darrin Francom, CAP
Patrick Dent, CAP
Vineetha Kartha, CAP
Ken Seasholes, CAP
Brian Buzard, CAP
Don Crandall, CAP

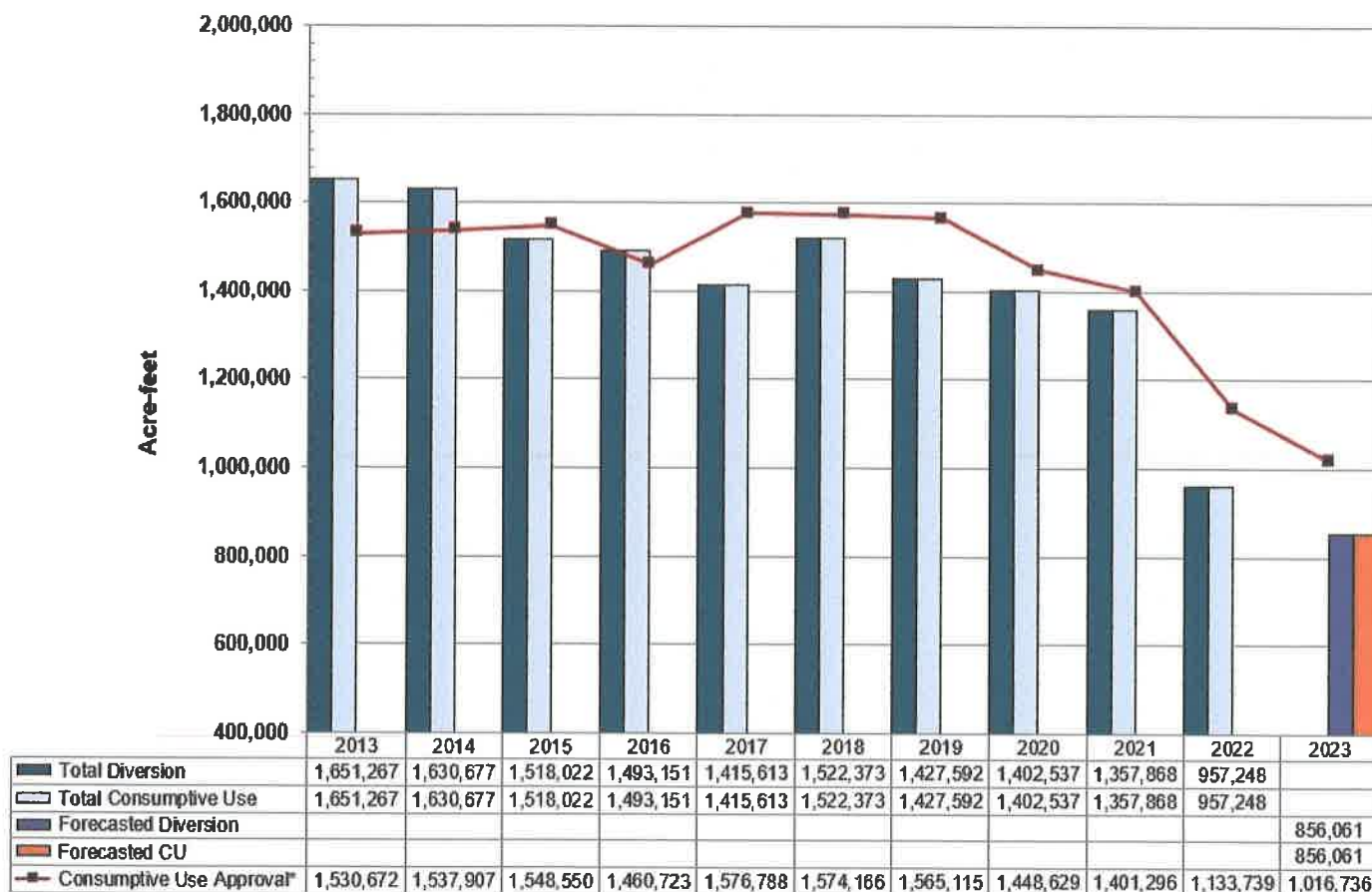
Part 417 Consultation Questionnaire for Calendar Year 2024 Central Arizona Water Conservation District (CAWCD)

Purpose and Instructions: Your questionnaire responses will assist the Lower Colorado Regional Director in making a determination regarding CAWCD’s estimated water requirements during the upcoming year, one of the obligations required by “Part 417-Procedural Methods of Implementing Colorado River Water Conservation Measures with Lower Basin Contractors and Others” of the *Code of Federal Regulations (43 CFR 417 (2023))*, established by Federal law. Please respond to each question and return the completed document along with an annual diversion estimate (including a monthly diversion schedule) no later than **September 30, 2023**.

Please ensure the information you provide is thorough and accurate and please avoid answering with “No Change.” Feel free to provide any additional documentation to support your diversion request for calendar year (CY) 2024. Your responses may be submitted in an alternative format provided all questions are clearly answered. As used herein, the term “upcoming year” refers to CY 2024; and the term “current year” refers to CY 2023. For assistance, contact John Shields at 702-293-8425, or via email at jshields@usbr.gov.

Historical Use: Figure 1 provides an historical record of CAWCD’s diversions and consumptive use of Colorado River water for CYs 2013-2022 and CAWCD’s CY 2023 forecasted diversion and consumptive use as of August 1, 2023. Historical use is a factor taken into consideration during the Part 417 process.

Central Arizona Water Conservation District



* Consumptive use approval amounts are based on initial water order approval and do not reflect subsequent revisions.

Figure 1. Historical CAWCD diversions and consumptive use, 2013-2022. Forecast 2023 diversion and consumptive use as of August 1, 2023.

Calendar Year 2024 Part 417 Consultation Questionnaire for CAWCD

- 1. Area Served:** Please describe CAWCD's current contract service area (e.g. size, population served, number of connections, etc.).

The Central Arizona Project serves Maricopa, Pinal, and Pima Counties which together, have an approximate population of 6 million. These counties represent 80% of Arizona's population. CAP provides water to approximately 350,000 acres of irrigated agriculture, 11 Native American Tribes, Nations, and Communities, industrial water users such as mining, and municipal water providers such as Phoenix and Tucson.

- 2. Number of Connections:** Does CAWCD intend to add to or reduce the number of connections in its service area during the upcoming year? Add Reduce. If a change is contemplated, by how many?

One new turnout that was anticipated to become operational in 2023 did not. It may become operational in 2024.

3. Customers:

Types of Customers	Annual Water Delivery (acre-feet)	Percent of Total
Single-family Residential		
Multi-family Residential		
Commercial		
Industrial		
Institutional (incl. Government Facilities, Hospitals & other Medical Facilities, Educational Facilities & Military Installations)		
Other (Please Identify):		
Total:	984,094.0	100%

- 4. Location of Water Carriage & Distribution Facilities:** Please describe any changes in CAWCD's water carriage and distribution facilities (e.g. point(s) of diversion, storage, treatment, conveyance, etc.) made this year or are planned for the upcoming year:

Community Water Company of Green Valley may complete its system connection to its CAP turnout and potentially schedule water deliveries in 2023.

- 5. Water Use Practices:** Please describe any conservation or efficiency projects (e.g. recycling and reuse, turf removal, Xeriscape, etc.) CAWCD anticipates implementing in the upcoming year that may impact CAWCD's water use:

CAP is required by the Basin Project Act in section 1524 subsection C to incorporate water conservation objectives including the requirement to line the system to prevent excessive conveyance losses. In section 6.4 of CAP subcontracts there is a requirement for subcontractors to develop and implement an effective water conservation program. According to the contract language, the program shall include definite goals and measures for meeting water conservation objectives.

Calendar Year 2024 Part 417 Consultation Questionnaire for CAWCD

- 6. Condition of Water Carriage & Distribution Facilities:** Please describe the general condition of CAWCD's water carriage and distribution facilities and note any improvements or repairs which CAWCD has made in the current year or plans to make in the upcoming year:

CAP regularly undergoes a facility review process with Reclamations' local offices. Consideration of the condition of the distribution facilities should be referred to the Bureau of Reclamation, Phoenix Area Office (PXA0) where official reports on CAP facilities condition are available for review.

- 7. General Operating Practices/Policies:** Please describe any planned changes in CAWCD's operating practices or policies that may impact its water use:

CAWCD will continue to deliver water to its customers in accordance with the CAP Master Repayment Contract and subsequent subcontracts with CAP customers. CAWCD will modify its diversions to align with 2007 Guidelines reductions, DCP contributions, approved Intentionally Created Surplus (ICS) plans, and system conservation projects pursuant to all relevant agreements for 2023.

- 8. Operating Efficiencies:** Please provide an estimate of water use efficiency and indicate the relative trend of this efficiency. (As used here, "water use efficiency" is determined as the total amount of water delivered to customers divided by the total amount of water diverted, expressed as percent.)

① The total amount of water delivered to customers was 984,094.0 acre-feet (AF) in 2022.

② The total amount of water diverted/pumped into our distribution network was 957,248.0 AF in 2022.

Our 2022 water use efficiency was ① 984,094.0 / ② 957,248.0 = 102.80%.

Compared to 2022 we anticipate our 2024 efficiency will increase decrease remain the same.

- 9. Use Rate:** Please provide CAWCD's average rate of use as measured in gallons per capita per day. Please (a) describe the method used to calculate this rate; (b) discuss any changes made from the prior year's computation; and (c) indicate the general use rate trend (e.g., is usage going up, going down or staying about the same? If changing, by approximately how much?):

N/A - CAP is a wholesale raw water provider and does not deliver directly to retail end users.

Calendar Year 2024 Part 417 Consultation Questionnaire for CAWCD

10. Provisions of User's Water Delivery Contract: Does CAWCD anticipate proposing any changes to its water delivery contract that will impact its water use in the upcoming year? Yes No If "Yes", please explain:

11. Water Rates: Please provide a copy of CAWCD's current rate structure. Please feel free to attach the rate structure document as an attachment to this questionnaire. Does CAWCD anticipate any water rate changes for its customers in the upcoming year? Yes No If "Yes", please explain:

For 2022 the final reconciled rate for was \$136.12 for Fixed OM&R and \$55.46 for Energy. The total water delivery rate was \$178.58. The Capital Charge was \$50. Water delivery volumes were 998,827 Acre Feet. With continued conservation across the service area creating lower water volumes rates for 2023 will be higher than for 2022. For 2023 the projected rate is \$188.83 for Fixed OM&R and \$57.04 for energy. The capital charge is \$56.00. Water delivery volumes were 808,664 Acre-Feet

12. Water Conservation: Please briefly describe water conservation measures CAWCD implemented in the current year and intends to implement in the upcoming year (e.g. expenditures, project components, & estimated water savings).

In 2023 CAP will reduce its consumptive use in accordance with the 2007 Interim Guidelines reductions to the Stat of Arizona Basic Apportionment and contributions made resulting from the Drought Contingency Plan (DCP) Agreements. Mandatory contributions to Lake Mead from Arizona will be solely addressed by CAP and will be accomplished through reductions in deliveries to the CAP Excess Water, Ag Pool, and NIA subcontracts and through compensated conservation agreements and DCP ICS programs. These reductions in total will satisfy the 320,000 Acre-Feed reduction to Arizona's apportionments and 192,000 Acre-Feet of DCP contributions to Lake Mead. In addition to these reductions CAP Contractors and Subcontractors conserved 269,927 Acre-Feet of water in Lake Mead through participation in Reclamations Lower Colorado River Basin Conservation and Efficiency program.

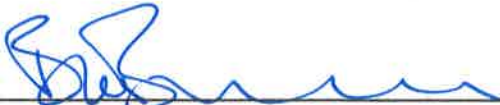
13. Other Relevant Information. Please discuss other factor(s) or information you believe may be relevant to CAWCD's water order for the upcoming year.

CAP will continue to inform Reclamation on adjustments to CAP's Colorado River Diversion when changes to its diversion are required for either real time operations or for forbearance actions as a result of new conservation plans if executed in 2024.

Thank you for your time and effort in filling out this questionnaire. The information you provide in this questionnaire is important to the annual 43 CFR 417 process, required by Federal law. Please return the completed document along with your 2024 annual diversion estimate (including a monthly diversion schedule) to: Jeremy Dodds, Manager, Water Accounting and Verification Group, Boulder Canyon Operations Office, Bureau of Reclamation, preferably by email sent to jdodds@usbr.gov, by **September 30, 2023**. Thank you.

Submitted by:

Signature/Title



Date

9-28-23