

# MOJAVE BASIN AREA WATERMASTER

FOR  
CITY OF BARSTOW, ET AL, VS. CITY OF ADELANTO, ET AL,  
CASE NO. 208568 - RIVERSIDE COUNTY SUPERIOR COURT

May 1, 2022

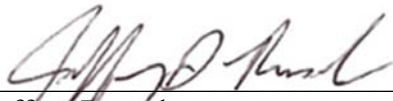
**TO: Clerk of the Superior Court  
of Riverside County, California**

**RE: Watermaster Annual Report for Water Year 2020-21**

Pursuant to Judgment After Trial in the case of City of Barstow, et al., vs. City of Adelanto, et al., Case No. 208568 entered January 10, 1996, submitted herewith is the Twenty-eighth Annual Report of the Mojave Basin Area Watermaster, dated May 1, 2022, setting forth the activities and determinations of the Watermaster for Water Year 2020-21.

Respectfully submitted,

MOJAVE BASIN AREA WATERMASTER

By:   
Jeffrey Ruesch  
Watermaster Services Manager



**WATERMASTER:**

Jeanette Hayhurst, Chairman  
Kimberly Cox, Vice Chairman  
Ken Anderson  
Michael Limbaugh  
Mike Page  
Rick Roelle  
Jim Ventura

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Allison Febbo, Executive Officer  
Deronda Smith, Secretary  
Lynne Chaimowitz, Treasurer  
William J. Brunick, Attorney  
Robert C. Wagner, Engineer

**TWENTY-EIGHTH ANNUAL REPORT**

**OF THE**

**MOJAVE BASIN AREA WATERMASTER**

**WATER YEAR 2020-21**

CITY OF BARSTOW, ET AL, VS. CITY OF ADELANTO, ET AL,  
CASE NO. 208568 -- RIVERSIDE COUNTY SUPERIOR COURT

**MAY 1, 2022**



**TWENTY-EIGHTH ANNUAL REPORT OF THE  
MOJAVE BASIN AREA WATERMASTER  
FOR WATER YEAR 2020-21**

**TABLE OF CONTENTS**

**CHAPTER 1**

	<b><u>Page</u></b>
<b>INTRODUCTION.....</b>	<b>1</b>
Scope of Report.....	1
History of Litigation .....	2
Summary of the Judgment .....	4
The Physical Solution .....	6

**CHAPTER 2**

<b>SUMMARY OF WATERMASTER ACTIVITIES .....</b>	<b>9</b>
Transfers .....	9
Rules and Regulations.....	10
Biological Resources Trust Fund.....	10
Storage Agreements .....	10
Subarea Advisory Committees .....	12
Water Production and Verification .....	13
Quantifying Production not Under the Judgment .....	13
Streamflow, Precipitation and Other Data .....	15
Related MWA Activities.....	15

**CHAPTER 3**

<b>WATER SUPPLY CONDITIONS .....</b>	<b>18</b>
Precipitation during 2020-21 .....	18
Runoff during 2020-21 .....	18
At the Forks.....	20
At Lower Narrows .....	20
At Barstow .....	20
At Afton .....	20
Wastewater Imports .....	21
Victor Valley Wastewater Reclamation Authority Wastewater Effluent Discharges .....	21
Imported Water Deliveries by MWA .....	22
Transition Zone Water Levels .....	23
Transition Zone Water Balance .....	24
Subarea Water Levels .....	26
State of the Basin .....	28



## CHAPTER 4

<b>STATUS OF REPLACEMENT WATER AND MAKEUP WATER OBLIGATIONS .....</b>	<b>31</b>
Replacement Water .....	31
Makeup Water.....	32

## CHAPTER 5

<b>FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23 .....</b>	<b>35</b>
---	-----------

## CHAPTER 6

<b>FINANCIAL REPORT PROPOSED BUDGET AND ASSESSMENT RATES .....</b>	<b>41</b>
Income Statement/Balance Sheet Summary .....	41
Biological Resources Trust Fund Summary .....	41
Administrative Budget for 2022-23 .....	41
Summary of Makeup Water Purchases.....	41
Summary of Replacement Water Purchases .....	42
Administrative and Biological Assessment Rates for 2022-23 .....	42
Projected Replacement and Makeup Water Assessment Rates for 2021-22 and 2022-23 .....	42

## TABLES

	<b><u>Title</u></b>	<b><u>Page</u></b>
2-1	Administrative Budget and Assessment Rates for Water Year 2021-22 .....	11
3-1	Monthly Discharge Amounts for Water Year 2020-21 .....	19
3-2	Annual Change in Storage by Subarea for Water Year 2020-21 .....	30
4-1	Summary of Replacement Water Obligations and Replacement Water Assessments for Water Year 2020-21 .....	32
4-2	Status of Subarea Obligations at the End of Water Year 2020-21 .....	33
4-3	Status of Alto Subarea Obligations for Water Years 2011-12 through 2020-21 .....	34
5-1	Subarea Hydrological Inventory Based on Long Term Average Natural Water Supply and Outflow and 2017-18 Imports and Consumptive Use .....	40
6-1	Administrative Budget for Water Year 2022-23 .....	43



## FIGURES

	<u>Title</u>	<b>Following <u>Page</u></b>
3-1	Precipitation Characteristics, Mojave River Watershed .....	18
3-2	Seasonal Precipitation at Victorville Pump Plant and Seasonal Precipitation at Barstow Fire Station .....	18
3-3	Discharge Characteristics, Mojave River at the Forks.....	20
3-4	Seasonal Discharge of Mojave River at Lower Narrows and Seasonal Annual Discharge of Victor Valley Wastewater Reclamation Authority to Mojave River .....	20
3-5	Seasonal Discharge of Mojave River at Barstow and Seasonal Discharge of Mojave River at Afton.....	20
3-6	Alto Transition Zone – Location of Water Level Monitoring Wells.....	25
3-7	North Transition Zone Water Level Hydrographs.....	25
3-8	Middle Transition Zone Water Level Hydrographs.....	25
3-9	South Transition Zone Water Level Hydrographs.....	25
3-10	Transition Zone Water Balance .....	25
3-11	Alto Subarea (West Portion) Water Level Hydrographs and Map .....	27
3-12	Alto Subarea (East Portion) Water Level Hydrographs and Map .....	27
3-13	Alto Subarea (Transition Zone Area) Water Level Hydrographs and Map.....	27
3-14	Baja Subarea Water Level Hydrographs and Map .....	27
3-15	Centro Subarea Water Level Hydrographs and Map.....	27
3-16	Este Subarea Water Level Hydrographs and Map.....	27
3-17	Oeste Subarea Water Level Hydrographs and Map.....	27
3-18	State of the Basin-Alto Subarea Net Change in Storage.....	30
3-19	State of the Basin-Centro Subarea Net Change in Storage.....	30
3-20	State of the Basin-Baja Subarea Net Change in Storage .....	30
3-21	State of the Basin-Este Subarea Net Change in Storage.....	30
3-22	State of the Basin-Oeste Subarea Net Change in Storage.....	30



## APPENDICES

### Title

- A. Map of the Mojave Basin Area
- B. Producer Replacement Water and Makeup Water Obligations and Assessments Due for 2020-21
- C. Separation of Flow Components at Lower Narrows and Afton for 2020-21
- D. Calculation of Subsurface Flows between Subareas [Reserved]
- E. Transfers of Base Annual Production, Free Production Allowance and Prior Year Carryover
- F. Balances in Storage Agreements
- G. Auditor's Report as of June 30, 2021
- H. Free Production Allowance for Water Year 2021-22 and Proposed Free Production Allowance for Water Year 2022-23
- I. Amended Appendix B for Water Year 2019-20 Reconciled for Carryover Transfers In Lieu of Payment of Replacement and Makeup Water Assessments and All Other Errata
- J. Mojave Basin Area Watermaster--Notice List
- K. Permanent Transfers of Base Annual Production Right, 2020-21 Water Year
- L. Published Separately



## APPENDIX L

(Published Separately)

	<u>Page</u>
Introduction .....	I
Mojave Basin Area Water Production Facilities, Cross Index by Owner .....	1
Mojave Basin Area Water Production Facilities, Cross Index by State Well Number .....	54
<u>TABLE 1</u>	
Mojave Basin Area Verified Production by Owner and Facility .....	107
<u>TABLE 1A</u>	
Mojave Basin Area Verified Production for Aquaculture and Recreational Lake Purposes .....	219
<u>TABLE 2</u>	
Mojave Basin Area Summary of Verified Production, Owner Total .....	221
<u>TABLE 3</u>	
Mojave Basin Area Summary of Verified Production in Alto Subarea, Owner Total .....	239
<u>TABLE 4</u>	
Mojave Basin Area Summary of Verified Production in Baja Subarea, Owner Total .....	245



TABLE 5

Mojave Basin Area Summary of Verified Production in Centro Subarea, Owner Total .....	253
---	-----

TABLE 6

Mojave Basin Area Summary of Verified Production in Este Subarea, Owner Total .....	256
---	-----

TABLE 7

Mojave Basin Area Summary of Verified Production in Oeste Subarea, Owner Total .....	259
--	-----

TABLE 8

Mojave Basin Area Permanent Transfers of Base Annual Production Right October 1, 1993 Through September 30, 2021 .....	260
--	-----

TABLE 9

Mojave Basin Area Facility Transfers Reported to Watermaster October 1, 1993 Through September 30, 2021 .....	285
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## CHAPTER 1

### INTRODUCTION

This is the Twenty-Eighth Annual Report of the Mojave Basin Area Watermaster to the Riverside County Superior Court pursuant to the Stipulated Judgment in City of Barstow, et al., vs. City of Adelanto, et al. and related cross-complaints, which were consolidated into Case No. 208568. The Stipulated Judgment addresses water supply shortages in the Mojave Basin Area through the creation of a Physical Solution based upon the allocation of responsibility for correction of annual overdraft and for maintaining historical average annual flows between Subareas.

The Stipulated Judgment requires the Watermaster to file an annual report with the Court by May 1 of each year. The required contents of the annual report are set forth in Section V (B), Paragraph 24 (k) of the Judgment.

#### **Scope of Report**

This Report summarizes most of the information required by the Stipulated Judgment and includes a summary of the Watermaster activities and water supply conditions for Water Year 2020-21. Appendix L to this report consists of a detailed accounting of surface water and groundwater production for Water Year 2020-21. Also included in Appendix L is a list of Base Annual Production (BAP) transfers and changes in ownership. Following is a list of the specific items required by the Judgment and where they may be found in the Report.

- a. Fiscal Report: Chapter 6
- b. Review of Watermaster Activities: Chapter 2
- c. Replacement and Makeup Obligations: Chapter 4 and Appendix B
- d. Hydrologic Data: Chapter 3
- e. Purchase of Supplemental Water: Chapter 6
- f. Recharge with Supplemental Water: Chapter 4
- g. Notice List: Appendix J
- h. Rules and Regulations Adopted: Chapter 2
- i. Proposed Administrative Budget for 2022-23: Chapter 6
- j. Transfers of Base Annual Production Rights: Appendix E, K & L (Table 8)



- k. Transfers of Free Production Allowance during 2020-21: Appendix E
- l. Proposed Free Production Allowances for Subareas: Chapter 5 and Appendix H
- m. Summary of Water Production: Appendix B and Appendix L (Tables 1-7)
- n. Replacement Water Assessments: Appendix B
- o. Makeup Water Assessments: Appendix B
- p. Proposed Administrative and Biological Assessment Rates for 2022-23: Chapter 6
- q. Projected Replacement and Makeup Water Assessment Rates for 2021-22 and 2022-23: Chapter 6
- r. Status of Subarea Obligations: Chapter 4
- s. Biological Trust Fund Financial Report: Chapter 6
- t. Auditor's Report: Appendix G

### **History of Litigation**

**Complaint.** The original complaint was filed by the City of Barstow and Southern California Water Company in San Bernardino County Superior Court on May 30, 1990 and was transferred to Riverside County Superior Court on November 27, 1990. The complaint alleged that the cumulative water production upstream of the City of Barstow has overdrafted the Mojave River system and requested an average annual flow of 30,000 acre-feet of surface water to the City of Barstow area. The complaint also included a request for a writ of mandate to require the Mojave Water Agency ("MWA") to act pursuant to its statutory authority to obtain and provide supplemental water for use within the Mojave Basin Area.

**MWA Cross-Complaint.** On July 26, 1991, the MWA filed its first amended cross-complaint in the case, naming substantially all Producers of water within the Mojave Basin Area, including Parties downstream of the City of Barstow. The MWA cross-complaint requested a declaration that the available native water supply to the Mojave Basin Area is inadequate to meet the demands of the combined Parties and requested a determination of all of the water production of whatever nature within the Mojave Basin Area.

**Arc Las Flores Cross-Complaint.** On July 3, 1991, Arc Las Flores (Rancho Las Flores Ltd. Partnership) filed a cross-complaint asking that the appropriative, overlying and riparian rights of Arc Las Flores be determined to be prior and paramount to any rights of the Plaintiffs and other appropriators.



**Negotiations, Trial and Judgment.** Because of the magnitude and complexity of the case, numerous parties agreed to conduct good faith negotiations, beginning in early 1992, with the objective of devising an equitable solution to the Basin Area's water supply problems and avoiding extensive and expensive litigation. In the ensuing months a committee of attorneys, engineers and other individuals that were generally representative of all types of producers and all Subareas of the Basin Area conducted intense negotiations that resulted in a proposed Stipulated Judgment. The proposal created a class of Minimal Producers (that is, Producers using ten acre-feet of water per year or less) who were dismissed from the case. The proposal also directed the MWA to create an administrative procedure, acceptable to the Court, by which Minimal Producers could participate fairly in the Physical Solution.

Over 75 percent of the parties agreed to the Stipulated Judgment, which was entered by the Court on September 22, 1993, binding all stipulating parties. After entry of the Stipulated Judgment, additional parties agreed to its terms. These parties represented over 80 percent of the verified water production in the Basin. A trial of the claims of the non-stipulating parties began on February 6, 1995 and was completed on March 21, 1995. Final Judgment was entered on January 10, 1996 adopting the physical solution set forth in the Stipulated Judgment.

**Fourth District Court of Appeal and California Supreme Court Review.** Nine non-stipulating parties referred to as the "Cardozo Group" chose to appeal the Judgment entered by the Superior Court. The Appellate Court issued a Tentative Opinion in April 1998 and received oral argument from both the stipulating and non-stipulating parties in May 1998. The Appellate Court issued its final opinion on June 1, 1998. The final opinion affirmed in part and reversed in part the Superior Court Judgment by excluding specific non-stipulating parties (the Cardozo Group) from the Superior Court Judgment and at the same time affirming it as to the stipulating parties. The decision also remanded the issue of the amount of transferable production rights for Jess Ranch Water Company back to the Superior Court for a new determination.

The MWA board voted in June 1998 to seek California Supreme Court Review of the Appellate Court's decision. A petition for review was filed with the Supreme Court in July 1998 and the Supreme Court granted review of the case on August 26, 1998. Oral Arguments were heard by the Supreme Court on June 5, 2000 and its opinion was issued on August 21, 2000. The Supreme Court's opinion affirmed in part and reversed in part the June 1, 1998 opinion of the Fourth District Court of Appeal. The Supreme Court affirmed the Court of Appeal's decision "in



all respects,” except it reversed the Court of Appeal decision as to the Jess Ranch Water Company.

The Court of Appeal had affirmed the Judgment as to the stipulating parties but had reversed it as to the Cardozo Appellants and as to Jess Ranch Water Company. The Court of Appeal opinion essentially excluded the Cardozo Appellants from the Stipulated Judgment, including the Judgment’s assessment provisions. Further, the Court of Appeal granted Judgment to the Cardozo Appellants in the form of injunctive relief to protect their riparian and overlying water rights to the current and prospective reasonable and beneficial need for water on their respective properties.

**Final Resolution of Cardozo Group and Jess Ranch Water Company Appellants.** Effective August 6, 2002 the Cardozo appellants and MWA, on behalf of the stipulating parties, reached agreement regarding the Cardozo appellants’ water rights. Consistent with the ruling from the California Supreme Court in this case, Cardozo Group’s right to pump water from the ground underneath their respective lands for the current and prospective reasonable and beneficial need for water on their respective properties was recognized by the Stipulating parties. Further, to settle all outstanding issues in connection with the Cardozo Group water rights, MWA and Cardozo agreed that “if the parties who stipulated to the Judgment are in full compliance with the Judgment there shall be a rebuttable presumption that the Cardozo Appellants’ water rights are not being interfered with.”

In addition, all remaining water rights issues related to Jess Ranch Water Company and the Stipulating Parties were settled on August 16, 2002. Stipulation for Intervention and Entry of Judgment for Jess Ranch Water Company was filed in Riverside County Superior Court on August 23, 2002.

### **Summary of the Judgment**

For purposes of defining and implementing a physical solution, the Basin is considered to consist of five distinct but hydrologically interrelated “Subareas.” Each Subarea was found to be in overdraft to some extent due to the use of water by all of the producers in that Subarea. In addition, historically some Subareas were found to have received at least a part of their natural water supply from water flowing to them from upstream Subareas either on the surface or as subsurface flow. To maintain that historical relationship, the average annual obligation of any Subarea to another is set equal to the estimated average annual natural flow (excluding storm flow)



between the Subareas over the 60-year period 1930-31 through 1989-90. If the Subarea obligation is not met, Producers of water that does not bear a replacement obligation in the upstream Subarea must provide makeup water.

To maintain proper water balances within each Subarea, the Judgment establishes a decreasing Free Production Allowance (FPA) in each Subarea during the first five years and provides for the Court to review and adjust, as appropriate, the FPA for each Subarea annually thereafter. The FPA is allocated among the Producers in the Subarea based on each Producer's percentage share of the FPA. All water produced in excess of any Producer's share of the FPA must be replaced by the Producer, normally by payment to the Watermaster of funds sufficient to purchase Replacement Water.

Each Producer's percentage share of FPA in a Subarea was determined by first verifying the maximum annual production (called BAP) for each Producer during the five year, 1986-90, Base Period and then calculating each Producer's percentage share of the total of all of such BAP in the Subarea. All such percentage allocations are of equal priority.

Producers in each Subarea are allowed to produce as much water as they need annually to meet their requirements, subject only to compliance with the Physical Solution set forth in the Judgment. An underlying assumption of the Judgment is that sufficient water will be made available to meet the needs of the Basin in the future from a combination of natural supply, imported water, water conservation, water reuse and transfers of FPA among parties.

Special provisions for environmental protection are included in the Judgment, including the creation of a Biological Resources Trust Fund.

MWA was appointed as the initial Watermaster by the Court to administer the Judgment and the Physical Solution set forth therein.



### **The Physical Solution**

**Replacement Water: Keeping Subareas in Balance.** The amount of water that may be produced in a Subarea in any year by a Producer free of any replacement obligation is that Producer's share of the Subarea's FPA. During the first five years that the Judgment is in effect each Producer's share of the FPA in each of the five Subareas, expressed as a percentage of that Producer's BAP is as follows:

Water Year 1993-94	-	100 %
Water Year 1994-95	-	95 %
Water Year 1995-96	-	90 %
Water Year 1996-97	-	85 %
Water Year 1997-98	-	80 %

Before the end of the fifth year and each year thereafter, the Watermaster must analyze conditions in each Subarea and recommend to the Court any increase or further reduction in FPA. The Judgment specifies factors that must be taken into consideration by the Watermaster in the development of an FPA adjustment recommendation. Beginning with the sixth year and each year thereafter, the FPA established by the Court for each Subarea will be allocated to Producers in the ratio of their respective share of the BAP in the Subarea.

Any Producer who produces in any year an amount of water in excess of that Producer's share of the FPA for a Subarea must pay the Watermaster a Replacement Water Assessment. The Watermaster then assumes responsibility for replacing such excess production. The Replacement Water Assessment for a Producer will be equal to the number of acre-feet of excess production by that Producer multiplied by the Replacement Water Assessment Rate per acre-foot as adopted annually by the Watermaster. It is the Watermaster's responsibility to acquire Replacement Water.

**Makeup Water: Meeting Subarea Obligations.** Both average and minimum annual flows must be maintained between adjoining Subareas. Each year an accounting will be made of the amount of such flows. Whenever the amount is less than the minimum amount required by the Judgment the Producers in the upstream Subarea must pay the Watermaster for Makeup Water to be delivered to the downstream Subarea.



If the actual flow in a year is more or less than the average Subarea Obligation, then the upstream Subarea may receive a “credit” or “debit” that can offset any future deficiencies or surpluses.

The cost of Makeup Water will be recovered from Producers within the Subarea incurring the Makeup Obligation through a Makeup Water Assessment. Such assessment will be pro-rated among all production that does not bear a Replacement Obligation. It is the Watermaster’s responsibility to acquire Makeup Water.

**Administrative Assessment: Paying the Cost to Administer the Judgment.** Costs of monitoring flows, verifying annual production, collecting assessments, preparing an annual report to the Court and other such costs will be recovered through a uniform Administrative Assessment against all production within the Basin Area. The Administrative Assessment will be payable quarterly when quarterly production reports are filed.

**Transfers: Buying, Selling or Leasing BAP or FPA.** The Judgment provides a framework for BAP or FPA to be bought, sold or leased within Subareas and between Subareas. For instance, a party who was allocated one percent of the FPA in a Subarea could lease that allocation to a second party in a private transaction. The second party could then produce additional water free of a Replacement Obligation.

The Judgment sets forth some rules governing transfers. The rules are designed to assure that the total consumptive use within a Subarea does not increase as a result of any transfer.

**Biological Resource Mitigation: Protecting Species and Habitat.** The Judgment contains unique provisions for assuring that the water needs of endangered and other species and of riparian habitat in the Mojave Basin Area are protected. Groundwater level standards are set in several key areas along the River. The Judgment must be administered in certain respects with the intent to meet the standards.

In the event standards are not met, a trust fund is established by the Judgment to provide money to buy water, construct wells or other projects proposed by the California Department of Fish and Wildlife (DFW). The trust fund, which is capped initially at \$1,000,000.00 (in 1993 dollars), will be financed by an escalating per acre-foot assessment on production beginning at \$0.50.



**Producer Responsibilities: Reporting and Assessments.** Each Producer is responsible for reporting accurately the amount of water produced and for paying all applicable assessments promptly. Any transfer of BAP or FPA or change in purpose of use must also be reported.

**Subarea Advisory Committees.** The Producers in each Subarea have elected a committee to advise the Watermaster on the administration of the Judgment. The California Department of Fish and Wildlife is an ex-officio member of the Subarea Advisory Committees for the Alto and Baja Subareas.

**Watermaster: Administering the Judgment for the Court.** MWA was appointed the Watermaster initially. MWA or any subsequent appointee can be removed by the Court for failure to administer the Judgment properly and fairly.

The Watermaster is responsible for monitoring flows, verifying water production, reporting to the Court, collecting assessments and conducting studies.

The Watermaster must comply with the Brown Act regarding notices and meetings and with the Public Records Act regarding access to data and records.



## **CHAPTER 2**

### **SUMMARY OF WATERMASTER ACTIVITIES**

During Water Year 2020-21, the Mojave Basin Area Watermaster consisted of Ken Anderson, Kimberly Cox, Jeanette Hayhurst, Michael Limbaugh, Mike Page, Rick Roelle, and Jim Ventura. Mike Page and Kimberly Cox served as Chairperson and Vice Chairperson respectively. Kathy Cortner served as Executive Officer, Deronda Smith as Secretary and Lynne Chaimowitz as Treasurer.

The first Watermaster meeting of the 2020-21 Water Year was held on October 28, 2020 and seven additional meetings were held throughout the year. Copies of the minutes of the meetings as well as other official records are maintained and available at the office of the Watermaster, which is located at 13846 Conference Center Drive, Apple Valley, CA 92307.

As required by the Judgment, the Watermaster prepared the Twenty-seventh Annual Report of the Mojave Basin Area Watermaster for Water Year 2019-20, which was published under the date May 1, 2021.

Watermaster adopted recommendations for FPA for Water Year 2021-22 as indicated in Watermaster's Twenty-seventh Annual Report to the Court. The Court subsequently adopted Watermaster's recommendations but modified the recommendation for Alto Agriculture and Baja. The modifications are included in the Court's Orders dated June 4, 2021.

Actions taken by the Watermaster during the year included acceptance of the Report on Audit for Fiscal Year 2019-20, approval of the Administrative Budget for Water Year 2021-22, and approval of Replacement, Makeup, Administrative and Biological Assessment Rates for Water Year 2021-22. The Administrative Budget and Assessment Rates for 2021-22 were adopted and are summarized on Table 2-1.

#### **Transfers**

There were 223 transfers of FPA and Carryover FPA during the year. These transfers are reported in Appendix E. There were 13 transfers of BAP. Transfers of BAP are reported in Appendix E, K & L (Table 8). Any additional transfers of unused 2020-21 FPA that may take place prior to June 1, 2022 will be reported in Appendix E of the Watermaster's Annual Report for 2021-22.



### **Rules and Regulations**

The Rules and Regulations that were adopted by Watermaster June 30, 1994 and revised December 11, 1996, March 23, 2005 and October 29, 2008 remain in effect.

### **Biological Resources Trust Fund**

The Biological Resources Assessment Rate for 2020-21 was \$0.96 per acre-foot. Expenditures from the Biological Resources Trust Fund during the year for DFW projects totaled \$47,427.00. The Biological Resources Assessment Rate for 2021-22 remained at \$0.96 per acre-foot.

### **Storage Agreements**

A Storage Agreement between Watermaster and MWA covering each Subarea was approved during the 1994-95 Water Year. In September 2016 an amendment and a 20-year extension to 2036 was approved by Watermaster, per the terms of the agreement. In October 2018, an amendment was approved by Watermaster to increase the storage limit for Baja from 23,000 acre-feet to 50,000 acre-feet.

Watermaster entered into a storage agreement with Victorville Water District (formerly VVWD) in June 2002. Per the terms of the agreement, an extension to June 30, 2022 was approved by Watermaster. Another Storage Agreement was entered into with Victorville Water District under different terms in July 2016 for a period of two years. This agreement was extended by Watermaster for an additional 10 years in Oct 2018.

The status of each storage account is reported in Appendix F.



**TABLE 2-1**

**MOJAVE BASIN AREA WATERMASTER  
ADMINISTRATIVE BUDGET AND ASSESSMENT RATES  
FOR WATER YEAR 2021-22**

**ADMINISTRATIVE BUDGET**

1.	Administrative Services	\$ 386,006.00
2.	Engineering Services	\$ 93,500.00
3.	Legal Services	\$ 67,000.00
4.	Audit Services	\$ 3,900.00
<b>Total Estimated Budget</b>		<b>\$ <u>550,406.00</u></b>

**ASSESSMENT RATES**

1. Administrative  
\$4.10/acre-foot of Production
2. Biological  
\$ 0.96/acre-foot of Production
3. Replacement and Makeup Water  
2020-21 \$563.00 /acre-foot<sup>1</sup>  
(6/1/22 Invoice Date)  
2021-22 “*Not to exceed*” \$619.00 /acre-foot<sup>2</sup>  
(6/1/23 Invoice Date)

<sup>1.</sup> The rate adopted for Water Year 2020-21 was adopted by the Mojave Water Agency on January 13, 2022 pursuant to Resolution No. 1110-22 in accordance with the changes to the Watermaster Rules and Regulations adopted October 29, 2008.

<sup>2.</sup> This rate is for obligations incurred in the 2021-22 Water Year which will be billed in June 2023. The fixed rate that will be used for invoicing will be determined by the Mojave Water Agency by February 2023.



## Subarea Advisory Committees

The Judgment requires that every third year the Subarea Advisory Committees elect new members. Each Subarea Advisory Committee consists of five members elected by the producers, with the California Department of Fish and Wildlife acting as an ex-officio member on the Alto and Baja Committees. Nominations, voting and tabulation of results were conducted by Watermaster during January, February and March 2021.

The Subarea Advisory Committees during the 2020-21 Water Year were made up as follows:

### ALTO SUBAREA

Art Bishop  
Town of Apple Valley  
Bobby Boytor  
Mojave Resource Management LLC  
Craig Carlson  
Helendale Community Services District  
Tina Souza  
Hesperia Water District  
Victorville Water District  
California Department of Fish & Game \*\*

### BAJA SUBAREA

Jacob Bootsma  
Jeff Gaastra  
Newberry Springs Recreational Lake  
Association  
**--Vacant Seat--**  
**--Vacant Seat--**  
**--Vacant Seat--**  
California Department of Fish & Game \*\*

### CENTRO SUBAREA

Bobby Boytor  
Mojave Resource Management LLC  
Paul Johnson  
Victorville Water District  
**--Vacant Seat--**  
**--Vacant Seat--**

### ESTE SUBAREA

Chuck Bell\*  
David Rib  
Mitsubishi Cement Corporation  
Richard Selby  
**--Vacant Seat--**  
**--Vacant Seat--**

### OESTE SUBAREA

**--Vacant Seat--**  
**--Vacant Seat--**  
**--Vacant Seat--**  
**--Vacant Seat--**  
**--Vacant Seat--**

\* Chairperson  
\*\* Ex-officio Member



### **Water Production and Verification**

In order to document water usage and to determine each Producer's Replacement Water and Makeup Water Obligations, the Judgment provides for the collection, analysis and verification of annual water production by Producers within each of the five Subareas beginning with Water Year 1993-94. All Producers are required to file quarterly statements (or as otherwise specified in the Rules and Regulations) of production. Verification of production for Water Year 2020-21 was conducted by the Watermaster staff and included verification of all parties to the Judgment. The verified production of all parties for Water Year 2020-21 is assembled and presented in Appendix B and Appendix L (Tables 1-7).

The Watermaster obtained protective orders from the Court in 1992 and 2005 for access and use of annual electrical data from the local service provider Southern California Edison Company (SCE). This data is essential for the verification of water production of parties within the Mojave Basin Area. Pursuant to the protective order, all data is confidential and can only be used by Watermaster for the purpose of calculating water production. This data may not be disseminated to the public in any way. All parties are notified of the release of this information at least 30 days ahead of time and have the option to decline the release of this data. An indemnity clause within the order protects SCE from any potential complaint.

Section 11 of the Rules and Regulations sets forth the criteria for monitoring production. The Watermaster informed Producers of their responsibility to measure production in accordance with the terms of the Judgment and the Rules and Regulations by letter on June 29, 2021. Watermaster will continue its efforts to obtain voluntary compliance with the Rules and Regulations from each Producer.

### **Quantifying Production not Under the Judgment**

Starting in 2015, Watermaster began an effort to review, catalog and quantify uses of water that may be over 10 acre-feet per year which are not currently included in the Judgment. Watermaster obtains aerial photographs encompassing the Mojave Basin Area annually and uses them to assist in annual water production verification for parties to the Judgment. In that effort Watermaster also reviews the photographs to identify properties where water might be produced but where the property and owner are not currently subject to the Judgment. Properties are identified and the extent (acreage) of disturbed lands is estimated from the aerial photographs.



Identifying these parties requires detailed evaluation of hundreds of photographs throughout the 3,400 square mile area of the basin.

Watermaster maintains a database of the parties identified with information such as current owner, addresses, assessor parcel number, estimates of potential water use, crops and land uses. Potential water use was calculated based on climate data and assumptions about crops and land uses as seen on the aerial photographs. In some cases, physical inspection of the property is performed (on a drive by basis) if warranted from the size of the disturbance shown on the photographs or to fully identify crop types. Watermaster has coordinated with the Subarea Advisory Committees as well as obtained information from local residents and water purveyors to identify subject properties.

Staff has personally met with many of the identified parties on a voluntary basis. Voluntary stipulations to the Judgment were obtained from 7 of these parties (generally the larger pumpers). Watermaster has continued to pursue obtaining voluntary compliance from these producers and ask that they consider stipulating to the Judgment

Starting in Spring of 2020 illicit cannabis farms started to pop up all over the Mojave Basin. Staff undertook an effort using October 2020 photographs and again using June 2021 photographs to catalog the number and acreage of cannabis farms. It was estimated that in June of 2021, as much as 4,000 acre-feet was being used for this illicit cultivation of cannabis. Watermaster reported to the Court in its filings in May 2021 the status and issues of illicit cannabis farming in the area.

In June 2021 the Court in its order directed Watermaster to take all reasonable steps to identify any unauthorized production within the basin and to bring that production into compliance with the Judgment and if necessary, the Watermaster shall seek the assistance of the Court in compelling that compliance. Additionally, the Court indicated that if unauthorized production is being conducted by a non-party, the Watermaster shall initiate an action for injunctive relief as expressly authorized by section 12 of the Judgment.

In compliance with the Court's direction, Staff is in the process of completing the first phase of a two phased process to identify, document, and quantify any pumping in excess of 10 acre-feet per year and to bring an action before the Court to consider. The first phase includes those parties believed to be pumping greater than 10 acre-feet in the Este and Oeste Subareas. This will include all types of land uses, including cannabis. The future second phase will encompass the Alto, Centro and Baja Subareas.



### **Streamflow, Precipitation and Other Data**

Various data, including streamflow and precipitation data, are needed to estimate the natural water supplies accruing to each Subarea and to calculate compliance with certain Subarea obligations. Streamflow data required by the Watermaster was furnished by the U.S. Geological Survey ("USGS"). The MWA, under a Cooperative Agreement with the USGS, currently funds 50 percent of the stream gage operation and maintenance at the Deep Creek, Lower Narrows, Barstow and Afton stations. The U.S. Army Corps of Engineers ("ACOE") funds the West Fork Mojave River gage. Beginning with the 1993-94 Water Year, the frequency of direct measurements at the Lower Narrows was increased from once to twice monthly in order to improve the record. The measurements were subsequently increased from twice monthly to weekly during the 1995-96 Water Year, a practice which continued through the 2020-21 Water Year.

The USGS conducted a review of its measurement procedures and statistical data analysis procedures for the Lower Narrows gage in 1998 and reported that the "published stream flow records represent the best determinations of flow possible given the primary data collected in support of the stream flow gaging stations". The USGS concluded by saying that it is confident that its flow measurement and computation techniques will be found adequate and stream flow records validated.

Records of the discharge of reclaimed wastewater to the Mojave River downstream from the Lower Narrows gage were furnished by the Victor Valley Wastewater Reclamation Authority ("VWVRA") and the City of Victorville, Public Works Department (Victorville). These discharge records are used to determine the contribution of the combined VWVRA and Victorville discharge to the Alto Subarea's annual flow obligation to the Centro Subarea.

Precipitation data utilized by Watermaster is compiled from records obtained from the National Oceanographic and Atmospheric Administration ("NOAA") for Victorville and Barstow precipitation stations and for Lake Arrowhead from the San Bernardino County, Department of Public Works precipitation Station #5140 (Lake Arrowhead Fire Station #1).

### **Related MWA Activities**

MWA began evaluating the feasibility of a large-scale Groundwater Banking Program. The technical study will evaluate water banking alternatives and associated necessary capital



improvements, financial benefits and implications, basin effects, environmental/permitting requirements, coordination with the Judgment and other technical issues associated with initiating a groundwater bank. Work began in February 2020 and will be a multi-year study.

Geotechnical and geohydrology investigations in the upper Alto, Oeste and western Este Subareas continued, these will provide better information and data to use in determining the best locations for future off-river recharge basins. Demonstration groundwater recharge facilities in the upper Alto, Oeste and Este Subareas have been developed on sites owned by MWA. In 2020 MWA recharged 15 acre-feet of water into the Este Subarea during demonstration. Two monitoring wells were installed in the west Victorville area to help characterize the subsurface geology and provide permanent high-quality groundwater monitoring data points, and two similar wells will also be installed in Oeste. Each of these studies will characterize surface infiltration rates, subsurface hydrogeologic zones and properties, groundwater levels, hydraulic properties and alluvial sediments of the aquifer as well as identify favorable areas for recharge facilities and help assess the regional suitability of the projects. The Agency's groundwater model for the upper Mojave River Basin will be updated as part of the ongoing investigations.

The Regional, Recharge and Recovery Project (R3) was constructed by MWA as a basin management tool that could be used to help manage where water is recharged and pumped in the Alto Subarea in order to help alleviate basin pumping stresses. MWA maintains three Mojave River recharge sites in the upper Alto Subarea, all upstream of the six R3 Wells that were constructed for the project. Water from the R3 project is pumped on behalf of a stipulating party, as requested, and is subject to the same rules and assessments under the Judgment. Watermaster reports the amount of R3 water delivered to specific stipulating parties in Appendix B. The total amount of deliveries for the 2020-21 Water Year was 2,281 acre-feet. Operational water associated with this project is the responsibility of MWA and is also shown on Appendix B. In June of 2021 the Adelanto R3 extension was completed. This extension will provide for delivery locations farther west in the Alto Subarea.

The MWA entered into a Memorandum of Understanding with the Mojave Desert Resource Conservation District (MDRCD) for the removal of invasive, non-native plants along the Mojave River riparian corridor. The invasive plants, primarily tamarisk, displace native riparian plants species, increase the risk for flooding and fire hazard and use disproportionate quantities of groundwater within the Mojave River floodplain aquifer. About 10,400 acres have been canvassed for invasive plant species along the Mojave River riparian corridor and



approximately 1,780 weed acres have been removed and treated. MWA contributed \$20,000 in 2020-21 and another \$25,000 in 2021-22, which will focus on retreatment and monitoring in the previously treated areas. Department of Fish and Wildlife contributed \$40,000 in 2020-21 and another \$40,000 in 2021-22 to the project for removal and retreatment in the Exhibit H areas identified in the Judgment in the Alto and Baja Subareas.

Launched in 2008, the Cash for Grass program was used by MWA to help achieve a goal of helping local communities meet the state mandated goals of reducing water usage by 20 percent among residential users by the year 2020. Funded with local money and grants from the Department of Water Resources, the program has surpassed its goals resulting in the removal of more than 9 million square feet of residential turf. In 2015, the large-scale Cash for Grass program was initiated and has focused on removal of turf from larger landscape areas such as schools, homeowner associations, golf courses and commercial properties. This program was very successful and ended in 2021. A total of 3.2 million square feet of turf was removed. Ten years ago, per capita water use in the region was 250 gallons a day. Today, that figure has dropped to under 150 gallons per person. The conservation programs instituted have resulted in a reduction of water consumption of more than 30 percent.

The MWA completed a technical study for the Mojave Basin Area to estimate the groundwater production of minimal producers by using aerial photography, sophisticated land use software and local control groups. The data was used to better understand the amount of minimal producer production and to develop a system to account for future minimal producer water use. The estimate of water use by minimal pumpers as of 2011 is substantially less than the amount estimated at the time of trial in 1995. Consequently, the amount of pumping attributed to minimal producers cannot affect a given Party's Base Annual Production Right relative to the Judgment. MWA will continue to evaluate, and update estimated water use by the minimal producers. Currently, the Agency is considering implementation of an Ordinance to regulate future Minimal Producers.



## **CHAPTER 3**

### **WATER SUPPLY CONDITIONS**

After experiencing slightly below average precipitation during 2019-20, the precipitation in the Mojave River Watershed during 2020-21, as measured at Lake Arrowhead was below average at about 70 percent of the 60 Year Base Period average. The combined flow of the West Fork Mojave River and Deep Creek during the 2020-21 Water Year was about 6 percent of the 60-Year Base Period average.

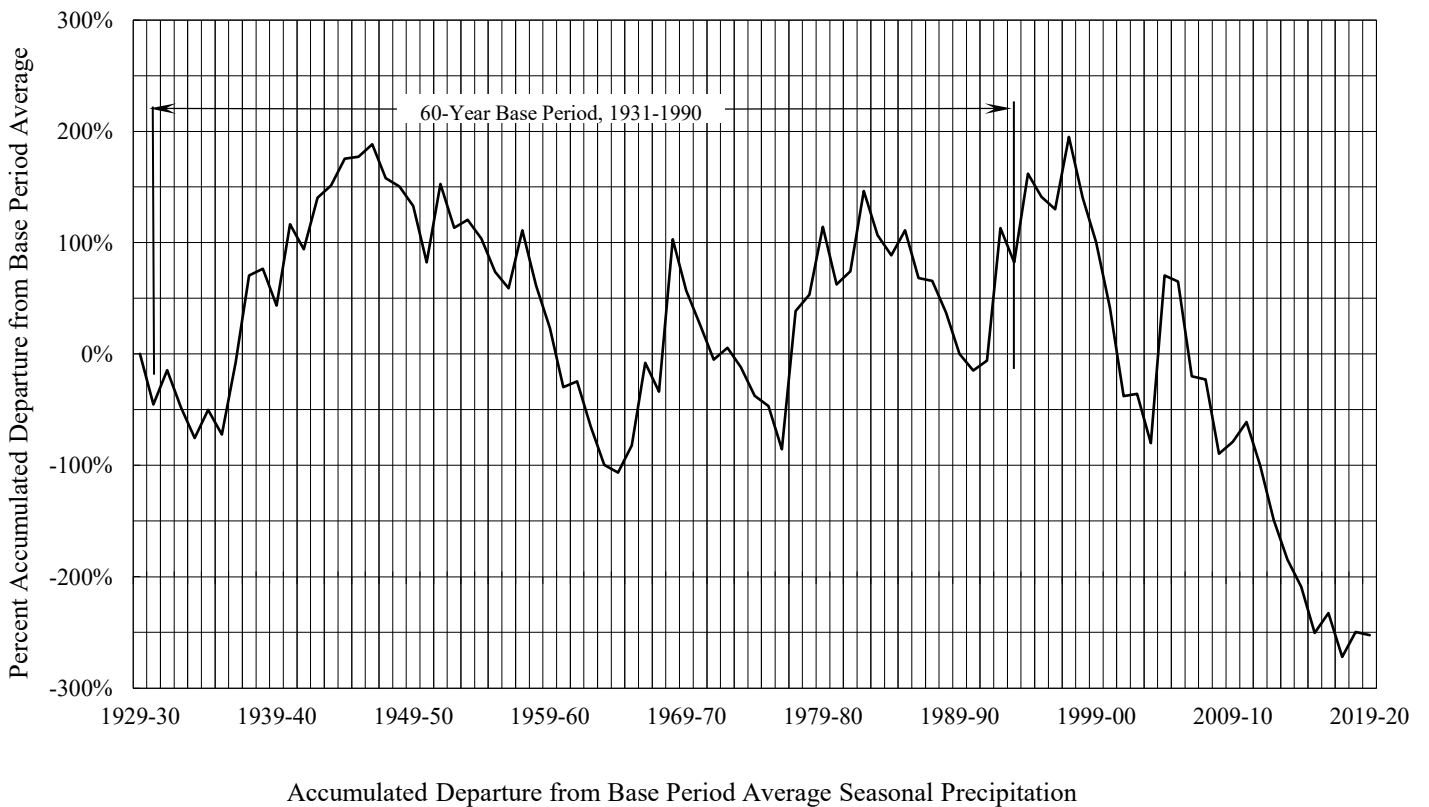
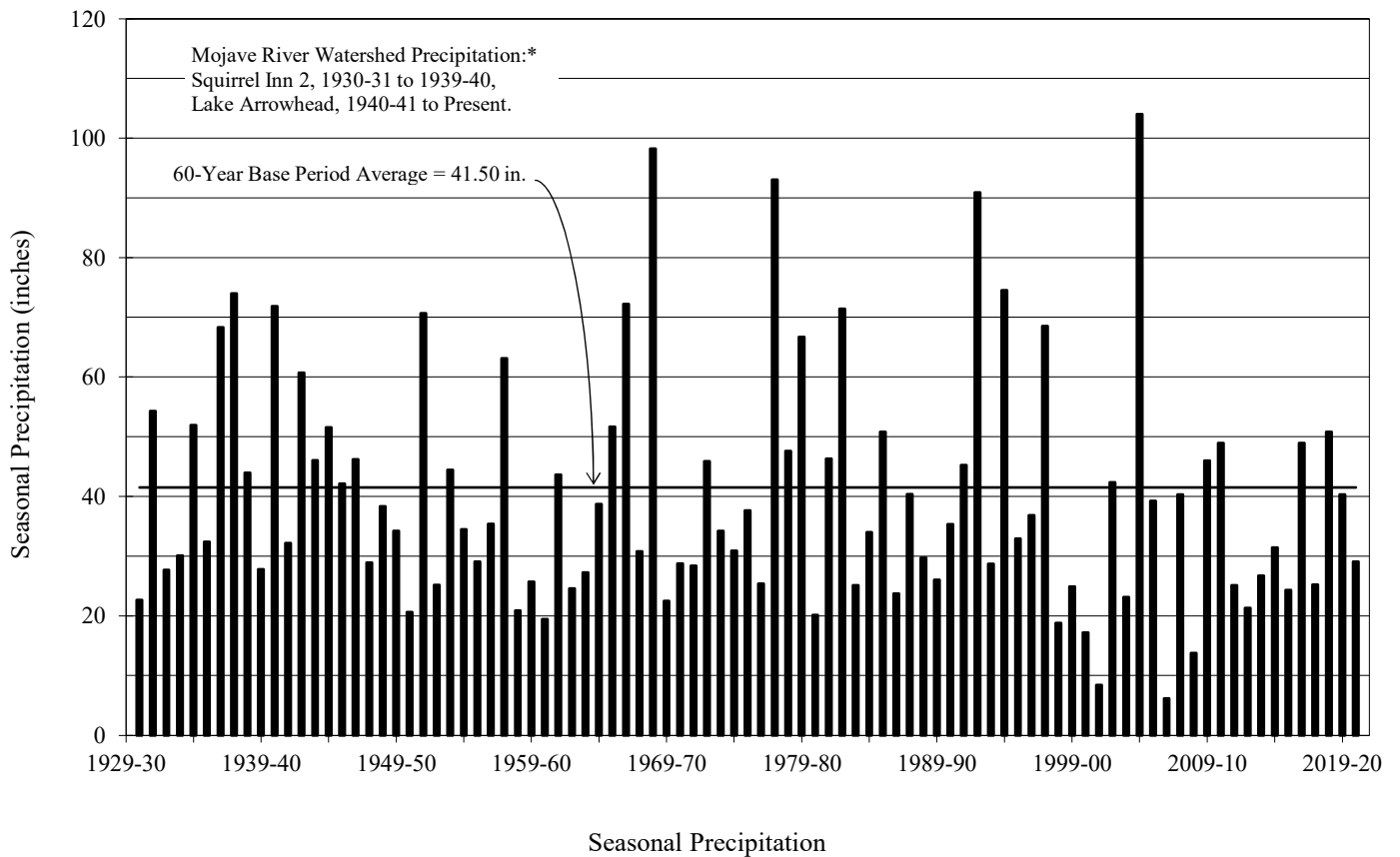
#### **Precipitation During 2020-21**

Rainfall in the mountain areas is the principal source of natural water supply to the Mojave Basin Area. During the 2020-21 Water Year the precipitation at Lake Arrowhead amounted to 29.07 inches, which is about 70 percent of the Base Period average of 41.5 inches. The maximum monthly rainfall of 9.31 inches occurred in January 2021, with 5.56 inches and 3.47 inches occurring during March 2021 and November 2020, respectively. Figure 3-1 shows the seasonal precipitation from 1930-31 through 2020-21 and the accumulated departure from the 1930-31 through 1989-90 Base Period average. Seasonal rainfall within the Basin Area as measured at Victorville and Barstow totaled 2.23 inches and 1.12 inches, respectively. The amount recorded at Victorville represents approximately 41 percent of the annual average of 5.43 inches and the amount recorded at Barstow represents approximately 25 percent of the annual average of 4.55 inches. Figure 3-2 shows the seasonal precipitation at Victorville and Barstow.

#### **Runoff During 2020-21**

Locations of stream flow gages for the Mojave River system are shown on Appendix A. Table 3-1 shows monthly discharge amounts for 2020-21 at these locations.





Precipitation Characteristics, Mojave River Watershed

FIGURE 3-1



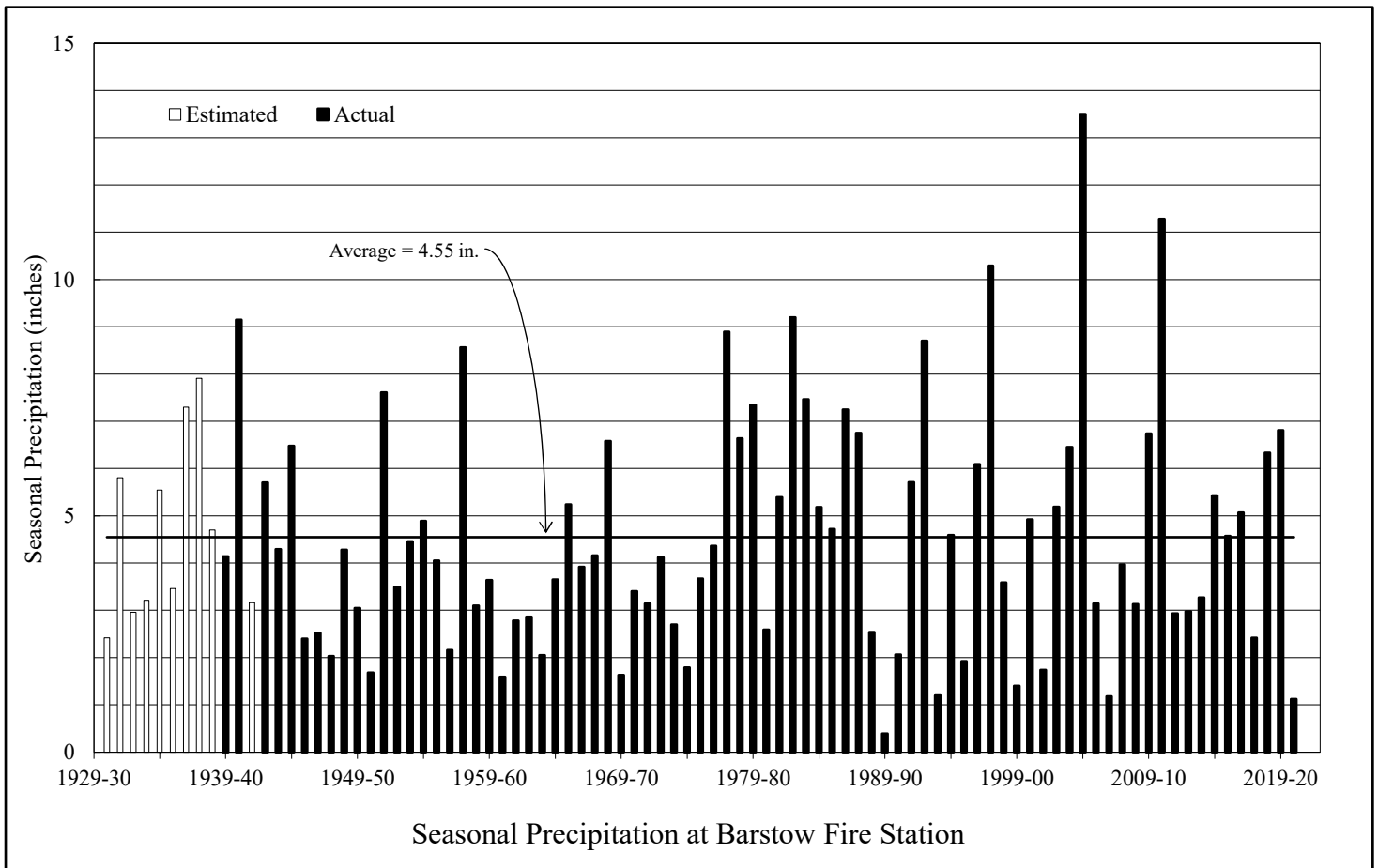
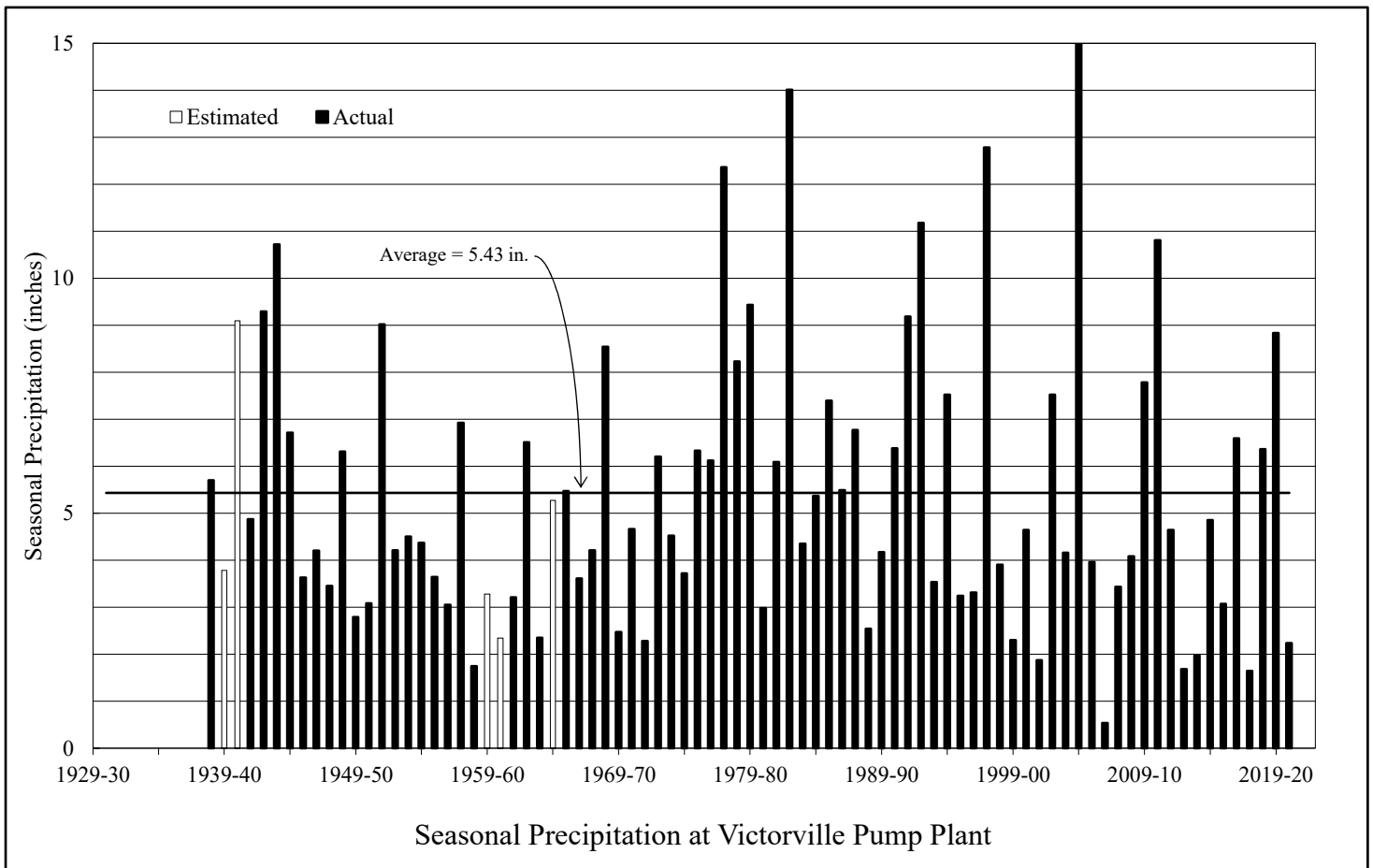


FIGURE 3-2



**TABLE 3-1**  
**MONTHLY DISCHARGE AMOUNTS**  
**FOR WATER YEAR 2020-21**  
**(Acre-Feet)**

<b>Month</b>	<b>Forks <sup>1</sup></b>	<b>Lower Narrows <sup>2</sup></b>			<b>Barstow <sup>3</sup></b>	<b>Afton <sup>4</sup></b>		
	<b>Measured Discharge</b>	<b>Base Flow</b>	<b>Storm Flow</b>	<b>Total</b>	<b>Measured Discharge</b>	<b>Base Flow</b>	<b>Storm Flow</b>	<b>Total</b>
October	69.7	121	0	121	0.0	0.00	0.0	0.00
November	280.0	354	0	354	0.0	3.87	0.0	3.87
December	327.0	704	12	716	0.0	13.90	0.0	13.90
January	578.0	820	86	906	0.0	21.70	0.0	21.70
February	900.0	905	10	915	0.0	17.50	0.0	17.50
March	1,016.0	689	20	709	0.0	18.90	0.0	18.90
April	614.0	468	8	476	0.0	10.30	0.0	10.30
May	279.0	262	0	262	0.0	3.25	0.0	3.25
June	50.4	130	0	130	0.0	0.00	0.0	0.00
July	40.4	115	0	115	0.0	0.00	0.0	0.00
August	26.1	109	0	109	0.0	0.00	0.0	0.00
September	31.9	114	0	114	0.0	0.00	0.0	0.00
<b>Total (AF)</b>	<b>4,213</b>	<b>4,791</b>	<b>136</b>	<b>4,927</b>	<b>0</b>	<b>89</b>	<b>0</b>	<b>89</b>

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1 U.S.G.S. Station No. 10260500 Deep Creek near Hesperia, CA combined with  
U.S.G.S. Station No. 10260950 West Fork Mojave River near Hesperia, CA

2 U.S.G.S. Station No. 10261500 Mojave River at Lower Narrows, near Victorville, CA

3 U.S.G.S. Station No. 10262500 Mojave River at Barstow, CA

4 U.S.G.S. Station No. 10263000 Mojave River at Afton, CA



### **At the Forks**

The total surface flow of the Mojave River at the Forks during 2020-21 as measured by the combined discharges of the West Fork Mojave River and Deep Creek was 4,213 acre-feet or about 6 percent of the Base Period average of 65,540 acre-feet. The combined discharges of the West Fork Mojave River and Deep Creek for the period 1930-31 through 2020-21 and the accumulated departure from the Base Period average are shown on Figure 3-3.

### **At Lower Narrows**

The total surface flow of the Mojave River at the Lower Narrows was 4.927 acre-feet, which is about 9.48 percent of the 60-Year Base Period average of 51,960 acre-feet. During Water Year 2020-21 the total flow accruing to the Lower Narrows Gage was estimated to consist of 136 acre-feet of storm flow and 4,791 acre-feet of base flow. Figure 3-4 shows the storm and base flow components of the total flow in the Mojave River at the Lower Narrows for the period 1930-31 through 2020-21.

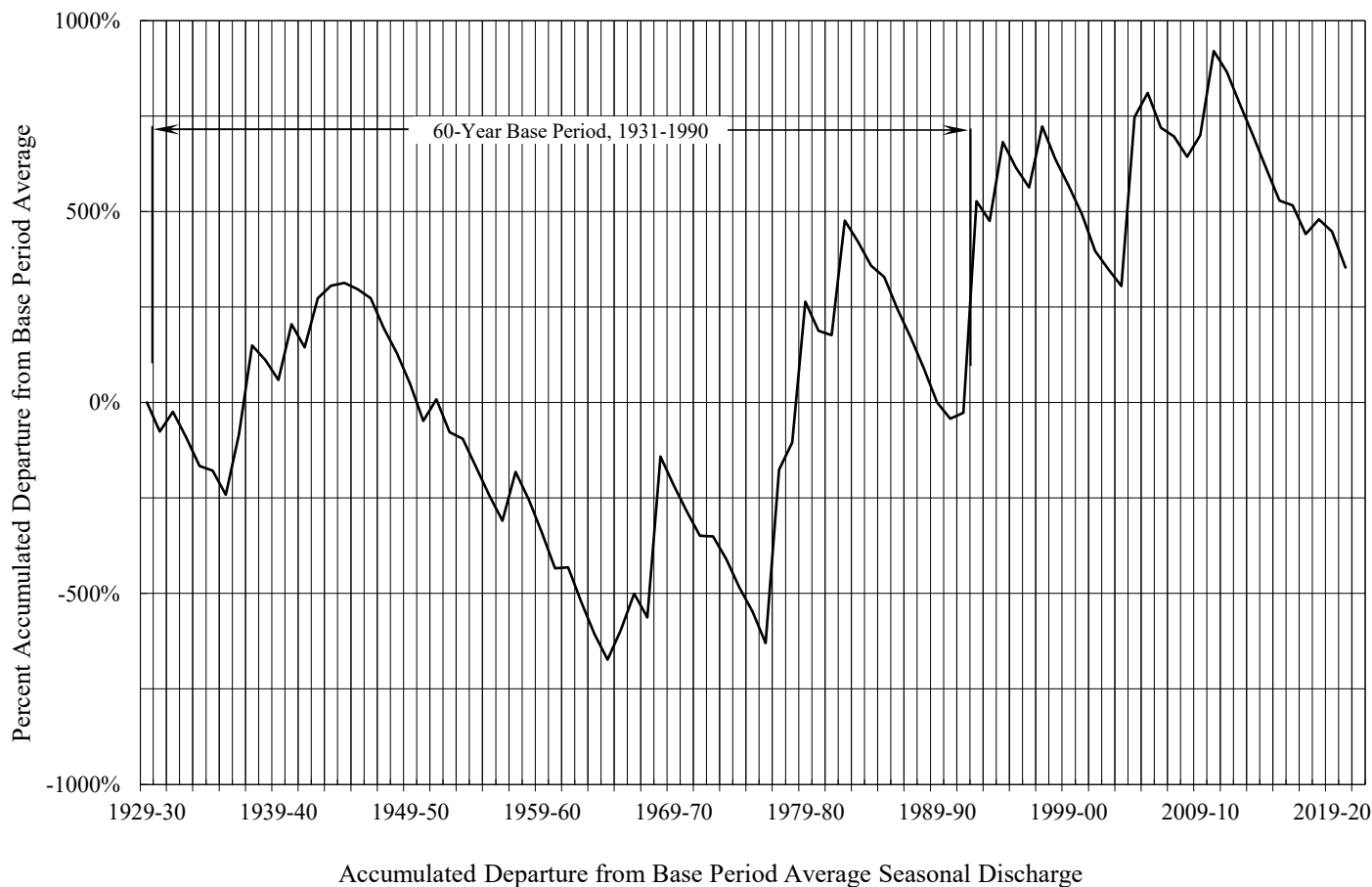
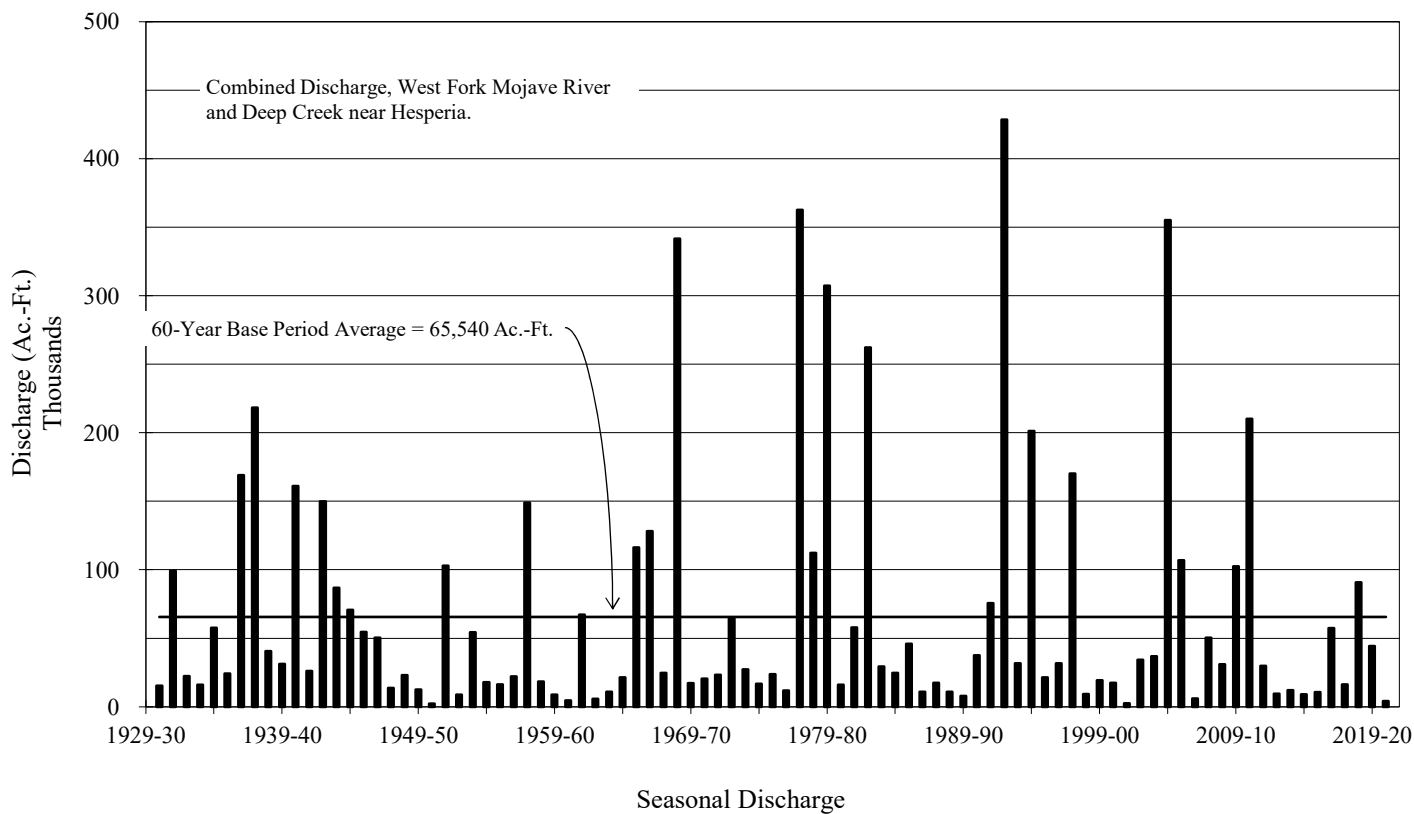
### **At Barstow**

The total surface flow of the Mojave River at Barstow was 0 acre-feet. Figure 3-5 shows the total flow in the Mojave River at Barstow for the period 1930-31 through 2020-21.

### **At Afton**

The total surface flow of the Mojave River at Afton was 89 acre-feet, which is about 1.1 percent of the Base Period average of 8,247 acre-feet. During 2020-21 the total flow accruing to the Afton Gage was estimated to consist of 0 acre-feet of storm flow and 89 acre-feet of base flow. Figure 3-5 shows the storm and base flow components of the total flow in the Mojave River at Afton for the period 1930-31 through 2020-21.





Discharge Characteristics, Mojave River at the Forks

FIGURE 3-3



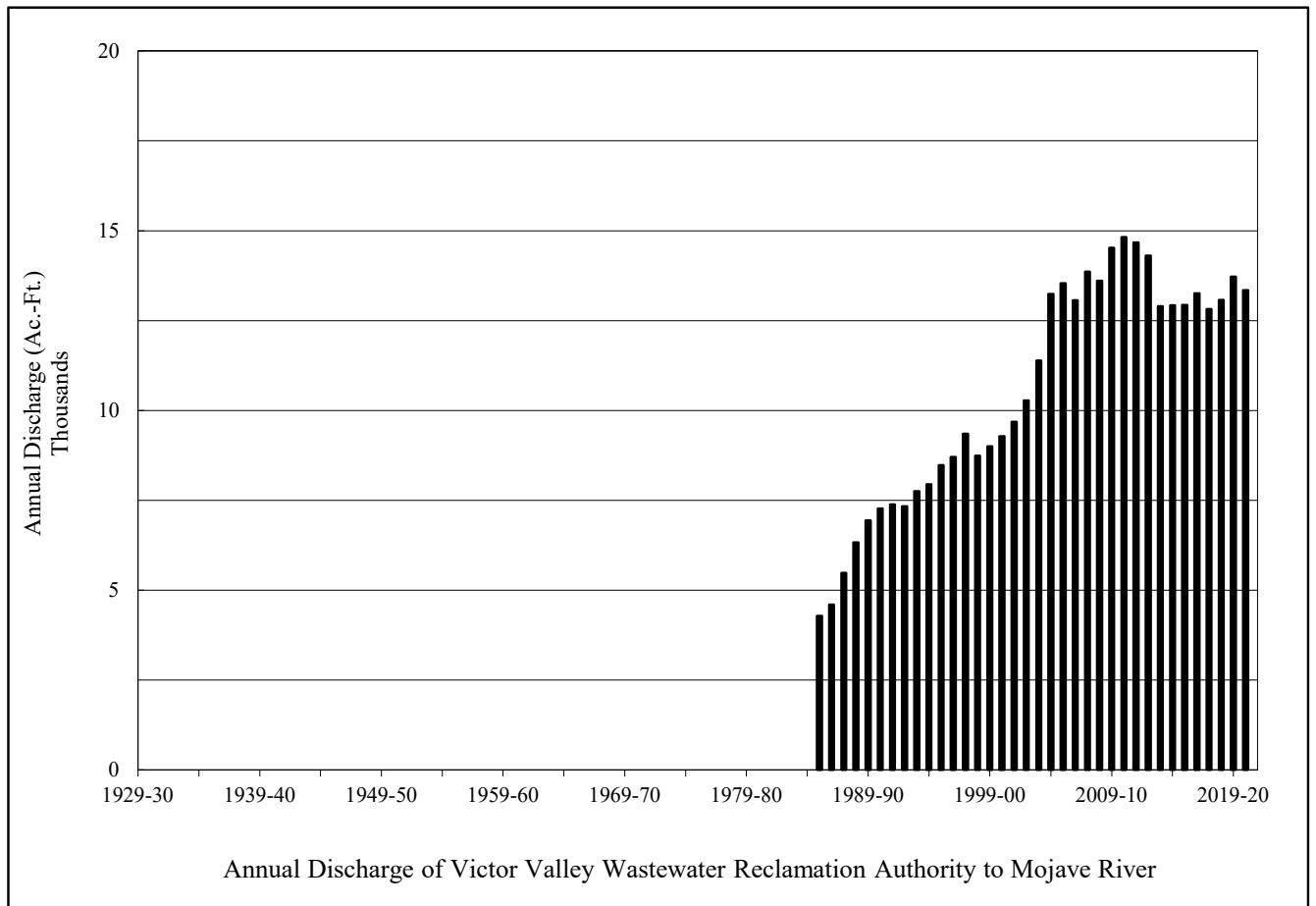
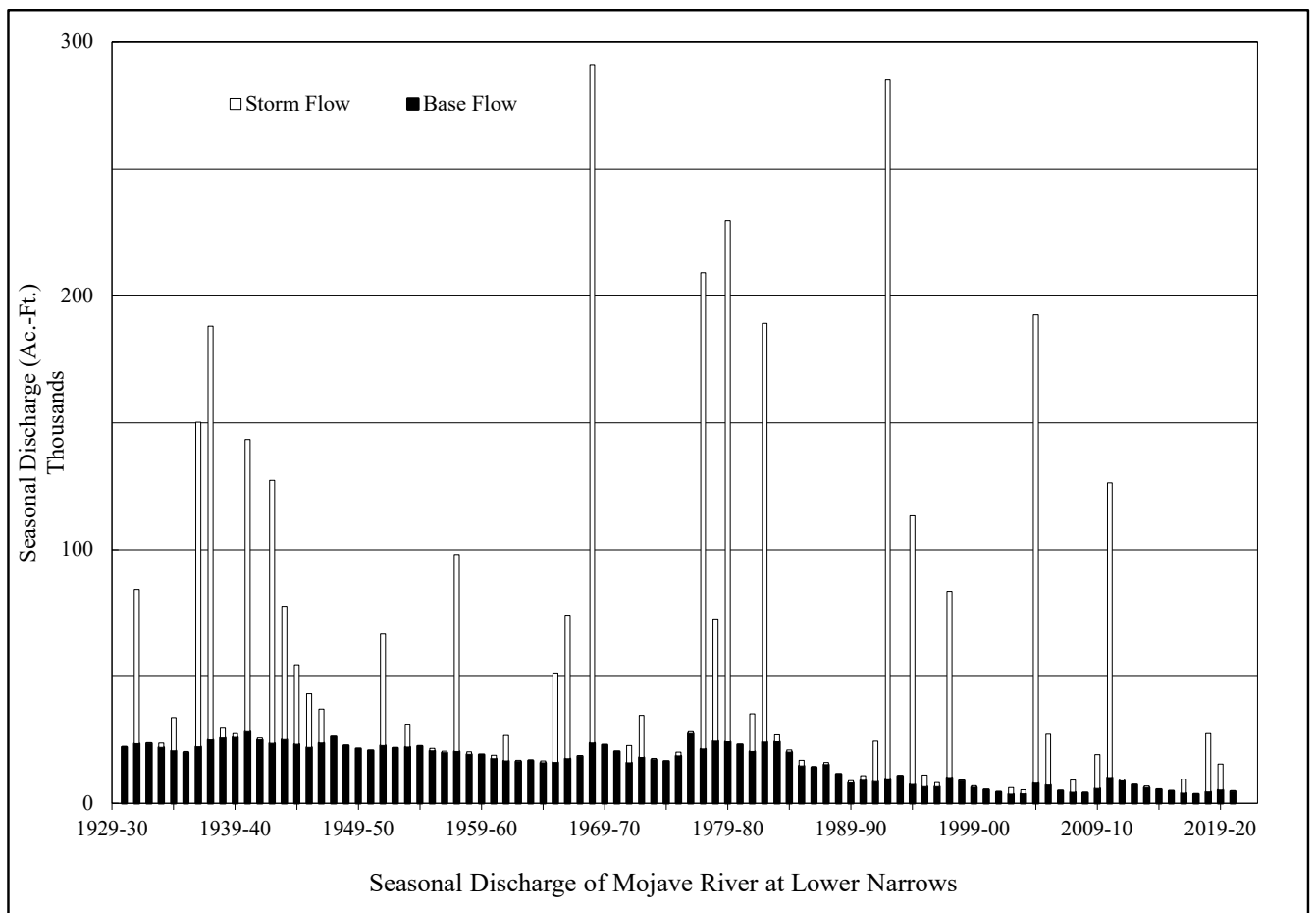


FIGURE 3-4



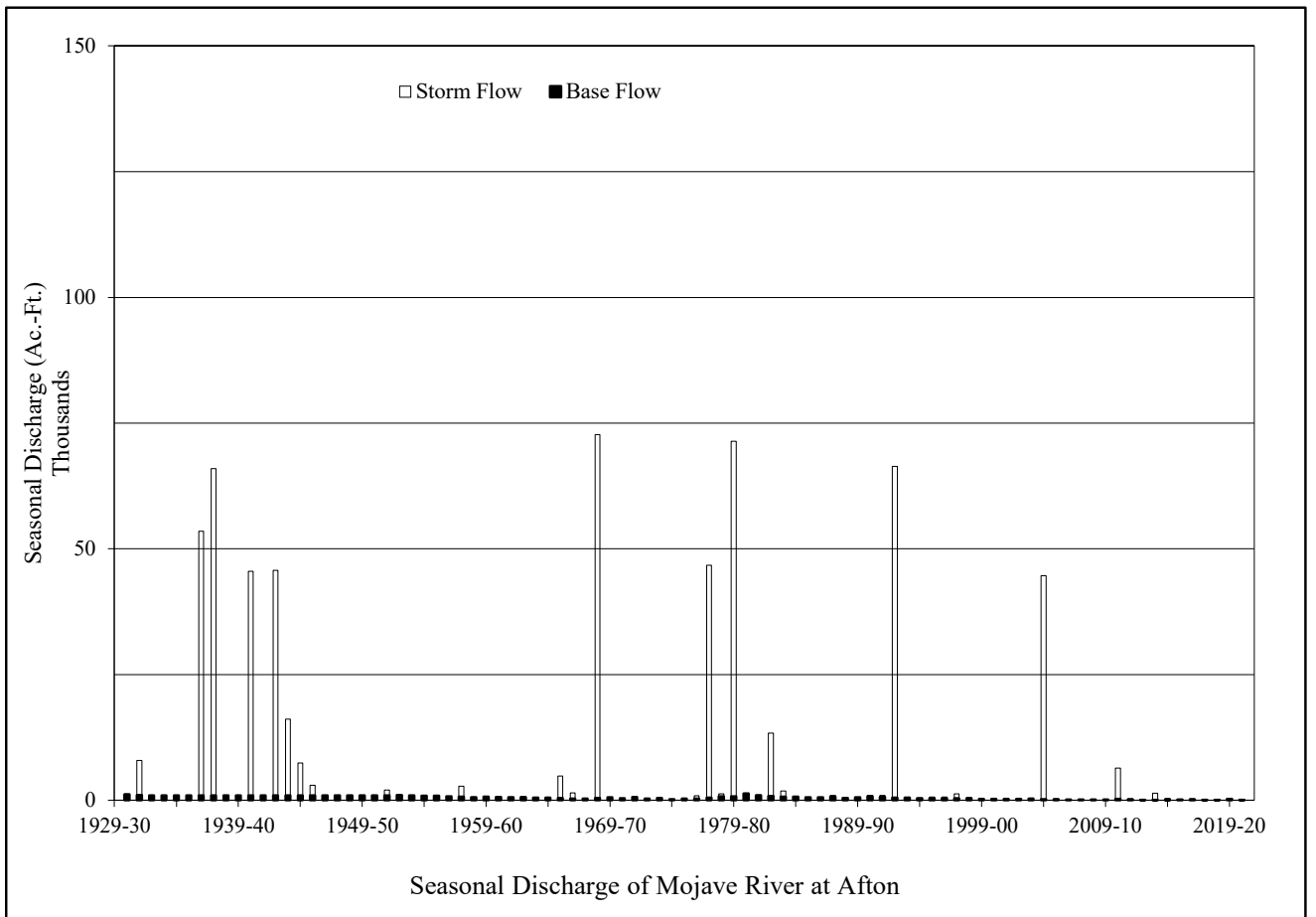
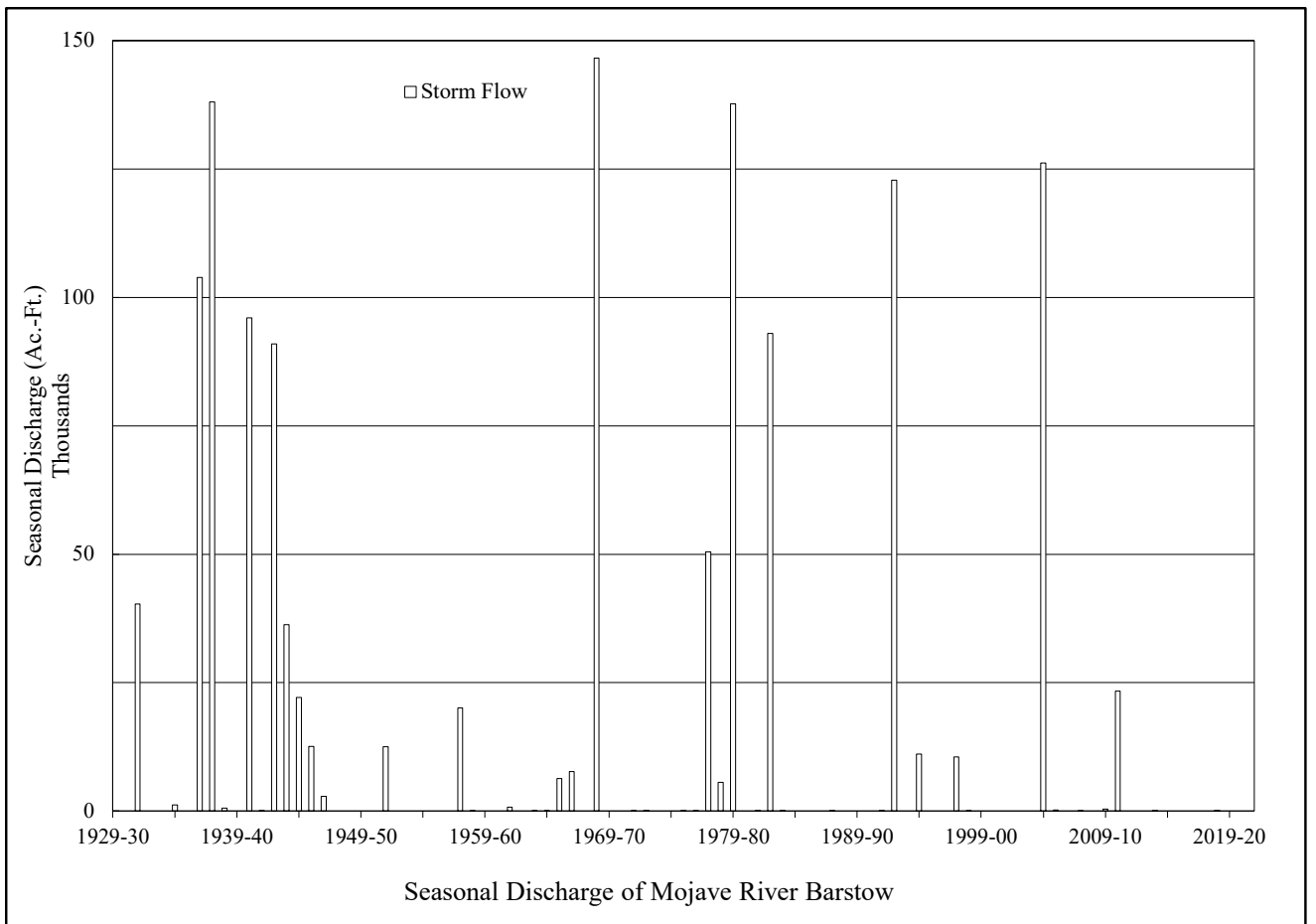


FIGURE 3-5



### **Wastewater Imports**

During 2019-20 reclaimed wastewater was delivered to the Mojave Basin Area for disposal by the following agencies:

	Amount Delivered (acre-feet)
Lake Arrowhead Community Services District	870
Crestline Sanitation District	590
Big Bear Area Regional Wastewater Agency	2,065
	<hr/>
	3,525

### **Victor Valley Wastewater Reclamation Authority Wastewater Effluent Discharges**

The VVWRA and Victorville deliver treated wastewater effluent to the Mojave River downstream from the Lower Narrows. This water is credited toward the Alto Subarea's Obligation to the Centro Subarea and amounted to 13,346 acre-feet for Water Year 2020-21. The annual wastewater effluent discharge to the Mojave River for the period 1985-86 through 2020-21 is shown on Figure 3-4.



### Imported Water Deliveries by MWA

During 2020-21 MWA delivered 41 acre-feet of State Water Project water to the Alto, Centro, Baja and Este Subareas.

		(All Amounts in Acre-feet)						
	<u>Month</u>	<u>Alto</u> <sup>1</sup>	<u>Alto</u> <sup>2</sup>	<u>Centro</u> <sup>3</sup>	<u>Centro</u> <sup>4</sup>	<u>Baja</u> <sup>5</sup>	<u>Este</u> <sup>6</sup>	<u>Total</u>
(2020)	October	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0
(2021)	January	0	0	0	0	0	0	0
	February	0	0	0	0	0	2	2
	March	0	0	0	0	0	5	5
	April	0	0	0	0	0	4	4
	May	0	0	1	3	1	4	9
	June	0	0	1	0	0	0	1
	July	0	30	4	0	0	0	4
	August	0	0	6	0	0	0	6
	September	0	6	4	0	0	0	10
		<b>Total</b>	<b>0</b>	<b>6</b>	<b>16</b>	<b>3</b>	<b>1</b>	<b>15</b>

<sup>1</sup> Deliveries to the power plant at SCLA.

<sup>2</sup> Deliveries to recharge facilities in the Alto Subarea pursuant to a storage agreement with Watermaster.

<sup>3</sup> Deliveries to the solar generating facility at Kramer Junction.

<sup>4</sup> Deliveries to recharge facilities in the Centro Subarea pursuant to a storage agreement with Watermaster.

<sup>5</sup> Deliveries to recharge facilities in the Baja Subarea pursuant to a storage agreement with Watermaster.

<sup>6</sup> Deliveries to demonstration recharge facilities in the Este Subarea pursuant to a storage agreement with Watermaster.



### **Transition Zone Water Levels**

The Judgment requires that minimum water levels be established in the Transition Zone primarily for the purpose of prioritizing recharge within the Alto Subarea. According to the Judgment, until minimum water levels are established, recharge of supplemental water must be delivered to the Transition Zone first, if there is a mandatory replacement obligation in the Transition Zone. Since entry of the Judgment, there has not been a mandatory replacement obligation in the Transition Zone.

Watermaster submitted to the Court in April 2007, and the Court approved recommended water levels in the Transition Zone and a water level monitoring procedure as required by the Judgment.

There are three areas within the Transition Zone that are to be evaluated annually. Water level data will be collected from wells in these areas and presented in the Watermaster's Annual Report to the Court. Well locations are shown on Figure 3-6. Water level hydrographs for Transition Zone wells are shown on Figures 3-7, 3-8 and 3-9.

Figure 3-7 shows water levels in three wells near the Helendale Fault. Well number 08N04W20N01 & P02 provides historical reference for water levels dating back to 1930. The composite water level has changed nominally since 1930. Because this well has been discontinued, Watermaster proposes to monitor wells 08N04W19G04 and 08N04W29E06. Both of these wells indicate water level stability over the period of record (since 1994). Water level variation over a two-year period exceeding 20 feet will be considered to have encroached on the minimum Transition Zone Water Levels and will require corrective measures. Water levels in this area remained stable during the previous Water Year and exhibit the same seasonal variation as the past 5 years.

Figure 3-8 shows water levels in wells downstream from Victor Valley Wastewater Reclamation Authority's (VWVRA) point of discharge to the Mojave River. VWVRA discharged 13,346 acre-feet during 2020-21 which supports water levels within the Transition Zone. These water levels remained stable during Water Year 2020-21.

Figure 3-9 shows water levels in two shallow wells and a multi-nested well in the vicinity of the City of Adelanto's municipal water supply wells, and downstream of the United States Geological Survey (USGS) gage, "Mojave River at Lower Narrows near Victorville". These wells



show seasonal variability but no long-term downward trend. The multi-nested well was installed by MWA and the California Department of Fish and Wildlife (DFW) in February 2008. Watermaster reported to the Court that it would revisit minimum water levels in the Transition Zone after collecting data for five (5) years from this new well. The water level measurements since installation in 2008 indicate seasonal fluctuation and year over year stability. The decreasing seasonal water level fluctuation is an indication of an equilibrium condition in the Transition Zone. As the data from this well has only been collected since 2008 (date of installation), and indicates a rising or stable condition, there is insufficient information to recommend a reasonable minimum water level. If the condition of rising water or stable water level over time continues, there may be no reason for a control point for minimum levels.

### **Transition Zone Water Balance**

Watermaster prepares a water balance calculation for each subarea annually pursuant to the Judgment. For purposes of tracking annual variability in Transition Zone water supply, we are including a water balance calculation specifically for the Transition Zone. Figure 3-10 shows the annual calculated Transition Zone outflow since 1991, versus the 60-year base period average (1931-1990 “Base Period”). Total outflow from the Transition Zone is inflow to Centro. On an annual basis, outflow to Centro is highly variable consistent with the infrequent storms typical of desert environments. Transition Zone water levels have been stable or rising since 1994, suggesting that change in storage within the Transition Zone is nearly zero.

The elements of Transition Zone water supply include:

- Surface water inflow from the Mojave River, measured at the USGS Gaging Station at Lower Narrows (Table 3-1)
- Measured Victor Valley Wastewater Reclamation Authority (VWRA) effluent discharges (Chapter 3)
- Ungaged estimated contributions from urban development
- Long-term subsurface flow (Table 5-1)
- Return flows from production

Return flows are determined by analyzing verified production and use data maintained by Watermaster to provide estimates of consumptive use for all uses within the subarea since 2012



(see the State of the Basin section for more information about the consumptive use analysis). Return flow from production for water years 1994 through 2011 is estimated based on verified production and historic consumptive use in Alto Subarea, analysis of irrigation demands for Silver Lakes Golf Course, lake evaporation, Helendale Community Services District (HCSD) wastewater flow, and estimations of domestic use based on HCSD flows. Verified production less estimated consumptive use becomes return flow to the Transition Zone.

The elements of use from the Transition Zone are:

- Groundwater extractions (production)
- Consumptive use by native vegetation (phreatophytes)

Verified production is compiled, verified, and maintained by Watermaster annually. Consumptive use for phreatophytes in the Transition Zone is based on a 2011 study by USBR which quantified consumptive use by phreatophytes in 2007 and 2010 (USBR 2011). Consumptive use for phreatophytes for 2010 was independently analyzed by Wagner & Bonsignore and compared to the findings of the USBR study, from which a coefficient was derived and used to adjust subsequent years. It is assumed the biomass recorded in 2010 by USBR remains the same through the current year, while consumptive use varies year-over-year based on changes in climate conditions.

The elements for calculating outflow from the Transition Zone to the Centro Subarea include:

- Long-term subsurface outflow (Table 5-1)
- Surface water outflow leaving the Transition Zone (which becomes inflow to the Centro Subarea)

Surface water outflow from the Transition Zone to the Centro Subarea is calculated based on the assumption that change in storage in the Transition Zone is zero. Historical water levels in the Transition Zone are stable over long periods of time (Figure 3-13). Therefore, for simplicity, surface water outflow is determined as the sum of water supply, less the sum of consumptive use and subsurface flow.



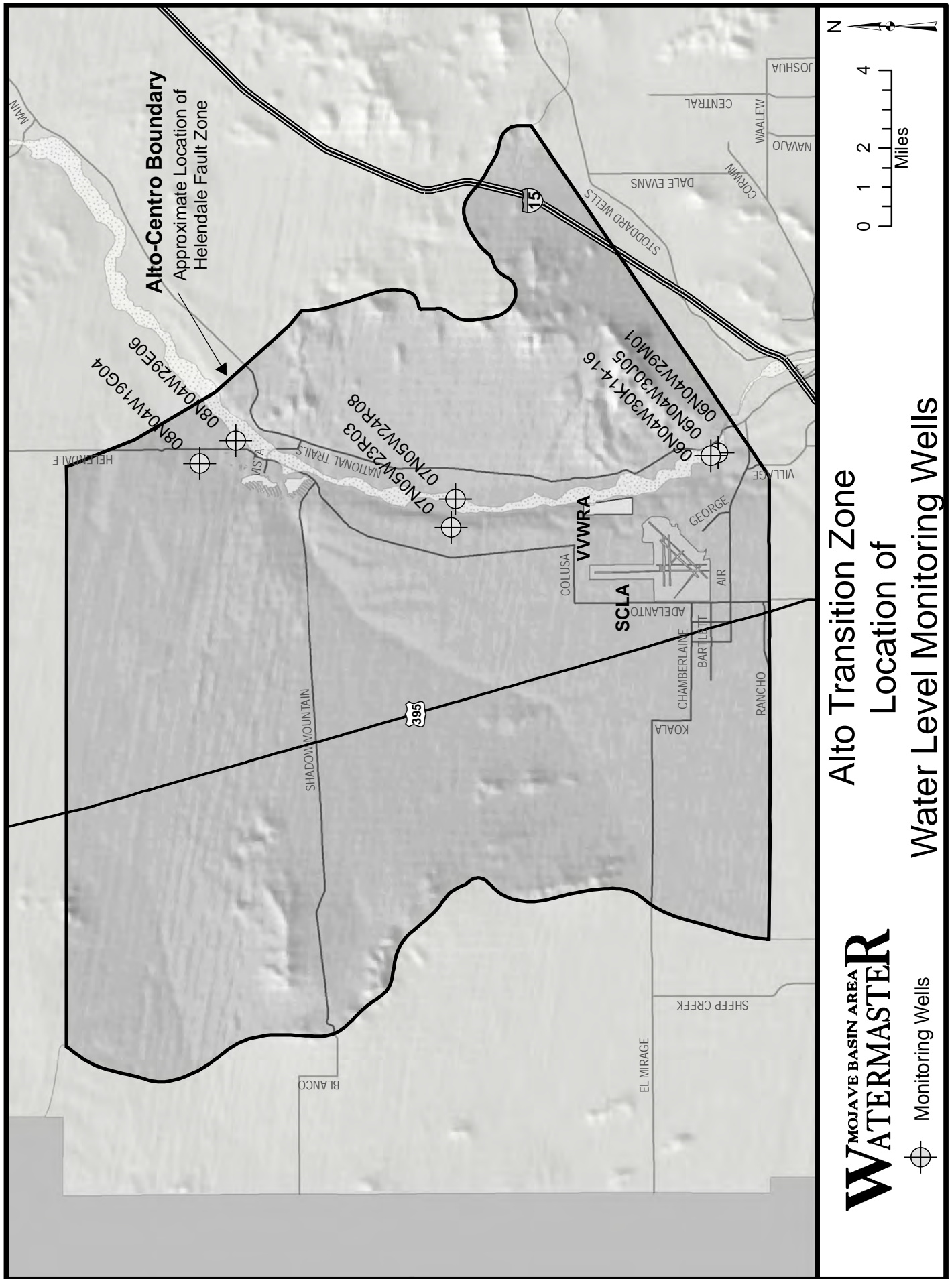


FIGURE 3-6



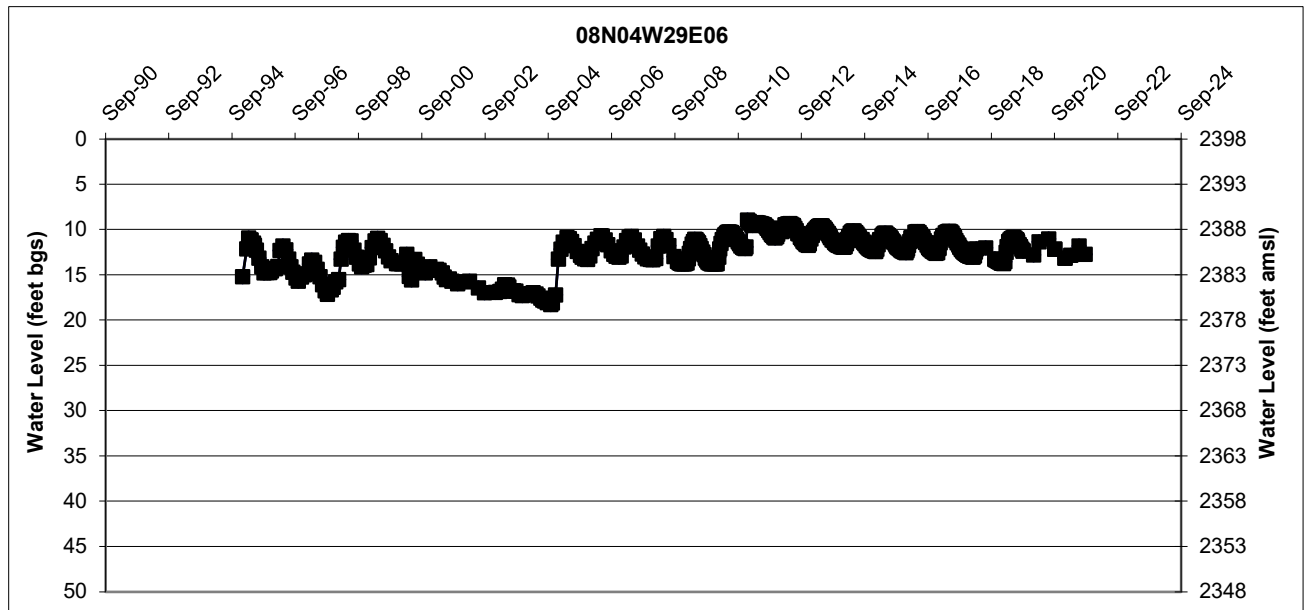
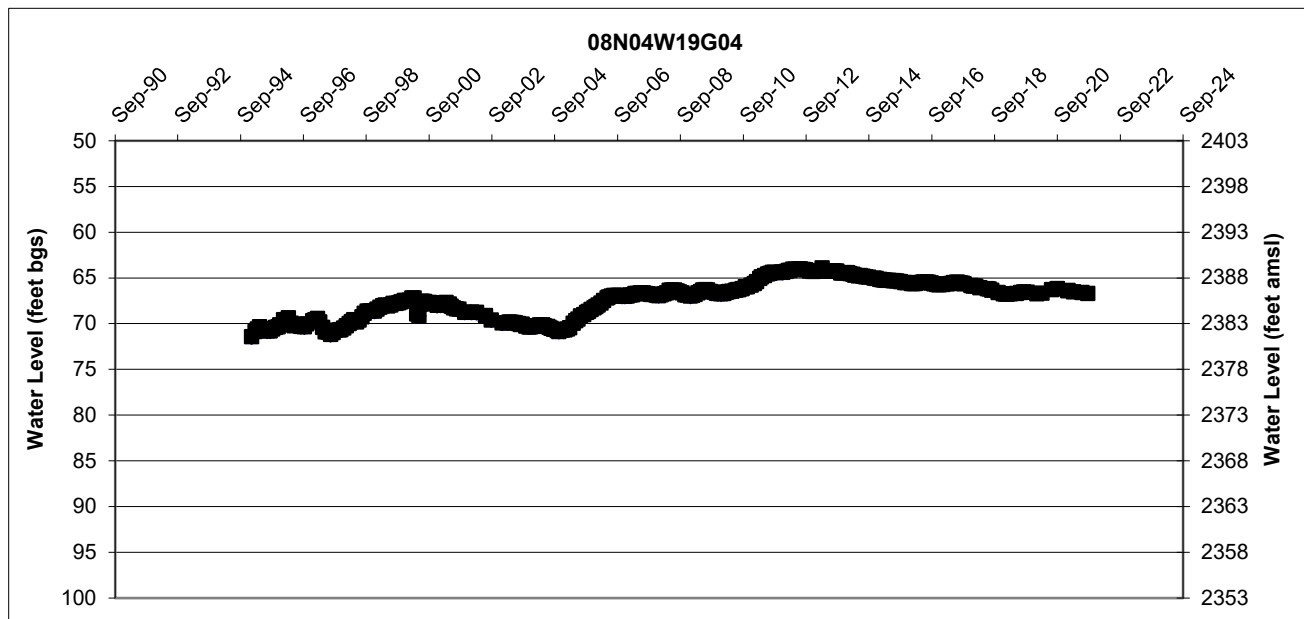
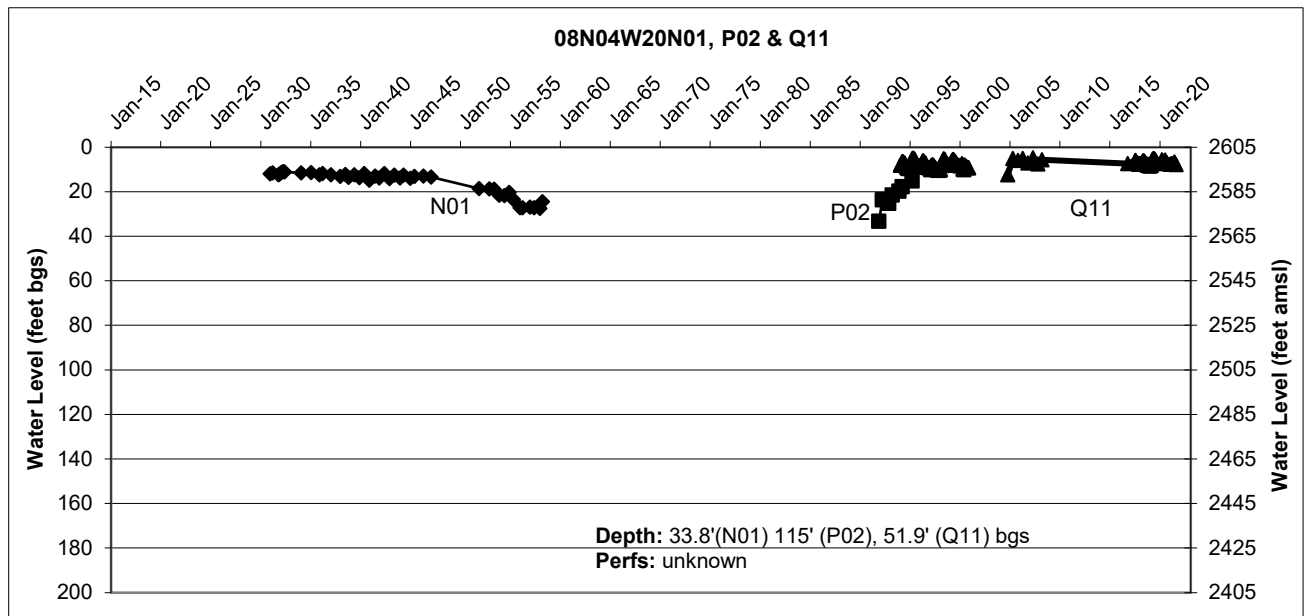


FIGURE 3-7



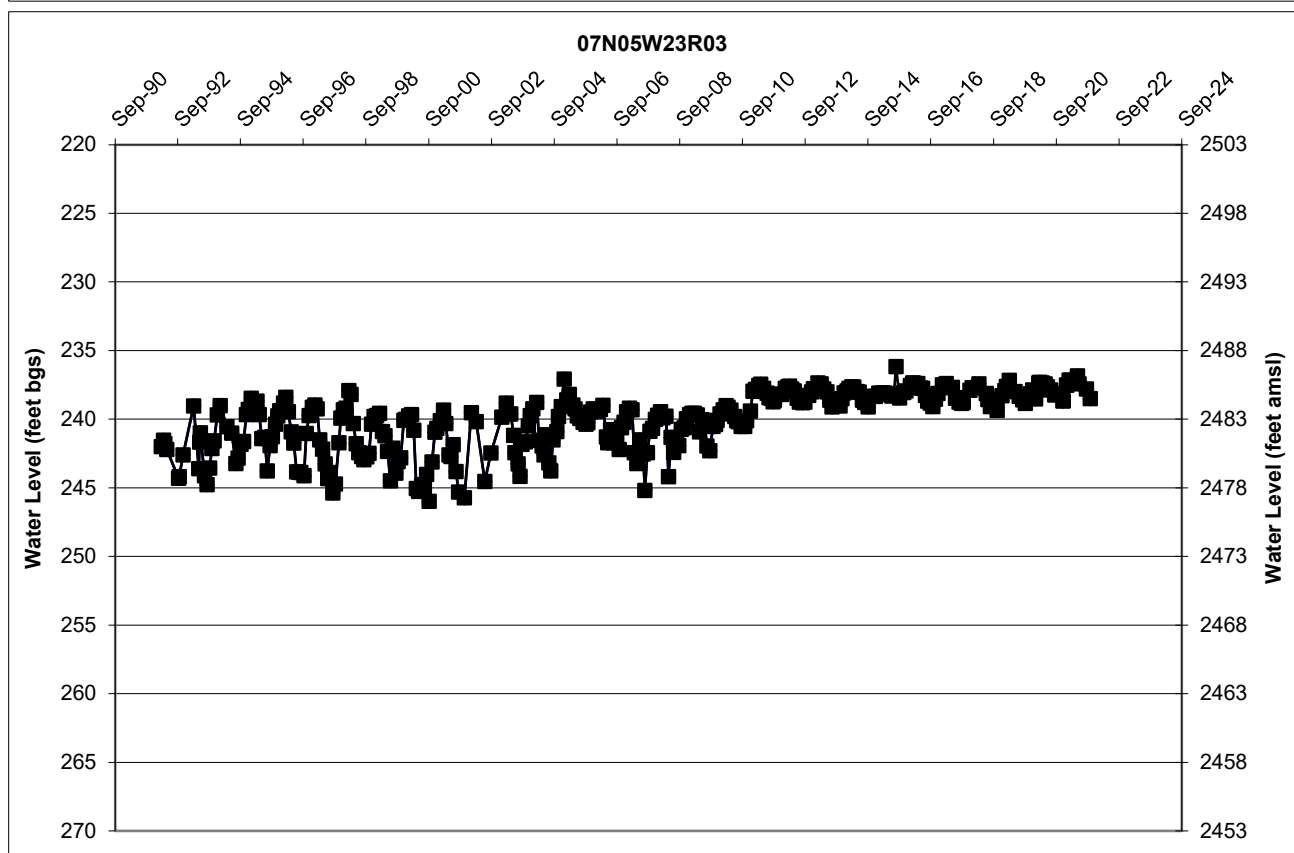
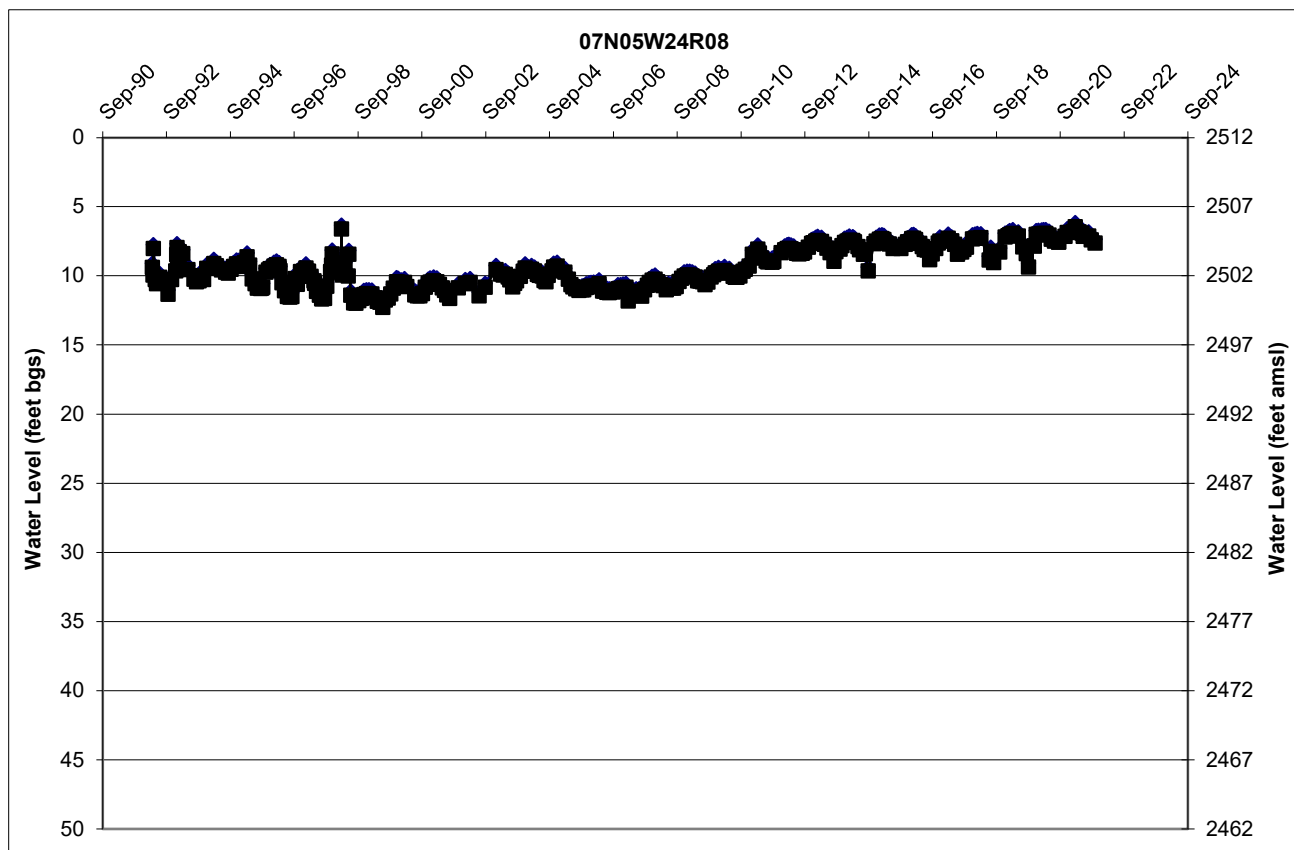


FIGURE 3-8



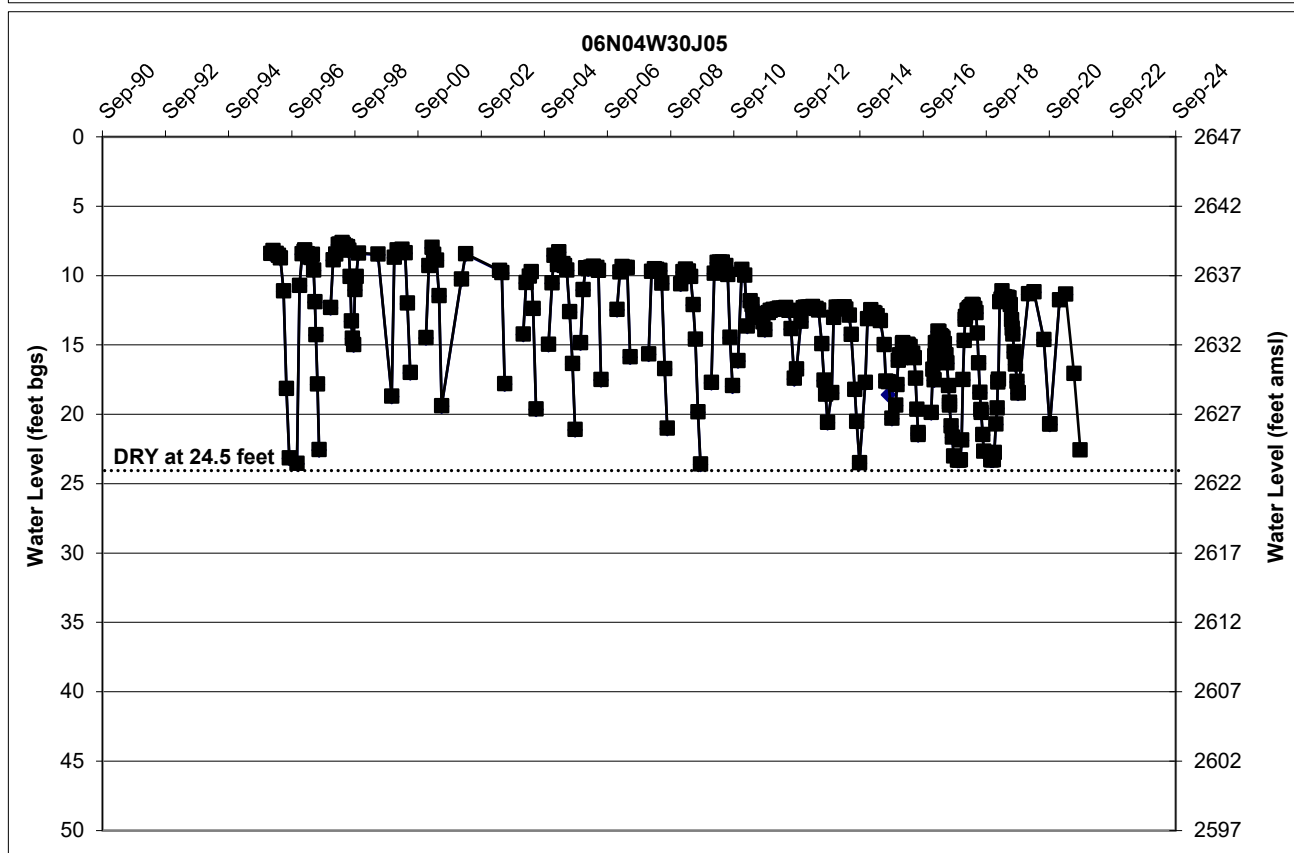
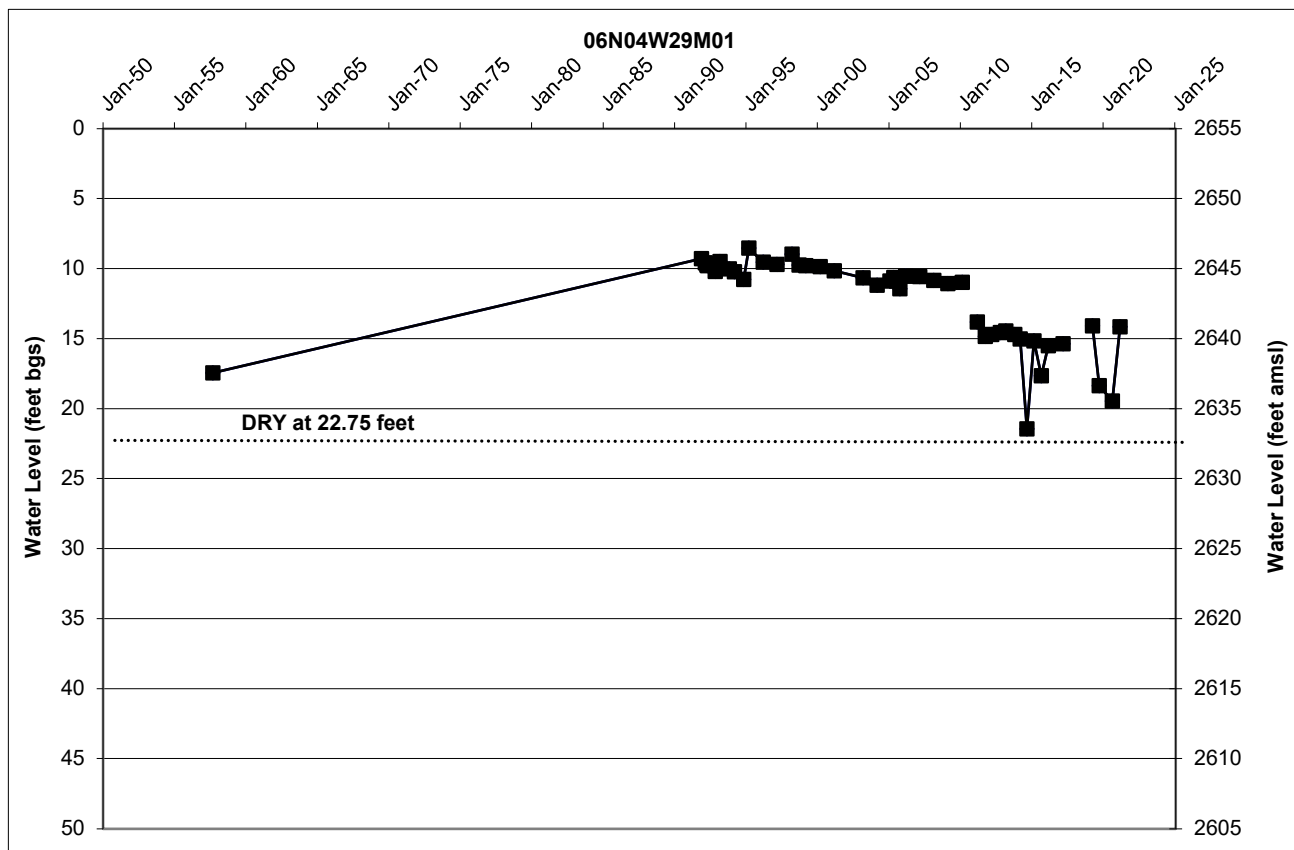


FIGURE 3-9



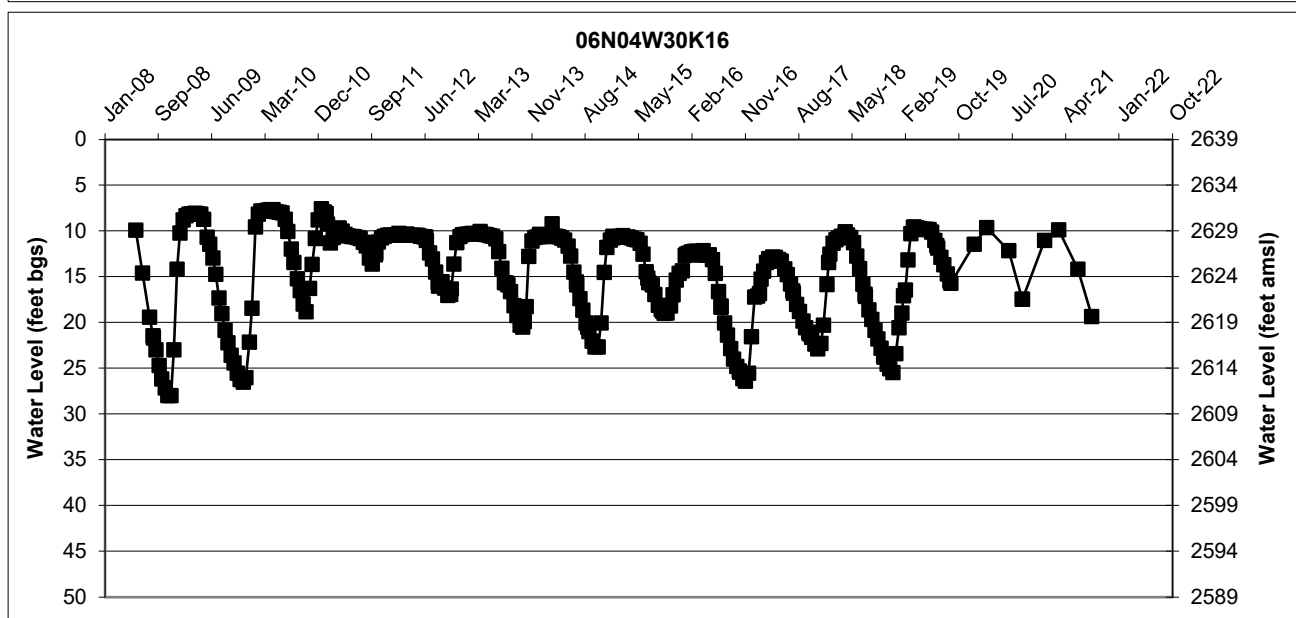
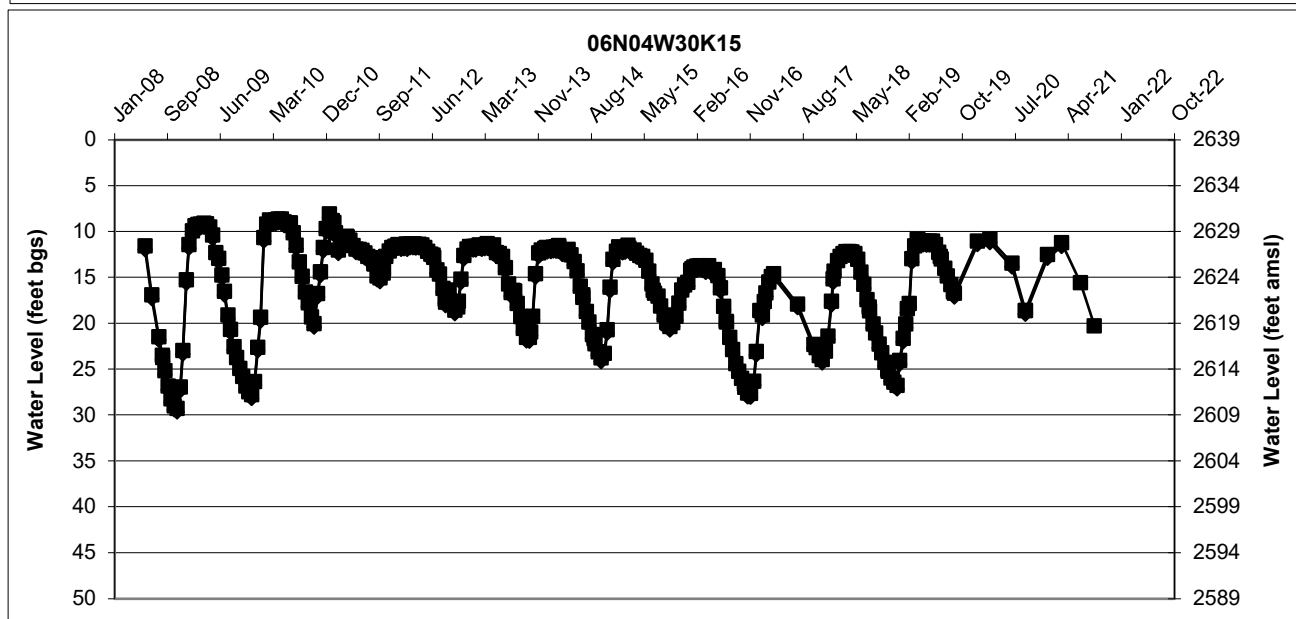
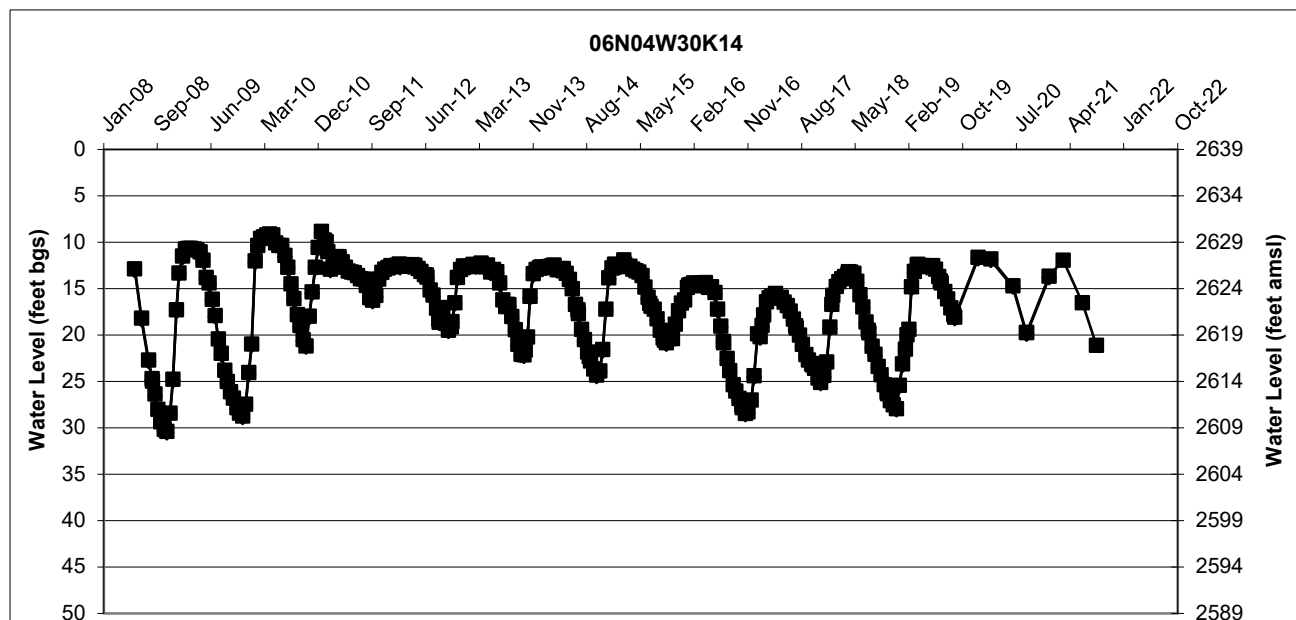


FIGURE 3-9



# Transition Zone Water Balance

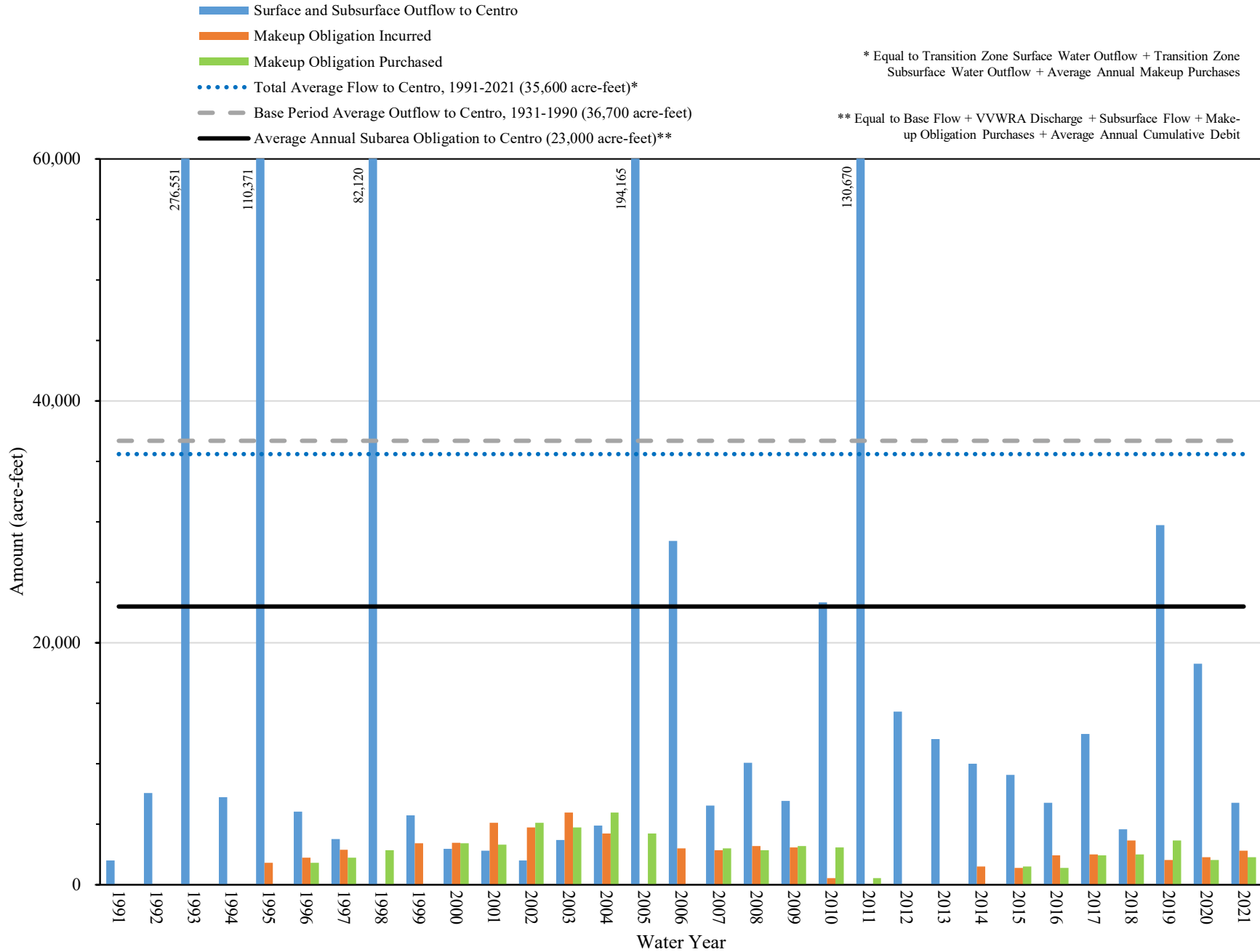


FIGURE 3-10



## **Subarea Water Levels**

Water levels within each of the five Subareas were reviewed as part of the Watermaster's investigation into Subarea conditions and recommendations on Free Production Allowance. Water levels are measured by the Mojave Water Agency and are also reported to the California Statewide Groundwater Elevation Monitoring (CASGEM) program. The Judgment does not specifically require that Watermaster consider changes in water levels in its investigation but Paragraph 24 (o) of the Judgment requires Watermaster to consider changes of water in storage. Rising and falling water levels within the Basin Area are indications of changes in storage over time. While the amount of water level data collected and maintained by MWA is extensive, it is not sufficient to determine changes in storage in each Subarea by using changes in water levels. However, the data is sufficient to make generalizations about the conditions in each Subarea. Watermaster has estimated the annual change in storage for each Subarea in Table 3-2.

Hydrographs of wells generally representative of Subarea conditions are maintained by MWA for public review at: <http://www.mojavewater.org/subarea-hydrograph-gallery.html>

A more extensive set of water level data is reported by Mojave Water Agency to the CASGEM program at: <https://water.ca.gov/Programs/Groundwater-Management/Groundwater-Elevation-Monitoring--CASGEM>

The hydrographs were presented for inspection at the February and March 2022 Watermaster meetings and discussed in detail by the Engineer. Figures 3-11 through 3-17 are reduced copies of the exhibits available on the MWA website. A summary of the water levels for each Subarea is presented below.

### **Alto Subarea**

Water levels in Alto are presented on three maps depicting hydrographs that represent conditions throughout Alto. 1) Western portion is generally west of the Mojave River (the river is included in the western portion); 2) Eastern portion is generally east of the Mojave River; and 3) Alto Transition Zone. Alto water levels near the river exhibit seasonal variation, rising in winter and falling in summer. We note that variability showing lower lows and lower highs is an indication of extractions exceeding recharge over time. Water levels in the western portion of Alto in the regional aquifer exhibit declines consistent with locally heavy pumping and limited local recharge. Water levels in the eastern portion of Alto indicate similar trends although to a lesser extent, most likely due to limited pumping in the regional aquifer east of the river. Continued



pumping in depleted areas of the regional system may result in long-term local negative impacts such as declining yields and water quality problems. Water levels in near river wells, particularly in the south part of Alto, experienced a trend of decline for 7 years consistent with limited recharge due to drier than average conditions. Water supply conditions for the past 10 years have been dry (43.3% of Base Period average). Continuation of dry conditions will result in water level declines.

### **Baja Subarea**

Baja water levels continue to decline due to over pumping and limited recharge opportunities. Wells near the river in the Daggett area respond to recharge when it is available but continue to fall following storm events. We note that pumping in Baja has declined 54% in the last 5 years. Consequently, current water level data may not reflect the future trends in Baja water levels. We expect to see water level declines in Baja to slow, and possibly remain constant in some wells due to the significant reduction in pumping.

### **Centro Subarea**

Water levels in Centro have been stable showing seasonal variability and declines during dry years but generally recover during wet periods. Water levels in the Harper Lake area indicate a slow recovery due primarily to cessation of pumping during the past several years. Water levels near Hodge and Lenwood road show the effects of pumping and limited recharge during at least the past 10 years.

### **Este Subarea**

Water levels in Este have remained stable for the past several years indicating a relative balance between recharge and outflow.

### **Oeste Subarea**

Water levels in Oeste have declined over time and are likely to continue to decline as water production increases in-step with projected population growth. However, reviewing the available data on a shorter time frame of 15-20 years indicates that, in the short-term, water levels are variable but stable. Water production, water use and water level data indicate that over the past 15-20 years, water supply and demands (local precipitation, return flow from pumping, extractions, and outflow) are about equal. However, the past 15-20 years may not be representative of the longer-term water supply conditions in Oeste. Further, population and thus water demand is expected to increase in the future, which will result in continued water level decline.



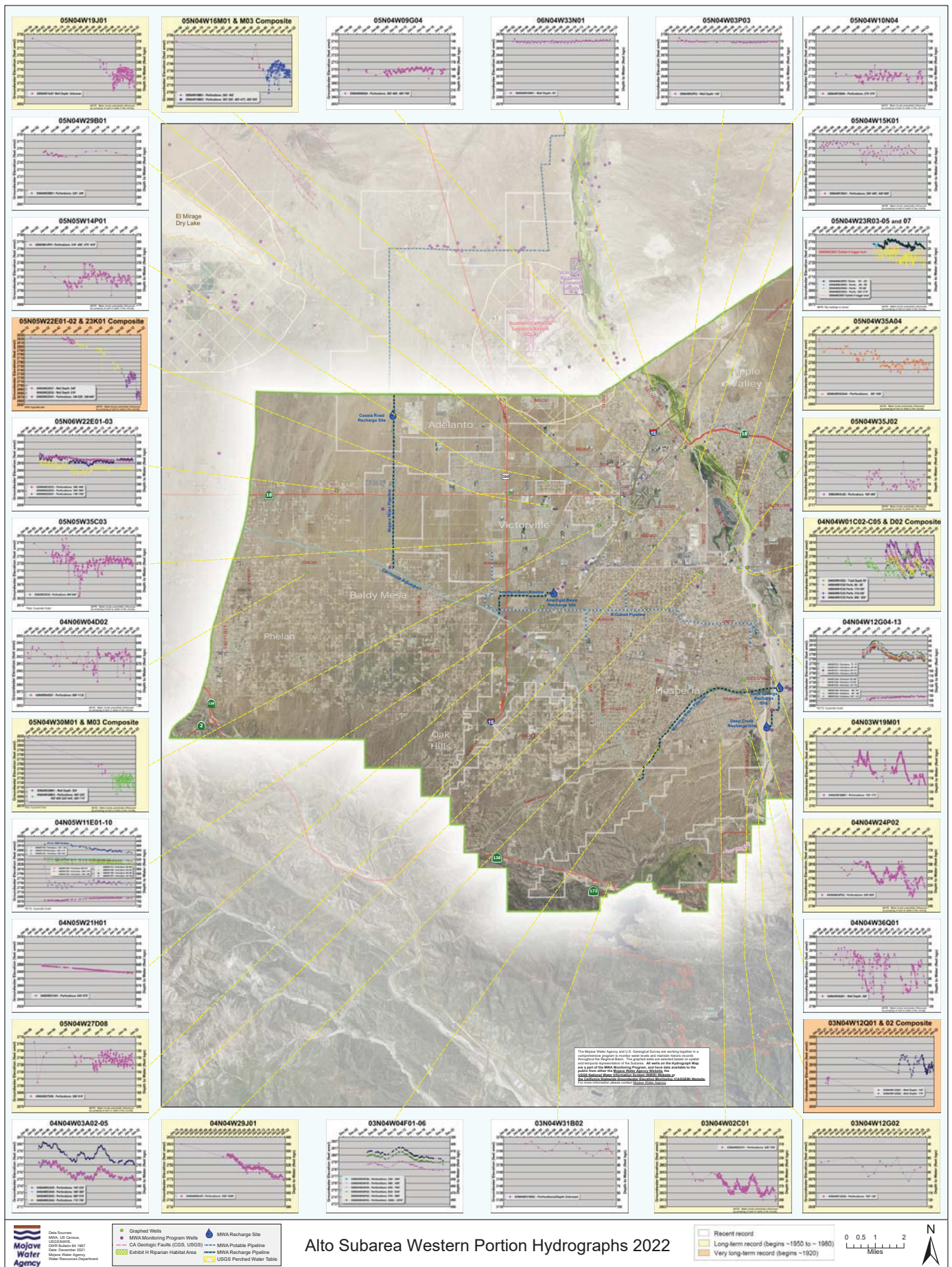


FIGURE 3-11



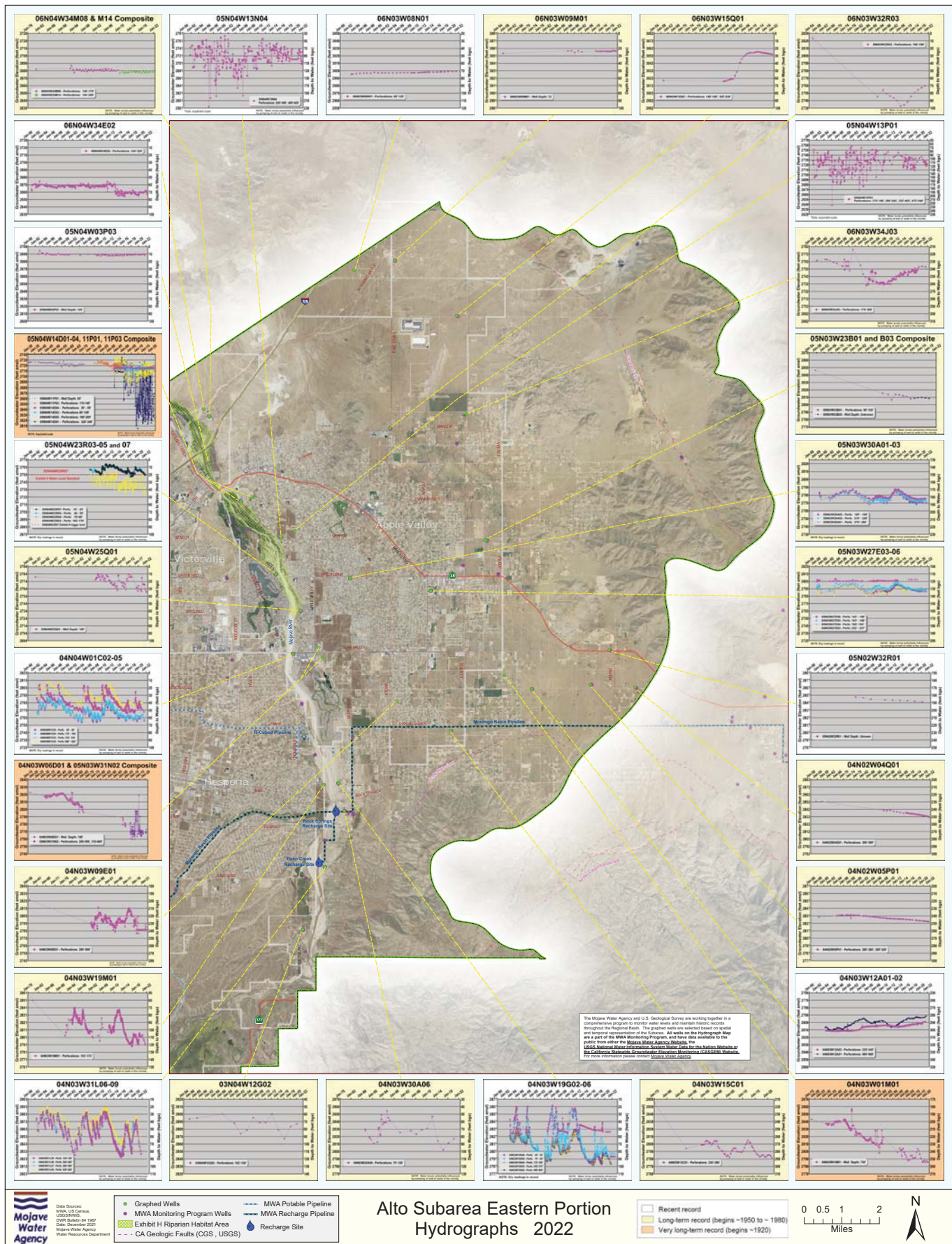


FIGURE 3-12



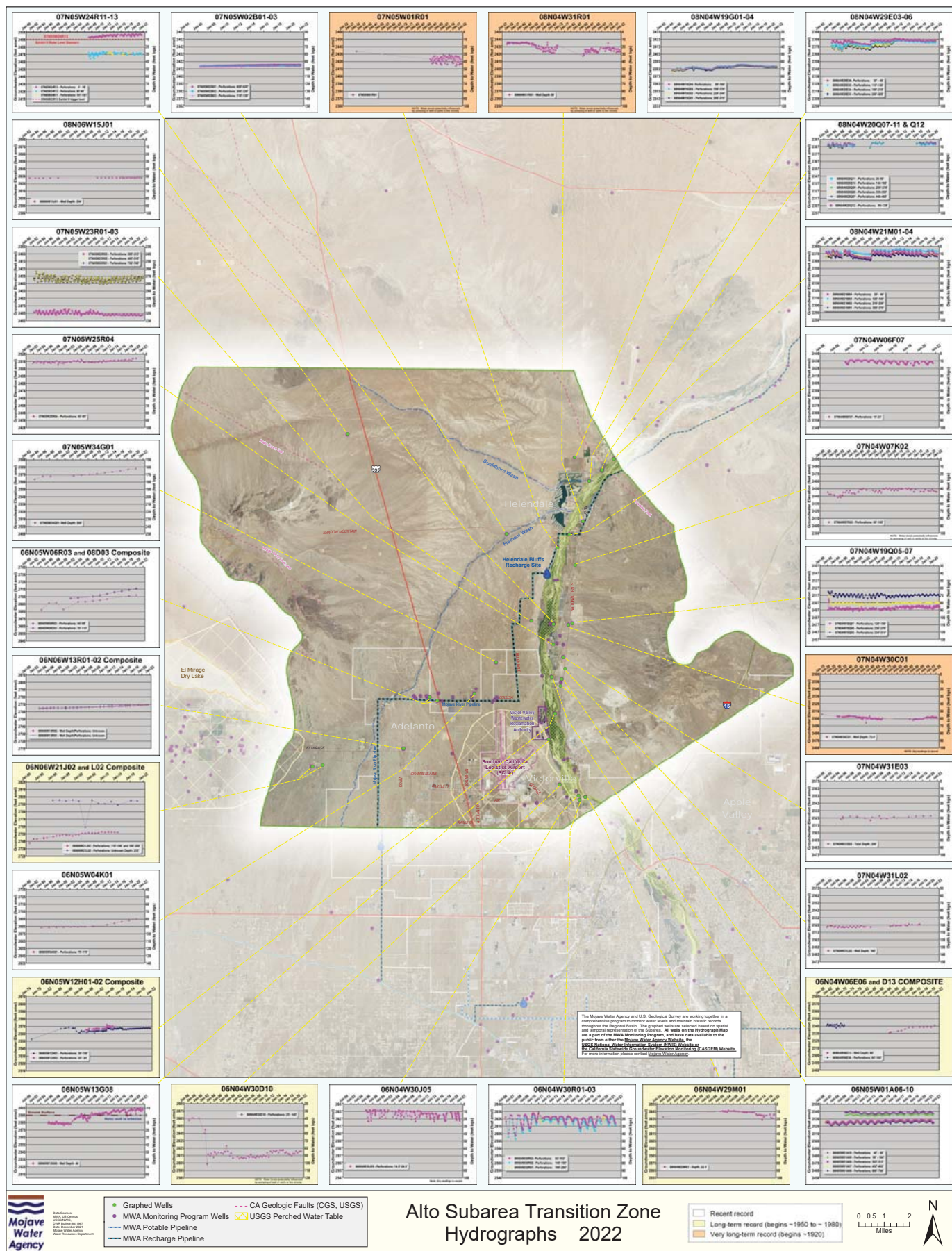


FIGURE 3-13



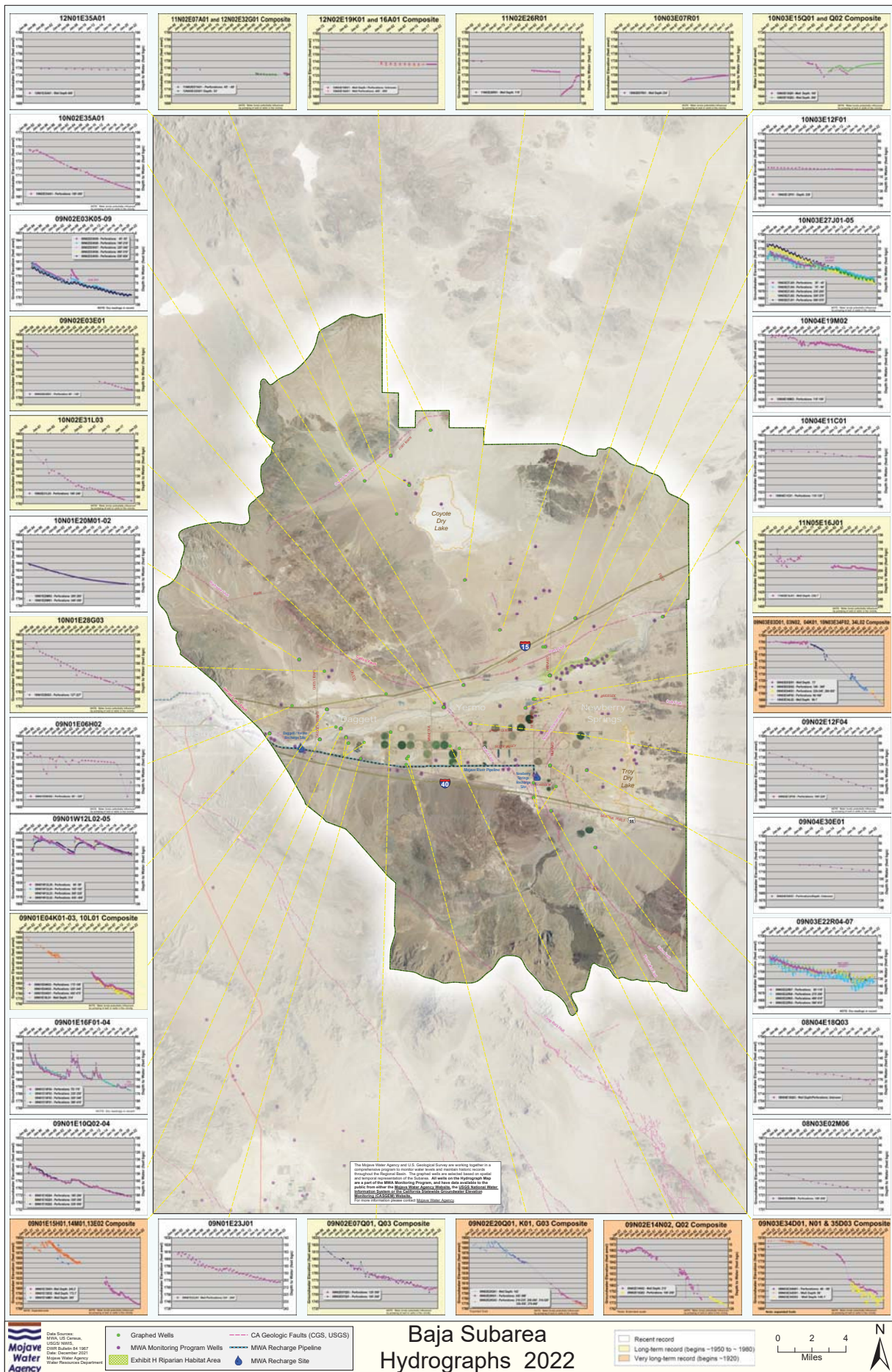


FIGURE 3-14



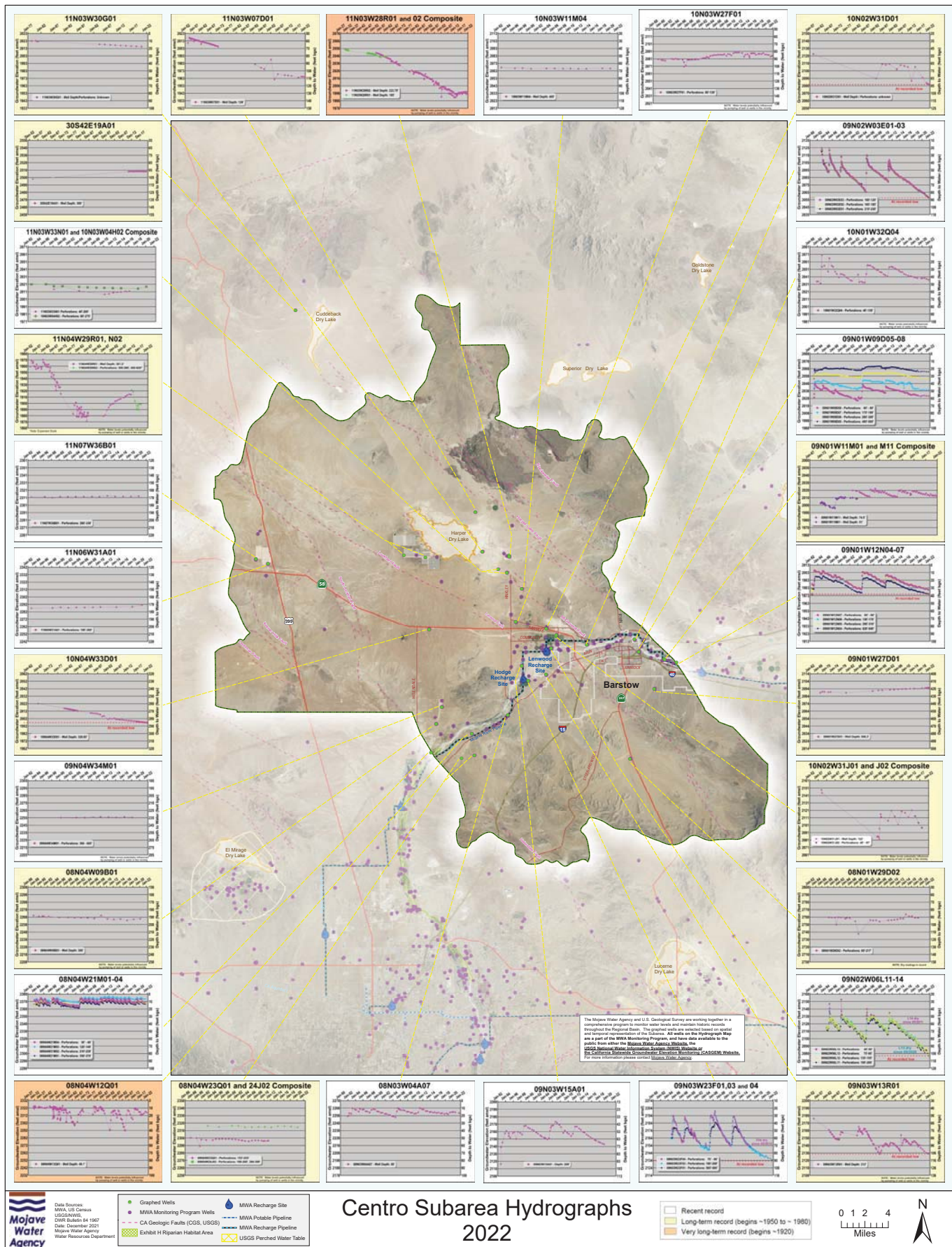


FIGURE 3-15



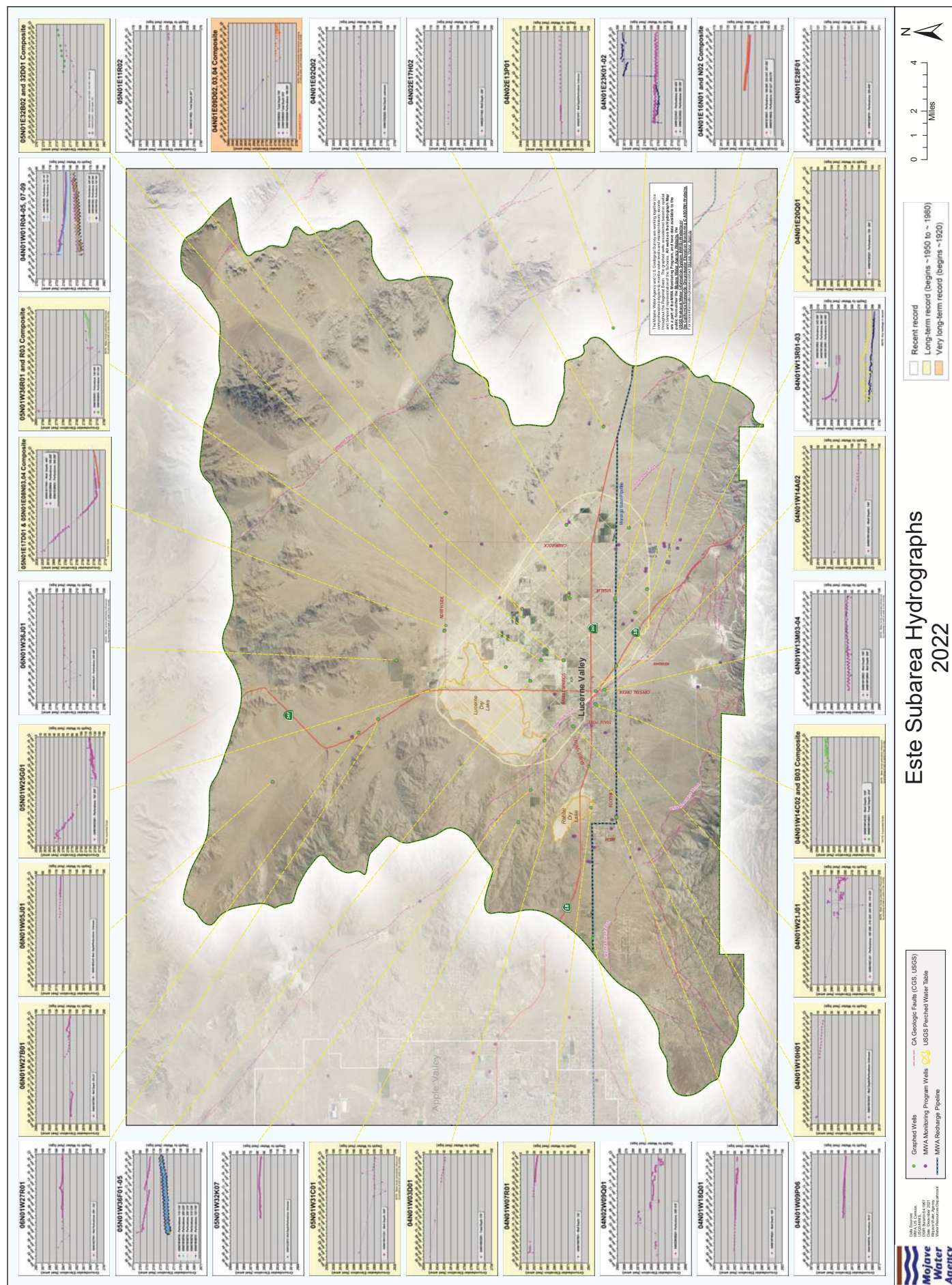


FIGURE 3-16



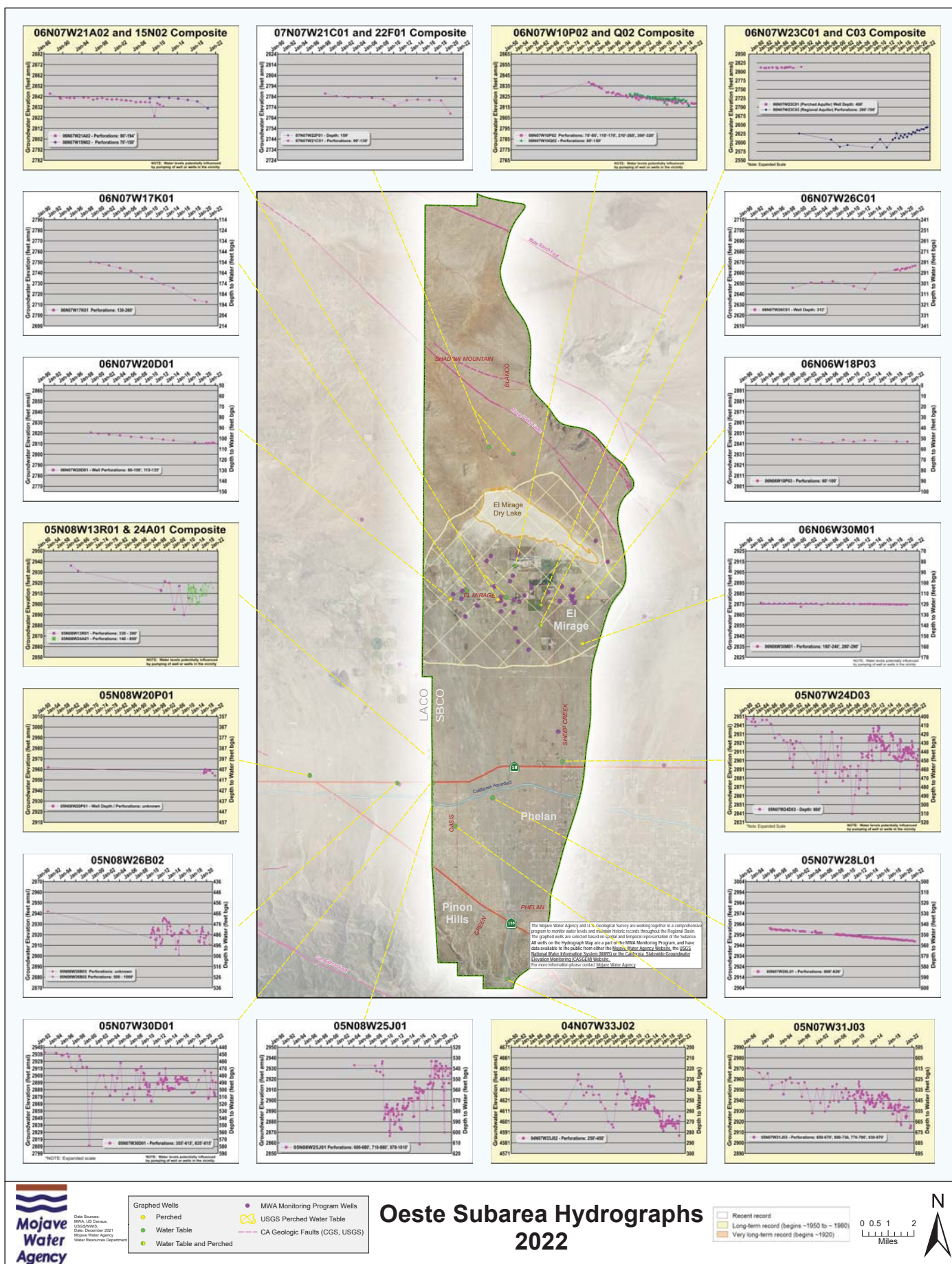


FIGURE 3-17



## **State of the Basin**

Watermaster has developed a graphical decision-making tool to assess changes of water in storage over time. Developed cooperatively with MWA, the tool is part of a larger program to track changes in water levels and match the changes with an annual calculation of inflow, outflow, and consumptive uses. Watermaster has developed a methodology for evaluating and estimating consumptive uses on an individual producer basis providing a more precise estimate of water use in each Subarea resulting in a more reliable calculation of change in storage. Consumptive use has been evaluated for the last nine years and continues to become increasingly fine-tuned as individual producer's use and each Subarea's hydrogeology are fully understood.

Watermaster has conducted an annual estimate of consumptive uses concurrent with Watermaster annual water production verification. Water production and use data compiled, verified and maintained by Watermaster were analyzed to determine the portion of water produced that was consumptively used.

The consumptive use analysis has been conducted annually since Water Year 2011-12 to provide estimates for irrigation demands for crops, septic return flow, sewage return flow, municipal and domestic outdoor return flow, as well as estimates of consumptive use for golf courses, parks and recreational lakes. The analysis breaks down each producer's water production into component parts, calculates a consumptive use for each sequential use and sums the results. Production records and land uses are evaluated annually for each individual producer. Daily climate data, soil survey information, crop development characteristics (crop coefficients, maximum effective rooting depth, and allowable soil water depletion), and producer's agricultural uses are analyzed to determine an irrigation demand. For municipal uses, available water purveyor data is evaluated to estimate per capita indoor and outdoor use for single-family and multi-family residential uses as well as industrial and commercial uses where applicable. Domestic uses are also evaluated on an individual producer level and indoor and outdoor use is estimated. The aggregate of each individual producer's consumptive use, in conjunction with available surface flow data, estimates of subsurface flow between subareas, and imported water result in the annual change in storage calculation.



Figures 3-18 through 3-22 show the accumulated storage change annually in each Subarea. Change in storage in the groundwater basin is calculated by subtracting the sum of the elements of inflow including imports, from outflow, consumptive uses, and exports. The information shown on the figures is indicative of the sustainability of the water supply conditions in each subarea.

Various ranges, shown by color gradations from blue to red, were developed for the Alto and Centro Subareas. In Alto (Figure 3-18), the minimum operating level is the amount of calculated storage change as of 2005, during which time the basin was considered to be healthy. The maximum operating level is the minimum level plus 5 years of average annual consumptive use. Average annual consumptive use in Alto is about 56,000 acre-feet, representing a year of pumping under the land and water use conditions existing since 1996.

In Centro (Figure 3-19) the minimum operating range is the amount of calculated storage change since 1997, the lowest since the Judgment, during which time the basin was considered to be healthy. The maximum operating level is the minimum level plus a supply of 5 average annual consumptive uses, with an average annual consumptive use being about 18,000 acre-feet from 1996 to 2021.

Conditions in Baja (Figure 3-20) have yet to stabilize since 1996. As such, optimal operating parameters have not been established. Figure 3-20, (for Baja), shows the continued overdraft and continued depletion of groundwater in storage.

The optimal operating parameters for Este (Figure 3-21) have not been established, though the elements of water supply use and disposal appear to be balanced based on water level data for at least the past 20 years. As shown on Table 3-2, water supply for Este for 2020-21 is approximately 4,600 acre-feet, assuming annual average change in storage is approximately zero.

Elements of water production, water supply, and outflow in Oeste (Figure 3-22) are roughly in balance over the past 20 years. A detailed review of the water levels in Oeste over the past several years indicates a short-term stability in some areas. In order to reflect the relatively stable water levels as indicated in the regional well hydrographs, Table 3-2 reflects “no change in storage.” Optimal operating parameters for Oeste have not been established.

MWA’s 2020 Urban Water Management Plan considered three water system reliability scenarios for evaluating its water supply. The scenarios included both a normal year as well as a single year historic drought on the SWP and a five-year drought risk assessment. In part, the



Operating Ranges for healthy long-term subarea operation as shown on Figures 3-18 and 3-19 are reflective of the dry year scenarios referenced in the 2020 UWMP. During the 20 years since Entry of Judgment, basin operating storage has ranged from a decline of approximately 3.4 years of consumptive use in Alto (189,342 acre-feet), and 3 years in Centro (55,058 acre-feet), to an increase of 4 years in Alto (226,489 acre-feet), and 7.5 years in Centro (137,389 acre-feet). The operating ranges, about 282,000 acre-feet in Alto and about 92,000 acre-feet in Centro, are well within the limits identified for dry year reliability envisioned by the 2020 UWMP. Since 1996, Baja has lost about 489,575 acre-feet of groundwater storage. There is concern that the Baja subarea could not sustain a continued reduction in storage.

Watermaster uses the State of the Basin analysis for documenting sustainability of the groundwater basin in reference to legislation enacted as Water Code sections 10720-10720.9 known as the Sustainable Groundwater Management Act (SGMA). The annual change in storage determined from the methodology described above for Water Year 2020-21 is shown on Table 3-2.

**TABLE 3-2**

**ANNUAL CHANGE IN STORAGE BY SUBAREA  
WATER YEAR 2020-21  
(AMOUNTS IN ACRE-FEET)**

	<u><b>Este<sup>1</sup></b></u>	<u><b>Oeste<sup>2</sup></b></u>	<u><b>Alto</b></u>	<u><b>Centro</b></u>	<u><b>Baja</b></u>	<u><b>Total</b></u>
<b>Total Water Supply</b>	4,579	3,374	12,049	6,896	1,682	<b>28,580</b>
<b>Total Outflow and Consumptive Use</b>	4,579	3,374	63,065	18,616	15,678	<b>105,312</b>
<b>Net Change in Storage</b>	<b>0</b>	<b>0</b>	<b>(51,016)</b>	<b>(11,720)</b>	<b>(13,996)</b>	<b>(76,732)</b>

**Notes**

- 1. Water level data indicates little or no change in storage on an average annual basis; water supply is estimated to balance outflow and consumptive use.**
- 2. Short term water levels indicate balance supply and demand for the past 15-20 years. This condition is unstable as population and water demand is expected to increase.**



# **Alto Subarea** **Net Change in Storage and MWA Storage Account Balance** **Water Years 1996 through 2021**

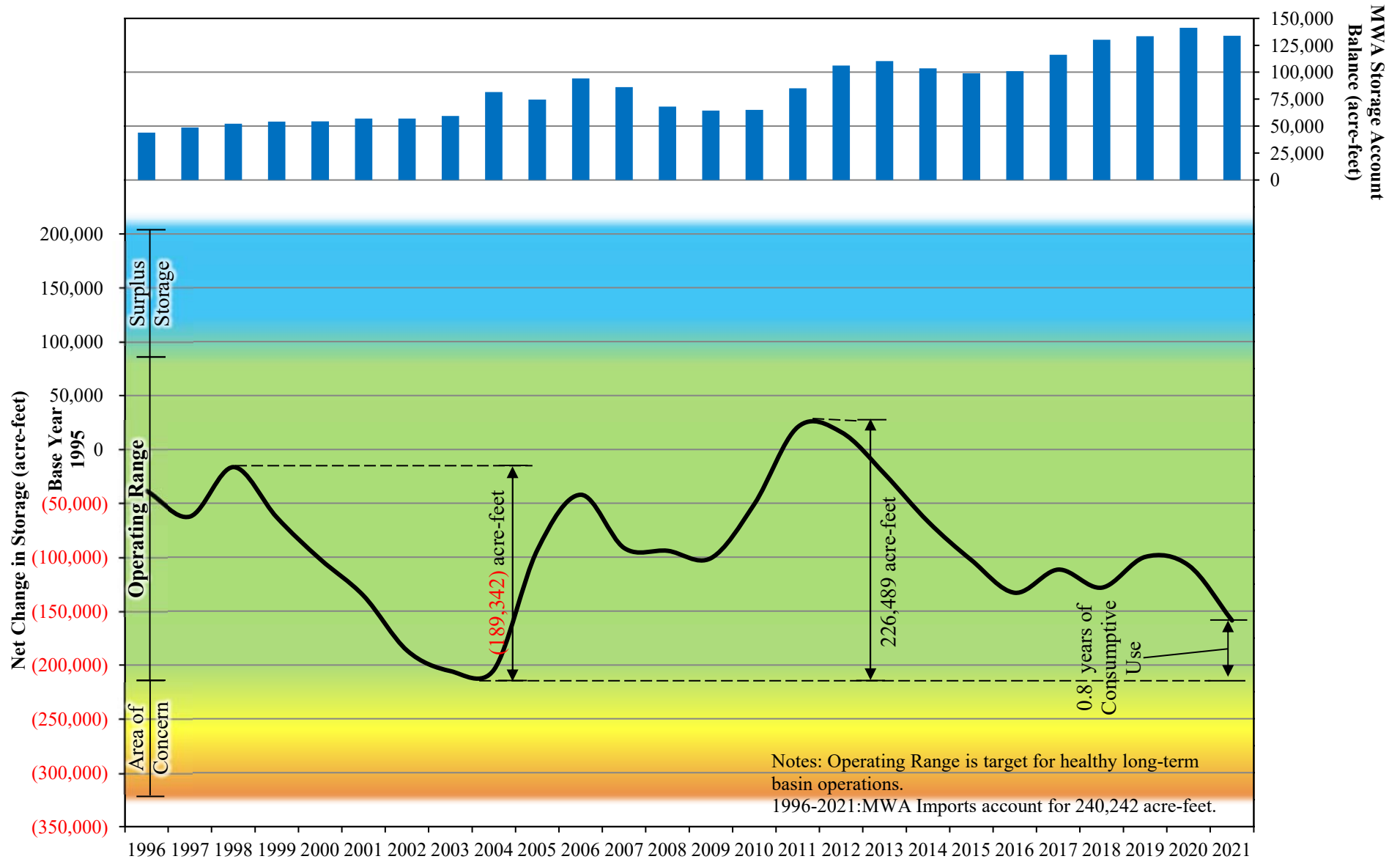


FIGURE 3-18

Operating range based on lowest amount in storage of -205,635af, during which the basin was considered to be healthy, plus a supply of 5 average annual consumptive uses, with an average annual consumptive use equating to 56,045 af from 1996 through present. Surplus Storage and Area of Concern each represent 2 average annual consumptive uses.  
 Source: Consumptive Use for 1996-2011 per Robert C. Wagner, Watermaster Engineer. Consumptive Use for 2012-2021 based on analysis of individual producers, Robert C. Wagner, Watermaster Engineer, 2022.



# **Centro Subarea** **Net Change in Storage and MWA Storage Account Balance** **Water Years 1996 through 2021**

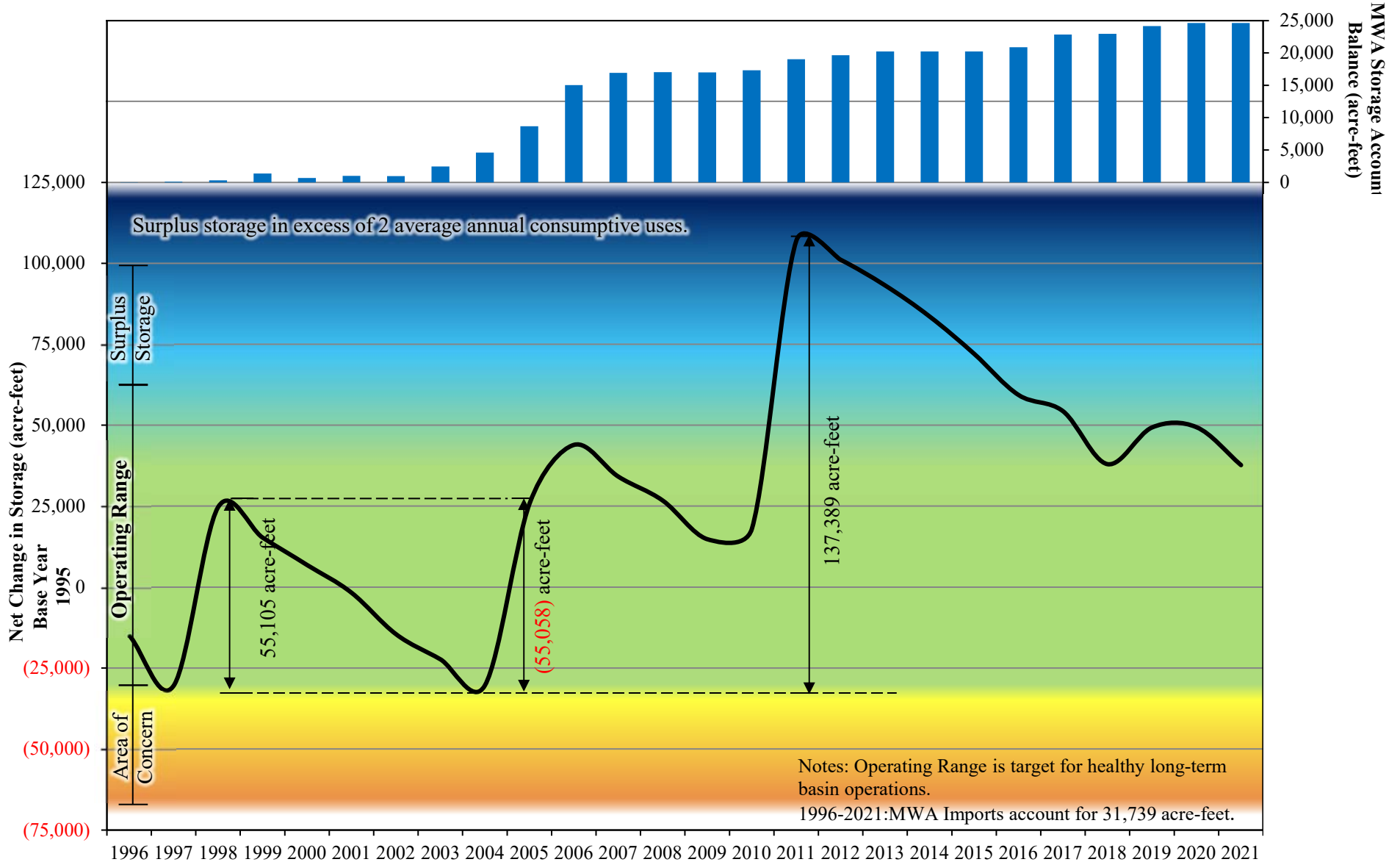
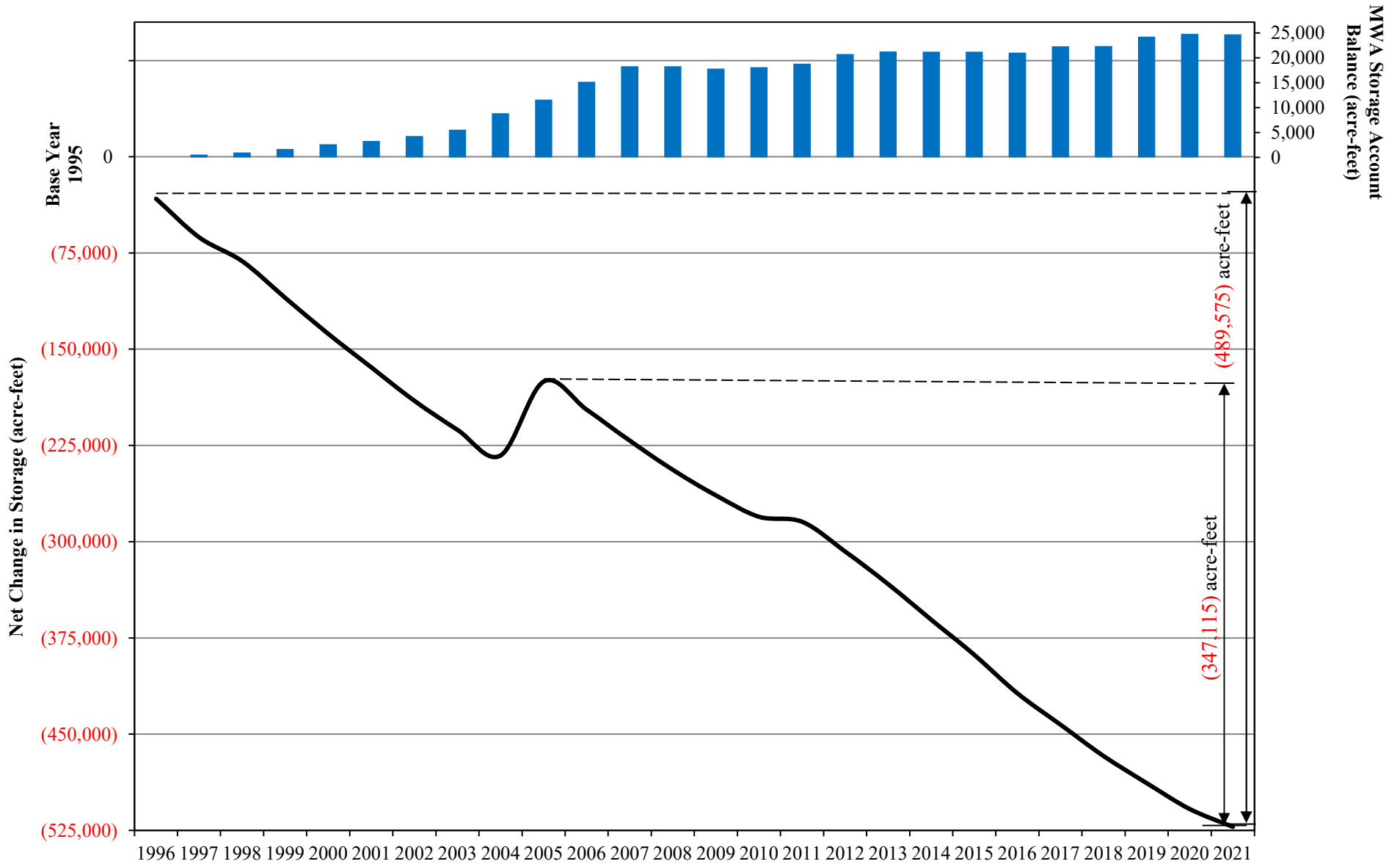


FIGURE 3-19

Operating range based on lowest amount in storage of -30,407af, during which the basin was considered to be healthy, plus a supply of 5 average annual consumptive uses, with an average annual consumptive use equating to 18,428 af from 1996 through present. Surplus Storage and Area of Concern each represent 2 average annual consumptive uses.  
 Source: Consumptive Use for 1996-2011 per Robert C. Wagner, Watermaster Engineer. Consumptive Use for 2012-2020 based on analysis of individual producers, Robert C. Wagner, Watermaster Engineer, 2021.



**Baja Subarea**  
**Net Change in Storage and MWA Storage Account Balance**  
**Water Years 1996 through 2021**



Note: Operating Range is not yet established.

FIGURE 3-20

Source: Consumptive Use for 1996-2011 per Robert C. Wagner, Watermaster Engineer. Consumptive Use for 2012-2021 based on analysis of individual producers, Robert C. Wagner, Watermaster Engineer, 2022.



**Este Subarea**  
**Net Change in Storage and MWA Storage Account Balance**  
**Water Years 1996 through 2021**

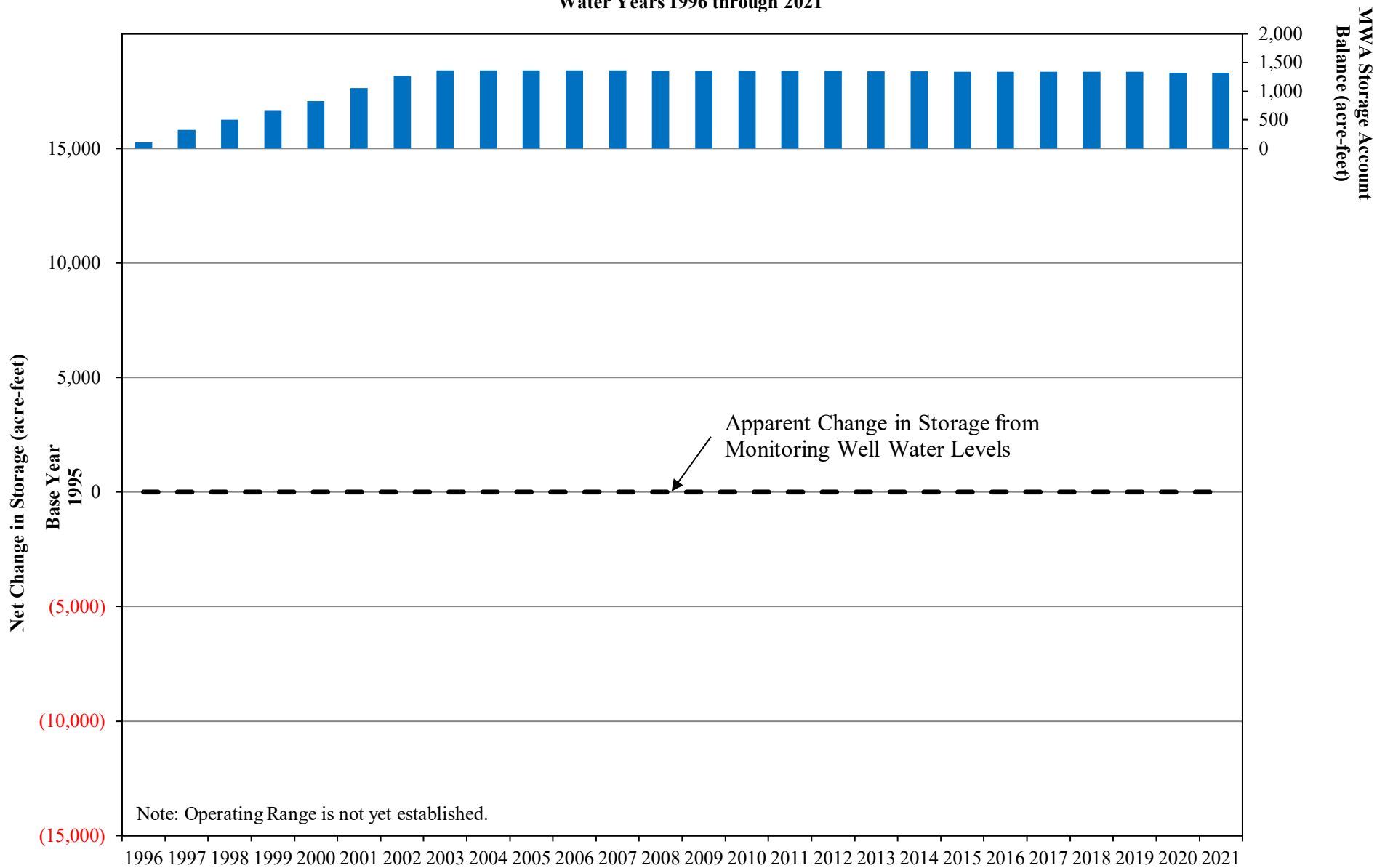


FIGURE 3-21



Oeste Subarea  
Net Change in Storage and MWA Storage Account Balance  
Water Years 1996 through 2021

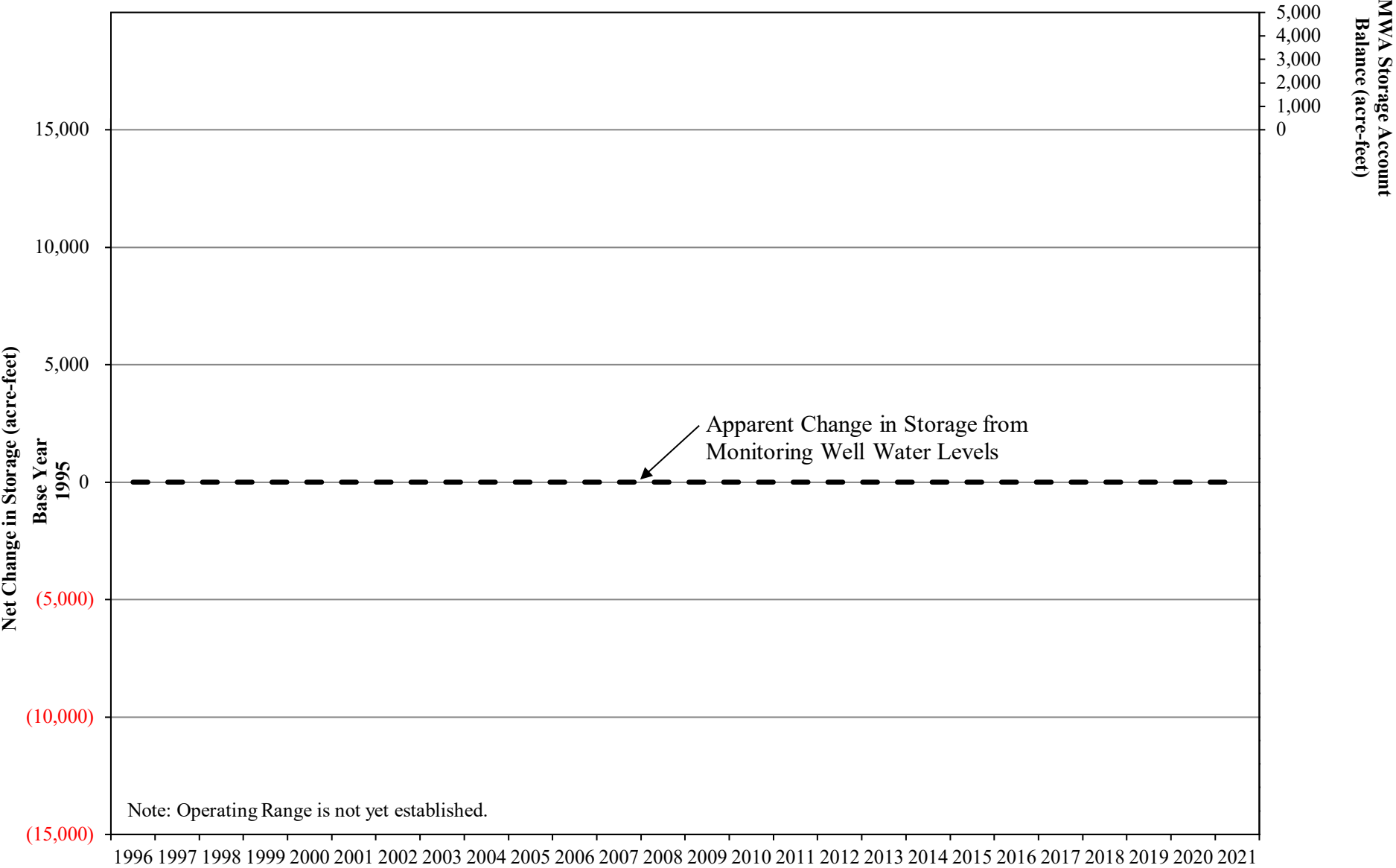


FIGURE 3-22



## **CHAPTER 4**

### **STATUS OF REPLACEMENT WATER AND MAKEUP WATER OBLIGATIONS**

Appendix B summarizes each Producer's Replacement Water and Makeup Water Obligations as well as any related assessments due and payable by July 1, 2022.

#### **Replacement Water**

Each Producer's Replacement Water Obligation in each Subarea was calculated by subtracting that Producer's 2020-21 share of FPA (plus any transferred or carryover FPA) from that Producer's verified production in 2020-21. Each Producer's Replacement Water Assessment was calculated by multiplying that Producer's Replacement Water Obligation by the 2020-21 Replacement Water Assessment Rate of \$563.00 per acre-foot. In lieu of paying Replacement Water Assessments, a Producer may satisfy a Replacement Water Obligation in a Subarea by acquiring another Producer's Unused FPA from 2020-21 in the same Subarea (subject to any consumptive use adjustments) and reporting such acquisition to the Watermaster on appropriate forms provided by the Watermaster not later than 30 days prior to the regularly scheduled Watermaster Meeting in May 2022. Unused FPA during 2020-21 for each Producer within each Subarea is set forth in Appendix B.

Table 4-1 summarizes the Replacement Water Obligations and Assessments and Unused FPA for 2020-21 in each Subarea.



**TABLE 4-1**

**SUMMARY OF REPLACEMENT WATER OBLIGATIONS  
AND  
REPLACEMENT WATER ASSESSMENTS FOR  
WATER YEAR 2020-21**

<b><u>Subarea</u></b>	<b><u>Replacement Water Obligations</u></b> (acre-feet)	<b><u>Replacement Water Assessments</u></b>	<b><u>Unused FPA</u></b> (acre-feet)
Este	431	\$242,653.00	13,264
Oeste	0	\$0.00	4,442
Alto	24,767	\$13,943,821.00	14,499
Centro	143	\$80,509.00	32,749
Baja	1,031	\$580,453.00	10,592
<b>Total</b>	<b>26,372</b>	<b>\$14,847,436.00</b>	<b>75,546</b>

**Makeup Water**

The Base Flow determination of 4,791 acre-feet prepared by the Watermaster Engineer was presented to the Watermaster at the regularly scheduled meeting on January 26, 2022. Table 4-2 summarizes the flows credited to each Subarea obligation during Water Year 2020-21, the status of each Subarea at the end of the year and each minimum obligation for Water Year 2020-21. The Makeup Obligation from the Alto Subarea to the Centro Subarea for Water Year 2020-21 is 2,833 acre-feet. Table 4-3 shows the year over year Makeup Obligation from Alto to Centro beginning in Water Year 2011-12.

During the first ten years of implementation of the Judgment, the subsurface flow obligations between Subareas were assumed to be met. Subsequently, Watermaster revisited the subsurface flow assumptions in the Judgment and recommended no changes. Subject to continued monitoring, the Makeup Obligations are assumed to be met.



**TABLE 4-2**  
**STATUS OF SUBAREA OBLIGATIONS**  
**AT THE END OF WATER YEAR 2020-21**

Subareas	<u>Este</u>	<u>Oeste</u>	<u>Alto</u>	<u>Centro</u>	<u>Baja</u>
			Transition		
Obligation to	Alto	Alto	Zone	Baja	Afton
Average Annual Obligation in acre-feet	200	800	23,000	1,200	400
Status at Beginning of 2020-21					
Cumulative Obligation	5,400	21,600	621,000	32,400	10,800
Cumulative Flow	5,400	21,600	600,435	32,400	7,540
Net cumulative Credit (Debit)	0	0	(20,565)	0	(3,260)
Flow During 2020-21					
Base Flow	---	---	4,791	---	---
Subsurface Flow	200	800	2,000	1,200	249
Other Water	0	0	13,346	0	0
Makeup Water Purchased	<u>0</u>	<u>0</u>	<u>2,285</u>	<u>0</u>	<u>0</u>
<b>Total Flow</b>	<b>200</b>	<b>800</b>	<b>22,422</b>	<b>1,200</b>	<b>249</b>
Minimum Obligations for 2020-21	160	640	25,255	960	3,180
<b>Makeup Obligation Incurred</b>	<b>0</b>	<b>0</b>	<b>2,833</b>	<b>0</b>	<b>2,931</b>
Status at End of 2020-21					
Cumulative Obligation	5,600	22,400	644,000	33,600	11,200
Cumulative Flow	<u>5,600</u>	<u>22,400</u>	<u>622,857</u>	<u>33,600</u>	<u>7,789</u>
Net Cumulative Credit (Debit)	0	0	(21,143)	0	(3,411)
Minimum Obligation for 2021-22					
Annual Minimum	160	640	18,400	960	320
+ 1/3 of Cumulative Debit	0	0	7,048	0	1,137
+ Additional to reduce Cumulative Debit to Annual Obligation	0	0	0	0	1,874
Alternative Minimum for Alto <sup>1</sup>	---	---	---	---	---
<b>Minimum Obligation for 2021-22</b>	<b>160</b>	<b>640</b>	<b>25,448</b>	<b>960</b>	<b>3,331</b> <sup>2</sup>

1) Annual Minimum minus Cumulative Credit but not less than 15,000 acre-feet.

4791

of Appendix G of the Judgment, subsurface flow obligations are assumed to have been met. Pursuant to the Court order dated 6/5/2006, Watermaster is relieved of evaluation of the subsurface flow from BAJA across the Mojave Water Agency administrative boundary about six miles upstream of Afton.



TABLE 4-3

**STATUS OF ALTO SUBAREA OBLIGATIONS  
WATER YEARS 2011-12 THROUGH 2020-21**

<b>Water Year</b>	<b><u>2011-12</u></b>	<b><u>2012-13</u></b>	<b><u>2013-14</u></b>	<b><u>2014-15</u></b>	<b><u>2015-16</u></b>	<b><u>2016-17</u></b>	<b><u>2017-18</u></b>	<b><u>2018-19</u></b>	<b><u>2019-20</u></b>	<b><u>2020-21</u></b>
Average Annual Obligation in acre-feet	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000
Status at Beginning of Water Year										
Cumulative Obligation	414,000	437,000	460,000	483,000	506,000	529,000	552,000	575,000	598,000	621,000
Cumulative Flow	<u>398,148</u>	<u>423,651</u>	<u>447,286</u>	<u>468,411</u>	<u>490,268</u>	<u>511,465</u>	<u>533,205</u>	<u>554,196</u>	<u>577,480</u>	<u>600,435</u>
Net cumulative Credit (Debit)	(15,852)	(13,349)	(12,714)	(14,589)	(15,732)	(17,535)	(18,795)	(20,804)	(20,520)	(20,565)
Flow During Water Year										
Base Flow	8,829	7,325	6,227	5,418	4,851	4,031	3,662	4,533	5,185	4,791
Subsurface Flow	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Other Water	14,674	14,310	12,898	12,926	12,940	13,262	12,824	13,077	13,719	13,346
Makeup Water Purchased	<u>0</u>	<u>0</u>	<u>0</u>	<u>1,513</u>	<u>1,406</u>	<u>2,447</u>	<u>2,505</u>	<u>3,674</u>	<u>2,051</u>	<u>2,285</u>
<b>Total Flow</b>	<b>25,503</b>	<b>23,635</b>	<b>21,125</b>	<b>21,857</b>	<b>21,197</b>	<b>21,740</b>	<b>20,991</b>	<b>23,284</b>	<b>22,955</b>	<b>22,422</b>
Minimum Obligations	23,684	22,850	22,638	23,263	23,644	24,245	24,665	25,335	25,240	25,255
<b>Makeup Obligation Incurred</b>	<b>0</b>	<b>0</b>	<b>1,513</b>	<b>1,406</b>	<b>2,447</b>	<b>2,505</b>	<b>3,674</b>	<b>2,051</b>	<b>2,285</b>	<b>2,833</b>
Status at End of Water Year										
Cumulative Obligation	437,000	460,000	483,000	506,000	529,000	552,000	575,000	598,000	621,000	644,000
Cumulative Flow	<u>423,651</u>	<u>447,286</u>	<u>468,411</u>	<u>490,268</u>	<u>511,465</u>	<u>533,205</u>	<u>554,196</u>	<u>577,480</u>	<u>600,435</u>	<u>622,857</u>
Net Cumulative Credit (Debit)	(13,349)	(12,714)	(14,589)	(15,732)	(17,535)	(18,795)	(20,804)	(20,520)	(20,565)	(21,143)
Minimum Obligation for Next Year										
Annual Minimum	18,400	18,400	18,400	18,400	18,400	18,400	18,400	18,400	18,400	18,400
+ 1/3 of Cumulative Debit	4,450	4,238	4,863	5,244	5,845	6,265	6,935	6,840	6,855	7,048
+ Additional to reduce Cumulative Debit to Annual Obligation	0	0	0	0	0	0	0	0	0	0
Alternative Minimum <sup>1</sup>	---	---	---	---	---	---	---	---	---	---
<b>Minimum Obligation for Next Year</b>	<b>22,850</b>	<b>22,638</b>	<b>23,263</b>	<b>23,644</b>	<b>24,245</b>	<b>24,665</b>	<b>25,335</b>	<b>25,240</b>	<b>25,255</b>	<b>25,448</b>

1) Annual Minimum minus Cumulative Credit but not less than 15,000 acre-feet.



## CHAPTER 5

### FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23

Pursuant to paragraph 24 (o) of the Judgment After Trial dated January 10, 1996, the Watermaster is required to make a recommendation to the Court for adjusting the FPA of each Subarea, if necessary.

Exhibit H of the Judgment provides that in the event that the FPA exceeds the estimated Production Safe Yield (PSY) by five percent or more (of the Subarea BAP), Watermaster shall recommend a reduction in FPA equal to a full five percent of the aggregate Subarea BAP.

In 2018 an update to Production Safe Yield and Consumptive Use for each subarea was completed at the court's request. Previously, PSY was updated in August 2000. Consumptive use and PSY are defined by the Judgment as follows:

- Production Safe Yield - The highest average Annual Amount of water that can be produced from a Subarea: (1) over a sequence of years that is representative of long-term average annual natural water supply to the Subarea net of long-term average annual natural outflow from the Subarea, (2) under given patterns of Production, applied water, return flows and Consumptive Use, and (3) without resulting in a long-term net reduction of groundwater in storage in the Subarea.
- Consumption or Consumptive Use - The permanent removal of water from the Mojave Basin Area through evaporation or evapo-transpiration.

Consumptive use is important because it is used to estimate return flow. Return flow is the difference between water production for a particular use and the estimated consumptive use of the production. Return flow is therefore considered part of the water supply.

The PSY estimate includes long-term hydrology as specified in the Judgment, consumptive uses for 2017-18 (updated), phreatophyte use as indicated in the Judgment, Subarea subsurface obligations and surface obligations between Alto and Centro (there are no other surface obligations in the Judgment). Table 5-1 shows the current PSY calculation.

The following table shows the current FPA for each Subarea and the estimated PSY.



<b><u>Subarea</u></b>	<b><u>Base Annual Production</u></b>	<b><u>2021-22 FPA</u></b>	<b><u>Production Safe Yield</u></b>	<b><u>Percent Difference<sup>1</sup></u></b>	<b><u>2020-21 Verified Production</u></b>
Alto	116,412	65,051	64,406	0.6%	77,891
Baja	66,157	16,697	12,189	6.8%	12,867
Centro	51,030	33,801	21,088	24.9%	18,132
Este	20,205	13,493	4,728	43.4%	4,304
Oeste	7,095	4,355	1,712	37.3%	3,560

<sup>1</sup>This value represents the percent of BAP that PSY departs from FPA.

The Judgment's purpose is to balance supply and demand and allocate the cost to parties that over pump FPA. The purpose of Rampdown is not to cause a reduction in pumping but a reduction in FPA to cause imported water supply to be purchased to offset deficits.

The following is the recommendation for setting FPA for Water Year 2022-23:

<b><u>Subarea</u></b>	<b><u>Proposed 2022-23 Free Production Allowance</u></b>
Alto	55% of Base Annual Production
Centro	60% of Base Annual Production
Baja	22.5% of Base Annual Production
Este	60% of Base Annual Production
Oeste	55% of Base Annual Production

PSY is based on long term average water supply (1931-1990) as recorded at the Forks and the assumptions that this supply will be repeated over a long period of time, and that there is sufficient groundwater in storage to continue to overdraft the groundwater supply during periods of below average inflow. Time is an important consideration in the relationship between FPA, PSY and sustainability. A period of well below average inflow may cause disruption in water supply while a subarea remains in relative balance (FPA=PSY).

If inflow during the next 10 years is similar to the recent past 10 years, the basin will have experienced a 20-year dry period with inflow equal to about 43% of the long term average. It is unknown the extent to which the basin can be drawn down to meet demands without causing undesirable effects; such effects would include poor well performance, falling water levels, water quality issues, loss of riparian habitat among others. Although short term overdraft was envisioned



as part of the Physical Solution, declining water levels and declining base flow is an indication of potential problems due to continued supply shortages.

#### **Alto – 55% of BAP**

FPA in Alto is within 5% of PSY of BAP (0.6%) and thus, Exhibit H does not compel Watermaster to recommend Rampdown. Water levels in some wells show a continuing downward trend in response to drier than average water supply during the past 10 years. During 2020-21, inflow measured at Deep Creek and West Fork Mojave River (Forks), was 4,213 acre-feet or about 6.4% of the 60-year base period average. Notably zero flow was measured and reported by the USGS at West Fork Mojave River. During the recent 10-year period 2012 to 2021, inflow at the Forks, as reported by USGS has been 43.3% (28,404 acre-feet) of the 60 year base period average (65,538 acre-feet). During 2020-21 the measured inflow at the Forks was the second driest of the past 91 years. Last year Alto experienced 51,016 acre-feet of groundwater depletion. It is unknown whether or not the basin can sustain another 10 dry years without augmenting the supply; 2022 is year 11 of a possible 20 year drought period. It is noted that augmenting supply may be necessary in the near future if water supply remains below base period average. It is not recommended that Alto FPA be reduced for Water Year 2022-23.

#### **Centro – 60% of BAP**

FPA in Centro exceeds PSY by more than 5% of BAP (24.9%). Water levels are stable in most of Centro, and generally respond to storm flow when available in sufficient amounts to partially recharge the aquifer. However, in some areas, localized pumping causes water levels to be depressed. In order to balance FPA with PSY under the Judgment additional Rampdown is required. It is recommended that Centro FPA be reduced by 5% to 60% for Water Year 2022-23.

#### **Baja – 22.5% of BAP**

FPA in Baja exceeds PSY by more than 5% of BAP (6.8%). In 2021 the Court ordered a Rampdown of 2.5% in Baja. Water level hydrographs in Baja continue to show declines, however we note that in some hydrographs there is an indication that water levels are responding to reduced pumping. Since 2015-16, water production has declined from 28,227 acre-feet to 12,867 acre-feet. Since 2020, water production declined about 31% from 18,677 acre-feet to 12,867 acre-feet. We expect additional decline of about 1,500-2,000 acre-feet in 2022. This rapid change in land use is



primarily the result of agricultural water use declining. Changes in land use that might be permanent will have an impact on the PSY calculation and warrant additional investigation. Although the PSY for Baja would indicate an additional 2.5% reduction in FPA to 20%, it is recommended that Baja FPA remain at 22.5% of BAP for the 2022-23 Water Year.

#### **Este – 60% of BAP**

FPA in Este exceeds PSY by more than 5% of BAP (43.4%). Water levels in Este are stable as water production has declined. Water production has declined in Este from 15,700 acre-feet in 1990 to 4,304 acre-feet in 2021. In order to balance FPA with PSY under the Judgment additional Rampdown is required. It is recommended that Este FPA be reduced by 5% to 60% for Water Year 2022-23.

#### **Oeste – 55% of BAP**

FPA in Oeste exceeds PSY by more than 5% of BAP (37.3%). Some water levels in Oeste exhibit steady decline and others are stable, although variable, over the past 15 years. Water levels in Oeste wells will decline as population growth increases water demands. In order to balance FPA with PSY under the Judgment additional Rampdown is required. It is recommended that Oeste FPA be reduced by 5% to 55% for Water Year 2022-23.



**--SAMPLE CALCULATION--**  
**TABLE C-1 OF JUDGMENT**

**Mojave Basin Area Adjudication**  
**Subarea Hydrological Inventory Based On**  
**Long-Term Average Natural Water Supply and Outflow**  
**and Current Year Imports and Consumptive Use**  
**(All Amounts in Acre-Feet)**

	<u>Este</u>	<u>Oeste</u>	<u>Alto</u>	<u>Centro</u>	<u>Baja</u>	<u>Basin Totals</u>
<b>WATER SUPPLY</b>						
Surface Water Inflow						
Gaged	0	0	65,000	0	0	65,000
Ungaged	1,700	1,500	3,000	37,300 <sup>1</sup>	14,300 <sup>2</sup>	6,500 <sup>3</sup>
Subsurface Inflow	0	0	1,000	2,000	1,200	0 <sup>4</sup>
Deep Percolation of Precipitation	0	0	3,500	0	100	3,600
Imports						
Lake Arrowhead CSD	0	0	1,500	0	0	1,500
Big Bear ARWWA	2,000	0	0	0	0	2,000
<b>TOTAL</b>	<b>3,700</b>	<b>1,500</b>	<b>74,000</b>	<b>39,300</b>	<b>15,600</b>	<b>78,600</b>
<b>CONSUMPTIVE USE AND OUTFLOW</b>						
Surface Water Outflow						
Gaged	0	0	0	0	8,200	8,200
Ungaged	0	0	37,300 <sup>1</sup>	14,000 <sup>5</sup>	0	0
Subsurface Outflow	200	800	2,000	1,200	0	0
Consumptive Use						
Agriculture	6,800	2,900	16,300	20,300	30,200	76,500
Urban	1,900	1,200	36,300	9,500	9,700	58,600
Phreatophytes	0	0	5,100	900	1,500	7,500 <sup>6</sup>
Exports	0	0	0	0	0	0
<b>TOTAL</b>	<b>8,900</b>	<b>4,900</b>	<b>97,000</b>	<b>45,900</b>	<b>49,600</b>	<b>150,800</b>
 Surplus / (Deficit)	 (5,200)	 (3,400)	 (23,000)	 (6,600)	 (34,000)	 (72,200)
Total Estimated Production (Current Year) <sup>7</sup>	15,700	7,600	98,900	46,500	54,300	223,000
 <b>PRODUCTION SAFE YIELD (Current Year) <sup>7</sup></b>	 <b>10,500</b>	 <b>4,200</b>	 <b>75,900</b>	 <b>39,900</b>	 <b>20,300</b>	 <b>150,800</b>

<sup>1</sup> Estimated from reported flows at USGS gaging station, Mojave River at Victorville Narrows.

<sup>2</sup> Includes 14,000 acre-feet of Mojave River surface flow across the Waterman Fault estimated from reported flows at USGS gaging station, Mojave River at Barstow and 300 acre-feet of local surface inflow from Kane Wash.

<sup>3</sup> Represents the sum of Este (1,700 af), Oeste (1,500 af), Alto (3,000 af) and Baja (300 af from Kane Wash).

<sup>4</sup> Inter subarea subsurface flows do not accrue to the total basin water supply.

<sup>5</sup> Estimated from reported flows at USGS gaging station, Mojave River at Barstow.

<sup>6</sup> Estimated by Bookman-Edmonston.

<sup>7</sup> For purposes of this Table, the current year is 1990.



**TABLE 5-1**

**SUBAREA HYDROLOGICAL INVENTORY BASED ON  
LONG TERM AVERAGE NATURAL WATER SUPPLY AND OUTFLOW  
AND 2017-18 IMPORTS AND CONSUMPTIVE USE**

(ALL AMOUNTS IN ACRE-FEET)

<b>WATER SUPPLY</b>	<b>Este</b>	<b>Oeste</b>	<b>Alto</b>	<b>Centro</b>	<b>Baja</b>	<b>Basin Totals</b>
Surface Water Inflow	1,700	1,500	68,500 <sup>1</sup>	33,600 <sup>2</sup>	17,358 <sup>3</sup>	72,652 <sup>4</sup>
Subsurface Inflow	0	0	1,000	2,000	1,581 <sup>5</sup>	0 <sup>6</sup>
Deep Percolation of Precipitation	0	0	3,500	0	100	3,600
Imports <sup>7</sup>	2,000	0	2,234	2,262	0	6,496
<b>TOTAL</b>	<b>3,700</b>	<b>1,500</b>	<b>75,234</b>	<b>37,862</b>	<b>19,039</b>	<b>82,748</b>
<b>CONSUMPTIVE USE AND OUTFLOW</b>						
Surface Water Outflow	0	0	33,600 <sup>2</sup>	16,406 <sup>8</sup>	5,372 <sup>9</sup>	5,372
Subsurface Outflow	200	800	2,000	1,581 <sup>5</sup>	0	0
Consumptive use						
Agriculture <sup>10</sup>	2,327	1,208	1,311	8,895	17,664	31,405
Urban <sup>10,11</sup>	1,500	1,724	40,603	7,557	6,338	57,722
Phreatophytes	0	0	11,000	3,000	2,000	16,000 <sup>12</sup>
<b>TOTAL</b>	<b>4,027</b>	<b>3,732</b>	<b>88,514</b>	<b>37,439</b>	<b>31,374</b>	<b>110,499</b>
Surplus / (Deficit)	(327)	(2,232)	(13,280)	423	(12,335)	(27,751)
Total Estimated Production <sup>13</sup>	5,055	3,944	77,686	20,665	24,524	131,874
<b>PRODUCTION SAFE YIELD<sup>14</sup></b>	<b>4,728</b>	<b>1,712</b>	<b>64,406</b>	<b>21,088</b>	<b>12,189</b>	<b>104,123</b>

<sup>1</sup> Average discharge of Mojave River at The Forks, 1931-1990 (The Forks is the addition of reported values from USGS stations at West Fork Mojave River Near Hesperia, CA (10261000) and Deep Creek Near Hesperia, CA (10260500). Includes 3,000 af of ungaged inflow (Judgment, 1996).

<sup>2</sup> Estimated based on reported flows at USGS gaging station, Mojave River at Victorville Narrows and 1991-2018 Transition Zone water balance (Watermaster Engineer, 2019).

<sup>3</sup> Estimated from reported flows at USGS gaging station, Mojave River at Barstow. Includes 16,406 af of Mojave River surface flow across the Waterman Fault estimated by "Evaluations of Potential Mojave River Recharge Losses between Barstow and Waterman Fault", Wagner & Bonsignore, 2012 (see Appendix A, Table 6), and 747 af of local surface inflow from Kane Wash and Boom Creek, and 205 af from washes (Wagner, 2011).

<sup>4</sup> Represents the sum of Este (1,700 af), Oeste (1,500 af), Alto (68,500 af) and Baja (747 af from Kane Wash and Boom Creek, 205 af from washes).

<sup>5</sup> Stamos, 2001 (USGS).

<sup>6</sup> Inter subarea subsurface flows do not accrue to the total basin water supply.

<sup>7</sup> Imports for Este are from the Big Bear Area Regional Wastewater Authority; Alto are from Lake Arrowhead Community Services District and pre-purchased groundwater storage for HDPP; Centro are the average make-up water purchases, 1995-2018.

<sup>8</sup> Estimated from reported flows at USGS gaging station, Mojave River at Barstow (see note #2 above).

<sup>9</sup> Based on USGS station Mojave River at Afton, CA (10263000) reported discharge for 1931, 1953-2018. Water Years 1979 and 1980 estimated by Mojave Basin Area Watermaster.

<sup>10</sup> 2018 Consumptive Use Analysis by Watermaster.

<sup>11</sup> Includes consumptive use of "Minimals Pool" (estimated Minimal's production is 7,077 af).

<sup>12</sup> From USGS Water-Resources Investigation Report 96-4241 "Riparian Vegetation and Its Water Use During 1995 Along the Mojave River, Southern California" 1996.

<sup>13</sup> Water production for 2017-18. Included in the production values are the estimated minimal producer's water use by Subarea.

<sup>14</sup> Imported State Water Project water purchased by MWA is not reflected in the above table.



## CHAPTER 6

### FINANCIAL REPORT PROPOSED BUDGET AND ASSESSMENT RATES

#### Statements of Revenues, Expenses and Changes in Net Position

	<u>2020</u>	<u>2021</u>
Operating Revenue	\$ 618,648.00	\$ 2,287,699.00
Operating Expenses	607,091.00	2,325,510.00
Non-operating Revenue (Expense)	(62,264.00)	(36,622.00)
<b>Change in Net Position</b>	<b>(50,707.00)</b>	<b>(74,433.00)</b>
<b>Net Position, beginning of year</b>	<b>1,043,149.00</b>	<b>992,422.00</b>
<b>Net Position, end of year</b>	<b>\$ 992,442.00</b>	<b>\$ 918,009.00</b>

The Auditor's Report for Fiscal Year 2020-21 ending June 30, 2021 is presented in Appendix G and includes a summary of the significant categories of receivables and other current assets.

#### Biological Resources Trust Fund Summary

The Biological Resources Trust Fund balance as of June 30, 2021 was \$711,817.00.

#### Administrative Budget for 2022-23

The Administrative Budget for 2022-23 is \$525,252 and is shown on Table 6-1.

#### Summary of Makeup Water Purchases

The Watermaster purchased 10 acre-feet of Makeup water during the 2020-21 Water Year for the Centro Subarea.



### **Summary of Replacement Water Purchases**

Replacement water purchases by Watermaster during 2020-21 are as follows:

Alto <sup>1</sup>	5,613	acre-feet
Baja	22	acre-feet
Centro	0	acre-feet
Este	0	acre-feet
Oeste	0	acre-feet
<b>Total</b>	<b>5,635</b>	<b>acre-feet</b>

<sup>1</sup> 1,043 acre-feet of Alto Replacement water was pre-purchased under the MWA Claim Program.  
1,670 acre-feet was pre-stored under a storage agreement.

### **Administrative and Biological Assessment Rates for 2022-23**

The Administrative and Biological Assessment Rates for 2022-23 adopted by the Watermaster on March 23, 2022 are as follows:

Administrative	\$ 4.65 per acre-foot of Production
Biological Resources	\$ 1.03 per acre-foot of Production

### **Projected Replacement and Makeup Water Assessment Rates for 2021-22 and 2022-23**

The Replacement and Makeup Water Assessment Rates projected by the Watermaster on March 23, 2022 are as follows:

#### Replacement and Makeup Water Rate

2021-22	<i>Not to Exceed</i> \$619.00 per acre-foot <sup>1</sup> (Invoice Date 6-1-2023)
2022-23	\$681.00 per acre-foot (projected) <sup>2</sup> (Invoice Date 6-1-2024)

<sup>1</sup> This rate is for obligations incurred in the 2021-22 Water Year which will be billed in June 2023. The fixed rate that will be used for invoicing will be determined by the Mojave Water Agency in February 2023.

<sup>2</sup> This is a projected rate for obligations incurred in the 2022-23 Water Year which will be billed in June 2024. The fixed rate that will be used for invoicing will be determined by the Mojave Water Agency in February 2024.



**TABLE 6-1**

**MOJAVE BASIN AREA WATERMASTER  
ADMINISTRATIVE BUDGET  
FOR WATER YEAR 2022-23**

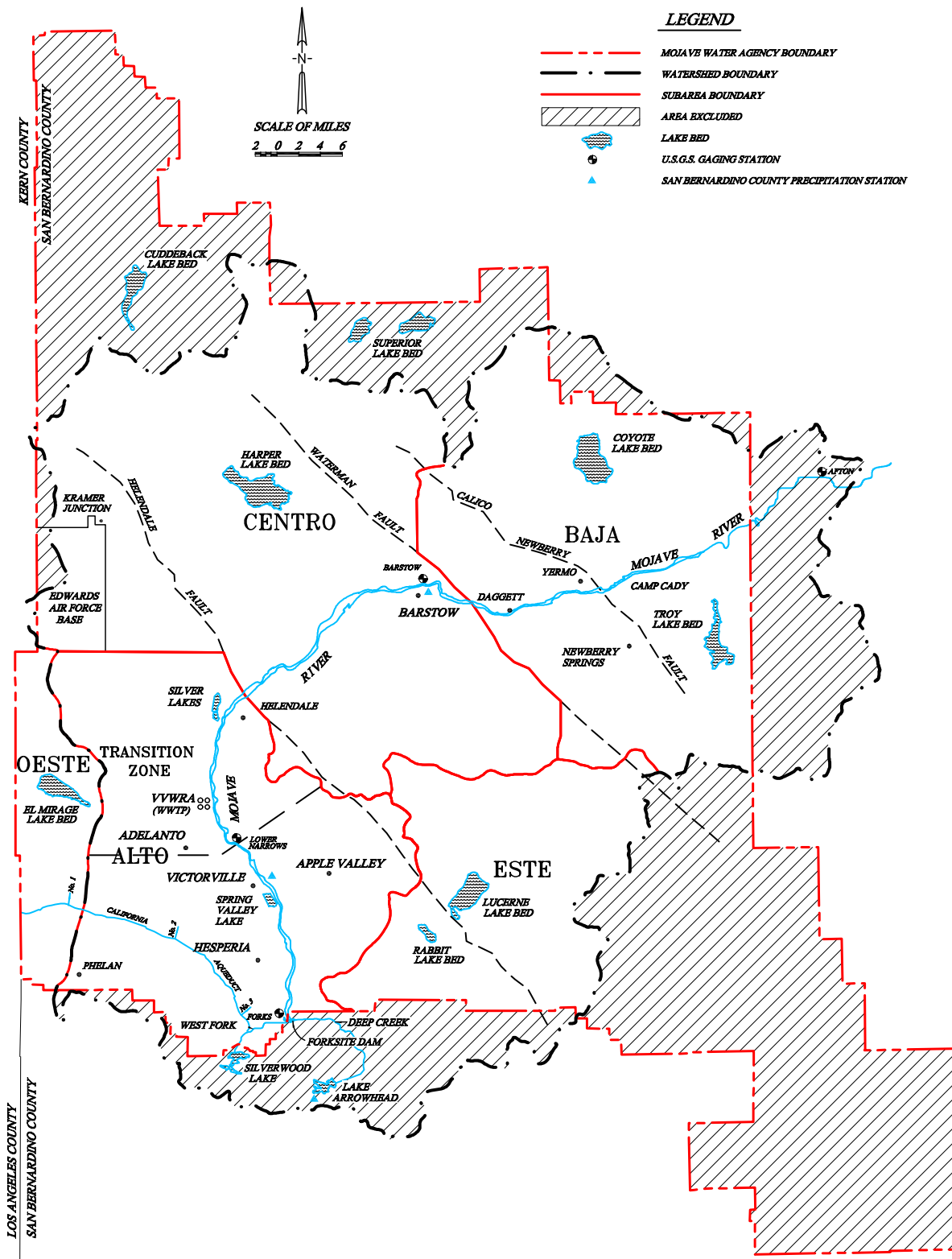
1.	Administrative Services	\$ 337,852.00
2.	Engineering Services	\$ 93,500.00
3.	Legal Services	\$ 90,000.00
4.	Audit Services	\$ 3,900.00
<b>Total Estimated Budget</b>		<b><u>\$ 525,252.00</u></b>



## **APPENDIX A**

### **MAP OF THE MOJAVE BASIN AREA**





# MOJAVE BASIN AREA



## **APPENDIX B**

### **PRODUCER REPLACEMENT WATER AND MAKEUP WATER OBLIGATIONS AND ASSESSMENTS DUE FOR 2020-21**



APPENDIX B

FEBRUARY 23, 2022

PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2020-21  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

ESTE SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						PRODUCTION							ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$563.00/AF	MAKEUP WATER N/A	TOTAL		
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>											
ABDUL, HARRY AND ANITA	194	136	146	0	0	282	115	136	0	115	0.00	0.00	0.00	0.00		
ABSHIRE, DAVID V.	24	17	2	0	0	19	18	1	0	18	0.00	0.00	0.00	0.00		
AHN REVOCABLE LIVING TRUST	0	0	0	0	0	0	63	0	63	0	0.00	35,469.00	0.00	35,469.00		
AHN REVOCABLE TRUST	28	20	21	0	0	41	15	20	0	15	0.00	0.00	0.00	0.00		
AHN, CHUN SOO AND DAVID	400	280	300	(135)	0	445	0	280	0	0	0.00	0.00	0.00	0.00		
AMERICA UNITED DEVELOPMENT, LLC	500	350	375	0	0	725	5	350	0	5	0.00	0.00	0.00	0.00		
ANDERSON, ROSS C. AND BETTY J.	34	24	26	0	0	50	0	24	0	0	0.00	0.00	0.00	0.00		
AVILA, ANGEL AND EVALIA	573	402	430	0	0	832	237	402	0	237	0.00	0.00	0.00	0.00		
BAR H MUTUAL WATER COMPANY	53	38	40	0	0	78	28	38	0	28	0.00	0.00	0.00	0.00		
BELL, CHARLES H. TRUST DATED MARCH 7, 2014	494	346	371	0	0	717	318	346	0	318	0.00	0.00	0.00	0.00		
BRACHT, WILLIAM F. AND ALEXANDER, ALICIA M.	0	0	24	(24)	0	0	0	0	0	0	0.00	0.00	0.00	0.00		
CASA COLINA FOUNDATION	90	63	68	0	0	131	52	63	0	52	0.00	0.00	0.00	0.00		
CENTER WATER COMPANY	40	28	30	0	0	58	15	28	0	15	0.00	0.00	0.00	0.00		
CHUNG, ET AL.	0	0	0	0	0	0	38	0	38	0	0.00	21,394.00	0.00	21,394.00		
CLUB VIEW PARTNERS	1,276	894	957	(22)	0	1,829	0	894	0	0	0.00	0.00	0.00	0.00		
CROSS, SHARON I.	23	17	18	0	0	35	1	17	0	1	0.00	0.00	0.00	0.00		
CROWN CAMBRIA, LLC	90	63	64	0	0	127	1	63	0	1	0.00	0.00	0.00	0.00		
DACOSTA, DEAN EDWARD	56	40	42	0	0	82	1	40	0	1	0.00	0.00	0.00	0.00		
DAHLQUIST, GEORGE R.	524	367	393	0	0	760	0	367	0	0	0.00	0.00	0.00	0.00		
DESERT DAWN MUTUAL WATER COMPANY	15	11	0	0	0	11	12	0	1	11	0.00	563.00	0.00	563.00		
DESERT GIRLZ LLC	23	17	0	19	0	36	21	15	0	21	0.00	0.00	0.00	0.00		
(FORMERLY: JONES TRUST DATED MARCH 16, 2002)																
DESERT SPRINGS MUTUAL WATER COMPANY	78	55	59	0	0	114	42	55	0	42	0.00	0.00	0.00	0.00		
DOUGLAS, TINA	50	35	0	24	0	59	1	35	0	1	0.00	0.00	0.00	0.00		
(FORMERLY: BRACHT, WILLIAM F. AND ALEXANDER, ALICIA M.)																
GABRYCH, EUGENE	2,201	1,541	1,651	0	0	3,192	0	1,541	0	0	0.00	0.00	0.00	0.00		
GAETA, MIGUEL AND MARIA	1,500	1,050	1,125	0	0	2,175	1	1,050	0	1	0.00	0.00	0.00	0.00		
GAETA, TRINIDAD	512	359	384	0	0	743	284	359	0	284	0.00	0.00	0.00	0.00		
(SEE NOTE 15)																
GARDENA MISSION CHURCH, INC.	0	0	0	0	0	0	1	0	1	0	0.00	563.00	0.00	563.00		
GAYJIKIAN, SAMUEL AND HAZEL	102	72	77	0	0	149	1	72	0	1	0.00	0.00	0.00	0.00		
GOLDEN STATE WATER COMPANY	178	125	126	0	0	251	137	114	0	137	0.00	0.00	0.00	0.00		
GORDON ACRES WATER COMPANY	54	38	41	0	0	79	30	38	0	30	0.00	0.00	0.00	0.00		
GUBLER, HANS	30	21	23	0	0	44	10	21	0	10	0.00	0.00	0.00	0.00		
HARVEY, LISA M.	300	210	225	0	0	435	4	210	0	4	0.00	0.00	0.00	0.00		
HERT, SCOTT	276	194	207	0	0	401	175	194	0	175	0.00	0.00	0.00	0.00		
HI-GRADE MATERIALS COMPANY	442	310	332	0	0	642	160	310	0	160	0.00	0.00	0.00	0.00		
HITCHIN LUCERNE, INC.	16	12	12	0	0	24	13	11	0	13	0.00	0.00	0.00	0.00		
JONES TRUST DATED MARCH 16, 2002	66	47	67	(19)	0	95	0	47	0	0	0.00	0.00	0.00	0.00		



APPENDIX B

FEBRUARY 23, 2022

PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2020-21  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

ESTE SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL
				2019-20	2020-21							WATER	WATER	
				CARRYOVER <sup>3</sup>	FPA <sup>4</sup>									
JUBILEE MUTUAL WATER COMPANY	142	100	40	0	0	140	125	15	0	125	0.00	0.00	0.00	0.00
JUNIPER RIVIERA COUNTY WATER DISTRICT	37	26	0	0	0	26	74	0	48	26	0.00	27,024.00	0.00	27,024.00
KIM, JU SANG	30	21	23	0	0	44	1	21	0	1	0.00	0.00	0.00	0.00
LEE, ANNA K. AND ESHBAN K.	33	24	25	0	0	49	0	24	0	0	0.00	0.00	0.00	0.00
LEE, DOO HWAN	78	55	59	0	0	114	0	55	0	0	0.00	0.00	0.00	0.00
LOPEZ, BALTAZAR	385	270	289	0	0	559	1	270	0	1	0.00	0.00	0.00	0.00
LUA, MICHAEL T. AND DONNA S.	348	244	261	0	0	505	0	244	0	0	0.00	0.00	0.00	0.00
LUCERNE VALLEY MUTUAL WATER COMPANY	54	38	41	0	0	79	26	38	0	26	0.00	0.00	0.00	0.00
LUCERNE VALLEY PARTNERS	1,213	850	910	0	0	1,760	0	850	0	0	0.00	0.00	0.00	0.00
LUCERNE VISTA MUTUAL WATER COMPANY	21	15	15	0	0	30	16	14	0	16	0.00	0.00	0.00	0.00
M.B. LANDSCAPING AND NURSERY, INC.	1,773	1,242	1,330	0	0	2,572	1,327	1,242	0	1,327	0.00	0.00	0.00	0.00
MITSUBISHI CEMENT CORPORATION	1,395	977	1,047	(239)	0	1,785	344	977	0	344	0.00	0.00	0.00	0.00
MONACO INVESTMENT COMPANY	70	49	53	0	0	102	0	49	0	0	0.00	0.00	0.00	0.00
MOSS, LAWRENCE W. AND HELEN J.	43	31	33	0	0	64	28	31	0	28	0.00	0.00	0.00	0.00
NORRIS TRUST, MARY ANN	73	52	55	0	0	107	1	52	0	1	0.00	0.00	0.00	0.00
OASIS WORLD MISSION	0	0	0	0	0	0	66	0	66	0	0.00	37,158.00	0.00	37,158.00
OMYA CALIFORNIA, INC.	23	17	0	0	0	17	43	0	26	17	0.00	14,638.00	0.00	14,638.00
PAK, KAE SOO AND MYONG HUI KANG	247	173	186	(38)	0	321	27	173	0	27	0.00	0.00	0.00	0.00
PETTIGREW, DAN	22	16	17	0	0	33	0	16	0	0	0.00	0.00	0.00	0.00
REED, MIKE	58	41	44	0	0	85	1	41	0	1	0.00	0.00	0.00	0.00
RHEE, ANDREW N.	70	49	53	0	0	102	14	49	0	14	0.00	0.00	0.00	0.00
ROBERTSON'S READY MIX	0	0	0	0	0	0	152	0	152	0	0.00	85,576.00	0.00	85,576.00
ROYAL WAY	200	140	150	0	0	290	61	140	0	61	0.00	0.00	0.00	0.00
S AND E 786 ENTERPRISES, LLC	597	418	448	0	0	866	0	418	0	0	0.00	0.00	0.00	0.00
SABA FAMILY TRUST DATED JULY 24, 2018	1,120	784	840	0	0	1,624	0	784	0	0	0.00	0.00	0.00	0.00
SAN BERNARDINO COUNTY SERVICE AREA 29	40	28	0	0	0	28	61	0	33	28	0.00	18,579.00	0.00	18,579.00
SON'S RANCH	140	98	105	0	0	203	69	98	0	69	0.00	0.00	0.00	0.00
SPECIALTY MINERALS, INC.	52	37	0	8	0	45	48	0	3	45	0.00	1,689.00	0.00	1,689.00
SPILLMAN, JAMES R. AND NANCY J.	23	17	18	0	0	35	5	17	0	5	0.00	0.00	0.00	0.00
WEST END MUTUAL WATER COMPANY	30	21	22	(8)	0	35	15	20	0	15	0.00	0.00	0.00	0.00
WILSHIRE ROAD PARTNERS	692	485	519	0	0	1,004	0	485	0	0	0.00	0.00	0.00	0.00
TOTAL	19,251	13,500	14,219	(434)	0	27,285	4,304	13,264	431	3,873	0.00	242,653.00	0.00	242,653.00



APPENDIX B

FEBRUARY 23, 2022

PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2020-21  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

OESTE SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$563.00/AF	MAKEUP WATER N/A	TOTAL
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>									
AEROCHEM, INC.	660	429	495	0	0	924	5	429	0	5	0.00	0.00	0.00	0.00
CHAMISAL MUTUAL WATER COMPANY	96	63	72	0	0	135	33	63	0	33	0.00	0.00	0.00	0.00
HANDRINOS, NICOLE A.	7	5	6	0	0	11	1	5	0	1	0.00	0.00	0.00	0.00
HETTINGA REVOCABLE TRUST (SEE NOTE 15)	1,302	847	583	0	0	1,430	596	830	0	596	0.00	0.00	0.00	0.00
PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT (SEE NOTE 10)	4,680	3,042	3,510	0	0	6,552	2,920	3,042	0	2,920	0.00	0.00	0.00	0.00
TROEGER FAMILY TRUST, RICHARD H.	112	73	84	0	0	157	5	73	0	5	0.00	0.00	0.00	0.00
TOTAL	6,857	4,459	4,750	0	0	9,209	3,560	4,442	0	3,560	0.00	0.00	0.00	0.00



APPENDIX B

FEBRUARY 23, 2022

PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2020-21  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

ALTO SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$563.00/AF	MAKEUP WATER \$563.00/AF	TOTAL	
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>										
ADELANTO, CITY OF	5,182	2,851	0	0	0	2,851	4,151	0	1,300	2,851	156.26	731,900.00	87,974.38	819,874.38	
ADES, JOHN AND DEVON	37	25	24	(24)	0	25	3	22	0	3	0.16	0.00	90.08	90.08	
AGCON, INC.	384	212	0	0	0	212	234	0	22	212	11.62	12,386.00	6,542.06	18,928.06	
AMERICAN STATES WATER COMPANY	1,000	550	550	(550)	0	550	0	550	0	0	0.00	0.00	0.00	0.00	
APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT	167	92	37	(13)	0	116	97	19	0	97	5.32	0.00	2,995.16	2,995.16	
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	125	69	0	13	0	82	110	0	28	82	4.49	15,764.00	2,527.87	18,291.87	
APPLE VALLEY UNIFIED SCHOOL DISTRICT	0	0	0	0	0	0	39	0	39	0	0.00	21,957.00	0.00	21,957.00	
APPLE VALLEY VIEW MUTUAL WATER COMPANY	36	20	0	0	0	20	26	0	6	20	1.10	3,378.00	619.30	3,997.30	
APPLE VALLEY, TOWN OF	1,082	596	596	(596)	0	596	508	88	0	508	27.84	0.00	15,673.92	15,673.92	
AQUA CAPITAL MANAGEMENT LP-INDUSTRIAL	0	0	0	0	0	0	0								
BASS TRUST, NEWTON T.	514	335	382	(382)	0	335	5	330	0	5	0.27	0.00	152.01	152.01	
BASTIANON REVOCABLE TRUST	77	51	57	(57)	0	51	1	50	0	1	0.05	0.00	28.15	28.15	
BEINSCHROTH FAMILY TRUST	275	179	204	(204)	0	179	2	177	0	2	0.11	0.00	61.93	61.93	
BEINSCHROTH, ANDY ERIC	250	163	187	(187)	0	163	1	162	0	1	0.05	0.00	28.15	28.15	
BOX, GEARY S. AND LAURA	22	15	11	(11)	0	15	5	10	0	5	0.27	0.00	152.01	152.01	
BROWN, BOBBY G. AND VALERIA R.	42	28	31	(31)	0	28	1	27	0	1	0.05	0.00	28.15	28.15	
BROWN, JENNIFER	41	27	26	(26)	0	27	4	23	0	4	0.22	0.00	123.86	123.86	
BRUNEAU, KAREN	10	7	8	(8)	0	7	2	5	0	2	0.11	0.00	61.93	61.93	
BRYANT, IAN	29	19	22	(22)	0	19	0	19	0	0	0.00	0.00	0.00	0.00	
BUNNELL, DICK	24	16	16	(16)	0	16	2	14	0	2	0.11	0.00	61.93	61.93	
CALMAT COMPANY	25	14	10	(10)	0	14	4	10	0	4	0.22	0.00	123.86	123.86	
CALPORTLAND COMPANY - AGRICULTURE	643	418	483	(483)	0	418	0	418	0	0	0.00	0.00	0.00	0.00	
CALPORTLAND COMPANY - ORO GRANDE PLANT	2,809	1,545	584	(584)	0	1,545	935	610	0	935	51.25	0.00	28,853.75	28,853.75	
CDFW - MOJAVE NARROWS REGIONAL PARK	2,107	1,159	0	0	0	1,159	1,940	0	781	1,159	63.52	439,703.00	35,761.76	475,464.76	
CDFW - MOJAVE RIVER FISH HATCHERY (SEE NOTE 11)	20	13	0	0	0	13	20	0	0	0	0.00	0.00	0.00	0.00	
CEMEX, INC.	1,499	825	0	0	0	825	1,233	0	408	825	45.22	229,704.00	25,458.86	255,162.86	
DLW REVOCABLE TRUST	70	46	53	(53)	0	46	0	46	0	0	0.00	0.00	0.00	0.00	
DOLCH LIVING TRUST ROBERT AND JUDITH	90	59	67	(67)	0	59	0	59	0	0	0.00	0.00	0.00	0.00	
DORA LAND, INC.	15	10	12	(12)	0	10	0	10	0	0	0.00	0.00	0.00	0.00	
EAST DESERT LAND COMPANY, LLC (SEE NOTE 12)	0						1,415								
EVENSON, EDWIN H. AND JOYCELAINE C.	70	46	53	0	0	99	1	46	0	1	0.05	0.00	28.15	28.15	
FEDERAL BUREAU OF PRISONS, VICTORVILLE	686	378	0	0	(378)	0	0	0	0	0	0.00	0.00	0.00	0.00	
FINCH, JENIFER	30	20	23	(23)	0	20	0	20	0	0	0.00	0.00	0.00	0.00	
FISCHER REVOCABLE LIVING TRUST	36	24	26	(26)	0	24	1	23	0	1	0.05	0.00	28.15	28.15	
FISHER TRUST, JEROME R.	633	412	475	(475)	0	412	0	412	0	0	0.00	0.00	0.00	0.00	
FITZWATER, R. E. (SEE NOTE 12)	291						1								



## APPENDIX B

FEBRUARY 23, 2022

**PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2020-21  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)**

## ALTO SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						PRODUCTION						ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$563.00/AF	MAKEUP WATER \$563.00/AF	TOTAL	
				2019-20	2020-21										
				CARRYOVER <sup>3</sup>	FPA <sup>4</sup>										
FRAZIER, ET AL.	50	33	38	(38)	0	33	0	33	0	0	0.00	0.00	0.00	0.00	
GOLDEN STATE WATER COMPANY	940	517	0	0	0	517	973	0	456	517	28.34	256,728.00	15,955.42	272,683.42	
GREEN ACRES ESTATES	25	14	14	0	0	28	8	14	0	8	0.44	0.00	247.72	247.72	
GULBRANSON, MERLIN	5	4	4	0	0	8	0	4	0	0	0.00	0.00	0.00	0.00	
HAAS, BRYAN C. AND HINKLE, MARY H.	9	6	7	(7)	0	6	0	6	0	0	0.00	0.00	0.00	0.00	
HALANNA EQUITIES III	19	13	6	(6)	0	13	15	0	2	13	0.71	1,126.00	399.73	1,525.73	
HAMILTON FAMILY TRUST	108	71	65	(65)	0	71	21	50	0	21	1.15	0.00	647.45	647.45	
HELENDALE COMMUNITY SERVICES DISTRICT	4,157	2,287	650	(650)	0	2,287	1,692	595	0	1,692	92.74	0.00	52,212.62	52,212.62	
HELENDALE SCHOOL DISTRICT	18	10	10	0	0	20	1	10	0	1	0.05	0.00	28.15	28.15	
HESPERIA - GOLF COURSE, CITY OF	678	373	0	0	0	373	625	0	252	373	20.44	141,876.00	11,507.72	153,383.72	
HESPERIA VENTURE I, LLC	0	0	0	0	0	0	1	0	1	0	0.00	563.00	0.00	563.00	
HESPERIA WATER DISTRICT	14,171	7,795	0	141	274	8,210	14,942	0	6,732	8,210	449.99	3,790,116.00	253,344.36	4,043,460.36	
HESPERIA, CITY OF	6,736	3,705	3,705	(3,705)	0	3,705	0	3,705	0	0	0.00	0.00	0.00	0.00	
HI-GRADE MATERIALS COMPANY	149	82	60	(60)	0	82	28	54	0	28	1.53	0.00	861.39	861.39	
HOLWAY JEFFREY R AND PATRICIA GAGE	8	6	6	(6)	0	6	0	6	0	0	0.00	0.00	0.00	0.00	
HOLWAY, JEFFREY R	11	8	9	(9)	0	8	0	8	0	0	0.00	0.00	0.00	0.00	
HOLY HEAVENLY LAKE, LLC	6	4	5	(5)	0	4	0	4	0	0	0.00	0.00	0.00	0.00	
HUNT, CONNIE	66	43	50	(50)	0	43	0	43	0	0	0.00	0.00	0.00	0.00	
JAMBOREE HOUSING CORPORATION	0	0	0	42	0	42	46	0	4	42	2.30	2,252.00	1,294.90	3,546.90	
JESS RANCH WATER COMPANY	7,230	3,977	2,593	(2,593)	0	3,977	1,270	2,707	0	1,270	69.61	0.00	39,190.43	39,190.43	
JOHNSON, CARLEAN	23	15	0	0	0	15	19	0	4	15	0.82	2,252.00	461.66	2,713.66	
JOHNSON, RONALD	31	21	24	(24)	0	21	0	21	0	0	0.00	0.00	0.00	0.00	
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.	127	83	82	(82)	0	83	5	78	0	5	0.27	0.00	152.01	152.01	
KANESAKA, KENJI AND YUKARI	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
KEMPER CAMPBELL RANCH	473	308	296	(296)	0	308	69	239	0	69	3.78	0.00	2,128.14	2,128.14	
LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT	658	428	494	(494)	0	428	0	428	0	0	0.00	0.00	0.00	0.00	
LANGLEY, JAMES	5	4	4	(4)	0	4	0	4	0	0	0.00	0.00	0.00	0.00	
LANGLEY, JAMES - INDUSTRIAL	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
LAWSON, ERNEST AND BARBARA	15	10	11	(11)	0	10	1	9	0	1	0.05	0.00	28.15	28.15	
LENHERT, RONALD AND TONI	37	25	28	0	0	53	8	25	0	8	0.44	0.00	247.72	247.72	
LHC ALLIGATOR, LLC	498	324	0	0	(324)	0	0	0	0	0	0.00	0.00	0.00	0.00	
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP. (SEE NOTE 13)	13,610	7,486	1,874	0	0	9,360	8,906	454	0	8,906	488.13	0.00	274,817.19	274,817.19	
LOW, DEAN	199	130	150	(150)	0	130	0	130	0	0	0.00	0.00	0.00	0.00	
LUCKEY 2010 REVOCABLE TRUST	300	195	224	(224)	0	195	1	194	0	1	0.05	0.00	28.15	28.15	
MARIANA RANCHOS COUNTY WATER DISTRICT	280	154	0	0	0	154	203	0	49	154	8.44	27,587.00	4,751.72	32,338.72	
MCKINNEY, PAULA	33	22	25	(25)	0	22	0	22	0	0	0.00	0.00	0.00	0.00	
MLH, LLC	13	9	6	0	0	15	9	6	0	9	0.49	0.00	275.87	275.87	
MOJAVE DESERT LAND TRUST	40	26	30	0	0	56	1	26	0	1	0.05	0.00	28.15	28.15	



## APPENDIX B

FEBRUARY 23, 2022

**PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2020-21  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)**

## ALTO SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$563.00/AF	MAKEUP WATER \$563.00/AF	TOTAL	
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>										
MOJAVE WATER AGENCY (SEE NOTE 14)	0	0	0	0	0	0	15	0	15	0	0.00	8,445.00	0.00	8,445.00	
NAVAJO MUTUAL WATER COMPANY	88	49	49	0	0	98	28	49	0	28	1.53	0.00	861.39	861.39	
NUÑEZ, LUIS SEGUNDO	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
NUNN FAMILY TRUST	36	24	26	(26)	0	24	1	23	0	1	0.05	0.00	28.15	28.15	
ORO GRANDE SCHOOL DISTRICT	107	59	24	0	0	83	75	8	0	75	4.11	0.00	2,313.93	2,313.93	
PAUSTELL, JOAN BEINSCHROTH	152	99	128	(128)	0	99	0	99	0	0	0.00	0.00	0.00	0.00	
PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT	355	196	196	0	0	392	133	196	0	133	7.29	0.00	4,104.27	4,104.27	
PITTMAN REVOCABLE TRUST, DIANA J.	0	0	111	(111)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
POLICH, DONNA	65	43	49	(49)	0	43	0	43	0	0	0.00	0.00	0.00	0.00	
RANCHERITOS MUTUAL WATER COMPANY	169	93	0	0	0	93	118	0	25	93	5.10	14,075.00	2,871.30	16,946.30	
RIM PROPERTIES, A GENERAL PARTNERSHIP	9	6	7	(7)	0	6	0	6	0	0	0.00	0.00	0.00	0.00	
RUE RANCH, INC.	30	20	16	(16)	0	20	1	19	0	1	0.05	0.00	28.15	28.15	
SAN BERNARDINO COUNTY - HIGH DESERT DETENTION CENT	0	0	0	0	0	0	216	0	216	0	0.00	121,608.00	0.00	121,608.00	
SAN BERNARDINO COUNTY SERVICE AREA 42	465	256	198	(198)	0	256	60	196	0	60	3.29	0.00	1,852.27	1,852.27	
SAN BERNARDINO COUNTY SERVICE AREA 64	3,822	2,103	0	0	0	2,103	2,844	0	741	2,103	115.26	417,183.00	64,891.38	482,074.38	
SAN BERNARDINO COUNTY SERVICE AREA 70J	1,015	559	0	0	0	559	1,815	0	1,256	559	30.64	707,128.00	17,250.32	724,378.32	
SCRAY, MICHELLE A. TRUST	15	10	11	(11)	0	10	1	9	0	1	0.05	0.00	28.15	28.15	
SERVICE ROCK PRODUCTS CORPORATION	20	11	11	0	0	22	7	11	0	7	0.38	0.00	213.94	213.94	
SHEEP CREEK WATER COMPANY	0	0	0	0	0	0	36	0	36	0	0.00	20,268.00	0.00	20,268.00	
SILVER LAKES ASSOCIATION	4,987	2,743	242	0	0	2,985	3,227	0	242	2,985	163.61	136,246.00	92,112.43	228,358.43	
SNOWBALL DEVELOPMENT, INC.	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
SPRING VALLEY LAKE ASSOCIATION	3,768	2,073	0	0	0	2,073	2,515	0	442	2,073	113.62	248,846.00	63,968.06	312,814.06	
SPRING VALLEY LAKE COUNTRY CLUB	977	538	46	0	0	584	745	0	161	584	32.01	90,643.00	18,021.63	108,664.63	
STORM, RANDALL	62	41	47	(47)	0	41	0	41	0	0	0.00	0.00	0.00	0.00	
SUDMEIER, GLENN W.	20	13	14	(14)	0	13	1	12	0	1	0.05	0.00	28.15	28.15	
SUMMIT VALLEY RANCH, LLC	57	38	35	(35)	0	38	25	13	0	25	1.37	0.00	771.31	771.31	
THOMPSON LIVING TRUST, JAMES A. AND SULA B.	418	272	311	(311)	0	272	2	270	0	2	0.11	0.00	61.93	61.93	
THOMPSON LIVING TRUST, R.L. AND R.A.	2	2	2	0	0	4	1	2	0	1	0.05	0.00	28.15	28.15	
THRASHER, GARY	373	243	275	(275)	0	243	2	241	0	2	0.11	0.00	61.93	61.93	
THUNDERBIRD COUNTY WATER DISTRICT	126	70	0	0	0	70	122	0	52	70	3.84	29,276.00	2,161.92	31,437.92	
TRANSAMERICA FIN'L SVC - SPEARS, LARRY B. AND ERLINDA	26	17	20	0	0	37	0	17	0	0	0.00	0.00	0.00	0.00	
VANHOOPS HOLDINGS, LP	360	234	269	(269)	0	234	0	234	0	0	0.00	0.00	0.00	0.00	
VICTOR VALLEY COMMUNITY COLLEGE DISTRICT	240	132	0	0	0	132	372	0	240	132	7.23	135,120.00	4,070.49	139,190.49	
VICTOR VALLEY MEMORIAL PARK	0	0	0	0	0	0	59	0	59	0	0.00	33,217.00	0.00	33,217.00	
VICTORVILLE WATER DISTRICT, ID#1 (SEE NOTE 13)	23,020	12,661	0	0	378	13,039	22,353	0	9,314	13,039	714.66	5,243,782.00	402,353.56	5,646,135.56	
VICTORVILLE WATER DISTRICT, ID#2 (SEE NOTE 13)	2,932	1,613	0	0	0	1,613	3,492	0	1,879	1,613	88.41	1,057,877.00	49,774.83	1,107,651.83	



APPENDIX B

FEBRUARY 23, 2022

PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2020-21  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

ALTO SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED <sup>7</sup> FPA	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$563.00/AF	MAKEUP WATER \$563.00/AF	TOTAL	
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>										
VOGLER, ALBERT H.	62	41	46	(46)	0	41	0	41	0	0	0.00	0.00	0.00	0.00	
WAGNER LIVING TRUST	1,224	796	918	(918)	0	796	0	796	0	0	0.00	0.00	0.00	0.00	
WAKULA FAMILY TRUST	11	8	8	(8)	0	8	1	7	0	1	0.05	0.00	28.15	28.15	
WARD, KEN AND BARBARA	65	43	35	(35)	0	43	12	31	0	12	0.66	0.00	371.58	371.58	
WEST, HOWARD AND SUZY	72	47	54	(54)	0	47	0	47	0	0	0.00	0.00	0.00	0.00	
WEST, JIMMIE E.	10	7	7	(7)	0	7	1	6	0	1	0.05	0.00	28.15	28.15	
WESTERN WATER COMPANY	15	10	12	0	0	22	0	10	0	0	0.00	0.00	0.00	0.00	
WESTLAND INDUSTRIES, INC.	54	30	30	0	0	60	21	30	0	21	1.15	0.00	647.45	647.45	
WIENER, MELVIN AND MARIAM S.	30	17	17	0	0	34	0	17	0	0	0.00	0.00	0.00	0.00	
WOOD, MICHAEL AND DENISE	0	0	0	0	0	0	5	0	5	0	0.00	2,815.00	0.00	2,815.00	
TOTAL	114,308	63,629	17,621	(14,733)	(50)	66,467	77,891	14,499	24,767	51,688	2,832.89	13,943,821.00	1,594,917.04	15,538,738.04	



APPENDIX B

FEBRUARY 23, 2022

PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2020-21  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

CENTRO SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$563.00/AF	MAKEUP WATER N/A	TOTAL	
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>										
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	29	21	22	(18)	0	25	0	21	0	0	0.00	0.00	0.00	0.00	
AQUA CAPITAL MANAGEMENT LP	0	0	977	(977)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	120	84	90	(90)	(50)	34	0	34	0	0	0.00	0.00	0.00	0.00	
BAR-LEN MUTUAL WATER COMPANY	48	34	36	0	0	70	29	34	0	29	0.00	0.00	0.00	0.00	
BARSTOW COMMUNITY DEVELOPERS, LLC	0	0	0	0	0	0	2	0	2	0	0.00	1,126.00	0.00	1,126.00	
BEST, BYRON L.	21	15	16	0	0	31	0	15	0	0	0.00	0.00	0.00	0.00	
BROMMER HOUSE TRUST	361	253	271	(189)	0	335	0	253	0	0	0.00	0.00	0.00	0.00	
CALMAT COMPANY	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
CHAFAR, LARRY R. AND DELINDA C.	46	33	35	0	0	68	1	33	0	1	0.00	0.00	0.00	0.00	
CHOI, YONG IL AND JOUNG AE	38	27	29	0	0	56	0	27	0	0	0.00	0.00	0.00	0.00	
CHONG, JOAN	10	7	16	0	0	23	42	0	19	23	0.00	10,697.00	0.00	10,697.00	
CHRISTISON, JOEL	75	53	57	(57)	0	53	0	53	0	0	0.00	0.00	0.00	0.00	
CONTRATTO, ERSULA	151	106	113	(113)	0	106	1	105	0	1	0.00	0.00	0.00	0.00	
DARR, JAMES S.	408	286	306	0	0	592	17	286	0	17	0.00	0.00	0.00	0.00	
DE VRIES, NEIL AND MARY FAMILY TRUST	3,800	2,660	2,850	0	0	5,510	1	2,660	0	1	0.00	0.00	0.00	0.00	
DORRANCE, DAVID W. AND TAMELA L.	19	14	0	0	(14)	0	0	0	0	0	0.00	0.00	0.00	0.00	
EYGNOR, ROBERT E.	50	35	38	(38)	0	35	0	35	0	0	0.00	0.00	0.00	0.00	
FEDERAL NATIONAL MORTGAGE ASSOCIATION - FANNIE MA	30	21	23	0	0	44	0	21	0	0	0.00	0.00	0.00	0.00	
FOURFREE USA, INC.	42	30	24	0	0	54	0	30	0	0	0.00	0.00	0.00	0.00	
FRATES, D. COLE	13	10	0	0	(10)	0	0	0	0	0	0.00	0.00	0.00	0.00	
FRIEND, JOSEPH AND DEBORAH	60	42	45	0	0	87	11	42	0	11	0.00	0.00	0.00	0.00	
GABRYCH, EUGENE	132	93	99	(99)	0	93	0	93	0	0	0.00	0.00	0.00	0.00	
GAINES FAMILY TRUST, JACK AND MARY	92	65	69	(69)	0	65	0	65	0	0	0.00	0.00	0.00	0.00	
GOLDEN STATE WATER COMPANY	14,407	10,085	10,806	(2,524)	0	18,367	5,999	10,085	0	5,999	0.00	0.00	0.00	0.00	
GRILL, NICHOLAS P. AND MILLIE D. (SEE NOTE 15)	0	0	0	0	0	0	118	0	118	0	0.00	66,434.00	0.00	66,434.00	
GUTIERREZ, JOSE AND GLORIA	130	91	98	0	0	189	40	91	0	40	0.00	0.00	0.00	0.00	
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH	152	107	54	(54)	(106)	1	0	1	0	0	0.00	0.00	0.00	0.00	
HARMSER FAMILY TRUST	722	506	542	0	0	1,048	364	506	0	364	0.00	0.00	0.00	0.00	
HARPER LAKE COMPANY VIII	1,433	1,004	1,075	0	0	2,079	816	1,004	0	816	0.00	0.00	0.00	0.00	
HASKINS, JAMES J.	30	21	3	0	0	24	0	21	0	0	0.00	0.00	0.00	0.00	
HELENDALE COMMUNITY SERVICES DISTRICT	219	154	52	(52)	(82)	72	0	72	0	0	0.00	0.00	0.00	0.00	
HENSLEY, MARK P.	27	19	21	0	0	40	19	19	0	19	0.00	0.00	0.00	0.00	
HI DESERT MUTUAL WATER COMPANY	34	24	26	0	0	50	18	24	0	18	0.00	0.00	0.00	0.00	
HIGH DESERT ASSOCIATES, INC.	513	360	385	0	0	745	0	360	0	0	0.00	0.00	0.00	0.00	
HI-GRADE MATERIALS COMPANY	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
HILL FAMILY TRUST AND HILL'S RANCH, INC.	2,335	1,635	1,752	(842)	0	2,545	39	1,635	0	39	0.00	0.00	0.00	0.00	
HOWARD, ET AL.	43	31	33	0	0	64	0	31	0	0	0.00	0.00	0.00	0.00	
HUERTA, HECTOR	656	460	492	800	0	1,752	842	460	0	842	0.00	0.00	0.00	0.00	



APPENDIX B

FEBRUARY 23, 2022

PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2020-21  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

CENTRO SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>							WATER	WATER	
												\$563.00/AF	N/A	
JOHNSON, PAUL (FORMERLY: VALENTI, VITO)	17	12	0	13	0	25	0	12	0	0	0.00	0.00	0.00	0.00
JONES, JOETTE	22	16	17	0	0	33	0	16	0	0	0.00	0.00	0.00	0.00
JORDAN FAMILY TRUST	460	322	341	(341)	0	322	4	318	0	4	0.00	0.00	0.00	0.00
KASNER FAMILY LIMITED PARTNERSHIP	421	295	316	(45)	0	566	0	295	0	0	0.00	0.00	0.00	0.00
KIM, JIN S. AND HYUN H.	190	133	143	(143)	0	133	0	133	0	0	0.00	0.00	0.00	0.00
LEE, ET AL., SEPOONG AND WOO POONG	77	54	58	0	0	112	0	54	0	0	0.00	0.00	0.00	0.00
LEYERLY, GENEVA (SEE NOTE 12)	65						3							
MCCOLLUM, CHARLES L.	115	81	87	0	0	168	0	81	0	0	0.00	0.00	0.00	0.00
MEAD FAMILY TRUST	115	81	87	0	0	168	1	81	0	1	0.00	0.00	0.00	0.00
MOJAVE SOLAR, LLC	5,239	3,668	3,930	0	0	7,598	1,555	3,668	0	1,555	0.00	0.00	0.00	0.00
MOST FAMILY TRUST	56	40	42	0	0	82	0	40	0	0	0.00	0.00	0.00	0.00
ODESSA WATER DISTRICT	299	210	225	0	0	435	0	210	0	0	0.00	0.00	0.00	0.00
OHAI, REYNOLDS AND DOROTHY	137	96	103	0	0	199	1	96	0	1	0.00	0.00	0.00	0.00
OSTERKAMP, GEROLD (SEE NOTE 12)	260						125							
PACIFIC GAS AND ELECTRIC COMPANY	6,580	4,606	3,356	(200)	0	7,762	2,803	4,606	0	2,803	0.00	0.00	0.00	0.00
RIOS, MARIANO V.	8	6	6	0	0	12	3	6	0	3	0.00	0.00	0.00	0.00
RIVERO, FIDEL V.	20	14	15	0	0	29	1	14	0	1	0.00	0.00	0.00	0.00
RUISCH TRUST, DALE W. AND NELLIE H.	650	455	284	200	0	939	713	226	0	713	0.00	0.00	0.00	0.00
RUISCH, ET AL. (SEE NOTE 12)	862						366							
SERVICE ROCK PRODUCTS CORPORATION	766	537	575	0	0	1,112	19	537	0	19	0.00	0.00	0.00	0.00
SEXTON, RODNEY A. AND SEXTON, DEREK R.	232	163	174	(143)	0	194	0	163	0	0	0.00	0.00	0.00	0.00
SOPPELAND REVOCABLE TRUST	478	335	357	(349)	0	343	2	335	0	2	0.00	0.00	0.00	0.00
SYNAGRO-WWT, INC. (DBA NURSURY PRODUCTS, LLC)	0	0	0	0	0	0	4	0	4	0	0.00	2,252.00	0.00	2,252.00
TALLAKSON FAMILY REVOCABLE TRUST	17	12	13	0	0	25	6	12	0	6	0.00	0.00	0.00	0.00
VALENTI, VITO	0	0	13	(13)	0	0	0	0	0	0	0.00	0.00	0.00	0.00
VAN DAM REVOCABLE TRUST, E AND S	722	506	542	(280)	0	768	139	506	0	139	0.00	0.00	0.00	0.00
VAN LEEUWEN, JOHN	1,465	1,026	1,099	200	0	2,325	945	1,026	0	945	0.00	0.00	0.00	0.00
VERNOLA TRUST, PAT AND MARY ANN	3,116	2,182	2,337	1,600	0	6,119	3,082	2,182	0	3,082	0.00	0.00	0.00	0.00
VICTORVILLE WATER DISTRICT, ID#1	796	558	0	0	(558)	0	0	0	0	0	0.00	0.00	0.00	0.00
WERNER, ANDREW J.	18	13	0	0	(13)	0	0	0	0	0	0.00	0.00	0.00	0.00
WESTERN DEVELOPMENT AND STORAGE, LLC	6	5	0	0	(5)	0	0	0	0	0	0.00	0.00	0.00	0.00
WITHEY, CONNIE	22	16	17	0	0	33	1	16	0	1	0.00	0.00	0.00	0.00
TOTAL	49,477	33,828	34,592	(3,823)	(838)	63,759	18,132	32,749	143	17,495	0.00	80,509.00	0.00	80,509.00



APPENDIX B

FEBRUARY 23, 2022

PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2020-21  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

BAJA SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$563.00/AF	MAKEUP WATER N/A	TOTAL	
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>										

35250 YERMO, LLC	24	6	8	0	0	14	10	4	0	10	0.00	0.00	0.00	0.00
AHN, CHUN SOO AND WHA JA	50	13	15	0	0	28	1	13	0	1	0.00	0.00	0.00	0.00
AKE, CHARLES J. AND MARJORIE M.	23	6	7	0	0	13	0	6	0	0	0.00	0.00	0.00	0.00
ARCHIBEK, ERIC	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	80	20	10	26	0	56	54	2	0	54	0.00	0.00	0.00	0.00
BAILEY 2007 LIVING REVOCABLE TRUST, SHERÉ R.	27	7	9	0	0	16	0	7	0	0	0.00	0.00	0.00	0.00
BARBER, JAMES B.	167	42	51	0	0	93	36	42	0	36	0.00	0.00	0.00	0.00
BARON, SUSAN AND PALMER, CURTIS	26	7	8	0	0	15	0	7	0	0	0.00	0.00	0.00	0.00
BORJA, LEONIL T. AND TITAL L.	20	5	6	0	0	11	0	5	0	0	0.00	0.00	0.00	0.00
BREDELIS, RONALD C. AND JEAN	64	16	11	(11)	0	16	10	6	0	10	0.00	0.00	0.00	0.00
BUBIER, DIANE GAIL	54	14	17	(17)	0	14	23	0	9	14	0.00	5,067.00	0.00	5,067.00
BUDGET FINANCE COMPANY	32	8	10	0	0	18	0	8	0	0	0.00	0.00	0.00	0.00
BUSH, KEVIN	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
CALICO LAKES HOMEOWNERS ASSOCIATION	1,296	324	389	(15)	0	698	251	324	0	251	0.00	0.00	0.00	0.00
CALIFORNIA DEPARTMENT OF TRANSPORTATION	71	18	22	0	0	40	9	18	0	9	0.00	0.00	0.00	0.00
CALMAT COMPANY	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
CAMANGA, TONY AND MARIETTA	47	12	15	0	0	27	1	12	0	1	0.00	0.00	0.00	0.00
CAMPBELL, M. A. AND DIANNE	22	6	7	0	0	13	0	6	0	0	0.00	0.00	0.00	0.00
CARLTON, SUSAN	155	39	47	0	0	86	1	39	0	1	0.00	0.00	0.00	0.00
CDFW - CAMP CADY	921	231	277	0	0	508	69	231	0	69	0.00	0.00	0.00	0.00
CHEYENNE LAKE, INC.	665	167	200	37	23	427	201	165	0	201	0.00	0.00	0.00	0.00
CLARK, ARTHUR	50	13	15	0	0	28	0	13	0	0	0.00	0.00	0.00	0.00
CLARK, GARY AND BETH A.	0	0	45	0	0	45	408	0	363	45	0.00	204,369.00	0.00	204,369.00
CONNER, WILLIAM H.	25	7	8	0	0	15	0	7	0	0	0.00	0.00	0.00	0.00
CORBRIDGE, LINDA S.	32	8	10	0	0	18	4	8	0	4	0.00	0.00	0.00	0.00
CROSS, FRANCIS AND BEVERLY	40	10	12	0	0	22	0	10	0	0	0.00	0.00	0.00	0.00
CRYSTAL LAKES PROPERTY OWNERS ASSOCIATION	844	211	254	129	0	594	422	73	0	422	0.00	0.00	0.00	0.00
DAGGETT COMMUNITY SERVICES DISTRICT	504	126	0	0	0	126	237	0	111	126	0.00	62,493.00	0.00	62,493.00
DAGGETT LAND HOLDINGS LLC	0	0	0	0	0	0	44	0	44	0	0.00	24,772.00	0.00	24,772.00
DAGGETT RANCH, LLC	76	19	7	0	0	26	30	0	4	26	0.00	2,252.00	0.00	2,252.00
DAGGETT SOLAR POWER 3 LLC (FORMERLY: VANDER DUSSEN TRUST, AGNES AND EDWARD)	179	45	0	0	0	45	0	45	0	0	0.00	0.00	0.00	0.00
DE JONG FAMILY TRUST	3,131	783	534	457	0	1,774	1,604	170	0	1,604	0.00	0.00	0.00	0.00
DENNISON, QUENTIN D. - CLEGG, FRIZELL AND JOKE	29	8	9	0	0	17	0	8	0	0	0.00	0.00	0.00	0.00
DONALDSON, JERRY AND BEVERLY	90	23	27	0	0	50	1	23	0	1	0.00	0.00	0.00	0.00
DOWELL, LEONARD	23	6	7	0	0	13	0	6	0	0	0.00	0.00	0.00	0.00
EVERT FAMILY TRUST	173	44	48	(18)	0	74	35	39	0	35	0.00	0.00	0.00	0.00
FEJFAR, MONICA KAY	20	5	6	0	0	11	0	5	0	0	0.00	0.00	0.00	0.00
FERNANDEZ, ARTURO	76	19	23	0	0	42	1	19	0	1	0.00	0.00	0.00	0.00



## APPENDIX B

FEBRUARY 23, 2022

**PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2020-21  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)**

## BAJA SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>							WATER	WATER		
												\$563.00/AF	N/A		
FERRO, DENNIS AND NORMA	32	8	10	0	0	18	0	8	0	0	0.00	0.00	0.00	0.00	
FIRST CPA LLC	57	15	16	0	0	31	21	10	0	21	0.00	0.00	0.00	0.00	
FOOTHILL ESTATES MHP, LLC	54	14	0	0	0	14	11	3	0	11	0.00	0.00	0.00	0.00	
FUNDAMENTAL CHRISTIAN ENDEAVORS, INC.	425	107	128	0	0	235	114	107	0	114	0.00	0.00	0.00	0.00	
GABRYCH, EUGENE	1,637	410	270	0	0	680	516	164	0	516	0.00	0.00	0.00	0.00	
GARCIA, DANIEL	23	6	7	0	0	13	1	6	0	1	0.00	0.00	0.00	0.00	
GARG, OM P.	483	121	145	(145)	0	121	0	121	0	0	0.00	0.00	0.00	0.00	
GENON CALIFORNIA SOUTH, LP (SEE NOTE 16)	0	0	139	0	600	739	479	260	0	479	0.00	0.00	0.00	0.00	
GRAY, GEORGE F. AND BETTY E.	94	24	29	(29)	0	24	0	24	0	0	0.00	0.00	0.00	0.00	
HACKBARTH, EDWARD E.	1,517	380	171	432	0	983	1,050	0	67	983	0.00	37,721.00	0.00	37,721.00	
HANSON AGGREGATES WRP, INC.	31	8	10	0	0	18	0	8	0	0	0.00	0.00	0.00	0.00	
HARESON, NICHOLAS AND MARY	8	2	3	0	0	5	0	2	0	0	0.00	0.00	0.00	0.00	
HARTER, JOE AND SUE	5,134	1,284	498	(100)	0	1,682	783	899	0	783	0.00	0.00	0.00	0.00	
HASS, PAULINE L.	35	9	10	(10)	0	9	1	8	0	1	0.00	0.00	0.00	0.00	
HENDLEY, RICK AND BARBARA	48	12	15	0	0	27	11	12	0	11	0.00	0.00	0.00	0.00	
HIETT, HARRY L.	29	8	8	(7)	0	9	1	8	0	1	0.00	0.00	0.00	0.00	
HILARIDES 1998 REVOCABLE FAMILY TRUST	303	76	89	(89)	0	76	2	74	0	2	0.00	0.00	0.00	0.00	
HO, TING-SENG AND AH-GIT	300	75	90	(90)	0	75	0	75	0	0	0.00	0.00	0.00	0.00	
HOLLISTER, ROBERT H. AND RUTH M.	44	11	14	0	0	25	0	11	0	0	0.00	0.00	0.00	0.00	
HONG, PAUL B. AND MAY	85	22	26	0	0	48	0	22	0	0	0.00	0.00	0.00	0.00	
HOOD FAMILY TRUST	41	11	13	0	0	24	11	11	0	11	0.00	0.00	0.00	0.00	
HORTON FAMILY TRUST	441	111	0	14	0	125	89	0	11	89	0.00	6,193.00	0.00	6,193.00	
HUBBARD, ESTER AND MIZUNO, ARLEAN	28	7	9	0	0	16	1	7	0	1	0.00	0.00	0.00	0.00	
HUNT, RALPH M. AND LILLIAN F.	51	13	16	0	0	29	2	13	0	2	0.00	0.00	0.00	0.00	
HYATT, JAMES AND BRENDA	210	53	57	(57)	0	53	16	37	0	16	0.00	0.00	0.00	0.00	
IM, NICHOLAS NAK-KYUN	397	100	120	0	0	220	84	100	0	84	0.00	0.00	0.00	0.00	
IRVIN, BERTRAND W.	29	8	9	5	0	22	10	8	0	10	0.00	0.00	0.00	0.00	
ITALMOOD INC., ET. AL.	190	48	57	0	0	105	41	48	0	41	0.00	0.00	0.00	0.00	
JACKS, JAMES F.	10	3	3	0	0	6	1	3	0	1	0.00	0.00	0.00	0.00	
JACKSON, JAMES N. JR REVOCABLE LIVING TRUST	54	14	17	(17)	0	14	0	14	0	0	0.00	0.00	0.00	0.00	
JACKSON, RAY REVOCABLE TRUST NO. 45801	1	1	1	0	0	2	0	1	0	0	0.00	0.00	0.00	0.00	
KARIMI, HOOSHANG	70	18	21	0	0	39	1	18	0	1	0.00	0.00	0.00	0.00	
KASNER FAMILY LIMITED PARTNERSHIP	843	211	0	0	0	211	52	159	0	52	0.00	0.00	0.00	0.00	
KASNER, ROBERT	5,613	1,404	0	0	(103)	1,301	1,106	195	0	1,106	0.00	0.00	0.00	0.00	
KATCHER, AUGUST M. AND MARCELINE	23	6	7	0	0	13	1	6	0	1	0.00	0.00	0.00	0.00	
KEMP, ROBERT AND ROSE	32	8	10	0	0	18	0	8	0	0	0.00	0.00	0.00	0.00	
KIM, JOON HO AND MAL BOON REVOCABLE TRUST	764	191	230	(59)	0	362	171	191	0	171	0.00	0.00	0.00	0.00	
KIM, SEON JA	50	13	15	0	0	28	7	13	0	7	0.00	0.00	0.00	0.00	



## APPENDIX B

FEBRUARY 23, 2022

**PRODUCER REPLACEMENT WATER  
AND  
MAKEUP WATER OBLIGATIONS  
AND  
ASSESSMENTS DUE FOR 2020-21  
(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)**

## BAJA SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						PRODUCTION							ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$563.00/AF	MAKEUP WATER N/A	TOTAL		
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>											
KOEGLER, RONALD R. AND CAROLYN V.	0	0	7	(7)	0	0	0	0	0	0	0.00	0.00	0.00	0.00		
KOERING, RICHARD AND KOERING, DONNA	20	5	6	0	0	11	2	5	0	2	0.00	0.00	0.00	0.00		
KOSHAREK, JOHN AND JOANN	54	14	17	0	0	31	16	14	0	16	0.00	0.00	0.00	0.00		
LAKE JODIE PROPERTY OWNERS ASSOCIATION	454	114	44	130	0	288	306	0	56	288	0.00	31,528.00	0.00	31,528.00		
LAKE WAIKIKI	98	25	30	0	0	55	0	25	0	0	0.00	0.00	0.00	0.00		
LAKE WAINANI OWNERS ASSOCIATION	1,725	432	469	(205)	300	996	226	732	0	226	0.00	0.00	0.00	0.00		
LAM, PHILLIP	105	27	32	0	0	59	6	27	0	6	0.00	0.00	0.00	0.00		
LANGLEY, MICHAEL R. AND SHARON	20	5	2	0	0	7	4	3	0	4	0.00	0.00	0.00	0.00		
LAVANH, ET AL.	24	6	8	0	0	14	2	6	0	2	0.00	0.00	0.00	0.00		
LAWRENCE, WILLIAM W.	45	12	14	0	0	26	1	12	0	1	0.00	0.00	0.00	0.00		
LEE, VIN JANG T.	630	158	189	0	0	347	0	158	0	0	0.00	0.00	0.00	0.00		
LEM, HOY	32	8	10	0	0	18	0	8	0	0	0.00	0.00	0.00	0.00		
LIANG, YUAN - I AND TZU - MEI CHEN	200	50	60	(60)	0	50	0	50	0	0	0.00	0.00	0.00	0.00		
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.	453	114	136	0	0	250	110	114	0	110	0.00	0.00	0.00	0.00		
LIN, KUANG JUNG AND CHUNG, DER-BING	451	113	136	(136)	(113)	0	0	0	0	0	0.00	0.00	0.00	0.00		
LO, ET AL.	59	15	0	0	0	15	37	0	22	15	0.00	12,386.00	0.00	12,386.00		
M BIRD CONSTRUCTION	41	11	13	0	0	24	1	11	0	1	0.00	0.00	0.00	0.00		
MAHJOUBI, AFSAR S.	63	16	19	0	0	35	0	16	0	0	0.00	0.00	0.00	0.00		
MALONEY, JANICE	36	9	11	0	0	20	0	9	0	0	0.00	0.00	0.00	0.00		
MANNING, SHARON S.	63	16	11	0	0	27	8	16	0	8	0.00	0.00	0.00	0.00		
MARCROFT, JAMES A. AND JOAN	38	10	0	0	0	10	10	0	0	10	0.00	0.00	0.00	0.00		
MARSHALL, CHARLES	20	5	6	0	0	11	0	5	0	0	0.00	0.00	0.00	0.00		
MARTIN, MICHAEL D. AND ARLENE D.	63	16	5	32	0	53	37	16	0	37	0.00	0.00	0.00	0.00		
MILBRAT, IRVING H.	73	19	14	0	0	33	25	8	0	25	0.00	0.00	0.00	0.00		
MILLER LIVING TRUST	18	5	6	0	0	11	0	5	0	0	0.00	0.00	0.00	0.00		
MIZRAHIE, ET AL.	145	37	44	(44)	0	37	0	37	0	0	0.00	0.00	0.00	0.00		
MOJAVE WATER AGENCY	7,194	1,799	1,559	0	(600)	2,758	0	1,199	0	0	0.00	0.00	0.00	0.00		
MORRIS TRUST, JULIA V.	304	76	91	(91)	0	76	1	75	0	1	0.00	0.00	0.00	0.00		
MULLIGAN, ROBERT AND INEZ	35	9	11	0	0	20	0	9	0	0	0.00	0.00	0.00	0.00		
MURPHY, JEAN	24	6	7	0	0	13	4	6	0	4	0.00	0.00	0.00	0.00		
MUSIC, ZAJO	15	4	5	0	0	9	16	0	7	9	0.00	3,941.00	0.00	3,941.00		
NEW SPRINGS LIMITED PARTNERSHIP	2,329	583	699	(699)	(100)	483	0	483	0	0	0.00	0.00	0.00	0.00		
NEWBERRY COMMUNITY SERVICES DISTRICT	23	6	0	0	0	6	6	0	0	6	0.00	0.00	0.00	0.00		
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	1	1	1	(1)	(1)	0	0	0	0	0	0.00	0.00	0.00	0.00		
NSSLC, INC.	109	28	33	64	0	125	65	28	0	65	0.00	0.00	0.00	0.00		
O. F. D. L., INC.	443	111	133	81	23	348	151	133	0	151	0.00	0.00	0.00	0.00		
P AND H ENGINEERING AND DEVELOPMENT CORPORATION	667	167	201	0	0	368	0	167	0	0	0.00	0.00	0.00	0.00		
PATINO, JOSÉ	22	6	7	0	0	13	5	6	0	5	0.00	0.00	0.00	0.00		
PEARCE, CRAIG L.	150	38	0	0	0	38	3	35	0	3	0.00	0.00	0.00	0.00		



APPENDIX B

FEBRUARY 23, 2022

PRODUCER REPLACEMENT WATER  
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BAJA SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)								
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	PRODUCTION SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$563.00/AF	MAKEUP WATER N/A	TOTAL	
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>										

PERKO, BERT K.	132	33	40	0	0	73	8	33	0	8	0.00	0.00	0.00	0.00
POLAND, JOHN R. AND KATHLEEN A.	92	23	28	0	0	51	1	23	0	1	0.00	0.00	0.00	0.00
PORTER, TIMOTHY M.	30	8	9	0	0	17	0	8	0	0	0.00	0.00	0.00	0.00
PRECISION INVESTMENTS SERVICES, LLC	845	212	222	0	0	434	207	212	0	207	0.00	0.00	0.00	0.00
PRICE, DONALD AND RUTH	42	11	13	0	0	24	1	11	0	1	0.00	0.00	0.00	0.00
PRUETT, ANDREA	36	9	11	0	0	20	0	9	0	0	0.00	0.00	0.00	0.00
QUAKENBUSH, SAMUEL R.	19	5	6	0	0	11	1	5	0	1	0.00	0.00	0.00	0.00
QUIROS, FRANCISCO J. AND HERRMANN, RONALD	38	10	11	25	0	46	37	9	0	37	0.00	0.00	0.00	0.00
RICE, HENRY C. AND DIANA	24	6	8	0	0	14	0	6	0	0	0.00	0.00	0.00	0.00
RIZVI, S.R ALI	27	7	9	0	0	16	0	7	0	0	0.00	0.00	0.00	0.00
ROSSI, JAMES L. AND NAOMI I.	614	154	0	0	0	154	240	0	86	154	0.00	48,418.00	0.00	48,418.00
S AND B BROTHERS, LLC	221	56	32	0	0	88	64	0	16	64	0.00	9,008.00	0.00	9,008.00
SAGABEAN-BARKER, KANOELOKELANI L.	34	9	7	0	0	16	14	2	0	14	0.00	0.00	0.00	0.00
SAMPLES, BERNARD D. AND JANICE E.	43	11	13	0	0	24	11	11	0	11	0.00	0.00	0.00	0.00
SAMRA, JAGTAR S.	30	8	9	0	0	17	2	8	0	2	0.00	0.00	0.00	0.00
SAN BERNARDINO CO BARSTOW - DAGGETT AIRPORT	168	42	51	0	0	93	13	42	0	13	0.00	0.00	0.00	0.00
SERVICE ROCK PRODUCTS CORPORATION	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
SHENG, JEN	33	9	10	0	0	19	1	9	0	1	0.00	0.00	0.00	0.00
SHEPPARD, THOMAS AND GLORIA	217	55	66	0	0	121	11	55	0	11	0.00	0.00	0.00	0.00
SHORT, JEROME E. (SEE NOTE 17)	30	8	0	0	0	8	13	0	5	8	0.00	2,815.00	0.00	2,815.00
SINGH, ET AL.	31	8	10	0	0	18	12	6	0	12	0.00	0.00	0.00	0.00
SMITH, DENISE DBA AMEREQUINE BEAUTY, INC	0	0	0	0	0	0	37	0	37	0	0.00	20,831.00	0.00	20,831.00
SMITH, PORTER AND ANITA	25	7	8	0	0	15	0	7	0	0	0.00	0.00	0.00	0.00
SOUTHERN CALIFORNIA EDISON COMPANY	600	150	180	0	0	330	0	150	0	0	0.00	0.00	0.00	0.00
SOUTHERN CALIFORNIA GAS COMPANY	98	25	30	0	0	55	14	25	0	14	0.00	0.00	0.00	0.00
SPERRY, WESLEY	4	1	2	0	0	3	0	1	0	0	0.00	0.00	0.00	0.00
ST. ANTONY COPTIC ORTHODOX MONASTERY	130	33	39	170	0	242	173	33	0	173	0.00	0.00	0.00	0.00
STARKE, GEORGE A. AND JAYNE E.	23	6	7	0	0	13	0	6	0	0	0.00	0.00	0.00	0.00
SUNDOWN LAKES, INC.	523	131	157	98	22	408	168	143	0	168	0.00	0.00	0.00	0.00
SUNRAY LAND COMPANY, LLC	63	16	19	0	0	35	0	16	0	0	0.00	0.00	0.00	0.00
SZYNKOWSKI, RUTH J.	29	8	9	0	0	17	2	8	0	2	0.00	0.00	0.00	0.00
TAPIE, RAYMOND L.	18	5	6	0	0	11	1	5	0	1	0.00	0.00	0.00	0.00
TEISAN, JERRY	96	24	29	0	0	53	0	24	0	0	0.00	0.00	0.00	0.00
THAYER, SHARON	97	25	24	0	0	49	31	10	0	31	0.00	0.00	0.00	0.00
THOMAS, STEPHEN AND LORI	49	13	15	0	0	28	8	13	0	8	0.00	0.00	0.00	0.00
TRIPLE H PARTNERSHIP	218	55	66	0	0	121	77	44	0	77	0.00	0.00	0.00	0.00
TURNER, TERRY	30	8	9	0	0	17	1	8	0	1	0.00	0.00	0.00	0.00
UNION PACIFIC RAILROAD COMPANY	249	63	75	0	0	138	15	63	0	15	0.00	0.00	0.00	0.00



APPENDIX B

FEBRUARY 23, 2022

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BAJA SUBAREA

PRODUCER	2020-21 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$563.00/AF	MAKEUP WATER N/A	TOTAL
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>									
VACA, ANDY AND TERESITA S.	20	5	6	0	0	11	6	5	0	6	0.00	0.00	0.00	0.00
VAN BASTELAAR, ALPHONSE	78	20	0	0	0	20	74	0	54	20	0.00	30,402.00	0.00	30,402.00
VAN DAM FAMILY TRUST, GLEN AND JENNIFER	8,128	2,032	559	(406)	(197)	1,988	998	990	0	998	0.00	0.00	0.00	0.00
VAN LEEUWEN, JOHN	2,018	505	606	0	100	1,211	752	459	0	752	0.00	0.00	0.00	0.00
VANDER DUSSEN TRUST, AGNES AND EDWARD	1,613	404	460	(460)	0	404	0	404	0	0	0.00	0.00	0.00	0.00
WANG, STEVEN	10	3	3	0	0	6	0	3	0	0	0.00	0.00	0.00	0.00
WARD, RAYMOND	105	27	0	89	0	116	37	27	0	37	0.00	0.00	0.00	0.00
WEEMS, LIZZIE	53	14	16	0	0	30	0	14	0	0	0.00	0.00	0.00	0.00
WEERAISINGHE, MAITHRI N.	15	4	5	0	0	9	1	4	0	1	0.00	0.00	0.00	0.00
WESTERN HORIZON ASSOCIATES, INC.	1,363	341	0	0	0	341	480	0	139	341	0.00	78,257.00	0.00	78,257.00
WET SET, INC.	547	137	165	2	23	327	134	129	0	134	0.00	0.00	0.00	0.00
WITTE, E. DANIEL AND MARCIA	27	7	9	0	0	16	1	7	0	1	0.00	0.00	0.00	0.00
WLSR, INC.	471	118	142	59	23	342	133	134	0	133	0.00	0.00	0.00	0.00
WORSEY, JOSEPH A. AND REVAE	29	8	9	0	0	17	0	8	0	0	0.00	0.00	0.00	0.00
YANG, ZILAN (FORMERLY: KOEGLER, RONALD R. AND CAROLYN V.)	26	7	0	7	0	14	11	3	0	11	0.00	0.00	0.00	0.00
TOTAL	63,929	16,042	11,623	(916)	0	26,749	12,867	10,592	1,031	11,901	0.00	580,453.00	0.00	580,453.00



APPENDIX B - SUMMARY  
PRODUCER REPLACEMENT WATER  
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SUBAREA	BASE ANNUAL PRODUCTION	2020-21 FREE PRODUCTION ALLOWANCE					PRODUCTION			ASSESSMENTS DUE BY JULY 1, 2022 (AMOUNTS IN DOLLARS)				
		BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2020-21 VERIFIED PRODUCTION <sup>6</sup>	UNUSED <sup>7</sup> FPA	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER	MAKEUP WATER	TOTAL
				2019-20 CARRYOVER <sup>3</sup>	2020-21 FPA <sup>4</sup>									
ESTE	19,251	13,500	14,219	(434)	0	27,285	4,304	13,264	431	3,873	0.00	242,653.00	0.00	242,653.00
OESTE	6,857	4,459	4,750	0	0	9,209	3,560	4,442	0	3,560	0.00	0.00	0.00	0.00
ALTO	114,308	63,629	17,621	(14,733)	(50)	66,467	77,891	14,499	24,767	51,688	2,832.89	13,943,821.00	1,594,917.04	15,538,738.04
CENTRO	49,477	33,828	34,592	(3,823)	(838)	63,759	18,132	32,749	143	17,495	0.00	80,509.00	0.00	80,509.00
BAJA	63,929	16,042	11,623	(916)	0	26,749	12,867	10,592	1,031	11,901	0.00	580,453.00	0.00	580,453.00
GRAND TOTAL	253,822	131,458	82,805	(19,906)	(888)	193,469	116,754	75,546	26,372	88,517	2,832.89	14,847,436.00	1,594,917.04	16,442,353.04



## NOTES FOR APPENDIX B

- 1 EQUAL TO 70% OF BASE ANNUAL PRODUCTION IN THE ESTE AND CENTRO SUBAREAS.  
EQUAL TO 65% OF BASE ANNUAL PRODUCTION IN THE OESTE SUBAREA AND FOR THE AGRICULTURAL PRODUCERS IN THE ALTO SUBAREA.  
EQUAL TO 55% OF BASE ANNUAL PRODUCTION FOR THE MUNICIPAL AND INDUSTRIAL PRODUCERS IN THE ALTO SUBAREA.  
EQUAL TO 25% OF BASE ANNUAL PRODUCTION IN THE BAJA SUBAREA.
- 2 UNUSED FPA FROM 2019-20 NET OF ANY TRANSFERS DURING 2019-20.
- 3 TRANSFERS OF 2019-20 UNUSED FPA FOR USE DURING 2020-21. AMOUNTS SOLD OR OTHERWISE RELINQUISHED ARE SHOWN IN PARENTHESIS. SEE APPENDIX E.
- 4 TRANSFERS OF 2020-21 BASE FREE PRODUCTION ALLOWANCE. AMOUNTS SOLD OR OTHERWISE RELINQUISHED ARE SHOWN IN PARENTHESIS. SEE APPENDIX E.
- 5 TOTAL FREE PRODUCTION ALLOWANCE FOR 2020-21 IS EQUAL TO THE SUM OF BASE FREE PRODUCTION ALLOWANCE, CARRYOVER AND TRANSFERS.
- 6 2020-21 VERIFIED PRODUCTION.
- 7 UNUSED FPA IS EQUAL TO THE TOTAL FPA MINUS TOTAL VERIFIED PRODUCTION, BUT NOT GREATER THAN THE SUM OF BASE FREE PRODUCTION ALLOWANCE AND 2020-21 FPA TRANSFERS.
- 8 WATER PRODUCTION IN EXCESS OF TOTAL FREE PRODUCTION ALLOWANCE.
- 9 PRODUCTION SUBJECT TO MAKEUP OBLIGATION IS EQUAL TO THE TOTAL VERIFIED PRODUCTION NOT TO EXCEED THE TOTAL FREE PRODUCTION ALLOWANCE.
- 10 PHELAN PIÑON HILLS CSD'S WELL #14 IS NOT INCLUDED IN THE TOTAL VERIFIED PRODUCTION. THE MATTER OF PUMPING FROM WELL #14, LOCATED IN LA COUNTY, IS STILL UNRESOLVED AND MAY AFFECT FUTURE OBLIGATIONS UNDER THE JUDGMENT.
- 11 CDFW - MOJAVE RIVER FISH HATCHERY IS EXEMPT FROM ASSESSMENTS PURSUANT TO THE PROVISIONS OF EXHIBIT F OF THE JUDGMENT AFTER TRIAL, DATED JANUARY 10, 1996.
- 12 APPELLANTS NOT SUBJECT TO THE JUDGMENT AFTER TRIAL PURSUANT TO SUPREME COURT DECISION DATED AUGUST 21, 2000. THE AGGREGATE BASE ANNUAL PRODUCTION OF THESE PARTIES WAS DETERMINED PRIOR TO TRIAL AND CONSISTS OF 291 ACRE-FEET IN THE ALTO SUBAREA AND 1,187 ACRE-FEET IN THE CENTRO SUBAREA. THE VERIFIED PRODUCTION WAS ESTIMATED BY WATERMASTER FOR 2020-21 AND CONSISTS OF 1,416 ACRE-FEET IN THE ALTO SUBAREA AND 494 ACRE-FEET IN THE CENTRO SUBAREA.
- 13 THE VERIFIED PRODUCTION SHOWN INCLUDES MWA DELIVERIES THROUGH THE REGIONAL, RECHARGE AND RECOVERY PROJECT. DELIVERIES FOR 2019-20 WATER YEAR INCLUDE 476 ACRE-FEET FOR THE CITY OF ADELANTO, 140 ACRE-FEET FOR LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP., 1,402 ACRE-FEET FOR VICTORVILLE WATER DISTRICT, ID#1 AND 263 ACRE-FEET FOR VICTORVILLE WATER DISTRICT ID#2.
- 14 THE VERIFIED PRODUCTION SHOWN INCLUDES THE OPERATIONAL WATER USED FOR THE REGIONAL, RECHARGE AND RECOVERY PROJECT.
- 15 FPA HAS BEEN ADJUSTED 2 FOR 1 FOR THE CHANGE IN CONSUMPTIVE USE PURSUANT TO EXHIBIT F OF THE JUDGMENT.
- 16 UNUSED FPA SHOWN FOR GENON CALIFORNIA SOUTH, LP IS NOT TRANSFERRABLE PURSUANT TO THE PURCHASE AND SALE AGREEMENT WITH MOJAVE WATER AGENCY DATED SEPTEMBER 12, 2019.
- 17 JEROME E. SHORT SOLD HIS REAL PROPERTY TO QIA HUI ZHOU IN SEPTEMBER 2020. THE BAP HAS NOT BEEN TRANSFERRED TO MR. ZHOU AT THIS TIME DUE TO PAST DUE ASSESSMENTS FOR THE 2019-20 WATER YEAR THAT ARE BEING DISPUTED.

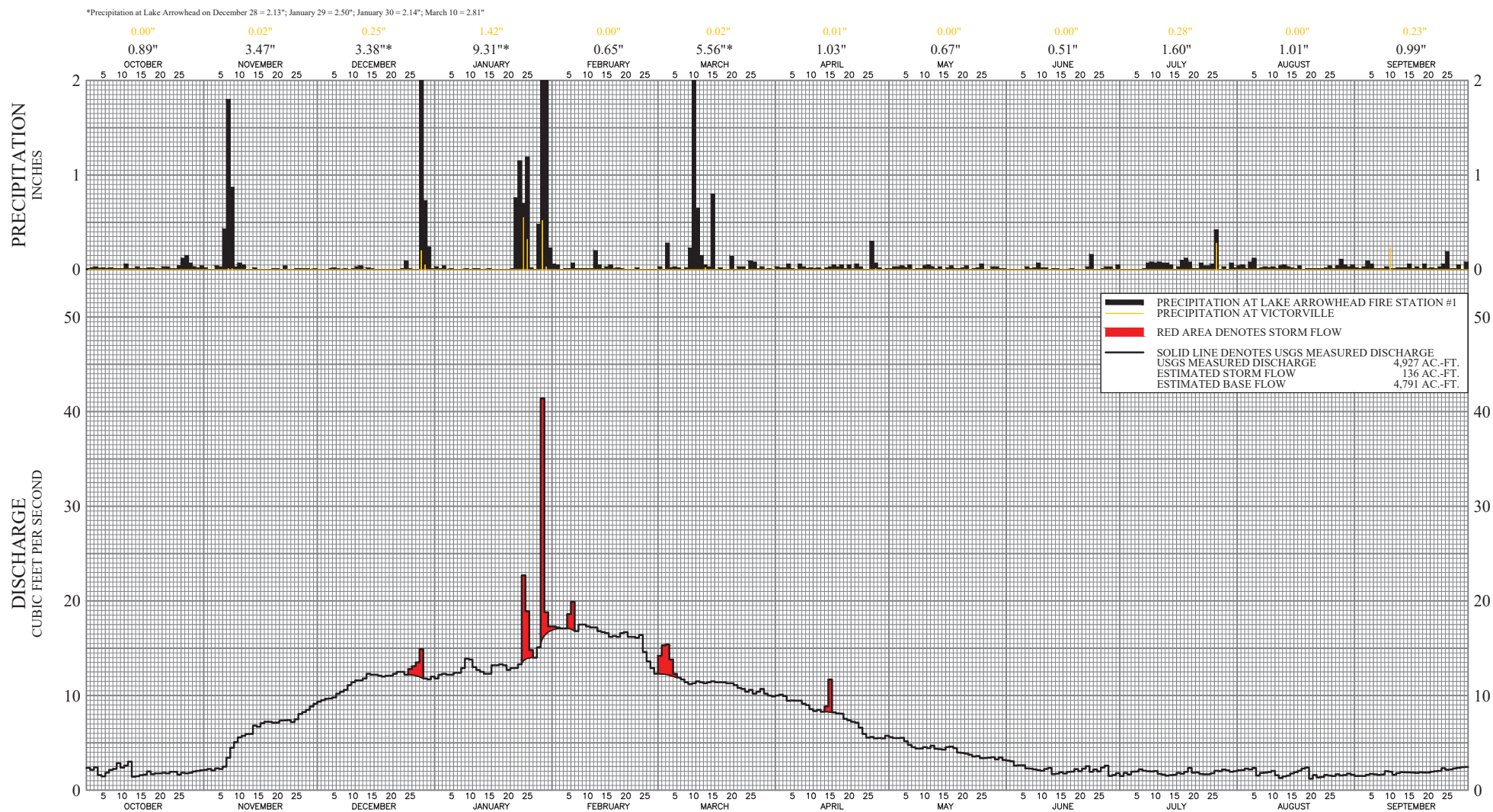


## **APPENDIX C**

### **SEPARATION OF FLOW COMPONENTS AT LOWER NARROWS**

**AND AFTON FOR 2020-21**





DISCHARGE OF MOJAVE RIVER AT LOWER NARROWS,  
PRECIPITATION AT LAKE ARROWHEAD FIRE STATION #1,  
AND PRECIPITATION AT VICTORVILLE  
WATER YEAR 2020-21



DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.35	2.15	9.4	11.8	17.3	14.2	10.0	5.6	3.12	1.49	2.10	1.50
2	2.15	2.24	9.5	12.2	17.2	15.3	10.1	5.5	3.05	1.83	2.12	1.51
3	2.41	2.08	9.7	12.3	17.1	15.4	9.9	5.5	2.60	1.66	2.27	1.50
4	1.59	2.30	9.7	12.2	17.1	13.8	9.5	5.5	2.63	1.96	2.18	1.62
5	1.46	2.23	9.8	12.2	18.6	12.3	9.5	5.2	2.63	1.97	2.34	1.72
6	1.85	2.48	10.2	12.4	19.9	11.9	9.5	4.78	2.30	2.20	1.54	1.67
7	2.14	3.42	10.4	12.4	16.8	11.7	9.5	4.54	2.27	2.05	1.82	1.61
8	2.25	4.48	10.6	12.9	17.5	11.4	9	4.40	2.20	2.00	1.85	1.66
9	2.85	5.07	11.1	13.9	17.5	11.2	9	4.40	2.12	1.97	1.91	2.01
10	2.38	5.58	11.4	13.8	17.3	11.3	9	4.55	2.04	2.02	2.03	1.95
11	2.60	5.74	11.6	13.0	17.2	11.5	8	4.44	2.24	1.72	1.57	1.62
12	3.01	5.93	11.6	12.7	17.2	11	8	4.70	2.35	1.65	1.28	1.80
13	1.42	5.94	11.8	12.5	16.8	11	8	4.37	1.69	1.53	1.46	1.90
14	1.47	6.82	12.3	12.3	16.7	11.4	9	4.33	1.74	1.59	1.53	1.88
15	1.58	6.70	12.2	12.3	16.6	11.5	11.7	4.28	1.89	1.62	1.76	1.87
16	1.64	7.07	12.2	13.2	16.2	11.4	8.2	4.55	1.76	1.83	1.90	1.86
17	1.98	7.23	12.1	13.2	16.3	11.4	8.1	4.61	1.93	1.73	2.05	1.82
18	1.68	7.22	12.0	13.3	16.2	11.4	8.1	4.44	1.96	1.93	2.28	1.88
19	1.77	7.13	12.1	13.2	16.6	11.3	7.5	3.97	2.22	2.35	2.39	1.86
20	1.77	7.14	12.1	12.7	16.7	11.3	7.4	3.93	2.00	1.84	1.21	1.86
21	1.84	7.36	12.3	12.9	16.2	11.1	7.2	3.86	2.27	e1.87	1.60	1.95
22	1.77	7.37	12.5	12.9	16.2	10.8	7.1	3.74	2.53	e1.71	1.34	2.00
23	1.94	7.40	12.5	13.3	16.1	10.7	6.6	3.56	1.94	1.67	1.39	2.03
24	1.94	7.19	12.2	22.7	16.4	10.4	5.9	3.61	2.19	1.68	1.61	2.32
25	1.64	7.49	12.8	18.9	14.6	10.6	5.6	3.38	1.98	1.78	1.54	2.16
26	1.84	8.05	13	14.8	13.6	10.2	5.6	3.39	2.39	2.05	1.49	2.19
27	1.77	8.25	13.5	14.0	12.9	10.4	5.5	3.43	2.59	2.00	1.68	2.30
28	1.83	8	14.9	15.1	12.3	10.7	5.5	3.48	1.51	2.18	1.55	2.36
29	1.97	8.84	11.8	41.4	0.0	10.2	5.5	3.25	1.60	2.09	1.60	2.42
30	2.03	9.13	11.7	18.8		10.0	5.8	3.46	1.80	1.94	1.75	2.45
31	2.10		12.0	17.3		9.9		3.19		2.01	1.63	
TOTAL (CFS - DAYS)	61.0	179	361	457	461	357	240	132	66	57.9	54.8	57.3
ACRE-FEET	121	354	716	906	915	709	476	262	130	115	109	114
WATER YEAR TOTAL =	4,927 AC-FT											

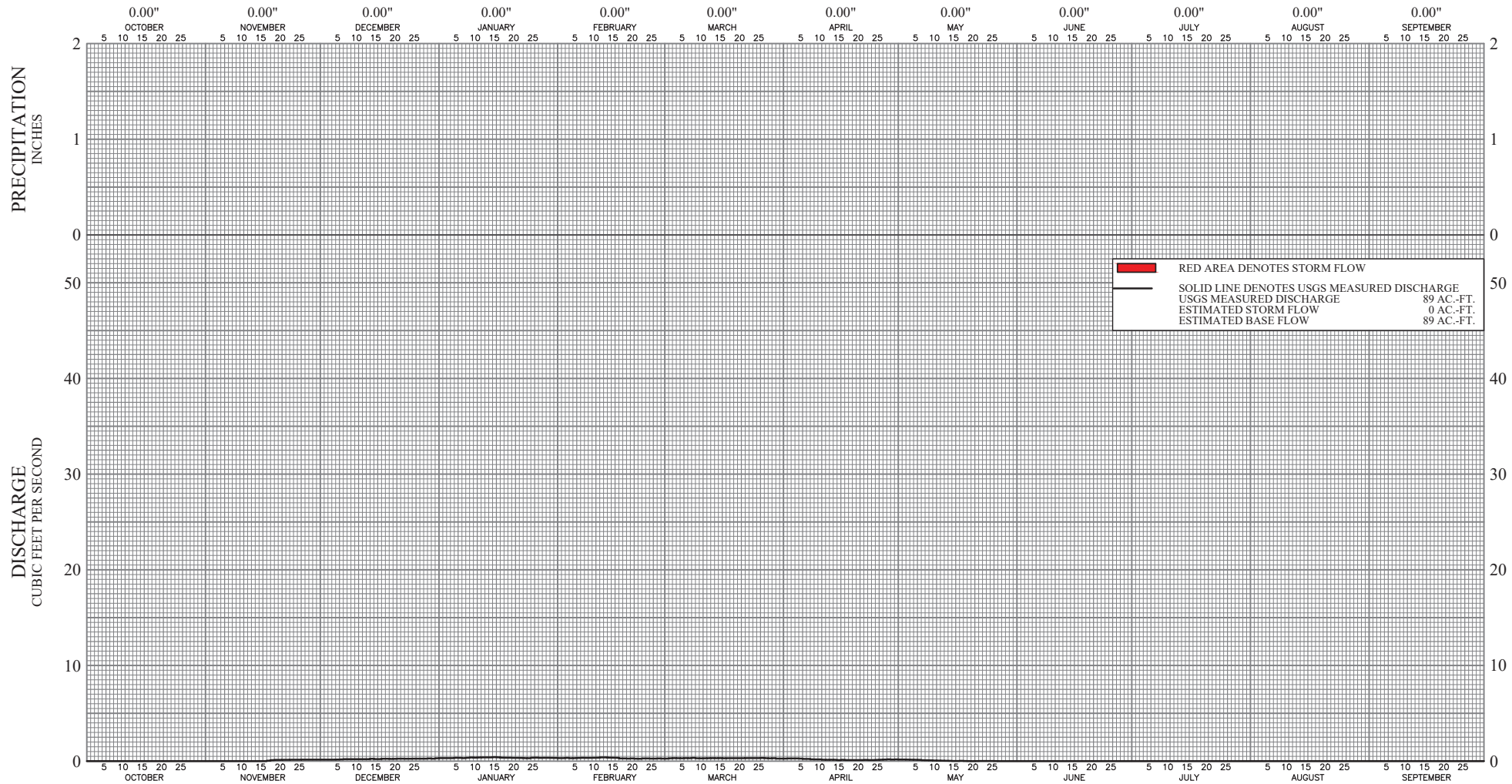


# SAN BERNARDINO COUNTY PRECIPITATION STATION 5140 - LAKE ARROWHEAD FIRE STATION #1

### PRECIPITATION, INCHES

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DISCHARGE OF MOJAVE RIVER AT AFTON  
AND PRECIPITATION AT BARSTOW  
WATER YEAR 2020-21



**MOJAVE RIVER AT AFTON, CA**

**U.S.G.S. GAGING STATION NO. 10263000**

**WATER YEAR 2020-21**

**AVERAGE DAILY DISCHARGE, CUBIC FT PER SECOND**

<b>DAY</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUN</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>
1	0.00	0.00	e0.16	0.32	0.32	0.27	0.27	0.17	0.00	0.00	0.00	0.00
2	0.00	0.00	e0.16	0.32	0.32	0.30	0.28	0.17	0.00	0.00	0.00	0.00
3	0.00	0.00	e0.16	0.32	0.34	0.32	0.28	0.16	0.00	0.00	0.00	0.00
4	0.00	0.00	0.16	0.32	0.31	0.31	0.28	0.15	0.00	0.00	0.00	0.00
5	0.00	0.00	0.17	0.35	0.32	0.30	0.27	0.14	0.00	0.00	0.00	0.00
6	0.00	0.00	0.18	0.34	0.33	0.32	0.23	0.13	0.00	0.00	0.00	0.00
7	0.00	0.00	0.21	0.32	0.35	0.31	0.23	0.10	0.00	0.00	0.00	0.00
8	0.00	0.00	0.21	0.35	0.34	0.34	0.19	0.09	0.00	0.00	0.00	0.00
9	0.00	0.00	0.21	0.38	0.34	0.30	0.18	0.08	0.00	0.00	0.00	0.00
10	0.00	0.00	0.21	0.37	0.35	0.29	0.18	0.07	0.00	0.00	0.00	0.00
11	0.00	0.00	0.21	0.38	0.36	0.30	0.15	0.06	0.00	0.00	0.00	0.00
12	0.00	0.00	0.21	0.39	0.39	0.31	0.14	0.05	0.00	0.00	0.00	0.00
13	0.00	0.00	0.21	0.39	0.39	0.32	0.15	0.04	0.00	0.00	0.00	0.00
14	0.00	0.00	0.25	0.39	0.37	0.31	0.14	0.03	0.00	0.00	0.00	0.00
15	0.00	0.00	0.22	0.42	0.36	0.32	0.11	0.02	0.00	0.00	0.00	0.00
16	0.00	0.00	0.22	0.40	0.35	0.30	0.14	0.02	0.00	0.00	0.00	0.00
17	0.00	e0.05	0.25	0.37	0.28	0.31	0.12	0.03	0.00	0.00	0.00	0.00
18	0.00	e0.11	0.25	0.36	0.28	0.31	0.12	0.02	0.00	0.00	0.00	0.00
19	0.00	e0.13	0.23	0.36	0.27	0.31	0.12	0.01	0.00	0.00	0.00	0.00
20	0.00	e0.13	0.24	0.34	0.28	0.31	0.12	0.00	0.00	0.00	0.00	0.00
21	0.00	e0.14	0.26	0.34	0.26	0.31	0.12	0.01	0.00	0.00	0.00	0.00
22	0.00	e0.14	0.26	0.33	0.25	0.32	0.13	0.02	0.00	0.00	0.00	0.00
23	0.00	e0.15	0.25	0.32	0.28	0.32	0.12	0.02	0.00	0.00	0.00	0.00
24	0.00	e0.15	0.25	0.31	0.28	0.32	0.12	0.02	0.00	0.00	0.00	0.00
25	0.00	e0.15	0.26	0.36	0.27	0.32	0.13	0.02	0.00	0.00	0.00	0.00
26	0.00	e0.16	0.26	0.37	0.27	0.33	0.15	0.01	0.00	0.00	0.00	0.00
27	0.00	e0.16	0.26	0.34	0.28	0.31	0.17	0.00	0.00	0.00	0.00	0.00
28	0.00	e0.16	0.26	0.35	0.27	0.29	0.19	0.00	0.00	0.00	0.00	0.00
29	0.00	e0.16	0.28	0.35		0.31	0.17	0.00	0.00	0.00	0.00	0.00
30	0.00	e0.16	0.26	0.34		0.27	0.18	0.00	0.00	0.00	0.00	0.00
31	0.00		0.30	0.33		0.27		0.00		0.00	0.00	
<b>TOTAL (CFS)</b>	0.00	1.95	7.02	10.9	8.81	9.5	5.2	1.64	0.00	0.00	0.00	0.00
<b>ACRE-FEET</b>	0.00	3.87	13.9	21.7	17.5	18.9	10.3	3.25	0.00	0.00	0.00	0.00

**WATER YEAR TOTAL = 89 AC-FT**



## NOAA STATION NO. W04-0521-07

### PRECIPITATION, INCHES

[illegible]



## **APPENDIX D**

### **CALCULATION OF SUBSURFACE FLOWS BETWEEN SUBAREAS**

**[RESERVED]**



## **APPENDIX E**

**TRANSFERS OF BASE ANNUAL PRODUCTION,**

**FREE PRODUCTION ALLOWANCE**

**AND PRIOR YEAR CARRYOVER**



**APPENDIX E**  
**TRANSFERS OF BASE ANNUAL PRODUCTION,**  
**FREE PRODUCTION ALLOWANCE**  
**AND PRIOR YEAR CARRYOVER**  
**(ALL AMOUNTS IN ACRE-FEET)**  
**ESTE SUBAREA**

TRANSFEROR	TRANSFER AMOUNT						TRANSFEEE
	BASE ANNUAL PRODUCTION <sup>1</sup>	2019-20 CARRYOVER <sup>2</sup>	2020-21 FPA <sup>3</sup>	2019-20 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2019-20 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2020-21 FPA IN LIEU OF MAKEUP <sup>6</sup>	
AHN, CHUN SOO AND DAVID				63			AHN REVOCABLE LIVING TRUST
AHN, CHUN SOO AND DAVID				1			GARDENA MISSION CHURCH, INC.
AHN, CHUN SOO AND DAVID				71			OASIS WORLD MISSION
BRACHT, WILLIAM F. AND ALEXANDER, ALICIA M.		24					DOUGLAS, TINA
BRACHT, WILLIAM F. AND ALEXANDER, ALICIA M.	50						DOUGLAS, TINA
CLUB VIEW PARTNERS				22			SAN BERNARDINO COUNTY SERVICE AREA 29
JONES TRUST DATED MARCH 16, 2002	23						DESERT GIRLZ LLC
JONES TRUST DATED MARCH 16, 2002		19					DESERT GIRLZ LLC
MITSUBISHI CEMENT CORPORATION				42			JUNIPER RIVIERA COUNTY WATER DISTRICT
MITSUBISHI CEMENT CORPORATION				25			OMYA CALIFORNIA, INC.
MITSUBISHI CEMENT CORPORATION				155			ROBERTSON'S READY MIX
MITSUBISHI CEMENT CORPORATION				17			SPECIALTY MINERALS, INC.
PAK, KAE SOO AND MYONG HUI KANG				38			CHUNG, ET AL.
THE CUSHENBURY TRUST, C/O SPECIALTY MINERALS, INC.	10						SPECIALTY MINERALS, INC.
THE CUSHENBURY TRUST, C/O SPECIALTY MINERALS, INC.		8					SPECIALTY MINERALS, INC.
WEST END MUTUAL WATER COMPANY				8			DESERT DAWN MUTUAL WATER COMPANY
<b>TOTAL</b>	<b>83</b>	<b>51</b>	<b>0</b>	<b>442</b>	<b>0</b>	<b>0</b>	



**APPENDIX E**  
**TRANSFERS OF BASE ANNUAL PRODUCTION,**  
**FREE PRODUCTION ALLOWANCE**  
**AND PRIOR YEAR CARRYOVER**  
**(ALL AMOUNTS IN ACRE-FEET)**  
**ALTO SUBAREA**

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2019-20 CARRYOVER <sup>2</sup>	2020-21 FPA <sup>3</sup>	2019-20 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2019-20 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2020-21 FPA IN LIEU OF MAKEUP <sup>6</sup>	
ADES, JOHN AND DEVON				24			SPRING VALLEY LAKE ASSOCIATION
AMERICAN STATES WATER COMPANY				417			GOLDEN STATE WATER COMPANY
AMERICAN STATES WATER COMPANY				133			SAN BERNARDINO COUNTY SERVICE AREA 70J
APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT		13					APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT
APPLE VALLEY, TOWN OF				596			VICTORVILLE WATER DISTRICT, ID#1
AQUA CAPITAL MANAGEMENT LP-INDUSTRIAL				10			SPRING VALLEY LAKE ASSOCIATION
BASS TRUST, NEWTON T.				382			VICTORVILLE WATER DISTRICT, ID#1
BASTIANON REVOCABLE TRUST				57			VICTORVILLE WATER DISTRICT, ID#1
BEINSCHROTH FAMILY TRUST				86			MARIANA RANCHOS COUNTY WATER DISTRICT
BEINSCHROTH FAMILY TRUST				60			THUNDERBIRD COUNTY WATER DISTRICT
BEINSCHROTH FAMILY TRUST				58			VICTORVILLE WATER DISTRICT, ID#1
BEINSCHROTH, ANDY ERIC				187			VICTORVILLE WATER DISTRICT, ID#1
BOX, GEARY S. AND LAURA		11					LANGLEY, JAMES
BROWN, BOBBY G. AND VALERIA R.				31			VICTORVILLE WATER DISTRICT, ID#1
BROWN, JENNIFER				26			VICTORVILLE WATER DISTRICT, ID#1
BRUNEAU, KAREN				8			VICTORVILLE WATER DISTRICT, ID#1
BRYANT, IAN				22			VICTORVILLE WATER DISTRICT, ID#1
BUNNELL, DICK				16			VICTORVILLE WATER DISTRICT, ID#1
CALMAT COMPANY		10					AQUA CAPITAL MANAGEMENT LP-INDUSTRIAL
CALPORTLAND COMPANY - AGRICULTURE		483					LANGLEY, JAMES
CALPORTLAND COMPANY - ORO GRANDE PLANT		584					LANGLEY, JAMES - INDUSTRIAL
DLW REVOCABLE TRUST				53			VICTORVILLE WATER DISTRICT, ID#1
DOLCH LIVING TRUST ROBERT AND JUDITH				67			VICTORVILLE WATER DISTRICT, ID#1
DORA LAND, INC.				12			VICTORVILLE WATER DISTRICT, ID#1
FEDERAL BUREAU OF PRISONS, VICTORVILLE			378				VICTORVILLE WATER DISTRICT, ID#1
FINCH, JENIFER				23			VICTORVILLE WATER DISTRICT, ID#1
FISCHER REVOCABLE LIVING TRUST				26			VICTORVILLE WATER DISTRICT, ID#1
FISHER TRUST, JEROME R.				475			VICTORVILLE WATER DISTRICT, ID#1
FRAZIER, ET AL.				38			APPLE VALLEY UNIFIED SCHOOL DISTRICT
HAAS, BRYAN C. AND HINKLE, MARY H.				7			VICTORVILLE WATER DISTRICT, ID#1
HALANNA EQUITIES III				6			HESPERIA WATER DISTRICT
HAMILTON FAMILY TRUST		15					HESPERIA WATER DISTRICT
HAMILTON FAMILY TRUST		50					JAMBOREE HOUSING CORPORATION
HELENDALE COMMUNITY SERVICES DISTRICT				37			VICTORVILLE WATER DISTRICT, ID#1



**APPENDIX E**  
**TRANSFERS OF BASE ANNUAL PRODUCTION,**  
**FREE PRODUCTION ALLOWANCE**  
**AND PRIOR YEAR CARRYOVER**  
**(ALL AMOUNTS IN ACRE-FEET)**  
**ALTO SUBAREA**

FEBRUARY 23, 2022

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2019-20 CARRYOVER <sup>2</sup>	2020-21 FPA <sup>3</sup>	2019-20 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2019-20 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2020-21 FPA IN LIEU OF MAKEUP <sup>6</sup>	
HELENDALE COMMUNITY SERVICES DISTRICT				707			VICTORVILLE WATER DISTRICT, ID#2
HESPERIA, CITY OF				200			HESPERIA - GOLF COURSE, CITY OF
HESPERIA, CITY OF				3,505			HESPERIA WATER DISTRICT
HI-GRADE MATERIALS COMPANY				60			AGCON, INC.
HOLWAY JEFFREY R AND PATRICIA GAGE				6			HESPERIA WATER DISTRICT
HOLWAY, JEFFREY R				9			HESPERIA WATER DISTRICT
HOLY HEAVENLY LAKE, LLC		5					HESPERIA WATER DISTRICT
HUNT, CONNIE		50					HESPERIA WATER DISTRICT
JESS RANCH WATER COMPANY				2,593			VICTORVILLE WATER DISTRICT, ID#2
JOHNSON, RONALD		24					HESPERIA WATER DISTRICT
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.		31					LANGLEY, JAMES
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.		32					LANGLEY, JAMES
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.		19					LANGLEY, JAMES
KEMPER CAMPBELL RANCH				296			ADELANTO, CITY OF
LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT				494			ADELANTO, CITY OF
LANGLEY, JAMES				595			CDFW - MOJAVE NARROWS REGIONAL PARK
LANGLEY, JAMES				50			VICTOR VALLEY MEMORIAL PARK
LANGLEY, JAMES - INDUSTRIAL				33			AGCON, INC.
LANGLEY, JAMES - INDUSTRIAL				139			CDFW - MOJAVE NARROWS REGIONAL PARK
LANGLEY, JAMES - INDUSTRIAL				312			CEMEX, INC.
LANGLEY, JAMES - INDUSTRIAL				100			SAN BERNARDINO COUNTY - HIGH DESERT DETENTION CEN
LAWSON, ERNEST AND BARBARA				3			APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT
LAWSON, ERNEST AND BARBARA				7			APPLE VALLEY VIEW MUTUAL WATER COMPANY
LAWSON, ERNEST AND BARBARA				1			PERRY REVOCABLE LIVING TRUST, THOMAS AND PATRICIA
LHC ALLIGATOR, LLC			324				HESPERIA WATER DISTRICT
LOW, DEAN				150			VICTORVILLE WATER DISTRICT, ID#1
LUCKEY 2010 REVOCABLE TRUST				224			VICTORVILLE WATER DISTRICT, ID#1
MCKINNEY, PAULA		25					HESPERIA WATER DISTRICT
NUNN FAMILY TRUST				26			APPLE VALLEY UNIFIED SCHOOL DISTRICT
PAUSTELL, JOAN BEINSCHROTH	10						MARIANA RANCHOS COUNTY WATER DISTRICT
PAUSTELL, JOAN BEINSCHROTH	8						THUNDERBIRD COUNTY WATER DISTRICT
PAUSTELL, JOAN BEINSCHROTH				128			VICTORVILLE WATER DISTRICT, ID#1
PITTMAN REVOCABLE TRUST, DIANA J.		111					HELENDALE COMMUNITY SERVICES DISTRICT
PITTMAN REVOCABLE TRUST, DIANA J.	148						HELENDALE COMMUNITY SERVICES DISTRICT



**APPENDIX E**  
**TRANSFERS OF BASE ANNUAL PRODUCTION,**  
**FREE PRODUCTION ALLOWANCE**  
**AND PRIOR YEAR CARRYOVER**  
**(ALL AMOUNTS IN ACRE-FEET)**  
**ALTO SUBAREA**

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2019-20 CARRYOVER <sup>2</sup>	2020-21 FPA <sup>3</sup>	2019-20 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2019-20 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2020-21 FPA IN LIEU OF MAKEUP <sup>6</sup>	
POLICH, DONNA		49					HESPERIA WATER DISTRICT
RIM PROPERTIES, A GENERAL PARTNERSHIP				7			VICTORVILLE WATER DISTRICT, ID#1
RUE RANCH, INC.				16			VICTORVILLE WATER DISTRICT, ID#1
SAN BERNARDINO COUNTY SERVICE AREA 42				198			SAN BERNARDINO COUNTY SERVICE AREA 70J
SCRAY, MICHELLE A. TRUST		11					LANGLEY, JAMES
STORM, RANDALL				47			ADELANTO, CITY OF
SUDMEIER, GLENN W.				1			NUÑEZ, LUIS SEGUNDO
SUDMEIER, GLENN W.				13			VICTORVILLE WATER DISTRICT, ID#1
SUMMIT VALLEY RANCH, LLC				35			HESPERIA WATER DISTRICT
THOMPSON LIVING TRUST, JAMES A. AND SULA B.				307			VICTOR VALLEY COMMUNITY COLLEGE DISTRICT
THOMPSON LIVING TRUST, JAMES A. AND SULA B.				4			VICTORVILLE WATER DISTRICT, ID#1
THRASHER, GARY				275			VICTORVILLE WATER DISTRICT, ID#1
VANHOOPS HOLDINGS, LP				269			ADELANTO, CITY OF
VOGLER, ALBERT H.				46			SPRING VALLEY LAKE ASSOCIATION
WAGNER LIVING TRUST				918			VICTORVILLE WATER DISTRICT, ID#1
WAKULA FAMILY TRUST				8			APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT
WARD, KEN AND BARBARA				35			VICTORVILLE WATER DISTRICT, ID#1
WEST, HOWARD AND SUZY		54					LANGLEY, JAMES
WEST, JIMMIE E.				7			APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT
<b>TOTAL</b>	<b>166</b>	<b>1,577</b>	<b>702</b>	<b>14,681</b>	<b>0</b>	<b>0</b>	



**APPENDIX E**  
**TRANSFERS OF BASE ANNUAL PRODUCTION,**  
**FREE PRODUCTION ALLOWANCE**  
**AND PRIOR YEAR CARRYOVER**  
**(ALL AMOUNTS IN ACRE-FEET)**

FEBRUARY 23, 2022

CENTRO SUBAREA							
TRANSFER AMOUNT							
TRANSFEROR	BASE ANNUAL PRODUCTION <sup>1</sup>	2019-20 CARRYOVER <sup>2</sup>	2020-21 FPA <sup>3</sup>	2019-20 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2019-20 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2020-21 FPA IN LIEU OF MAKEUP <sup>6</sup>	TRANSFeree
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT					8		APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT					8		APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT					2		APPLE VALLEY VIEW MUTUAL WATER COMPANY
AQUA CAPITAL MANAGEMENT LP	2,106						PACIFIC GAS AND ELECTRIC COMPANY
AQUA CAPITAL MANAGEMENT LP					201		SPRING VALLEY LAKE ASSOCIATION
AQUA CAPITAL MANAGEMENT LP					637		VICTORVILLE WATER DISTRICT, ID#1
AQUA CAPITAL MANAGEMENT LP					139		VICTORVILLE WATER DISTRICT, ID#2
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY					40		CALPORTLAND COMPANY - ORO GRANDE PLANT
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY					50		CDFW - MOJAVE NARROWS REGIONAL PARK
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY						50	CDFW - MOJAVE NARROWS REGIONAL PARK
BROMMER HOUSE TRUST					8		RANCHERITOS MUTUAL WATER COMPANY
BROMMER HOUSE TRUST					181		SAN BERNARDINO COUNTY SERVICE AREA 64
CHRISTISON, JOEL					57		HESPERIA WATER DISTRICT
CONTRATTO, ERSULA					113		HESPERIA WATER DISTRICT
DORRANCE, DAVID W. AND TAMELA L.						14	CALPORTLAND COMPANY - ORO GRANDE PLANT
EYGNOR, ROBERT E.					38		HESPERIA WATER DISTRICT
FRATES, D. COLE						1	BOX, GEARY S. AND LAURA
FRATES, D. COLE						9	CALPORTLAND COMPANY - ORO GRANDE PLANT
GABRYCH, EUGENE					86		ADELANTO, CITY OF
GABRYCH, EUGENE					13		VICTORVILLE WATER DISTRICT, ID#1
GAINES FAMILY TRUST, JACK AND MARY					31		ADELANTO, CITY OF
GAINES FAMILY TRUST, JACK AND MARY					38		APPLE VALLEY, TOWN OF
GOLDEN STATE WATER COMPANY					45		GOLDEN STATE WATER COMPANY
GOLDEN STATE WATER COMPANY		800					HUERTA, HECTOR
GOLDEN STATE WATER COMPANY					5		SAN BERNARDINO COUNTY SERVICE AREA 42
GOLDEN STATE WATER COMPANY					74		SAN BERNARDINO COUNTY SERVICE AREA 70J
GOLDEN STATE WATER COMPANY		1,600					VERNOLA TRUST, PAT AND MARY ANN
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH						19	AGCON, INC.
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH						2	CALPORTLAND COMPANY - ORO GRANDE PLANT
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH					52		CEMEX, INC.
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH						19	CEMEX, INC.
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH						2	HI-GRADE MATERIALS COMPANY
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH				2			HI-GRADE MATERIALS COMPANY
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH						64	SPRING VALLEY LAKE COUNTRY CLUB



**APPENDIX E**  
**TRANSFERS OF BASE ANNUAL PRODUCTION,**  
**FREE PRODUCTION ALLOWANCE**  
**AND PRIOR YEAR CARRYOVER**  
**(ALL AMOUNTS IN ACRE-FEET)**  
**CENTRO SUBAREA**

FEBRUARY 23, 2022

TRANSFEROR	TRANSFER AMOUNT						TRANSFEEE
	BASE ANNUAL PRODUCTION <sup>1</sup>	2019-20 CARRYOVER <sup>2</sup>	2020-21 FPA <sup>3</sup>	2019-20 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2019-20 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2020-21 FPA IN LIEU OF MAKEUP <sup>6</sup>	
HELENDALE COMMUNITY SERVICES DISTRICT					52		HELENDALE COMMUNITY SERVICES DISTRICT
HELENDALE COMMUNITY SERVICES DISTRICT						82	HELENDALE COMMUNITY SERVICES DISTRICT
HILL FAMILY TRUST AND HILL'S RANCH, INC.					119		JESS RANCH WATER COMPANY
HILL FAMILY TRUST AND HILL'S RANCH, INC.					723		LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) COR
JORDAN FAMILY TRUST					341		HESPERIA WATER DISTRICT
KASNER FAMILY LIMITED PARTNERSHIP					33		HESPERIA - GOLF COURSE, CITY OF
KASNER FAMILY LIMITED PARTNERSHIP					12		HESPERIA WATER DISTRICT
KIM, JIN S. AND HYUN H.					143		HESPERIA WATER DISTRICT
PACIFIC GAS AND ELECTRIC COMPANY		200					RUISCH TRUST, DALE W. AND NELLIE H.
SEXTON, RODNEY A. AND SEXTON, DEREK R.					135		ADELANTO, CITY OF
SEXTON, RODNEY A. AND SEXTON, DEREK R.					8		PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT
SOPPELAND REVOCABLE TRUST					1		ADES, JOHN AND DEVON
SOPPELAND REVOCABLE TRUST				1			BARSTOW COMMUNITY DEVELOPERS, LLC
SOPPELAND REVOCABLE TRUST					1		BASS TRUST, NEWTON T.
SOPPELAND REVOCABLE TRUST					1		BEINSCHROTH FAMILY TRUST
SOPPELAND REVOCABLE TRUST					1		BROWN, JENNIFER
SOPPELAND REVOCABLE TRUST					1		CALMAT COMPANY
SOPPELAND REVOCABLE TRUST					1		HALANNA EQUITIES III
SOPPELAND REVOCABLE TRUST					3		JOHNSON, CARLEAN
SOPPELAND REVOCABLE TRUST					6		KEMPER CAMPBELL RANCH
SOPPELAND REVOCABLE TRUST					13		MARIANA RANCHOS COUNTY WATER DISTRICT
SOPPELAND REVOCABLE TRUST					3		NAVAJO MUTUAL WATER COMPANY
SOPPELAND REVOCABLE TRUST					8		PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT
SOPPELAND REVOCABLE TRUST					278		SILVER LAKES ASSOCIATION
SOPPELAND REVOCABLE TRUST					1		SUMMIT VALLEY RANCH, LLC
SOPPELAND REVOCABLE TRUST				8			SYNAGRO-WWT, INC. (DBA NURSURY PRODUCTS, LLC)
SOPPELAND REVOCABLE TRUST					1		THOMPSON LIVING TRUST, JAMES A. AND SULA B.
SOPPELAND REVOCABLE TRUST					1		THRASHER, GARY
SOPPELAND REVOCABLE TRUST					6		THUNDERBIRD COUNTY WATER DISTRICT
SOPPELAND REVOCABLE TRUST					12		VICTOR VALLEY COMMUNITY COLLEGE DISTRICT
SOPPELAND REVOCABLE TRUST					2		WARD, KEN AND BARBARA
VALENTI, VITO		13					JOHNSON, PAUL
VALENTI, VITO	17						JOHNSON, PAUL
VAN DAM REVOCABLE TRUST, E AND S				80			GRILL, NICHOLAS P. AND MILLIE D.



APPENDIX E  
TRANSFERS OF BASE ANNUAL PRODUCTION,  
FREE PRODUCTION ALLOWANCE  
AND PRIOR YEAR CARRYOVER  
(ALL AMOUNTS IN ACRE-FEET)  
CENTRO SUBAREA

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2019-20 CARRYOVER <sup>2</sup>	2020-21 FPA <sup>3</sup>	2019-20 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2019-20 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2020-21 FPA IN LIEU OF MAKEUP <sup>6</sup>	
VAN DAM REVOCABLE TRUST, E AND S		200					VAN LEEUWEN, JOHN
VICTORVILLE WATER DISTRICT, ID#1						558	VICTORVILLE WATER DISTRICT, ID#1
WERNER, ANDREW J.						13	CALPORTLAND COMPANY - ORO GRANDE PLANT
WESTERN DEVELOPMENT AND STORAGE, LLC						5	CALPORTLAND COMPANY - ORO GRANDE PLANT
<b>TOTAL</b>	<b>2,123</b>	<b>2,813</b>	<b>0</b>	<b>91</b>	<b>3,732</b>	<b>838</b>	



**APPENDIX E**  
**TRANSFERS OF BASE ANNUAL PRODUCTION,**  
**FREE PRODUCTION ALLOWANCE**  
**AND PRIOR YEAR CARRYOVER**  
**(ALL AMOUNTS IN ACRE-FEET)**  
**BAJA SUBAREA**

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2019-20 CARRYOVER <sup>2</sup>	2020-21 FPA <sup>3</sup>	2019-20 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2019-20 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2020-21 FPA IN LIEU OF MAKEUP <sup>6</sup>	
ARCHIBEK, ERIC			300				LAKE WAINANI OWNERS ASSOCIATION
ARCHIBEK, ERIC				205			WESTERN HORIZON ASSOCIATES, INC.
BREDELIS, RONALD C. AND JEAN		11					DE JONG FAMILY TRUST
BUBIER, DIANE GAIL				17			DAGGETT COMMUNITY SERVICES DISTRICT
CALICO LAKES HOMEOWNERS ASSOCIATION		15					NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION
EVERT FAMILY TRUST		18					NSSLIC, INC.
GARG, OM P.		145					NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION
GRAY, GEORGE F. AND BETTY E.		29					DE JONG FAMILY TRUST
HARTER, JOE AND SUE				100			DAGGETT COMMUNITY SERVICES DISTRICT
HARTER, JOE AND SUE	100						DAGGETT COMMUNITY SERVICES DISTRICT
HASS, PAULINE L.		10					DE JONG FAMILY TRUST
HAWKINS, JAMES B.	854						VAN DAM FAMILY TRUST, GLEN AND JENNIFER
HIETT, HARRY L.				7			DAGGETT COMMUNITY SERVICES DISTRICT
HILARIDES 1998 REVOCABLE FAMILY TRUST		89					WARD, RAYMOND
HO, TING-SENG AND AH-GIT				90			SMITH, DENISE DBA AMEREQUINE BEAUTY, INC
HORTON, JOHN				59			HORTON'S CHILDREN'S TRUST
HORTON, JOHN		14					HORTON'S CHILDREN'S TRUST
HYATT, JAMES AND BRENDA		57					DE JONG FAMILY TRUST
JACKSON, JAMES N. JR REVOCABLE LIVING TRUST		5					IRVIN, BERTRAND W.
JACKSON, JAMES N. JR REVOCABLE LIVING TRUST		12					QUIROS, FRANSISCO J. AND HERRMANN, RONALD
KASNER, ROBERT			300				ARCHIBEK, ERIC
KASNER, ROBERT	100						DAGGETT COMMUNITY SERVICES DISTRICT
KIM, JOON HO AND MAL BOON REVOCABLE TRUST		59					DE JONG FAMILY TRUST
KOEGLER, RONALD R. AND CAROLYN V.		7					YANG, ZILAN
KOEGLER, RONALD R. AND CAROLYN V.	26						YANG, ZILAN
LAKE WAINANI OWNERS ASSOCIATION		205					ARCHIBEK, ERIC
LIANG, YUAN - I AND TZU - MEI CHEN		10					MARTIN, MICHAEL D. AND ARLENE D.
LIANG, YUAN - I AND TZU - MEI CHEN				50			VAN BASTELAAR, ALPHONSE
LIN, KUAN JUNG AND CHUNG, DER-BING		136					NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION
LIN, KUAN JUNG AND CHUNG, DER-BING			113				NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION
MIZRAHIE, ET AL.		44					NSSLIC, INC.
MOJAVE WATER AGENCY			600				GENON CALIFORNIA SOUTH, LP
MORRIS TRUST, JULIA V.		91					DE JONG FAMILY TRUST
NEW SPRINGS LIMITED PARTNERSHIP		52					ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY



**APPENDIX E**  
**TRANSFERS OF BASE ANNUAL PRODUCTION,**  
**FREE PRODUCTION ALLOWANCE**  
**AND PRIOR YEAR CARRYOVER**  
**(ALL AMOUNTS IN ACRE-FEET)**

**BAJA SUBAREA**

TRANSFEROR	TRANSFER AMOUNT						TRANSFeree
	BASE ANNUAL PRODUCTION <sup>1</sup>	2019-20 CARRYOVER <sup>2</sup>	2020-21 FPA <sup>3</sup>	2019-20 CARRYOVER IN LIEU OF REPLACEMENT <sup>4</sup>	2019-20 CARRYOVER IN LIEU OF MAKEUP <sup>5</sup>	2020-21 FPA IN LIEU OF MAKEUP <sup>6</sup>	
NEW SPRINGS LIMITED PARTNERSHIP		200					DE JONG FAMILY TRUST
NEW SPRINGS LIMITED PARTNERSHIP				1			FOOTHILL ESTATES MHP, LLC
NEW SPRINGS LIMITED PARTNERSHIP		22					MARTIN, MICHAEL D. AND ARLENE D.
NEW SPRINGS LIMITED PARTNERSHIP		239					NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION
NEW SPRINGS LIMITED PARTNERSHIP		2					NSSL, INC.
NEW SPRINGS LIMITED PARTNERSHIP		13					QUIROS, FRANCISCO J. AND HERRMANN, RONALD
NEW SPRINGS LIMITED PARTNERSHIP		170					ST. ANTONY COPTIC ORTHODOX MONASTERY
NEW SPRINGS LIMITED PARTNERSHIP			100				VAN LEEUWEN, JOHN
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		37					CHEYENNE LAKE, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION			23				CHEYENNE LAKE, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		129					CRYSTAL LAKES PROPERTY OWNERS ASSOCIATION
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		130					LAKE JODIE PROPERTY OWNERS ASSOCIATION
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION			23				O. F. D. L., INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		81					O. F. D. L., INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		98					SUNDOWN LAKES, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION			22				SUNDOWN LAKES, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION			23				WET SET, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		2					WET SET, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION			23				WLSR, INC.
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION		59					WLSR, INC.
VAN DAM FAMILY TRUST, GLEN AND JENNIFER				21			DAGGETT COMMUNITY SERVICES DISTRICT
VAN DAM FAMILY TRUST, GLEN AND JENNIFER				217			KASNER FAMILY LIMITED PARTNERSHIP
VAN DAM FAMILY TRUST, GLEN AND JENNIFER			197				KASNER, ROBERT
VAN DAM FAMILY TRUST, GLEN AND JENNIFER				168			KASNER, ROBERT
VANDER DUSSEN TRUST, AGNES AND EDWARD	179						DAGGETT SOLAR POWER 3 LLC
VANDER DUSSEN TRUST, AGNES AND EDWARD		432					HACKBARTH, EDWARD E.
VANDER DUSSEN TRUST, AGNES AND EDWARD				28			ROSSI, JAMES L. AND NAOMI I.
<b>TOTAL</b>	<b>1,259</b>	<b>2,623</b>	<b>1,724</b>	<b>963</b>	<b>0</b>	<b>0</b>	
<b>TOTAL - ALL SUBAREAS</b>	<b>3,631</b>	<b>7,064</b>	<b>2,426</b>	<b>16,177</b>	<b>3,732</b>	<b>838</b>	



## NOTES FOR APPENDIX E

- 1 TRANSFERS OF BASE ANNUAL PRODUCTION RIGHT DURING 2020-21.
- 2 TRANSFERS OF 2019-20 CARRYOVER (UNUSED FPA) FOR USE DURING 2020-21.
- 3 TRANSFERS OF 2020-21 FREE PRODUCTION ALLOWANCE FOR USE DURING 2020-21.
- 4 2019-20 CARRYOVER IN LIEU OF REPLACEMENT TRANSFERS ARE MADE ONLY FOR SATISFACTION OF REPLACEMENT WATER OBLIGATIONS INCURRED DURING 2019-20.
- 5 2019-20 CARRYOVER IN LIEU MAKEUP TRANSFERS ARE MADE ONLY FOR SATISFACTION OF MAKEUP WATER OBLIGATIONS INCURRED DURING 2019-20.
- 6 2020-21 FPA IN LIEU MAKEUP TRANSFERS ARE MADE ONLY FOR SATISFACTION OF MAKEUP WATER OBLIGATIONS INCURRED DURING 2019-20.



## **APPENDIX F**

### **BALANCES IN STORAGE AGREEMENTS**



## APPENDIX F

FEBRUARY 23, 2022

**STORAGE AGREEMENT ACCOUNTING AND BALANCES**  
**2020-21 WATER YEAR**  
**(ALL AMOUNTS IN ACRE-FEET)**

STORER	STORAGE AGREEMENT				ACTIVITY				BALANCE AS OF 9/30/21
	INITIATION DATE	EXPIRATION DATE	MAXIMUM AMOUNT <sup>1</sup>	AMOUNT STORED AS OF 10/1/20	ADDITIONS	LOSSES <sup>2</sup>	DISSIPATION <sup>3</sup>	EXTRACTIONS	
VICTORVILLE WATER DISTRICT, ID#1 - INJECTION	05/23/2012	06/30/2022	13,000	1,000	0	0	0	0	1,000
VICTORVILLE WATER DISTRICT, ID#1 - PERCOLATION	07/27/2016	09/30/2028	0	6,116	3,426	-103	0	-2,286	7,153
<b>VICTORVILLE WATER DISTRICT, ID#1 TOTAL</b>			<b>13,000</b>	<b>7,116</b>	<b>3,426</b>	<b>-103</b>	<b>0</b>	<b>-2,286</b>	<b>8,153</b>
MOJAVE WATER AGENCY - ALTO	09/28/2016	09/28/2036	242,000	141,219	6	0	0	-7,369	133,856
MOJAVE WATER AGENCY - BAJA	09/28/2016	09/28/2036	50,000	24,754	1	0	0	-22	24,733
MOJAVE WATER AGENCY - CENTRO	09/28/2016	09/28/2036	35,000	24,622	3	0	0	-10	24,615
MOJAVE WATER AGENCY - ESTE	09/28/2016	09/28/2036	7,000	1,320	15	0	0	0	1,335
MOJAVE WATER AGENCY - OESTE	09/28/2016	09/28/2036	7,000	0	0	0	0	0	0
<b>MOJAVE WATER AGENCY TOTAL</b>			<b>341,000</b>	<b>191,915</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>-7,401</b>	<b>184,539</b>

**NOTES:**

- 1 VICTORVILLE WATER DISTRICT, ID#1 HAS A MAXIMUM STORAGE AMOUNT OF 13,000 ACRE-FEET COMBINED BETWEEN THE TWO STORAGE AGREEMENTS.
- 2 LOSSES INCLUDE SHRINKAGE, RECHARGE LOSSES AND MIGRATION LOSSES OR SPILLAGE AMOUNTS LOST TO BASIN DISCHARGE. LOSSES HAVE BEEN DETERMINED TO BE 3 PERCENT.
- 3 DISSIPATION INCLUDES GROUNDWATER DISSIPATED TO MOJAVE RIVER AS CALCULATED BY THE CALIFORNIA ENERGY COMMISSION AND REPORTED TO HIGH DESERT POWER PROJECT.



**APPENDIX G**

**AUDITOR'S REPORT**

**AS OF JUNE 30, 2021**





**Mojave Basin Area Watermaster  
A Component Unit of the Mojave Water Agency**

**Annual Financial Report**

**For the Fiscal Year Ended June 30, 2021**





***Mojave Basin Area Watermaster***  
**Annual Financial Report**  
**For the Fiscal Year Ended June 30, 2021 (with comparative data for 2020)**

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**Table of Contents**

**Financial Section**

Independent Auditor's Report .....	1-3
Management's Discussion and Analysis .....	4-6
Basic Financial Statements:	
Statements of Net Position .....	7
Statements of Revenues, Expenses and Changes in Net Position .....	8
Statements of Cash Flows .....	9-10
Notes to the Financial Statements .....	11-17

**Report on Internal Controls and Compliance**

Report on Internal Control over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance With <i>Government Auditing Standards</i> .....	18-19
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## **Financial Section**





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## *Independent Auditor's Report*

To the Board of Directors  
Mojave Basin Area Watermaster  
Apple Valley, California

### **Report on the Audit of the Financial Statements**

#### ***Opinion***

We have audited the accompanying financial statements of the Mojave Basin Area Watermaster (the Watermaster), a component unit of the Mojave Water Agency, as of and for the year ended June 30, 2021, and the related notes to the financial statements, which collectively comprise the Watermaster's basic financial statements as listed in the table of contents.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Watermaster as of June 30, 2021, and the changes in financial position and cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America, as well as the accounting systems prescribed by the State Controller's Office and State Regulations governing Special Districts.

#### ***Basis for Opinion***

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS), the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States and the State Controller's *Minimum Audit Requirements for California Special Districts*. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Watermaster and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### ***Responsibilities of Management for the Financial Statements***

The Watermaster's management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Watermaster's ability to continue as a going concern for one year after the date that the financial statements are issued.



### ***Auditor's Responsibilities for the Audit of the Financial Statements***

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of Watermaster's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about Watermaster's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control–related matters that we identified during the audit.

### ***Required Supplementary Information***

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis, as listed in the table of contents, be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.



***Prior Year Comparative Information***

We have previously audited the Watermaster's 2020 financial statements, and we expressed an unmodified opinion in our report dated November 12, 2020. In our opinion, the summarized comparative information presented herein as of and for the year ended June 30, 2020, is consistent, in all material respects, with the audited financial statements from which it has been derived. Such information does not include all of the information required to constitute a presentation in conformity with accounting principles generally accepted in the United States of America. Accordingly, such information should be read in conjunction with the Watermaster's financial statements for the year ended June 30, 2020, from which such partial information was derived.

***Other Reporting Required by Government Auditing Standards***

In accordance with *Government Auditing Standards*, we have also issued our report dated November 18, 2021 on our consideration of the Watermaster's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Watermaster's internal control over financial reporting and compliance.

*Rogers, Anderson, Malody & Scott, LLP.*

San Bernardino, California  
November 18, 2021



**Mojave Basin Area Watermaster  
Management's Discussion and Analysis  
For the Fiscal Year Ended June 30, 2021**

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The following Management's Discussion and Analysis (MD&A) of activities and financial performance of the Mojave Basin Area Watermaster (Watermaster) provides an introduction to the financial statements of the Watermaster for the fiscal years ended June 30, 2021 and 2020. The two-year presentation is provided for comparative purposes. We encourage readers to consider the information presented here in conjunction with the basic financial statements and related notes, which follow this section.

**Financial Highlights**

- In fiscal year 2021, the Watermaster's net position decreased 7%, or \$74,433, to \$918,009 as a result from ongoing operations. In fiscal year 2020, the Watermaster's net position decreased 5%, or \$50,707, to \$992,442 as a result from ongoing operations.
- In fiscal year 2021, the Watermaster's operating revenues increased 270%, or \$1,669,051, to \$2,287,699 primarily due to an increase in replacement assessments. In fiscal year 2020, the Watermaster's operating revenues decreased 56%, or \$773,370, to \$618,648 primarily due to a decrease in replacement assessments.
- In fiscal year 2021, the Watermaster's operating expenses increased 283%, or \$1,718,419, to \$2,325,510 primarily due to an increase in State Water Project importation charges for replacement charges. In fiscal year 2020, the Watermaster's operating expenses decreased 59%, or \$859,079, to \$607,091 primarily due to a decrease in State Water Project importation charges.

**Required Financial Statements**

This annual report consists of a series of comparative financial statements. The Statement of Net Position, Statement of Revenues, Expenses, and Changes in Net Position, and Statement of Cash Flows provide information about the activities and performance of the Watermaster using accounting methods similar to those used by private sector companies for the fiscal years 2021 and 2020.

Due to the comparative nature of this report, the following financial statements include information that reflects the current year and prior year. The Statement of Net Position includes all of the Watermaster's investments in resources (assets) and obligations to creditors (liabilities). It also provides the basis for computing a rate of return, evaluating the capital structure of the Watermaster and assessing the liquidity and financial flexibility of the Watermaster. All of the current year's revenues and expenses are accounted for in the Statement of Revenues, Expenses, and Changes in Net Position. These statements measure the success of the Watermaster's operations over the past years and can be used to determine if the Watermaster has successfully recovered all of its costs through its rates and other charges. These statements can also be used to evaluate profitability and credit worthiness. The final required financial statement is the Statement of Cash Flows, which provides information about the Watermaster's cash receipts and cash payments during the reporting periods. The Statement of Cash Flows reports cash receipts, cash payments, and net changes in cash resulting from operations, investing, non-capital financing, and capital and related financing activities and provides answers to questions such as, "Where did cash come from, what was cash used for, and what was the change in cash balance during the reporting period?"



**Mojave Basin Area Watermaster**  
**Management's Discussion and Analysis**  
**For the Fiscal Year Ended June 30, 2021**

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**Financial Analysis of the Watermaster**

One of the most important questions asked about the Watermaster's finances is, "Is the Watermaster better off or worse off as a result of this year's activities?". The Statement of Net Position and the Statement of Revenues, Expenses, and Changes in Net Position report information about the Watermaster in a way that helps answer this question.

These statements include all assets, deferred outflows of resources, liabilities, and deferred inflows of resources using the *accrual basis of accounting*, which is similar to the accounting method used by most private sector companies. All of the current year's revenues and expenses are taken into account regardless of when the cash is received or paid.

These two statements report the Watermaster's *net position* and changes in net position. You can think of the Watermaster's net position – the difference between assets and liabilities – as one way to measure the Watermaster's financial health, or *financial position*. Over time, *increases or decreases* in the Watermaster's net position are one indicator of whether its *financial health* is improving or deteriorating. However, one will need to consider other non-financial factors such as changes in economic conditions, population growth, zoning and new or changed government legislation, such as changes in Federal and State water quality standards.

**Notes to the Basic Financial Statements**

The notes provide additional information that is essential to a full understanding of the data provided in the basic financial statements.

**Statements of Net Position**

	<b>Condensed Statements of Net Position</b>				
	<b>2021</b>	<b>2020</b>	<b>Change</b>	<b>2019</b>	<b>Change</b>
Assets					
Current assets	\$ 2,897,513	\$ 1,292,559	\$ 1,604,954	\$ 2,199,549	\$ (906,990)
Non-current assets	2,076	3,015	(939)	2,397	618
Total assets	<u>2,899,589</u>	<u>1,295,574</u>	<u>1,604,015</u>	<u>2,201,946</u>	<u>(906,372)</u>
Liabilities					
Current liabilities	1,981,580	303,132	1,678,448	1,158,797	(855,665)
Total liabilities	<u>1,981,580</u>	<u>303,132</u>	<u>1,678,448</u>	<u>1,158,797</u>	<u>(855,665)</u>
Net position					
Restricted	918,009	992,442	(74,433)	1,043,149	(50,707)
Total net position	<u>\$ 918,009</u>	<u>\$ 992,442</u>	<u>\$ (74,433)</u>	<u>\$ 1,043,149</u>	<u>\$ (50,707)</u>

As noted earlier, net position may serve over time as a useful indicator of a government's financial position. In the case of the Watermaster, assets of the Watermaster exceeded liabilities by \$918,009 and \$992,442 as of June 30, 2021 and 2020, respectively, which are restricted for the Biological Resources Trust Fund, Watermaster administrative costs, replacement water, and make-up water. The sources that feed each of these funds are dictated by the Judgment. Uses of these funds can only be used for the purpose stated in the Judgment.



**Mojave Basin Area Watermaster**  
**Management's Discussion and Analysis**  
**For the Fiscal Year Ended June 30, 2021**

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**Statements of Revenues, Expenses and Changes in Net Position**

<b>Condensed Statements of Revenues, Expenses and Changes in Net Position</b>					
	<b>2021</b>	<b>2020</b>	<b>Change</b>	<b>2019</b>	<b>Change</b>
Revenue:					
Operating revenues	\$ 2,287,699	\$ 618,648	\$ 1,669,051	\$ 1,392,018	\$ (773,370)
Non-operating revenues	10,887	29,164	(18,277)	31,125	(1,961)
Total revenues	<u>2,298,586</u>	<u>647,812</u>	<u>1,650,774</u>	<u>1,423,143</u>	<u>(775,331)</u>
Expense:					
Operating expense	2,325,510	607,091	1,718,419	1,466,170	(859,079)
Non-operating expenses	47,509	91,428	(43,919)	287,383	(195,955)
Total expenses	<u>2,373,019</u>	<u>698,519</u>	<u>1,674,500</u>	<u>1,753,553</u>	<u>(1,055,034)</u>
Change in net position	(74,433)	(50,707)	(23,726)	(330,410)	279,703
Net position, beginning of year	<u>992,442</u>	<u>1,043,149</u>	<u>(50,707)</u>	<u>1,373,559</u>	<u>(330,410)</u>
Net position, end of year	<u>\$ 918,009</u>	<u>\$ 992,442</u>	<u>\$ (74,433)</u>	<u>\$ 1,043,149</u>	<u>\$ (50,707)</u>

The statement of revenues, expenses and changes in net position show how the Watermaster's net position changed during the fiscal years. In the case of the Watermaster, net position decreased by \$74,433 for the fiscal year ended June 30, 2021, as result of ongoing operations. For the fiscal year ended June 30, 2020, net position decreased by \$50,707 as a result of ongoing operations.

A closer examination of the sources of changes in net position reveals that:

In fiscal year 2021, the Watermaster's total revenues increased 255%, or \$1,650,774, to \$2,298,586 due to an increase of \$1,687,019 in Replacement assessments which was offset by a decrease of \$18,883 in Administrative and Biological assessments. In fiscal year 2020, the Watermaster's total revenues decreased 54%, or \$775,331, to \$647,812 due to a decrease of \$810,673 in Replacement assessments which was offset by an increase of \$40,740 in Administrative and Biological assessments.

In fiscal year 2021, the Watermaster's total expenses increased 240%, or \$1,674,500, to \$2,373,019 due to an increase of \$1,685,972 in State Water Project importation charges. This is offset by an increase of \$31,597 in operating costs and a decrease of \$44,001 in biological expenses. In fiscal year 2020, the Watermaster's total expenses decreased 60%, or \$1,055,034, to \$698,519 due to a decrease of \$810,673 in State Water Project importation charges along with a decrease of \$195,954 in biological expenses.

**Conditions Affecting Current Financial Position**

Management is unaware of any conditions which could have a significant impact on the Watermaster's current financial position, net position or operating results based on past, present, and future events.

**Requests for Information**

This financial report is designed to provide the Watermaster's funding sources, customers, stakeholders and other interested parties with an overview of the Watermaster's financial operations and financial condition. Should the reader have questions regarding the information included in this report or wish to request additional financial information, please contact the Mojave Water Agency at 13846 Conference Center Drive, Apple Valley, CA, 92307.



## **Basic Financial Statements**



**Mojave Basin Area Watermaster**  
**Statements of Net Position**  
**June 30, 2021 (with comparative data for 2020)**

	<b>2021</b>	<b>2020</b>
<b>ASSETS</b>		
<b>Current assets:</b>		
Restricted - cash and cash equivalents (Note 2)	\$ 1,285,079	\$ 1,251,717
Accrued interest receivable	613	3,014
Accounts receivable - Administrative assessments	2,364	2,777
Accounts receivable - Biological assessments	559	491
Accounts receivable - Replacement assessments	1,608,036	34,135
Accounts receivable - Make-up assessments	862	425
	<u>2,897,513</u>	<u>1,292,559</u>
<b>Total current assets</b>		
	<u>2,897,513</u>	<u>1,292,559</u>
<b>Non-current assets:</b>		
Accounts receivable - Administrative assessments	1,695	902
Accounts receivable - Biological assessments	357	180
Accounts receivable - Replacement assessments	-	1,155
Accounts receivable - Make-up assessments	24	778
	<u>2,076</u>	<u>3,015</u>
<b>Total non-current assets</b>		
	<u>2,076</u>	<u>3,015</u>
<b>Total assets</b>	<u>2,899,589</u>	<u>1,295,574</u>
<b>LIABILITIES</b>		
<b>Current liabilities:</b>		
Accounts payable - Administrative	144,719	123,040
Accounts payable - Biological	47,427	91,429
Accounts payable - Replacement	1,783,370	82,337
Accounts payable - Make-up	6,064	6,326
	<u>1,981,580</u>	<u>303,132</u>
<b>Total current liabilities</b>		
	<u>1,981,580</u>	<u>303,132</u>
<b>Total liabilities</b>	<u>1,981,580</u>	<u>303,132</u>
<b>NET POSITION</b>		
Restricted for watermaster (Note 3)	<u>918,009</u>	<u>992,442</u>
<b>Total net position</b>	<u>\$ 918,009</u>	<u>\$ 992,442</u>

See accompanying notes to the basic financial statements.



**Mojave Basin Area Watermaster****Statements of Revenues, Expenses, and Changes in Net Position****For the Fiscal Year Ended June 30, 2021 (with comparative data for 2020)**

	<b>2021</b>	<b>2020</b>
<b>OPERATING REVENUES</b>		
Administrative assessments	\$ 410,844	\$ 420,611
Biological assessments	119,148	128,264
Replacement assessments	1,751,438	64,419
Make-up assessments	6,269	5,354
<b>Total operating revenues</b>	<b>2,287,699</b>	<b>618,648</b>
<b>OPERATING EXPENSES</b>		
State Water Project importation charges:		
Replacement charges	1,750,391	64,419
Make-up charges	6,169	5,319
Operating costs	568,950	537,353
<b>Total operating expenses</b>	<b>2,325,510</b>	<b>607,091</b>
<b>Operating income (loss)</b>	<b>(37,811)</b>	<b>11,557</b>
<b>NONOPERATING REVENUES (EXPENSES)</b>		
Investment earnings	458	25,661
Administrative revenue	10,429	3,503
Administrative expense	(82)	-
Biological expense	(47,427)	(91,428)
<b>Total nonoperating revenues (expenses)</b>	<b>(36,622)</b>	<b>(62,264)</b>
<b>Change in net position</b>	<b>(74,433)</b>	<b>(50,707)</b>
<b>Net position, beginning of year</b>	<b>992,442</b>	<b>1,043,149</b>
<b>Net position, end of year</b>	<b>\$ 918,009</b>	<b>\$ 992,442</b>

See accompanying notes to the basic financial statements.



**Mojave Basin Area Watermaster**  
**Statements of Cash Flows**  
**For the Fiscal Year Ended June 30, 2021 (with comparative data for 2020)**

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	<u>2021</u>	<u>2020</u>
<b>Cash flows from operating activities:</b>		
Cash receipts from customers and others	\$ 714,645	\$ 1,452,514
Cash paid to vendors and suppliers	(301,137)	(1,195,821)
Cash paid to employees for salaries and wages	<u>(383,005)</u>	<u>(354,860)</u>
Net cash provided (used) by operating activities	<u>30,503</u>	<u>(98,167)</u>
<b>Cash flows from investing activities:</b>		
Investment earnings	<u>2,859</u>	<u>30,512</u>
Net cash provided by investing activities	<u>2,859</u>	<u>30,512</u>
Net increase (decrease) in cash and cash equivalents	33,362	(67,655)
<b>Cash and investments, beginning of year</b>	<u>1,251,717</u>	<u>1,319,372</u>
<b>Cash and investments, end of year</b>	<u><u>\$ 1,285,079</u></u>	<u><u>\$ 1,251,717</u></u>
Reconciliation to the Statement of Net Position:		
Restricted - cash and cash equivalents	<u>\$ 1,285,079</u>	<u>\$ 1,251,717</u>
Total cash and investments	<u><u>\$ 1,285,079</u></u>	<u><u>\$ 1,251,717</u></u>

(Continued on next page)



**Mojave Basin Area Watermaster**  
**Statements of Cash Flows, continued**  
**For the Fiscal Year Ended June 30, 2021 (with comparative data for 2020)**

	<u>2021</u>	<u>2020</u>
<b>Reconciliation of operating income (loss) to net cash provided (used) by operating activities</b>		
Operating income (loss)	\$ (37,811)	\$ 11,557
Adjustments to reconcile operating income (loss) to net cash provided (used) by operating activities:		
Nonoperating revenues	10,429	3,503
Nonoperating expenses	(47,509)	(91,428)
Changes in assets and liabilities:		
(Increase) Decrease in assets:		
Accounts receivable - Administrative assessments	(380)	4,320
Accounts receivable - Biological assessments	(245)	1,230
Accounts receivable - Replacement assessments	(1,572,746)	827,086
Accounts receivable - Make-up assessments	317	1,230
Increase (Decrease) in liabilities:		
Accounts payable - Administrative	21,679	(10,486)
Accounts payable - Biological	(44,002)	(47,405)
Accounts payable - Replacement	1,701,033	(794,423)
Accounts payable - Make-up	(262)	(3,351)
Total adjustments	<u>68,314</u>	<u>(109,724)</u>
Net cash provided (used) by operating activities	<u>\$ 30,503</u>	<u>\$ (98,167)</u>
Noncash activities		
None		

See accompanying notes to the basic financial statements.



**Note 1: Reporting Entity and Summary of Significant Accounting Policies**

**A. Organization and Operations of the Reporting Entity**

The Mojave Water Agency (Agency) was organized July 21, 1960, by an act of the legislature of the State of California known as the Mojave Water Agency Act. Within the limits of its power and authority set forth in this act, the purpose of the Agency is to do any and every act necessary so that sufficient water may be available for any present or future beneficial use of lands and inhabitants of the Agency, including, but not limited to, construction, maintenance, alteration, purchase, and operation of any and all works or improvements within the Agency necessary or proper to carry out any object or purpose of this act; and the gathering of data for, and the development and implementation of, after consultation and coordination with all public and private water entities who are in any way affected, management and master plans to mitigate the cumulative overdraft of groundwater basins, to monitor the condition of the groundwater basins, to pursue all necessary water conservation measures, and to negotiate for additional water supplies from all state, federal, and local sources. The Agency is governed by a seven-member Board of Directors who serves overlapping four-year terms.

In 1994, to administer the provisions of the groundwater adjudication judgment, the Superior Court of Riverside appointed the Agency as the Mojave Basin Area Watermaster (Watermaster) and ordered the Watermaster to formulate a plan and program for management of the Basin's resources. Although the Watermaster is legally separate, it is included as a blended component unit of the Agency, as it is in substance part of the Agency's operations as it is governed by the same Board of Directors. Complete financial statements for the Agency are available at the Agency's office or upon request of the Agency at 13846 Conference Center Drive, Apple Valley, CA, 92307.

**B. Basis of Accounting and Measurement Focus**

The Watermaster reports its activities as an enterprise fund, which is used to account for operations that are financed and operated in a manner similar to a private business enterprise, where the intent of the Watermaster is that the costs of delivering wholesale water to its service area on a continuing basis be financed or recovered primarily through user charges (assessments). Revenues and expenses are recognized on the full accrual basis of accounting. Revenues are recognized in the accounting period in which they are earned and expenses are recognized in the period incurred, regardless of when the related cash flows take place.

Operating revenues and expenses, such as Watermaster assessments, result from exchange transactions associated with the principal activity of the Agency. Exchange transactions are those in which each party receives and gives up essentially equal values. The principal operating revenues of the Watermaster are water sales (assessments) to member water right holders. Management, administration and depreciation expenses are also considered operating expenses. Other revenues and expenses not included in the above categories are reported as non-operating revenues and expenses.

**C. Financial Reporting**

The Watermaster's basic financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America (GAAP), as applied to enterprise funds. The Governmental Accounting Standards Board (GASB) is the accepted standard-setting body for establishing governmental accounting and financial reporting principles. The Watermaster solely operates as a special-purpose government which means it is only engaged in business-type activities; accordingly, activities are reported in the Watermaster's proprietary fund.



**Note 1: Reporting Entity and Summary of Significant Accounting Policies, continued**

**D. Assets, Liabilities, and Net Position**

*Use of Estimates*

The preparation of the basic financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported changes in net position during the reporting period. Actual results could differ from those estimates.

*Cash and Cash Equivalents*

Substantially all of the Watermaster's cash is invested in interest bearing accounts. The Watermaster considers all highly liquid investments with a maturity of three months or less to be cash equivalents.

*Investments*

Changes in fair value that occur during a fiscal year are recognized as investment income reported for that fiscal year. Investment income includes interest earnings, changes in fair value, and any gains or losses realized upon the liquidation or sale of investments.

*Fair Value Measurements*

The Watermaster categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on valuation inputs used to measure the fair value of the asset, as follows:

- Level 1 – Valuation is based on quoted prices in active markets for identical assets.
- Level 2 – Valuation is based on directly observable and indirectly observable inputs. These inputs are derived principally from or corroborated by observable market data through correlation or market-corroborated inputs. The concept of market-corroborated inputs incorporates observable market data such as interest rates and yield curves that are observable at commonly quoted intervals.
- Level 3 – Valuation is based on unobservable inputs where assumptions are made based on factors such as prepayment rates, probability of defaults, loss severity and other assumptions that are internally generated and cannot be observed in the market.

*Accounts Receivable and Allowance for Uncollectible Accounts*

The Watermaster extends credit to customers in the normal course of operations. When management deems customer accounts uncollectible, the Watermaster uses the allowance method for the reservation and write-off of those accounts.



**Note 1: Reporting Entity and Summary of Significant Accounting Policies, continued**

*Net Position*

The financial statements utilize a net position presentation. Net position is categorized as follows:

- Net Investment in Capital Assets – This component of net position consists of capital assets, net of accumulated depreciation and reduced by any debt outstanding against the acquisition, construction or improvement of those assets.
- Restricted – This component of net position consists of constraints placed on net position use through external constraints imposed by creditors (such as through debt covenants), grantors, contributors, or laws or regulations of other governments or constraints imposed by law through constitutional provisions or enabling legislation.
- Unrestricted – This component of net position consists of net position that does not meet the definition of *restricted* net position or *net investment in capital assets*.

**Note 2: Cash and Cash Equivalents**

***Investment in State Investment Pool***

The Watermaster is a voluntary participant in the Local Agency Investment Fund (LAIF) that is regulated by the California Government Code under the oversight of the Treasurer of the State of California. The fair value of the Watermaster's investment in this pool is reported in the accompanying financial statements at amounts based upon the Agency's pro-rata share of the fair value provided by LAIF for the entire LAIF portfolio (in relation to the amortized cost of that portfolio). The balance available for withdrawal is based on the accounting records maintained by LAIF, which are recorded on an amortized cost basis.

The Watermaster's deposit and withdrawal restrictions and limitations are as follows:

- Same day transaction processing occurs for orders received before 10:00 a.m.
- Next day transactions processing occurs for orders received after 10:00 a.m.
- Maximum limit of 15 transactions (combination of deposits and withdrawals) per month.
- Minimum transaction amount requirement of \$5,000, in increments of \$1,000.
- Withdrawals of \$10,000,000 or more require 24 hours advance notice.
- Prior to funds transfer, an authorized person must call LAIF to do a verbal transaction.



**Mojave Basin Area Watermaster**  
**Notes to the Financial Statements**  
**For the Fiscal Year Ended June 30, 2021 (with comparative data for 2020)**

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**Note 2: Cash and Cash Equivalents, continued**

***Custodial Credit Risk***

Custodial credit risk for *deposits* is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or will not be able to recover collateral securities that are in the possession of an outside party. The California Government Code and the Watermaster's investment policy does not contain legal or policy requirements that would limit the exposure to custodial credit risk for deposits, other than the following provision for deposits:

The California Government Code requires that a financial institution secure deposits made by state or local governmental units by pledging securities in an undivided collateral pool held by a depository regulated under state law (unless so waived by the governmental unit). The market value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. Of the bank balances, up to \$250,000 is federally insured and the remaining balance is collateralized in accordance with the Code; however, the collateralized securities are not held in the Watermaster's name.

Cash and cash equivalents as of June 30, are classified in the accompanying financial statements as follows:

	<b>2021</b>	<b>2020</b>
Restricted - cash and cash equivalents:		
Administrative	\$ -	\$ 127,923
Biological resources trust	711,817	681,841
Replacement water	563,373	432,247
Make-up water	9,889	9,706
	<u>\$ 1,285,079</u>	<u>\$ 1,251,717</u>

Cash and cash equivalents as of June 30, consist of the following:

	<b>2021</b>	<b>2020</b>
Demand deposits with financial institutions	\$ 534,692	\$ 354,189
Local Agency Investment Fund (LAIF)	750,387	897,528
	<u>\$ 1,285,079</u>	<u>\$ 1,251,717</u>

At June 30, the Watermaster's authorized deposits had the following maturities:

	<b>2021</b>	<b>2020</b>
Deposits held with California Local Agency Investment Fund (LAIF)	291 days	191 days

The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The Code and the Watermaster's investment policy contain legal and policy requirements that would limit the exposure to custodial credit risk for investments. With respect to investments, custodial credit risk generally applies only to direct investments in marketable securities. Custodial credit risk does not apply to a local government's indirect investment in securities through the use of mutual funds or government investment pools (such as LAIF).



**Mojave Basin Area Watermaster**  
**Notes to the Financial Statements**  
**For the Fiscal Year Ended June 30, 2021 (with comparative data for 2020)**

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**Note 2: Cash and Investments, continued**

***Interest Rate Risk***

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment the greater the sensitivity of its fair value to changes in market interest rates. One of the ways that the Watermaster manages its exposure to interest rate risk is by purchasing a combination of shorter term and longer term investments and by timing cash flows from maturities so that a portion of the portfolio matures or comes close to maturity evenly over time as necessary to provide for cash flow requirements and liquidity needed for operations.

***Credit Risk***

Credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. LAIF is not rated.

***Concentration of Credit Risk***

The investment policy of the Watermaster contains no limitations on the amount that can be invested in any one issuer beyond that stipulated by the California Government Code. At June 30, 2021 and 2020, the Watermaster did not hold any investments in any one issuer (other than external pools) that represent 5% or more of total Watermaster investments.

**Note 3: Net Position**

Calculation of net position as of June 30, was as follows:

	<b>2021</b>	<b>2020</b>
Restricted net position:		
Administrative	\$ (140,047)	\$ 11,576
Biological resources trust	665,306	591,083
Replacement water	388,039	385,200
Make-up water	4,711	4,583
	<hr/>	<hr/>
Total restricted net position	<u>\$ 918,009</u>	<u>\$ 992,442</u>

The net position from prior years is now depleted and the Watermaster is looking to increase their rates to resolve the deficit balance for the administrative category.



**Mojave Basin Area Watermaster**  
**Notes to the Financial Statements**  
**For the Fiscal Year Ended June 30, 2021 (with comparative data for 2020)**

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**Note 4: Risk Management**

The Watermaster is exposed to various risks of loss related to torts, theft of, damage to and destruction of assets; errors and omissions; injuries to employees; and natural disasters. The Watermaster is a member of the Association of California Water Agencies/Joint Powers Insurance Authority (ACWA/JPIA), an intergovernmental risk sharing joint powers authority created to provide self-insurance programs for California water agencies. The purpose of the ACWA/JPIA is to arrange and administer programs of self-insured losses and to purchase excess insurance coverage.

At June 30, 2021, the Watermaster participates in the ACWA/JPIA pooled programs for liability, and property programs as follows:

- General and auto liability, public officials and employees' errors and omissions: Total risk financing self-insurance limits of \$5,000,000 per occurrence. The ACWA/JPIA purchased additional excess coverage layers: \$55 million for general, auto and public officials liability, which increases the limits on the insurance coverage noted above.

In addition, the Watermaster also has the following insurance coverage:

- Crime coverage up to \$100,000 per loss includes public employee dishonesty, depositor's forgery or alteration, theft, computer and funds transfer fraud coverage's, subject to \$1,000 deductible per loss.
- Property loss is paid at the replacement cost for property on file, if replaced within two years after the loss, otherwise paid on an actual cash value basis, to a combined total of \$150 million per loss, subject to a \$1,000 deductible per loss. Mobile equipment and vehicles, on file, are paid on actual cost value basis at time of loss and subject to \$1,000 deductible per loss.
- Boiler and machinery coverage for the replacement cost up to \$150 million per occurrence, subject to various deductibles depending on the type of equipment, on file.

The Watermaster has purchased workers' compensation insurance coverage for injuries to employees through the Special District Risk Management Association (SDRMA), an intergovernmental risk sharing joint powers authority created to provide self-insurance programs for California special districts. The purpose of the SDRMA is to arrange and administer programs of self-insured losses and to purchase excess insurance coverage. At June 30, 2021, the Watermaster participated in the workers' compensation programs of the SDRMA as follows:

- Workers' compensation coverage up to California statutory limits for all work related injuries/illnesses covered by California law and employers liability limit of \$5,000,000 per occurrence.

Settled claims have not exceeded any of the coverage amounts in any of the last three fiscal years and there were no reductions in the Watermaster's insurance coverage during the years ending June 30, 2021, 2020 and 2019. Liabilities are recorded when it is probable that a loss has been incurred and the amount of the loss can be reasonably estimated net of the respective insurance coverage. Liabilities include an amount for claims that have been incurred but not reported (IBNR). There were no IBNR claims payable as of June 30, 2021, 2020, and 2019, respectively.



**Note 5: Litigation**

In the ordinary course of operations, the Watermaster is subject to claims and litigation from outside parties. After consultation with legal counsel, the Watermaster believes the ultimate outcome of such matters, if any, will not materially affect its financial condition.



## **Report on Internal Controls and Compliance**





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**REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING  
AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN  
AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE  
WITH GOVERNMENT AUDITING STANDARDS**

*Independent Auditor's Report*

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Board of Directors  
Mojave Basin Area Watermaster  
Apple Valley, California

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the Mojave Basin Area Watermaster (the Watermaster) as of and for the year ended June 30, 2021, and the related notes to the financial statements, which collectively comprise the Watermaster's basic financial statements, and have issued our report thereon dated November 18, 2021.

***Internal Control over Financial Reporting***

In planning and performing our audit of the financial statements, we considered the Watermaster's internal control over financial reporting (internal control) as a basis for designing procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Watermaster's internal control. Accordingly, we do not express an opinion on the effectiveness of the Watermaster's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees in the normal course of performing their assigned functions, to prevent, or detect and correct misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.



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### ***Compliance and Other Matters***

As part of obtaining reasonable assurance about whether the Watermaster's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit and, accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

### **Purpose of this Report**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Watermaster's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

*Rogers, Anderson, Malody & Scott, LLP.*

San Bernardino, California  
November 18, 2021



## **APPENDIX H**

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22**

**AND PROPOSED FREE PRODUCTION ALLOWANCE**

**FOR WATER YEAR 2022-23**



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**ESTE SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
ABDUL, HARRY AND ANITA	194	136	127	65%	263	117	60%
ABSHIRE, DAVID V.	24	1	16	65%	17	15	60%
AHN REVOCABLE LIVING TRUST	0	0	0	65%	0	0	60%
AHN REVOCABLE TRUST	28	20	19	65%	39	17	60%
AHN, CHUN SOO AND DAVID	400	280	260	65%	540	240	60%
AMERICA UNITED DEVELOPMENT, LLC	500	350	325	65%	675	300	60%
ANDERSON, ROSS C. AND BETTY J.	34	24	23	65%	47	21	60%
AVILA, ANGEL AND EVALIA	573	402	373	65%	775	344	60%
BAR H MUTUAL WATER COMPANY	53	38	35	65%	73	32	60%
BELL, CHARLES H. TRUST DATED MARCH 7, 2014	494	346	322	65%	668	297	60%
CASA COLINA FOUNDATION	90	63	59	65%	122	54	60%
CENTER WATER COMPANY	40	28	26	65%	54	24	60%
CHUNG, ET AL.	0	0	0	65%	0	0	60%
CLUB VIEW PARTNERS	1,276	894	830	65%	1,724	766	60%
CROSS, SHARON I.	23	17	15	65%	32	14	60%
CROWN CAMBRIA, LLC	90	63	59	65%	122	54	60%
DACOSTA, DEAN EDWARD	56	40	37	65%	77	34	60%
DAHLQUIST, GEORGE R.	524	367	341	65%	708	315	60%
DESERT DAWN MUTUAL WATER COMPANY	15	0	10	65%	10	9	60%
DESERT GIRLZ LLC (FORMERLY: JONES TRUST DATED MARCH 16, 2002)	23	15	15	65%	30	14	60%
DESERT SPRINGS MUTUAL WATER COMPANY	78	55	51	65%	106	47	60%
DOUGLAS, TINA (FORMERLY: BRACHT, WILLIAM F. AND ALEXANDER, ALICIA M.)	50	35	33	65%	68	30	60%
GABRYCH, EUGENE	2,201	1,541	1,431	65%	2,972	1,321	60%
GAETA, MIGUEL AND MARIA	1,500	1,050	975	65%	2,025	900	60%
GAETA, TRINIDAD	512	359	333	65%	692	308	60%
GARDENA MISSION CHURCH, INC.	0	0	0	65%	0	0	60%
GAYJIKIAN, SAMUEL AND HAZEL	102	72	67	65%	139	62	60%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**ESTE SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
GOLDEN STATE WATER COMPANY	178	114	116	65%	230	107	60%
GORDON ACRES WATER COMPANY	54	38	36	65%	74	33	60%
GUBLER, HANS	30	21	20	65%	41	18	60%
HARVEY, LISA M.	300	210	195	65%	405	180	60%
HERT, SCOTT	276	194	180	65%	374	166	60%
HI-GRADE MATERIALS COMPANY	442	310	288	65%	598	266	60%
HITCHIN LUCERNE, INC.	16	11	11	65%	22	10	60%
JONES TRUST DATED MARCH 16, 2002	66	47	43	65%	90	40	60%
JUBILEE MUTUAL WATER COMPANY	142	15	93	65%	108	86	60%
JUNIPER RIVIERA COUNTY WATER DISTRICT	37	0	25	65%	25	23	60%
KIM, JU SANG	30	21	20	65%	41	18	60%
LEE, ANNA K. AND ESHBAN K.	33	24	22	65%	46	20	60%
LEE, DOO HWAN	78	55	51	65%	106	47	60%
LOPEZ, BALTAZAR	385	270	251	65%	521	231	60%
LUA, MICHAEL T. AND DONNA S.	348	244	227	65%	471	209	60%
LUCERNE VALLEY MUTUAL WATER COMPANY	54	38	36	65%	74	33	60%
LUCERNE VALLEY PARTNERS	1,213	850	789	65%	1,639	728	60%
LUCERNE VISTA MUTUAL WATER COMPANY	21	14	14	65%	28	13	60%
M.B. LANDSCAPING AND NURSERY, INC.	1,773	1,242	1,153	65%	2,395	1,064	60%
MITSUBISHI CEMENT CORPORATION	1,395	977	907	65%	1,884	837	60%
MONACO INVESTMENT COMPANY	70	49	46	65%	95	42	60%
MOSS, LAWRENCE W. AND HELEN J.	43	31	28	65%	59	26	60%
NORRIS TRUST, MARY ANN	73	52	48	65%	100	44	60%
OASIS WORLD MISSION	0	0	0	65%	0	0	60%
OMYA CALIFORNIA, INC.	23	0	15	65%	15	14	60%
PAK, KAE SOO AND MYONG HUI KANG	247	173	161	65%	334	149	60%
PETTIGREW, DAN	22	16	15	65%	31	14	60%
REED, MIKE	58	41	38	65%	79	35	60%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**ESTE SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
RHEE, ANDREW N.	70	49	46	65%	95	42	60%
ROBERTSON'S READY MIX	0	0	0	65%	0	0	60%
ROYAL WAY	200	140	130	65%	270	120	60%
S AND E 786 ENTERPRISES, LLC	597	418	389	65%	807	359	60%
SABA FAMILY TRUST DATED JULY 24, 2018	1,120	784	728	65%	1,512	672	60%
SAN BERNARDINO COUNTY SERVICE AREA 29	40	0	26	65%	26	24	60%
SON'S RANCH	140	98	91	65%	189	84	60%
SPECIALTY MINERALS, INC.	52	0	34	65%	34	32	60%
SPILLMAN, JAMES R. AND NANCY J.	23	17	15	65%	32	14	60%
WEST END MUTUAL WATER COMPANY	30	20	20	65%	40	18	60%
WILSHIRE ROAD PARTNERS	692	485	450	65%	935	416	60%
<b>TOTAL</b>	<b>19,251</b>	<b>13,264</b>	<b>12,539</b>		<b>25,803</b>	<b>11,569</b>	



APPENDIX H

FEBRUARY 23, 2022

FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)

OESTE SUBAREA

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
AEROCHEM, INC.	660	429	396	60%	825	363	55%
CHAMISAL MUTUAL WATER COMPANY	96	63	58	60%	121	53	55%
HANDRINOS, NICOLE A.	7	5	5	60%	10	4	55%
HETTINGA REVOCABLE TRUST	1,302	830	782	60%	1,612	717	55%
PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT (SEE NOTE 3)	4,680	3,042	2,808	60%	5,850	2,574	55%
TROEGER FAMILY TRUST, RICHARD H.	112	73	68	60%	141	62	55%
<b>TOTAL</b>	<b>6,857</b>	<b>4,442</b>	<b>4,117</b>		<b>8,559</b>	<b>3,773</b>	



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**ALTO SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
ADELANTO, CITY OF	5,182	0	2,851	55%	2,851	2,851	55%
ADES, JOHN AND DEVON	37	22	21	55%	43	21	55%
AGCON, INC.	384	0	212	55%	212	212	55%
AMERICAN STATES WATER COMPANY	1,000	550	550	55%	1,100	550	55%
APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT	167	19	92	55%	111	92	55%
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	125	0	69	55%	69	69	55%
APPLE VALLEY UNIFIED SCHOOL DISTRICT	0	0	0	55%	0	0	55%
APPLE VALLEY VIEW MUTUAL WATER COMPANY	36	0	20	55%	20	20	55%
APPLE VALLEY, TOWN OF	1,082	88	596	55%	684	596	55%
AQUA CAPITAL MANAGEMENT LP-INDUSTRIAL	0		0	55%		0	55%
BASS TRUST, NEWTON T.	514	330	283	55%	613	283	55%
BASTIANON REVOCABLE TRUST	77	50	43	55%	93	43	55%
BEINSCHROTH FAMILY TRUST	275	177	152	55%	329	152	55%
BEINSCHROTH, ANDY ERIC	250	162	138	55%	300	138	55%
BOX, GEARY S. AND LAURA	22	10	13	55%	23	13	55%
BROWN, BOBBY G. AND VALERIA R.	42	27	24	55%	51	24	55%
BROWN, JENNIFER	41	23	23	55%	46	23	55%
BRUNEAU, KAREN	10	5	6	55%	11	6	55%
BRYANT, IAN	29	19	16	55%	35	16	55%
BUNNELL, DICK	24	14	14	55%	28	14	55%
CALMAT COMPANY	25	10	14	55%	24	14	55%
CALPORTLAND COMPANY - AGRICULTURE	643	418	354	55%	772	354	55%
CALPORTLAND COMPANY - ORO GRANDE PLANT	2,809	610	1,545	55%	2,155	1,545	55%
CDFW - MOJAVE NARROWS REGIONAL PARK	2,107	0	1,159	55%	1,159	1,159	55%
CDFW - MOJAVE RIVER FISH HATCHERY	20	0	11	55%	11	11	55%
CEMEX, INC.	1,499	0	825	55%	825	825	55%
DLW REVOCABLE TRUST	70	46	39	55%	85	39	55%
DOLCH LIVING TRUST ROBERT AND JUDITH	90	59	50	55%	109	50	55%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**ALTO SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
DORA LAND, INC.	15	10	9	55%	19	9	55%
EAST DESERT LAND COMPANY, LLC	0						
EVENSON, EDWIN H. AND JOYCELAINE C.	70	46	39	55%	85	39	55%
FEDERAL BUREAU OF PRISONS, VICTORVILLE	686	0	378	55%	378	378	55%
FINCH, JENIFER	30	20	17	55%	37	17	55%
FISCHER REVOCABLE LIVING TRUST	36	23	20	55%	43	20	55%
FISHER TRUST, JEROME R.	633	412	349	55%	761	349	55%
FITZWATER, R. E. (SEE NOTE 4)	291						
FRAZIER, ET AL.	50	33	28	55%	61	28	55%
GOLDEN STATE WATER COMPANY	940	0	517	55%	517	517	55%
GREEN ACRES ESTATES	25	14	14	55%	28	14	55%
GULBRANSON, MERLIN	5	4	3	55%	7	3	55%
HAAS, BRYAN C. AND HINKLE, MARY H.	9	6	5	55%	11	5	55%
HALANNA EQUITIES III	19	0	11	55%	11	11	55%
HAMILTON FAMILY TRUST	108	50	60	55%	110	60	55%
HELENDALE COMMUNITY SERVICES DISTRICT	4,157	595	2,287	55%	2,882	2,287	55%
HELENDALE SCHOOL DISTRICT	18	10	10	55%	20	10	55%
HESPERIA - GOLF COURSE, CITY OF	678	0	373	55%	373	373	55%
HESPERIA VENTURE I, LLC	0	0	0	55%	0	0	55%
HESPERIA WATER DISTRICT	14,171	0	7,795	55%	7,795	7,795	55%
HESPERIA, CITY OF	6,736	3,705	3,705	55%	7,410	3,705	55%
HI-GRADE MATERIALS COMPANY	149	54	82	55%	136	82	55%
HOLWAY JEFFREY R AND PATRICIA GAGE	8	6	5	55%	11	5	55%
HOLWAY, JEFFREY R	11	8	7	55%	15	7	55%
HOLY HEAVENLY LAKE, LLC	6	4	4	55%	8	4	55%
HUNT, CONNIE	66	43	37	55%	80	37	55%
JAMBOREE HOUSING CORPORATION	0	0	0	55%	0	0	55%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**ALTO SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
JESS RANCH WATER COMPANY	7,230	2,707	3,977	55%	6,684	3,977	55%
JOHNSON, CARLEAN	23	0	13	55%	13	13	55%
JOHNSON, RONALD	31	21	18	55%	39	18	55%
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.	127	78	70	55%	148	70	55%
KANESAKA, KENJI AND YUKARI	0	0	0	55%	0	0	55%
KEMPER CAMPBELL RANCH	473	239	261	55%	500	261	55%
LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT	658	428	362	55%	790	362	55%
LANGLEY, JAMES	5	4	3	55%	7	3	55%
LANGLEY, JAMES - INDUSTRIAL	0	0	0	55%	0	0	55%
LAWSON, ERNEST AND BARBARA	15	9	9	55%	18	9	55%
LENHERT, RONALD AND TONI	37	25	21	55%	46	21	55%
LHC ALLIGATOR, LLC	498	0	274	55%	274	274	55%
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.	13,610	454	7,486	55%	7,940	7,486	55%
LOW, DEAN	199	130	110	55%	240	110	55%
LUCKEY 2010 REVOCABLE TRUST	300	194	165	55%	359	165	55%
MARIANA RANCHOS COUNTY WATER DISTRICT	280	0	154	55%	154	154	55%
MCKINNEY, PAULA	33	22	19	55%	41	19	55%
MLH, LLC	13	6	8	55%	14	8	55%
MOJAVE DESERT LAND TRUST	40	26	22	55%	48	22	55%
MOJAVE WATER AGENCY	0	0	0	55%	0	0	55%
NAVAJO MUTUAL WATER COMPANY	88	49	49	55%	98	49	55%
NUÑEZ, LUIS SEGUNDO	0	0	0	55%	0	0	55%
NUNN FAMILY TRUST	36	23	20	55%	43	20	55%
ORO GRANDE SCHOOL DISTRICT	107	8	59	55%	67	59	55%
PAUSTELL, JOAN BEINSCHROTH	152	99	84	55%	183	84	55%
PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT	355	196	196	55%	392	196	55%
PITTMAN REVOCABLE TRUST, DIANA J.	0		0	55%		0	55%
POLICH, DONNA	65	43	36	55%	79	36	55%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**ALTO SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
RANCHERITOS MUTUAL WATER COMPANY	169	0	93	55%	93	93	55%
RIM PROPERTIES, A GENERAL PARTNERSHIP	9	6	5	55%	11	5	55%
RUE RANCH, INC.	30	19	17	55%	36	17	55%
SAN BERNARDINO COUNTY - HIGH DESERT DETENTION CENTER	0	0	0	55%	0	0	55%
SAN BERNARDINO COUNTY SERVICE AREA 42	465	196	256	55%	452	256	55%
SAN BERNARDINO COUNTY SERVICE AREA 64	3,822	0	2,103	55%	2,103	2,103	55%
SAN BERNARDINO COUNTY SERVICE AREA 70J	1,015	0	559	55%	559	559	55%
SCRAY, MICHELLE A. TRUST	15	9	9	55%	18	9	55%
SERVICE ROCK PRODUCTS CORPORATION	20	11	11	55%	22	11	55%
SHEEP CREEK WATER COMPANY	0	0	0	55%	0	0	55%
SILVER LAKES ASSOCIATION	4,987	0	2,743	55%	2,743	2,743	55%
SNOWBALL DEVELOPMENT, INC.	0	0	0	55%	0	0	55%
SPRING VALLEY LAKE ASSOCIATION	3,768	0	2,073	55%	2,073	2,073	55%
SPRING VALLEY LAKE COUNTRY CLUB	977	0	538	55%	538	538	55%
STORM, RANDALL	62	41	35	55%	76	35	55%
SUDMEIER, GLENN W.	20	12	11	55%	23	11	55%
SUMMIT VALLEY RANCH, LLC	57	13	32	55%	45	32	55%
THOMPSON LIVING TRUST, JAMES A. AND SULA B.	418	270	230	55%	500	230	55%
THOMPSON LIVING TRUST, R.L. AND R.A.	2	2	2	55%	4	2	55%
THRASHER, GARY	373	241	206	55%	447	206	55%
THUNDERBIRD COUNTY WATER DISTRICT	126	0	70	55%	70	70	55%
TRANSAMERICA FIN'L SVC - SPEARS, LARRY B. AND ERLINDA	26	17	15	55%	32	15	55%
VANHOOPS HOLDINGS, LP	360	234	198	55%	432	198	55%
VICTOR VALLEY COMMUNITY COLLEGE DISTRICT	240	0	132	55%	132	132	55%
VICTOR VALLEY MEMORIAL PARK	0	0	0	55%	0	0	55%
VICTORVILLE WATER DISTRICT, ID#1	23,020	0	12,661	55%	12,661	12,661	55%
VICTORVILLE WATER DISTRICT, ID#2	2,932	0	1,613	55%	1,613	1,613	55%
VOGLER, ALBERT H.	62	41	35	55%	76	35	55%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**ALTO SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
WAGNER LIVING TRUST	1,224	796	674	55%	1,470	674	55%
WAKULA FAMILY TRUST	11	7	7	55%	14	7	55%
WARD, KEN AND BARBARA	65	31	36	55%	67	36	55%
WEST, HOWARD AND SUZY	72	47	40	55%	87	40	55%
WEST, JIMMIE E.	10	6	6	55%	12	6	55%
WESTERN WATER COMPANY	15	10	9	55%	19	9	55%
WESTLAND INDUSTRIES, INC.	54	30	30	55%	60	30	55%
WIENER, MELVIN AND MARIAM S.	30	17	17	55%	34	17	55%
WOOD, MICHAEL AND DENISE	0	0	0	55%	0	0	55%
<b>TOTAL</b>	<b>114,308</b>	<b>14,499</b>	<b>62,757</b>		<b>77,256</b>	<b>62,757</b>	



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**CENTRO SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	29	21	19	65%	40	18	60%
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	120	34	78	65%	112	72	60%
BAR-LEN MUTUAL WATER COMPANY	48	34	32	65%	66	29	60%
BARSTOW COMMUNITY DEVELOPERS, LLC	0	0	0	65%	0	0	60%
BEST, BYRON L.	21	15	14	65%	29	13	60%
BROMMER HOUSE TRUST	361	253	235	65%	488	217	60%
CALMAT COMPANY	0	0	0	65%	0	0	60%
CHAFAR, LARRY R. AND DELINDA C.	46	33	30	65%	63	28	60%
CHOI, YONG IL AND JOUNG AE	38	27	25	65%	52	23	60%
CHONG, JOAN	10	0	7	65%	7	6	60%
CHRISTISON, JOEL	75	53	49	65%	102	45	60%
CONTRATTO, ERSULA	151	105	99	65%	204	91	60%
DARR, JAMES S.	408	286	266	65%	552	245	60%
DE VRIES, NEIL AND MARY FAMILY TRUST	3,800	2,660	2,470	65%	5,130	2,280	60%
DORRANCE, DAVID W. AND TAMELA L.	19	0	13	65%	13	12	60%
EYGNOR, ROBERT E.	50	35	33	65%	68	30	60%
FEDERAL NATIONAL MORTGAGE ASSOCIATION - FANNIE MAE	30	21	20	65%	41	18	60%
FOURFREE USA, INC.	42	30	28	65%	58	26	60%
FRATES, D. COLE	13	0	9	65%	9	8	60%
FRIEND, JOSEPH AND DEBORAH	60	42	39	65%	81	36	60%
GABRYCH, EUGENE	132	93	86	65%	179	80	60%
GAINES FAMILY TRUST, JACK AND MARY	92	65	60	65%	125	56	60%
GOLDEN STATE WATER COMPANY	14,407	10,085	9,365	65%	19,450	8,645	60%
GRILL, NICHOLAS P. AND MILLIE D.	0	0	0	65%	0	0	60%
GUTIERREZ, JOSE AND GLORIA	130	91	85	65%	176	78	60%
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH	152	1	99	65%	100	92	60%
HARMSSEN FAMILY TRUST	722	506	470	65%	976	434	60%
HARPER LAKE COMPANY VIII	1,433	1,004	932	65%	1,936	860	60%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**CENTRO SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	CARRYOVER FROM PREVIOUS YEAR	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>			2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
			ACRE-FEET	PERCENTAGE OF BAP	TOTAL	ACRE-FEET	PERCENTAGE OF BAP
HASKINS, JAMES J.	30	21	20	65%	41	18	60%
HELENDALE COMMUNITY SERVICES DISTRICT	219	72	143	65%	215	132	60%
HENSLEY, MARK P.	27	19	18	65%	37	17	60%
HI DESERT MUTUAL WATER COMPANY	34	24	23	65%	47	21	60%
HIGH DESERT ASSOCIATES, INC.	513	360	334	65%	694	308	60%
HI-GRADE MATERIALS COMPANY	0	0	0	65%	0	0	60%
HILL FAMILY TRUST AND HILL'S RANCH, INC.	2,335	1,635	1,518	65%	3,153	1,401	60%
HOWARD, ET AL.	43	31	28	65%	59	26	60%
HUERTA, HECTOR	656	460	427	65%	887	394	60%
JOHNSON, PAUL (FORMERLY: VALENTI, VITO)	17	12	12	65%	24	11	60%
JONES, JOETTE	22	16	15	65%	31	14	60%
JORDAN FAMILY TRUST	460	318	299	65%	617	276	60%
KASNER FAMILY LIMITED PARTNERSHIP	421	295	274	65%	569	253	60%
KIM, JIN S. AND HYUN H.	190	133	124	65%	257	114	60%
LEE, ET AL., SEPOONG AND WOO POONG	77	54	51	65%	105	47	60%
LEYERLY, GENEVA (SEE NOTE 4)	65						
MCCOLLUM, CHARLES L.	115	81	75	65%	156	69	60%
MEAD FAMILY TRUST	115	81	75	65%	156	69	60%
MOJAVE SOLAR, LLC	5,239	3,668	3,406	65%	7,074	3,144	60%
MOST FAMILY TRUST	56	40	37	65%	77	34	60%
ODESSA WATER DISTRICT	299	210	195	65%	405	180	60%
OHAI, REYNOLDS AND DOROTHY	137	96	90	65%	186	83	60%
OSTERKAMP, GEROLD (SEE NOTE 4)	260						
PACIFIC GAS AND ELECTRIC COMPANY	6,580	4,606	4,277	65%	8,883	3,948	60%
RIOS, MARIANO V.	8	6	6	65%	12	5	60%
RIVERO, FIDEL V.	20	14	13	65%	27	12	60%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**CENTRO SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
RUISCH TRUST, DALE W. AND NELLIE H.	650	226	423	65%	649	390	60%
RUISCH, ET AL. (SEE NOTE 4)	862						
SERVICE ROCK PRODUCTS CORPORATION	766	537	498	65%	1,035	460	60%
SEXTON, RODNEY A. AND SEXTON, DEREK R.	232	163	151	65%	314	140	60%
SOPPELAND REVOCABLE TRUST	478	335	311	65%	646	287	60%
SYNAGRO-WWT, INC. (DBA NURSURY PRODUCTS, LLC)	0	0	0	65%	0	0	60%
TALLAKSON FAMILY REVOCABLE TRUST	17	12	12	65%	24	11	60%
VAN DAM REVOCABLE TRUST, E AND S	722	506	470	65%	976	434	60%
VAN LEEUWEN, JOHN	1,465	1,026	953	65%	1,979	879	60%
VERNOLA TRUST, PAT AND MARY ANN	3,116	2,182	2,026	65%	4,208	1,870	60%
VICTORVILLE WATER DISTRICT, ID#1	796	0	518	65%	518	478	60%
WERNER, ANDREW J.	18	0	12	65%	12	11	60%
WESTERN DEVELOPMENT AND STORAGE, LLC	6	0	4	65%	4	4	60%
WITHEY, CONNIE	22	16	15	65%	31	14	60%
<b>TOTAL</b>	<b>49,477</b>	<b>32,749</b>	<b>31,416</b>		<b>64,165</b>	<b>28,996</b>	



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**BAJA SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
35250 YERMO, LLC	24	4	6	22.5%	10	6	22.5%
AHN, CHUN SOO AND WHA JA	50	13	12	22.5%	25	12	22.5%
AKE, CHARLES J. AND MARJORIE M.	23	6	6	22.5%	12	6	22.5%
ARCHIBEK, ERIC	0	0	0	22.5%	0	0	22.5%
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	80	2	18	22.5%	20	18	22.5%
BAILEY 2007 LIVING REVOCABLE TRUST, SHERÉ R.	27	7	7	22.5%	14	7	22.5%
BARBER, JAMES B.	167	42	38	22.5%	80	38	22.5%
BARON, SUSAN AND PALMER, CURTIS	26	7	6	22.5%	13	6	22.5%
BORJA, LEONIL T. AND TITAL L.	20	5	5	22.5%	10	5	22.5%
BREDELIS, RONALD C. AND JEAN	64	6	15	22.5%	21	15	22.5%
BUBIER, DIANE GAIL	54	0	13	22.5%	13	13	22.5%
BUDGET FINANCE COMPANY	32	8	8	22.5%	16	8	22.5%
BUSH, KEVIN	0	0	0	22.5%	0	0	22.5%
CALICO LAKES HOMEOWNERS ASSOCIATION	1,296	324	292	22.5%	616	292	22.5%
CALIFORNIA DEPARTMENT OF TRANSPORTATION	71	18	16	22.5%	34	16	22.5%
CALMAT COMPANY	0	0	0	22.5%	0	0	22.5%
CAMANGA, TONY AND MARIETTA	47	12	11	22.5%	23	11	22.5%
CAMPBELL, M. A. AND DIANNE	22	6	5	22.5%	11	5	22.5%
CARLTON, SUSAN	155	39	35	22.5%	74	35	22.5%
CDFW - CAMP CADY	921	231	208	22.5%	439	208	22.5%
CHEYENNE LAKE, INC.	665	165	150	22.5%	315	150	22.5%
CLARK, ARTHUR	50	13	12	22.5%	25	12	22.5%
CLARK, GARY AND BETH A.	0	0	0	22.5%	0	0	22.5%
CONNER, WILLIAM H.	25	7	6	22.5%	13	6	22.5%
CORBRIDGE, LINDA S.	32	8	8	22.5%	16	8	22.5%
CROSS, FRANCIS AND BEVERLY	40	10	9	22.5%	19	9	22.5%
CRYSTAL LAKES PROPERTY OWNERS ASSOCIATION	844	73	190	22.5%	263	190	22.5%
DAGGETT COMMUNITY SERVICES DISTRICT	504	0	114	22.5%	114	114	22.5%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**BAJA SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
DAGGETT LAND HOLDINGS LLC	0	0	0	22.5%	0	0	22.5%
DAGGETT RANCH, LLC	76	0	18	22.5%	18	18	22.5%
DAGGETT SOLAR POWER 3 LLC (FORMERLY: VANDER DUSSEN TRUST, AGNES AND EDWARD)	179	45	41	22.5%	86	41	22.5%
DE JONG FAMILY TRUST	3,131	170	705	22.5%	875	705	22.5%
DENNISON, QUENTIN D. - CLEGG, FRIZELL AND JOKE	29	8	7	22.5%	15	7	22.5%
DONALDSON, JERRY AND BEVERLY	90	23	21	22.5%	44	21	22.5%
DOWELL, LEONARD	23	6	6	22.5%	12	6	22.5%
EVERT FAMILY TRUST	173	39	39	22.5%	78	39	22.5%
FEJFAR, MONICA KAY	20	5	5	22.5%	10	5	22.5%
FERNANDEZ, ARTURO	76	19	18	22.5%	37	18	22.5%
FERRO, DENNIS AND NORMA	32	8	8	22.5%	16	8	22.5%
FIRST CPA LLC	57	10	13	22.5%	23	13	22.5%
FOOTHILL ESTATES MHP, LLC	54	3	13	22.5%	16	13	22.5%
FUNDAMENTAL CHRISTIAN ENDEAVORS, INC.	425	107	96	22.5%	203	96	22.5%
GABRYCH, EUGENE	1,637	164	369	22.5%	533	369	22.5%
GARCIA, DANIEL	23	6	6	22.5%	12	6	22.5%
GARG, OM P.	483	121	109	22.5%	230	109	22.5%
GENON CALIFORNIA SOUTH, LP	0	260	0	22.5%	260	0	22.5%
GRAY, GEORGE F. AND BETTY E.	94	24	22	22.5%	46	22	22.5%
HACKBARTH, EDWARD E.	1,517	0	342	22.5%	342	342	22.5%
HANSON AGGREGATES WRP, INC.	31	8	7	22.5%	15	7	22.5%
HARESON, NICHOLAS AND MARY	8	2	2	22.5%	4	2	22.5%
HARTER, JOE AND SUE	5,134	899	1,156	22.5%	2,055	1,156	22.5%
HASS, PAULINE L.	35	8	8	22.5%	16	8	22.5%
HENDLEY, RICK AND BARBARA	48	12	11	22.5%	23	11	22.5%
HIETT, HARRY L.	29	8	7	22.5%	15	7	22.5%
HILARIDES 1998 REVOCABLE FAMILY TRUST	303	74	69	22.5%	143	69	22.5%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**BAJA SUBAREA**

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		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
HO, TING-SENG AND AH-GIT	300	75	68	22.5%	143	68	22.5%
HOLLISTER, ROBERT H. AND RUTH M.	44	11	10	22.5%	21	10	22.5%
HONG, PAUL B. AND MAY	85	22	20	22.5%	42	20	22.5%
HOOD FAMILY TRUST	41	11	10	22.5%	21	10	22.5%
HORTON FAMILY TRUST	441	0	100	22.5%	100	100	22.5%
HUBBARD, ESTER AND MIZUNO, ARLEAN	28	7	7	22.5%	14	7	22.5%
HUNT, RALPH M. AND LILLIAN F.	51	13	12	22.5%	25	12	22.5%
HYATT, JAMES AND BRENDA	210	37	48	22.5%	85	48	22.5%
IM, NICHOLAS NAK-KYUN	397	100	90	22.5%	190	90	22.5%
IRVIN, BERTRAND W.	29	8	7	22.5%	15	7	22.5%
ITALMOOD INC., ET. AL.	190	48	43	22.5%	91	43	22.5%
JACKS, JAMES F.	10	3	3	22.5%	6	3	22.5%
JACKSON, JAMES N. JR REVOCABLE LIVING TRUST	54	14	13	22.5%	27	13	22.5%
JACKSON, RAY REVOCABLE TRUST NO. 45801	1	1	1	22.5%	2	1	22.5%
KARIMI, HOOSHANG	70	18	16	22.5%	34	16	22.5%
KASNER FAMILY LIMITED PARTNERSHIP	843	159	190	22.5%	349	190	22.5%
KASNER, ROBERT	5,613	195	1,263	22.5%	1,458	1,263	22.5%
KATCHER, AUGUST M. AND MARCELINE	23	6	6	22.5%	12	6	22.5%
KEMP, ROBERT AND ROSE	32	8	8	22.5%	16	8	22.5%
KIM, JOON HO AND MAL BOON REVOCABLE TRUST	764	191	172	22.5%	363	172	22.5%
KIM, SEON JA	50	13	12	22.5%	25	12	22.5%
KOERING, RICHARD AND KOERING, DONNA	20	5	5	22.5%	10	5	22.5%
KOSHAREK, JOHN AND JOANN	54	14	13	22.5%	27	13	22.5%
LAKE JODIE PROPERTY OWNERS ASSOCIATION	454	0	103	22.5%	103	103	22.5%
LAKE WAIKIKI	98	25	23	22.5%	48	23	22.5%
LAKE WAINANI OWNERS ASSOCIATION	1,725	732	389	22.5%	1,121	389	22.5%
LAM, PHILLIP	105	27	24	22.5%	51	24	22.5%
LANGLEY, MICHAEL R. AND SHARON	20	3	5	22.5%	8	5	22.5%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**BAJA SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
LAVANH, ET AL.	24	6	6	22.5%	12	6	22.5%
LAWRENCE, WILLIAM W.	45	12	11	22.5%	23	11	22.5%
LEE, VIN JANG T.	630	158	142	22.5%	300	142	22.5%
LEM, HOY	32	8	8	22.5%	16	8	22.5%
LIANG, YUAN - I AND TZU - MEI CHEN	200	50	45	22.5%	95	45	22.5%
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.	453	114	102	22.5%	216	102	22.5%
LIN, KUAN JUNG AND CHUNG, DER-BING	451	0	102	22.5%	102	102	22.5%
LO, ET AL.	59	0	14	22.5%	14	14	22.5%
M BIRD CONSTRUCTION	41	11	10	22.5%	21	10	22.5%
MAHJOUBI, AFSAR S.	63	16	15	22.5%	31	15	22.5%
MALONEY, JANICE	36	9	9	22.5%	18	9	22.5%
MANNING, SHARON S.	63	16	15	22.5%	31	15	22.5%
MARCROFT, JAMES A. AND JOAN	38	0	9	22.5%	9	9	22.5%
MARSHALL, CHARLES	20	5	5	22.5%	10	5	22.5%
MARTIN, MICHAEL D. AND ARLENE D.	63	16	15	22.5%	31	15	22.5%
MILBRAT, IRVING H.	73	8	17	22.5%	25	17	22.5%
MILLER LIVING TRUST	18	5	5	22.5%	10	5	22.5%
MIZRAHIE, ET AL.	145	37	33	22.5%	70	33	22.5%
MOJAVE WATER AGENCY	7,194	1,199	1,619	22.5%	2,818	1,619	22.5%
MORRIS TRUST, JULIA V.	304	75	69	22.5%	144	69	22.5%
MULLIGAN, ROBERT AND INEZ	35	9	8	22.5%	17	8	22.5%
MURPHY, JEAN	24	6	6	22.5%	12	6	22.5%
MUSIC, ZAJO	15	0	4	22.5%	4	4	22.5%
NEW SPRINGS LIMITED PARTNERSHIP	2,329	483	525	22.5%	1,008	525	22.5%
NEWBERRY COMMUNITY SERVICES DISTRICT	23	0	6	22.5%	6	6	22.5%
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	1	0	1	22.5%	1	1	22.5%
NSSLIC, INC.	109	28	25	22.5%	53	25	22.5%
O. F. D. L., INC.	443	133	100	22.5%	233	100	22.5%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**BAJA SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
P AND H ENGINEERING AND DEVELOPMENT CORPORATION	667	167	151	22.5%	318	151	22.5%
PATINO, JOSÉ	22	6	5	22.5%	11	5	22.5%
PEARCE, CRAIG L.	150	35	34	22.5%	69	34	22.5%
PERKO, BERT K.	132	33	30	22.5%	63	30	22.5%
POLAND, JOHN R. AND KATHLEEN A.	92	23	21	22.5%	44	21	22.5%
PORTER, TIMOTHY M.	30	8	7	22.5%	15	7	22.5%
PRECISION INVESTMENTS SERVICES, LLC	845	212	191	22.5%	403	191	22.5%
PRICE, DONALD AND RUTH	42	11	10	22.5%	21	10	22.5%
PRUETT, ANDREA	36	9	9	22.5%	18	9	22.5%
QUAKENBUSH, SAMUEL R.	19	5	5	22.5%	10	5	22.5%
QUIROS, FRANCISCO J. AND HERRMANN, RONALD	38	9	9	22.5%	18	9	22.5%
RICE, HENRY C. AND DIANA	24	6	6	22.5%	12	6	22.5%
RIZVI, S.R ALI	27	7	7	22.5%	14	7	22.5%
ROSSI, JAMES L. AND NAOMI I.	614	0	139	22.5%	139	139	22.5%
S AND B BROTHERS, LLC	221	0	50	22.5%	50	50	22.5%
SAGABEAN-BARKER, KANOELOKELANI L.	34	2	8	22.5%	10	8	22.5%
SAMPLES, BERNARD D. AND JANICE E.	43	11	10	22.5%	21	10	22.5%
SAMRA, JAGTAR S.	30	8	7	22.5%	15	7	22.5%
SAN BERNARDINO CO BARSTOW - DAGGETT AIRPORT	168	42	38	22.5%	80	38	22.5%
SERVICE ROCK PRODUCTS CORPORATION	0	0	0	22.5%	0	0	22.5%
SHENG, JEN	33	9	8	22.5%	17	8	22.5%
SHEPPARD, THOMAS AND GLORIA	217	55	49	22.5%	104	49	22.5%
SHORT, JEROME E.	30	0	7	22.5%	7	7	22.5%
SINGH, ET AL.	31	6	7	22.5%	13	7	22.5%
SMITH, DENISE DBA AMEREQUINE BEAUTY, INC	0	0	0	22.5%	0	0	22.5%
SMITH, PORTER AND ANITA	25	7	6	22.5%	13	6	22.5%
SOUTHERN CALIFORNIA EDISON COMPANY	600	150	135	22.5%	285	135	22.5%
SOUTHERN CALIFORNIA GAS COMPANY	98	25	23	22.5%	48	23	22.5%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**BAJA SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
SPERRY, WESLEY	4	1	1	22.5%	2	1	22.5%
ST. ANTONY COPTIC ORTHODOX MONASTERY	130	33	30	22.5%	63	30	22.5%
STARKE, GEORGE A. AND JAYNE E.	23	6	6	22.5%	12	6	22.5%
SUNDOWN LAKES, INC.	523	143	118	22.5%	261	118	22.5%
SUNRAY LAND COMPANY, LLC	63	16	15	22.5%	31	15	22.5%
SZYNKOWSKI, RUTH J.	29	8	7	22.5%	15	7	22.5%
TAPIE, RAYMOND L.	18	5	5	22.5%	10	5	22.5%
TEISAN, JERRY	96	24	22	22.5%	46	22	22.5%
THAYER, SHARON	97	10	22	22.5%	32	22	22.5%
THOMAS, STEPHEN AND LORI	49	13	12	22.5%	25	12	22.5%
TRIPLE H PARTNERSHIP	218	44	50	22.5%	94	50	22.5%
TURNER, TERRY	30	8	7	22.5%	15	7	22.5%
UNION PACIFIC RAILROAD COMPANY	249	63	57	22.5%	120	57	22.5%
VACA, ANDY AND TERESITA S.	20	5	5	22.5%	10	5	22.5%
VAN BASTELAAR, ALPHONSE	78	0	18	22.5%	18	18	22.5%
VAN DAM FAMILY TRUST, GLEN AND JENNIFER	8,128	990	1,829	22.5%	2,819	1,829	22.5%
VAN LEEUWEN, JOHN	2,018	459	455	22.5%	914	455	22.5%
VANDER DUSSEN TRUST, AGNES AND EDWARD	1,613	404	363	22.5%	767	363	22.5%
WANG, STEVEN	10	3	3	22.5%	6	3	22.5%
WARD, RAYMOND	105	27	24	22.5%	51	24	22.5%
WEEMS, LIZZIE	53	14	12	22.5%	26	12	22.5%
WEERAISINGHE, MAITHRI N.	15	4	4	22.5%	8	4	22.5%
WESTERN HORIZON ASSOCIATES, INC.	1,363	0	307	22.5%	307	307	22.5%
WET SET, INC.	547	129	124	22.5%	253	124	22.5%
WITTE, E. DANIEL AND MARCIA	27	7	7	22.5%	14	7	22.5%
WLSR, INC.	471	134	106	22.5%	240	106	22.5%
WORSEY, JOSEPH A. AND REVAE	29	8	7	22.5%	15	7	22.5%



**APPENDIX H**

FEBRUARY 23, 2022

**FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2021-22  
AND  
PROPOSED FREE PRODUCTION ALLOWANCE FOR WATER YEAR 2022-23  
(ALL AMOUNTS IN ACRE-FEET)**

**BAJA SUBAREA**

PRODUCER	BASE ANNUAL PRODUCTION	2021-22 FREE PRODUCTION ALLOWANCE <sup>1</sup>				2022-23 FREE PRODUCTION ALLOWANCE <sup>2</sup>	
		CARRYOVER FROM PREVIOUS YEAR	FREE PRODUCTION ALLOWANCE		TOTAL	ACRE-FEET	PERCENTAGE OF BAP
			ACRE-FEET	PERCENTAGE OF BAP			
YANG, ZILAN (FORMERLY: KOEGLER, RONALD R. AND CAROLYN V.)	26	3	6	22.5%	9	6	22.5%
<b>TOTAL</b>	<b>63,929</b>	<b>10,592</b>	<b>14,469</b>		<b>25,061</b>	<b>14,469</b>	



## NOTES FOR APPENDIX H

- 1 FREE PRODUCTION ALLOWANCE IS EQUAL TO 65% OF BASE ANNUAL PRODUCTION FOR THE ESTE AND CENTRO SUBAREAS, 60% OF BASE ANNUAL PRODUCTION FOR THE OESTE SUBAREA, 22.5% OF BASE ANNUAL PRODUCTION FOR THE BAJA SUBAREA AND 55% OF BASE ANNUAL PRODUCTION FOR THE ALTO SUBAREA FOR 2021-22 BASED ON THE COURT ORDER DATED JUNE 4, 2021.
- 2 FREE PRODUCTION ALLOWANCE FOR 2022-23 (SUBJECT TO COURT APPROVAL).  
  
ESTE SUBAREA: FREE PRODUCTION ALLOWANCE IS EQUAL 60% OF BASE ANNUAL PRODUCTION FOR THE 2022-23 WATER YEAR.  
  
OESTE SUBAREA: FREE PRODUCTION ALLOWANCE IS EQUAL 55% OF BASE ANNUAL PRODUCTION FOR THE 2022-23 WATER YEAR.  
  
ALTO SUBAREA: FREE PRODUCTION ALLOWANCE IS EQUAL 55% OF BASE ANNUAL PRODUCTION FOR THE 2022-23 WATER YEAR.  
  
CENTRO SUBAREA: FREE PRODUCTION ALLOWANCE IS EQUAL 60% OF BASE ANNUAL PRODUCTION FOR THE 2022-23 WATER YEAR.  
  
BAJA SUBAREA: FREE PRODUCTION ALLOWANCE IS EQUAL 22.5% OF BASE ANNUAL PRODUCTION FOR THE 2022-23 WATER YEAR.
- 3 PHELAN PIÑON HILLS CSD'S WELL #14 IS NOT INCLUDED IN THE TOTAL VERIFIED PRODUCTION. THE MATTER OF PUMPING FROM WELL #14, LOCATED IN LA COUNTY, IS STILL UNRESOLVED AND MAY AFFECT FUTURE OBLIGATIONS UNDER THE JUDGMENT.
- 4 APPELLANTS NOT SUBJECT TO THE JUDGMENT AFTER TRIAL PURSUANT TO SUPREME COURT DECISION DATED AUGUST 21, 2000. THE AGGREGATE BASE ANNUAL PRODUCTION OF THESE PARTIES WAS DETERMINED PRIOR TO TRIAL AND CONSISTS OF 291 ACRE FEET IN THE ALTO SUBAREA AND 1,187 ACRE FEET IN THE CENTRO SUBAREA.
- 5 CARRYOVER SHOWN FOR GENON CALIFORNIA SOUTH, LP IS NOT TRANSFERRABLE PURSUANT TO THE PURCHASE AND SALE AGREEMENT WITH MOJAVE WATER AGENCY DATED SEPTEMBER 12, 2019.



**APPENDIX I**

**AMENDED APPENDIX B FOR WATER YEAR 2019-20**

**RECONCILED FOR CARRYOVER TRANSFERS IN LIEU OF**

**PAYMENT OF REPLACEMENT AND MAKEUP WATER ASSESSMENTS**

**AND ALL OTHER ERRATA**



**AMENDED APPENDIX B FOR WATER YEAR 2019-20  
RECONCILED FOR CARRYOVER TRANSFERS IN LIEU OF PAYMENT OF REPLACEMENT AND MAKEUP WATER ASSESSMENTS  
AND ALL OTHER ERRATA**

(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

**ESTE SUBAREA**

PRODUCER	2019-20 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2021 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2019-20 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$604.00/AF	MAKEUP WATER N/A	TOTAL
				2018-19 CARRYOVER <sup>3</sup>	2019-20 FPA <sup>4</sup>									
ABDUL, HARRY AND ANITA	194	146	156	0	0	302	118	146	0	118	0.00	0.00	0.00	0.00
ABSHIRE, DAVID V.	24	18	2	0	0	20	18	2	0	18	0.00	0.00	0.00	0.00
AHN REVOCABLE LIVING TRUST	0	0	0	0	63	63	63	0	0	0	0.00	0.00	0.00	0.00
AHN REVOCABLE TRUST	28	21	23	0	0	44	16	21	0	16	0.00	0.00	0.00	0.00
AHN, CHUN SOO AND DAVID	400	300	320	(138)	(135)	347	0	165	0	0	0.00	0.00	0.00	0.00
AMERICA UNITED DEVELOPMENT, LLC (FORMERLY: PETTIGREW, JAMES AND CHERLYN)	500	375	0	400	0	775	0	375	0	0	0.00	0.00	0.00	0.00
ANDERSON, ROSS C. AND BETTY J.	34	26	28	0	0	54	0	26	0	0	0.00	0.00	0.00	0.00
AVILA, ANGEL AND EVALIA	573	430	459	0	0	889	237	430	0	237	0.00	0.00	0.00	0.00
BAR H MUTUAL WATER COMPANY	53	40	43	0	0	83	23	40	0	23	0.00	0.00	0.00	0.00
BELL, CHARLES H. TRUST DATED MARCH 7, 2014	494	371	396	0	0	767	346	371	0	346	0.00	0.00	0.00	0.00
BRACHT, WILLIAM F. AND ALEXANDER, ALICIA M.	50	38	13	0	0	51	27	24	0	27	0.00	0.00	0.00	0.00
CASA COLINA FOUNDATION	90	68	72	0	0	140	50	68	0	50	0.00	0.00	0.00	0.00
CENTER WATER COMPANY	40	30	32	0	0	62	21	30	0	21	0.00	0.00	0.00	0.00
CHUNG, ET AL.	0	0	0	0	38	38	38	0	0	0	0.00	0.00	0.00	0.00
CLUB VIEW PARTNERS	1,276	957	1,021	(9)	(22)	1,947	0	935	0	0	0.00	0.00	0.00	0.00
CROSS, SHARON I.	23	18	19	0	0	37	1	18	0	1	0.00	0.00	0.00	0.00
CROWN CAMBRIA, LLC (FORMERLY: WEISER, ET AL.)	90	68	0	0	0	68	4	64	0	4	0.00	0.00	0.00	0.00
DACOSTA, DEAN EDWARD	56	42	45	0	0	87	1	42	0	1	0.00	0.00	0.00	0.00
DAHLQUIST, GEORGE R.	524	393	420	0	0	813	0	393	0	0	0.00	0.00	0.00	0.00
DESERT DAWN MUTUAL WATER COMPANY	15	12	0	0	8	20	20	0	0	12	0.00	0.00	0.00	0.00
DESERT SPRINGS MUTUAL WATER COMPANY	78	59	63	0	0	122	40	59	0	40	0.00	0.00	0.00	0.00
GABRYCH, EUGENE	2,201	1,651	1,761	0	0	3,412	0	1,651	0	0	0.00	0.00	0.00	0.00
GAETA, MIGUEL AND MARIA	1,500	1,125	1,200	(15)	0	2,310	80	1,125	0	80	0.00	0.00	0.00	0.00
GAETA, TRINIDAD (SEE NOTE 15)	512	384	410	0	0	794	296	384	0	296	0.00	0.00	0.00	0.00
GARDENA MISSION CHURCH, INC.	0	0	0	0	1	1	1	0	0	0	0.00	0.00	0.00	0.00
GAYJIKIAN, SAMUEL AND HAZEL	102	77	82	0	0	159	1	77	0	1	0.00	0.00	0.00	0.00
GOLDEN STATE WATER COMPANY	178	134	143	0	0	277	151	126	0	151	0.00	0.00	0.00	0.00
GORDON ACRES WATER COMPANY	54	41	44	0	0	85	21	41	0	21	0.00	0.00	0.00	0.00
GUBLER, HANS	30	23	24	0	0	47	10	23	0	10	0.00	0.00	0.00	0.00
HARVEY, LISA M.	300	225	240	0	0	465	4	225	0	4	0.00	0.00	0.00	0.00
HERT, SCOTT	276	207	218	0	0	425	213	207	0	213	0.00	0.00	0.00	0.00
HI-GRADE MATERIALS COMPANY	442	332	354	0	0	686	193	332	0	193	0.00	0.00	0.00	0.00
HITCHIN LUCERNE, INC.	16	12	13	0	0	25	11	12	0	11	0.00	0.00	0.00	0.00
JONES TRUST DATED MARCH 16, 2002	89	67	72	0	0	139	21	67	0	21	0.00	0.00	0.00	0.00



**AMENDED APPENDIX B FOR WATER YEAR 2019-20  
RECONCILED FOR CARRYOVER TRANSFERS IN LIEU OF PAYMENT OF REPLACEMENT AND MAKEUP WATER ASSESSMENTS  
AND ALL OTHER ERRATA**

(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

**ESTE SUBAREA**

PRODUCER	2019-20 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2021 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2019-20 VERIFIED PRODUCTION <sup>6</sup>	UNUSED <sup>7</sup> FPA	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$604.00/AF	MAKEUP WATER N/A	TOTAL
				2018-19 CARRYOVER <sup>3</sup>	2019-20 FPA <sup>4</sup>									
JUBILEE MUTUAL WATER COMPANY	142	107	50	0	0	157	117	40	0	117	0.00	0.00	0.00	0.00
JUNIPER RIVIERA COUNTY WATER DISTRICT	37	28	0	0	42	70	70	0	0	28	0.00	0.00	0.00	0.00
KIM, JU SANG	30	23	24	0	0	47	1	23	0	1	0.00	0.00	0.00	0.00
LEE, ANNA K. AND ESHBAN K.	33	25	27	0	0	52	0	25	0	0	0.00	0.00	0.00	0.00
LEE, DOO HWAN	78	59	63	0	0	122	0	59	0	0	0.00	0.00	0.00	0.00
LOPEZ, BALTAZAR	385	289	308	0	0	597	1	289	0	1	0.00	0.00	0.00	0.00
LUA, MICHAEL T. AND DONNA S.	348	261	279	0	0	540	0	261	0	0	0.00	0.00	0.00	0.00
LUCERNE VALLEY MUTUAL WATER COMPANY	54	41	44	0	0	85	37	41	0	37	0.00	0.00	0.00	0.00
LUCERNE VALLEY PARTNERS	1,213	910	971	0	0	1,881	0	910	0	0	0.00	0.00	0.00	0.00
LUCERNE VISTA MUTUAL WATER COMPANY	21	16	16	0	0	32	17	15	0	17	0.00	0.00	0.00	0.00
M.B. LANDSCAPING AND NURSERY, INC.	1,773	1,330	1,419	0	0	2,749	1,037	1,330	0	1,037	0.00	0.00	0.00	0.00
MITSUBISHI CEMENT CORPORATION	1,395	1,047	1,116	(172)	(239)	1,752	330	808	0	330	0.00	0.00	0.00	0.00
MONACO INVESTMENT COMPANY	70	53	56	0	0	109	0	53	0	0	0.00	0.00	0.00	0.00
MOSS, LAWRENCE W. AND HELEN J.	43	33	34	0	0	67	31	33	0	31	0.00	0.00	0.00	0.00
NORRIS TRUST, MARY ANN	73	55	59	0	0	114	1	55	0	1	0.00	0.00	0.00	0.00
OASIS WORLD MISSION	0	0	0	0	71	71	71	0	0	0	0.00	0.00	0.00	0.00
OMYA CALIFORNIA, INC.	23	18	0	0	25	43	43	0	0	18	0.00	0.00	0.00	0.00
PAK, KAE SOO AND MYONG HUI KANG	247	186	198	(34)	(38)	312	16	148	0	16	0.00	0.00	0.00	0.00
PETTIGREW, DAN	22	17	18	0	0	35	0	17	0	0	0.00	0.00	0.00	0.00
PETTIGREW, JAMES AND CHERLYN	0	0	400	(400)	0	0	0	0	0	0	0.00	0.00	0.00	0.00
REED, MIKE	58	44	47	0	0	91	1	44	0	1	0.00	0.00	0.00	0.00
RHEE, ANDREW N.	70	53	33	0	0	86	23	53	0	23	0.00	0.00	0.00	0.00
ROBERTSON'S READY MIX	0	0	0	0	155	155	155	0	0	0	0.00	0.00	0.00	0.00
ROYAL WAY	200	150	160	0	0	310	61	150	0	61	0.00	0.00	0.00	0.00
S AND E 786 ENTERPRISES, LLC	597	448	478	0	0	926	0	448	0	0	0.00	0.00	0.00	0.00
SABA FAMILY TRUST DATED JULY 24, 2018	1,120	840	896	0	0	1,736	0	840	0	0	0.00	0.00	0.00	0.00
SAN BERNARDINO COUNTY SERVICE AREA 29	40	30	0	0	22	52	52	0	0	30	0.00	0.00	0.00	0.00
SON'S RANCH	140	105	112	0	0	217	69	105	0	69	0.00	0.00	0.00	0.00
SPECIALTY MINERALS, INC.	42	32	0	0	17	49	49	0	0	32	0.00	0.00	0.00	0.00
SPILLMAN, JAMES R. AND NANCY J.	23	18	19	0	0	37	5	18	0	5	0.00	0.00	0.00	0.00
THE CUSHENBURY TRUST, C/O SPECIALTY MINERALS, INC.	10	8	8	0	0	16	0	8	0	0	0.00	0.00	0.00	0.00
WEST END MUTUAL WATER COMPANY	30	23	22	(8)	(8)	29	15	14	0	15	0.00	0.00	0.00	0.00
WILSHIRE ROAD PARTNERS	692	519	554	0	0	1,073	0	519	0	0	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>19,251</b>	<b>14,458</b>	<b>15,084</b>	<b>(376)</b>	<b>0</b>	<b>29,166</b>	<b>4,227</b>	<b>13,785</b>	<b>0</b>	<b>3,785</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



AMENDED APPENDIX B FOR WATER YEAR 2019-20  
RECONCILED FOR CARRYOVER TRANSFERS IN LIEU OF PAYMENT OF REPLACEMENT AND MAKEUP WATER ASSESSMENTS  
AND ALL OTHER ERRATA

(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

OESTE SUBAREA

PRODUCER	2019-20 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2021 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2019-20 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$604.00/AF	MAKEUP WATER N/A	TOTAL
				2018-19	2019-20									
				CARRYOVER <sup>3</sup>	FPA <sup>4</sup>									
AEROCHEM, INC.	660	495	528	0	0	1,023	8	495	0	8	0.00	0.00	0.00	0.00
BROWN, SUE	0	0	37	(37)	0	0	0	0	0	0	0.00	0.00	0.00	0.00
CHAMISAL MUTUAL WATER COMPANY	96	72	52	0	0	124	30	72	0	30	0.00	0.00	0.00	0.00
HANDRINOS, NICOLE A.	7	6	6	0	0	12	1	6	0	1	0.00	0.00	0.00	0.00
HETTINGA REVOCABLE TRUST	1,302	977	440	37	0	1,454	871	583	0	871	0.00	0.00	0.00	0.00
PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT (SEE NOTE 10)	4,680	3,510	3,744	0	0	7,254	2,525	3,510	0	2,525	0.00	0.00	0.00	0.00
TROEGER FAMILY TRUST, RICHARD H.	112	84	90	0	0	174	4	84	0	4	0.00	0.00	0.00	0.00
TOTAL	6,857	5,144	4,897	0	0	10,041	3,439	4,750	0	3,439	0.00	0.00	0.00	0.00



APPENDIX I

FEBRUARY 23, 2022

AMENDED APPENDIX B FOR WATER YEAR 2019-20  
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ALTO SUBAREA

PRODUCER	2019-20 FREE PRODUCTION ALLOWANCE						PRODUCTION						ASSESSMENTS DUE BY JULY 1, 2021 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2019-20 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$604.00/AF	MAKEUP WATER \$604.00/AF	TOTAL	
				2018-19	2019-20										
				CARRYOVER <sup>3</sup>	FPA <sup>4</sup>										
ADELANTO, CITY OF	5,182	2,851	0	73	810	3,734	3,734	0	0	2,924	0.00	0.00	0.00	0.00	
ADES, JOHN AND DEVON	37	28	25	(25)	(24)	4	4	0	0	4	0.00	0.00	0.00	0.00	
AGCON, INC.	384	212	0	0	93	305	305	0	0	212	0.00	0.00	0.00	0.00	
AMERICAN STATES WATER COMPANY	1,000	550	600	(600)	(550)	0	0	0	0	0	0.00	0.00	0.00	0.00	
APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT	167	92	30	0	0	122	85	37	0	85	0.00	0.00	0.00	0.00	
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	125	69	3	18	13	103	103	0	0	90	0.00	0.00	0.00	0.00	
APPLE VALLEY UNIFIED SCHOOL DISTRICT	0	0	0	0	47	47	47	0	0	0	0.00	0.00	0.00	0.00	
APPLE VALLEY VIEW MUTUAL WATER COMPANY	36	20	0	0	5	25	25	0	0	20	0.00	0.00	0.00	0.00	
APPLE VALLEY, TOWN OF	1,082	596	650	0	(596)	650	434	0	0	434	0.00	0.00	0.00	0.00	
BASS TRUST, NEWTON T.	514	386	409	(409)	(382)	4	4	0	0	4	0.00	0.00	0.00	0.00	
BASTIANON REVOCABLE TRUST	77	58	61	(61)	(57)	1	1	0	0	1	0.04	0.00	24.16	24.16	
BEEBE, DOROTHEY K.	0	0	5	(5)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
BEINSCHROTH FAMILY TRUST	275	207	20	(20)	(204)	3	3	0	0	3	0.00	0.00	0.00	0.00	
BEINSCHROTH, ANDY ERIC	250	188	0	0	(187)	1	1	0	0	1	0.04	0.00	24.16	24.16	
BOX, GEARY S. AND LAURA	22	17	13	(13)	0	17	6	11	0	6	0.00	0.00	0.00	0.00	
BROWN, BOBBY G. AND VALERIA R.	42	32	33	(33)	(31)	1	1	0	0	1	0.04	0.00	24.16	24.16	
BROWN, JENNIFER	41	31	27	(27)	(26)	5	5	0	0	5	0.00	0.00	0.00	0.00	
BRUNEAU, KAREN	10	8	8	0	(8)	8	2	0	0	2	0.09	0.00	54.36	54.36	
BRYANT, IAN	29	22	24	(24)	(22)	0	0	0	0	0	0.00	0.00	0.00	0.00	
BUNNELL, DICK	24	18	18	(18)	(16)	2	2	0	0	2	0.09	0.00	54.36	54.36	
CALMAT COMPANY	25	14	11	(11)	0	14	4	10	0	4	0.00	0.00	0.00	0.00	
CALPORTLAND COMPANY - AGRICULTURE	643	483	515	(515)	0	483	0	483	0	0	0.00	0.00	0.00	0.00	
CALPORTLAND COMPANY - ORO GRANDE PLANT	2,809	1,545	1,088	(1,088)	0	1,545	961	584	0	961	0.00	0.00	0.00	0.00	
CDFW - MOJAVE NARROWS REGIONAL PARK	2,107	1,159	0	0	575	1,734	1,734	0	0	1,159	0.00	0.00	0.00	0.00	
CDFW - MOJAVE RIVER FISH HATCHERY (SEE NOTE 11)	20	15	0	0	0	15	20	0	0	0	0.00	0.00	0.00	0.00	
CEMEX, INC.	1,499	825	0	0	312	1,137	1,371	0	234	825	0.00	141,336.00	0.00	141,336.00	
DLW REVOCABLE TRUST	70	53	56	(56)	(53)	0	0	0	0	0	0.00	0.00	0.00	0.00	
DOLCH LIVING TRUST ROBERT AND JUDITH	90	68	76	(76)	(67)	1	1	0	0	1	0.04	0.00	24.16	24.16	
DORA LAND, INC.	15	12	12	(12)	(12)	0	0	0	0	0	0.00	0.00	0.00	0.00	
EAST DESERT LAND COMPANY, LLC (SEE NOTE 12)	0						1,267								
EVENSON, EDWIN H. AND JOYCELAINE C.	70	53	56	0	0	109	1	53	0	1	0.04	0.00	24.16	24.16	
FEDERAL BUREAU OF PRISONS, VICTORVILLE	686	378	0	0	(378)	0	0	0	0	0	0.00	0.00	0.00	0.00	
FINCH, JENIFER	30	23	24	(24)	(23)	0	0	0	0	0	0.00	0.00	0.00	0.00	
FISCHER REVOCABLE LIVING TRUST	36	27	28	(28)	(26)	1	1	0	0	1	0.04	0.00	24.16	24.16	
FISHER TRUST, JEROME R.	633	475	507	(507)	(475)	0	0	0	0	0	0.00	0.00	0.00	0.00	



## APPENDIX I

FEBRUARY 23, 2022

**AMENDED APPENDIX B FOR WATER YEAR 2019-20  
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AND ALL OTHER ERRATA**

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				2018-19 CARRYOVER <sup>3</sup>	2019-20 FPA <sup>4</sup>									
FITZWATER, R. E. (SEE NOTE 12)	291						1							
FRAZIER, ET AL.	50	38	40	(40)	(38)	0	0	0	0	0	0.00	0.00	0.00	0.00
GOLDEN STATE WATER COMPANY	940	517	0	0	417	934	934	0	0	517	0.00	0.00	0.00	0.00
GREEN ACRES ESTATES	25	14	15	0	0	29	8	14	0	8	0.34	0.00	205.36	205.36
GULBRANSON, MERLIN	5	4	4	0	0	8	0	4	0	0	0.00	0.00	0.00	0.00
HAAS, BRYAN C. AND HINKLE, MARY H.	9	7	8	(8)	(7)	0	0	0	0	0	0.00	0.00	0.00	0.00
HALANNA EQUITIES III	19	15	12	(12)	(6)	9	9	0	0	9	0.00	0.00	0.00	0.00
HAMILTON FAMILY TRUST	108	81	72	(72)	0	81	16	65	0	16	0.69	0.00	416.76	416.76
HELENDALE COMMUNITY SERVICES DISTRICT	4,009	2,045	1,041	(1,041)	(744)	1,301	1,555	(94)	0	1,555	0.00	0.00	0.00	0.00
HELENDALE SCHOOL DISTRICT	18	10	11	0	0	21	1	10	0	1	0.04	0.00	24.16	24.16
HESPERIA - GOLF COURSE, CITY OF	678	373	0	0	200	573	573	0	0	373	0.00	0.00	0.00	0.00
HESPERIA VENTURE I, LLC	0	0	0	0	0	0	1	0	1	0	0.00	604.00	0.00	604.00
HESPERIA WATER DISTRICT	14,171	7,795	0	267	3,820	11,882	13,957	0	2,075	8,336	0.00	1,253,300.00	0.00	1,253,300.00
HESPERIA, CITY OF	6,736	3,705	4,042	(4,042)	(3,705)	0	0	0	0	0	0.00	0.00	0.00	0.00
HI-GRADE MATERIALS COMPANY	149	82	72	(72)	(60)	22	22	0	0	22	0.00	0.00	0.00	0.00
HOLWAY JEFFREY R AND PATRICIA GAGE	8	6	7	(7)	(6)	0	0	0	0	0	0.00	0.00	0.00	0.00
HOLWAY, JEFFREY R	11	9	9	(9)	(9)	0	0	0	0	0	0.00	0.00	0.00	0.00
HOLY HEAVENLY LAKE, LLC (FORMERLY: BEEBE, DOROTHEY K.)	6	5	0	0	0	5	0	5	0	0	0.00	0.00	0.00	0.00
HUNT, CONNIE	66	50	53	(53)	0	50	0	50	0	0	0.00	0.00	0.00	0.00
JAMBOREE HOUSING CORPORATION	0	0	0	53	0	53	41	0	0	41	1.76	0.00	1,063.04	1,063.04
JESS RANCH WATER COMPANY	7,230	3,977	3,354	(3,354)	(2,593)	1,384	1,384	0	0	1,384	0.00	0.00	0.00	0.00
JOHNSON, CARLEAN	23	18	0	0	8	26	26	0	0	26	0.00	0.00	0.00	0.00
JOHNSON, RONALD	31	24	25	(25)	0	24	0	24	0	0	0.00	0.00	0.00	0.00
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.	127	96	99	(99)	(8)	88	6	82	0	6	0.26	0.00	157.04	157.04
KANESAKA, KENJI AND YUKARI	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
KEMPER CAMPBELL RANCH	473	355	314	(314)	(296)	59	59	0	0	59	0.00	0.00	0.00	0.00
LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT	658	494	527	(527)	(494)	0	0	0	0	0	0.00	0.00	0.00	0.00
LANGLEY, JAMES	5	4	4	(4)	(645)	(641)	0	(641)	0	0	0.00	0.00	0.00	0.00
LANGLEY, JAMES - INDUSTRIAL	0	0	0	0	(584)	(584)	0	(584)	0	0	0.00	0.00	0.00	0.00
LAWSON, ERNEST AND BARBARA	15	12	11	(11)	(11)	1	1	0	0	1	0.04	0.00	24.16	24.16
LENHERT, RONALD AND TONI	37	28	30	0	0	58	8	28	0	8	0.34	0.00	205.36	205.36
LHC ALLIGATOR, LLC	498	374	0	0	(374)	0	0	0	0	0	0.00	0.00	0.00	0.00
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP. (SEE NOTE 13)	13,610	7,486	2,808	0	0	10,294	8,420	1,874	0	8,420	0.00	0.00	0.00	0.00
LOW, DEAN	199	150	160	(160)	(150)	0	0	0	0	0	0.00	0.00	0.00	0.00



## APPENDIX I

FEBRUARY 23, 2022

**AMENDED APPENDIX B FOR WATER YEAR 2019-20  
RECONCILED FOR CARRYOVER TRANSFERS IN LIEU OF PAYMENT OF REPLACEMENT AND MAKEUP WATER ASSESSMENTS  
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				2018-19 CARRYOVER <sup>3</sup>	2019-20 FPA <sup>4</sup>									
LUCKEY 2010 REVOCABLE TRUST	300	225	239	(239)	(224)	1	1	0	0	1	0.04	0.00	24.16	24.16
MARIANA RANCHOS COUNTY WATER DISTRICT	270	149	0	0	63	212	212	0	0	149	0.00	0.00	0.00	0.00
MCKINNEY, PAULA	33	25	27	(27)	0	25	0	25	0	0	0.00	0.00	0.00	0.00
MLH, LLC	13	10	4	0	0	14	8	6	0	8	0.34	0.00	205.36	205.36
MOJAVE DESERT LAND TRUST	40	30	31	0	0	61	1	30	0	1	0.04	0.00	24.16	24.16
MOJAVE WATER AGENCY (SEE NOTE 14)	0	0	0	0	0	0	20	0	20	0	0.00	12,080.00	0.00	12,080.00
NAVAJO MUTUAL WATER COMPANY	88	49	53	0	0	102	26	49	0	26	0.00	0.00	0.00	0.00
NUÑEZ, LUIS SEGUNDO	0	0	0	0	1	1	1	0	0	0	0.00	0.00	0.00	0.00
NUNN FAMILY TRUST	36	27	28	(28)	(26)	1	1	0	0	1	0.04	0.00	24.16	24.16
ORO GRANDE SCHOOL DISTRICT	107	59	55	0	0	114	90	24	0	90	3.86	0.00	2,331.44	2,331.44
PAUSTELL, JOAN BEINSCHROTH	170	128	0	0	(128)	0	0	0	0	0	0.00	0.00	0.00	0.00
PERRY REVOCABLE LIVING TRUST, THOMAS AND PATRICIA	0	0	0	0	1	1	1	0	0	0	0.00	0.00	0.00	0.00
PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT	355	196	207	0	0	403	176	196	0	176	0.00	0.00	0.00	0.00
PITTMAN REVOCABLE TRUST, DIANA J.	148	111	119	0	0	230	1	111	0	1	0.04	0.00	24.16	24.16
POLICH, DONNA	65	49	52	(52)	0	49	0	49	0	0	0.00	0.00	0.00	0.00
RANCHERITOS MUTUAL WATER COMPANY	169	93	0	0	0	93	112	0	19	93	0.00	11,476.00	0.00	11,476.00
RIM PROPERTIES, A GENERAL PARTNERSHIP	9	7	8	(8)	(7)	0	0	0	0	0	0.00	0.00	0.00	0.00
RUE RANCH, INC.	30	23	15	(15)	(16)	7	7	0	0	7	0.30	0.00	181.20	181.20
SAN BERNARDINO COUNTY - HIGH DESERT DETENTION CENTE	0	0	0	0	100	100	157	0	57	0	0.00	34,428.00	0.00	34,428.00
SAN BERNARDINO COUNTY SERVICE AREA 42	465	256	225	(225)	(198)	58	58	0	0	58	0.00	0.00	0.00	0.00
SAN BERNARDINO COUNTY SERVICE AREA 64	3,822	2,103	139	(139)	0	2,103	2,687	0	584	2,103	0.00	352,736.00	0.00	352,736.00
SAN BERNARDINO COUNTY SERVICE AREA 70J	1,015	559	0	302	331	1,192	1,625	0	433	861	0.00	261,532.00	0.00	261,532.00
SCRAY, MICHELLE A. TRUST	15	12	11	(11)	0	12	1	11	0	1	0.04	0.00	24.16	24.16
SERVICE ROCK PRODUCTS CORPORATION	20	11	12	0	0	23	7	11	0	7	0.30	0.00	181.20	181.20
SHEEP CREEK WATER COMPANY	0	0	0	0	0	0	19	0	19	0	0.00	11,476.00	0.00	11,476.00
SILVER LAKES ASSOCIATION	4,987	2,743	0	734	0	3,477	3,235	242	0	3,235	0.00	0.00	0.00	0.00
SNOWBALL DEVELOPMENT, INC.	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
SPRING VALLEY LAKE ASSOCIATION	3,768	2,073	121	137	62	2,393	2,393	0	0	2,331	0.00	0.00	0.00	0.00
SPRING VALLEY LAKE COUNTRY CLUB	977	538	250	0	0	788	742	46	0	742	0.00	0.00	0.00	0.00
STORM, RANDALL	62	47	50	(50)	(47)	0	0	0	0	0	0.00	0.00	0.00	0.00
SUDMEIER, GLENN W.	20	15	15	(15)	(14)	1	1	0	0	1	0.04	0.00	24.16	24.16
SUMMIT VALLEY RANCH, LLC	57	43	43	(43)	(35)	8	8	0	0	8	0.00	0.00	0.00	0.00
THOMPSON LIVING TRUST, JAMES A. AND SULA B.	418	314	331	(331)	(311)	3	3	0	0	3	0.00	0.00	0.00	0.00
THOMPSON LIVING TRUST, R.L. AND R.A.	2	2	1	0	0	3	1	2	0	1	0.04	0.00	24.16	24.16
THRASHER, GARY	373	280	291	(291)	(275)	5	5	0	0	5	0.00	0.00	0.00	0.00
THUNDERBIRD COUNTY WATER DISTRICT	118	65	0	0	44	109	109	0	0	65	0.00	0.00	0.00	0.00



APPENDIX I

FEBRUARY 23, 2022

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ALTO SUBAREA

PRODUCER	2019-20 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2021 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2019-20 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER \$604.00/AF	MAKEUP WATER \$604.00/AF	TOTAL
				2018-19	2019-20									
				CARRYOVER <sup>3</sup>	FPA <sup>4</sup>									
TRANSAMERICA FIN'L SVC - SPEARS, LARRY B. AND ERLINDA	26	20	21	0	0	41	0	20	0	0	0.00	0.00	0.00	0.00
VANHOOPS HOLDINGS, LP	360	270	288	(288)	(269)	1	1	0	0	1	0.04	0.00	24.16	24.16
VICTOR VALLEY COMMUNITY COLLEGE DISTRICT	240	132	0	0	225	357	357	0	0	132	0.00	0.00	0.00	0.00
VICTOR VALLEY MEMORIAL PARK	0	0	0	0	37	37	37	0	0	0	0.00	0.00	0.00	0.00
VICTORVILLE WATER DISTRICT, ID#1 (SEE NOTE 13)	23,020	12,661	0	1,029	3,374	17,064	19,234	0	2,170	14,068	0.00	1,310,680.00	0.00	1,310,680.00
VICTORVILLE WATER DISTRICT, ID#2 (SEE NOTE 13)	2,932	1,613	0	0	3,300	4,913	4,913	0	0	1,613	0.00	0.00	0.00	0.00
VOGLER, ALBERT H.	62	47	49	(49)	(46)	1	1	0	0	1	0.04	0.00	24.16	24.16
WAGNER LIVING TRUST	1,224	918	980	(980)	(918)	0	0	0	0	0	0.00	0.00	0.00	0.00
WAKULA FAMILY TRUST	11	9	8	(8)	(8)	1	1	0	0	1	0.04	0.00	24.16	24.16
WARD, KEN AND BARBARA	65	49	36	(36)	(35)	14	14	0	0	14	0.00	0.00	0.00	0.00
WEST, HOWARD AND SUZY	72	54	58	(58)	0	54	0	54	0	0	0.00	0.00	0.00	0.00
WEST, JIMMIE E.	10	8	7	(7)	(7)	1	1	0	0	1	0.04	0.00	24.16	24.16
WESTERN WATER COMPANY	15	12	12	0	0	24	0	12	0	0	0.00	0.00	0.00	0.00
WESTLAND INDUSTRIES, INC.	54	30	33	0	0	63	29	30	0	29	1.25	0.00	755.00	755.00
WIENER, MELVIN AND MARIAM S.	30	17	18	0	0	35	0	17	0	0	0.00	0.00	0.00	0.00
WOOD, MICHAEL AND DENISE	0	0	0	0	0	0	1	0	1	0	0.00	604.00	0.00	604.00
TOTAL	114,308	64,357	20,854	(13,689)	(1,593)	69,929	73,441	2,950	5,613	53,362	10.38	3,390,252.00	6,269.52	3,396,521.52



## APPENDIX I

FEBRUARY 23, 2022

**AMENDED APPENDIX B FOR WATER YEAR 2019-20  
RECONCILED FOR CARRYOVER TRANSFERS IN LIEU OF PAYMENT OF REPLACEMENT AND MAKEUP WATER ASSESSMENTS  
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## CENTRO SUBAREA

PRODUCER	2019-20 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2021 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2019-20 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL
				2018-19 CARRYOVER <sup>3</sup>	2019-20 FPA <sup>4</sup>							WATER	WATER	
												\$604.00/AF	N/A	
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	29	22	24	(15)	(18)	13	0	4	0	0	0.00	0.00	0.00	0.00
AQUA CAPITAL MANAGEMENT LP	2,106	1,604	783	(783)	(1,580)	24	0	0	0	0	0.00	0.00	0.00	0.00
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	120	90	0	0	(90)	0	0	0	0	0	0.00	0.00	0.00	0.00
BAR-LEN MUTUAL WATER COMPANY	48	36	39	0	0	75	28	36	0	28	0.00	0.00	0.00	0.00
BARSTOW COMMUNITY DEVELOPERS, LLC	0	0	0	0	1	1	1	0	0	0	0.00	0.00	0.00	0.00
BEST, BYRON L.	21	16	17	0	0	33	0	16	0	0	0.00	0.00	0.00	0.00
BROMMER HOUSE TRUST	361	271	289	(23)	(189)	348	0	82	0	0	0.00	0.00	0.00	0.00
CALMAT COMPANY	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
CHAFI, LARRY R. AND DELINDA C.	46	35	37	0	0	72	1	35	0	1	0.00	0.00	0.00	0.00
CHOI, YONG IL AND JOUNG AE	38	29	31	0	0	60	0	29	0	0	0.00	0.00	0.00	0.00
CHONG, JOAN	10	8	8	34	8	58	28	16	0	28	0.00	0.00	0.00	0.00
CHRISTISON, JOEL	75	57	60	0	(57)	60	0	0	0	0	0.00	0.00	0.00	0.00
CONTRATTO, ERSULA	151	114	120	(120)	(113)	1	1	0	0	1	0.00	0.00	0.00	0.00
DARR, JAMES S.	408	306	327	0	0	633	60	306	0	60	0.00	0.00	0.00	0.00
DE VRIES, NEIL AND MARY FAMILY TRUST	3,800	2,850	3,040	0	0	5,890	1	2,850	0	1	0.00	0.00	0.00	0.00
DORRANCE, DAVID W. AND TAMELA L.	19	15	0	0	(15)	0	0	0	0	0	0.00	0.00	0.00	0.00
EYGNOR, ROBERT E.	50	38	40	0	(38)	40	0	0	0	0	0.00	0.00	0.00	0.00
FEDERAL NATIONAL MORTGAGE ASSOCIATION - FANNIE MAE	30	23	24	0	0	47	0	23	0	0	0.00	0.00	0.00	0.00
FOURFREE USA, INC.	42	32	34	(34)	(8)	24	0	24	0	0	0.00	0.00	0.00	0.00
FRATES, D. COLE	13	10	0	0	(10)	0	0	0	0	0	0.00	0.00	0.00	0.00
FRIEND, JOSEPH AND DEBORAH	60	45	48	0	0	93	11	45	0	11	0.00	0.00	0.00	0.00
GABRYCH, EUGENE	132	99	106	0	(99)	106	0	0	0	0	0.00	0.00	0.00	0.00
GAINES FAMILY TRUST, JACK AND MARY	92	69	74	0	(69)	74	0	0	0	0	0.00	0.00	0.00	0.00
GOLDEN STATE WATER COMPANY	14,407	10,806	11,526	(2,713)	(124)	19,495	5,624	10,682	0	5,624	0.00	0.00	0.00	0.00
GRILL, NICHOLAS P. AND MILLIE D.	0	0	0	0	80	80	80	0	0	0	0.00	0.00	0.00	0.00
GUTIERREZ, JOSE AND GLORIA	130	98	104	0	0	202	67	98	0	67	0.00	0.00	0.00	0.00
HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH	152	114	39	(39)	(114)	0	0	0	0	0	0.00	0.00	0.00	0.00
HARMSER FAMILY TRUST	722	542	578	0	0	1,120	306	542	0	306	0.00	0.00	0.00	0.00
HARPER LAKE COMPANY VIII	1,433	1,075	1,147	0	0	2,222	949	1,075	0	949	0.00	0.00	0.00	0.00
HASKINS, JAMES J.	30	(1)	0	0	(20)	(21)	0	3	0	0	0.00	0.00	0.00	0.00
HELENDAL COMMUNITY SERVICES DISTRICT	219	165	0	0	(165)	0	0	0	0	0	0.00	0.00	0.00	0.00
HENSLEY, MARK P.	27	21	22	0	0	43	22	21	0	22	0.00	0.00	0.00	0.00
HI DESERT MUTUAL WATER COMPANY	34	26	28	0	0	54	16	26	0	16	0.00	0.00	0.00	0.00
HIGH DESERT ASSOCIATES, INC.	513	385	411	0	0	796	0	385	0	0	0.00	0.00	0.00	0.00
HI-GRADE MATERIALS COMPANY	0	0	0	0	1	1	1	0	0	0	0.00	0.00	0.00	0.00
HILL FAMILY TRUST AND HILL'S RANCH, INC.	2,335	1,752	1,868	(375)	(842)	2,403	38	910	0	38	0.00	0.00	0.00	0.00
HOWARD, ET AL.	43	33	35	0	0	68	0	33	0	0	0.00	0.00	0.00	0.00



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				2018-19 CARRYOVER <sup>3</sup>	2019-20 FPA <sup>4</sup>							WATER	WATER		
												\$604.00/AF	N/A		
HUERTA, HECTOR	656	492	525	800	0	1,817	692	492	0	692	0.00	0.00	0.00	0.00	
JONES, JOETTE	22	17	18	0	0	35	0	17	0	0	0.00	0.00	0.00	0.00	
JORDAN FAMILY TRUST	460	345	364	(364)	(341)	4	4	0	0	4	0.00	0.00	0.00	0.00	
KASNER FAMILY LIMITED PARTNERSHIP	421	316	337	(116)	(45)	492	0	271	0	0	0.00	0.00	0.00	0.00	
KIM, JIN S. AND HYUN H.	190	143	152	(152)	(143)	0	0	0	0	0	0.00	0.00	0.00	0.00	
LEE, ET AL., SEPOONG AND WOO POONG	77	58	62	0	0	120	0	58	0	0	0.00	0.00	0.00	0.00	
LEYERLY, GENEVA (SEE NOTE 12)	65						3								
MCCOLLUM, CHARLES L.	115	87	92	0	0	179	0	87	0	0	0.00	0.00	0.00	0.00	
MEAD FAMILY TRUST	115	87	92	0	0	179	1	87	0	1	0.00	0.00	0.00	0.00	
MOJAVE SOLAR, LLC	5,239	3,930	4,192	0	0	8,122	1,471	3,930	0	1,471	0.00	0.00	0.00	0.00	
MOST FAMILY TRUST	56	42	45	0	0	87	0	42	0	0	0.00	0.00	0.00	0.00	
ODESSA WATER DISTRICT	299	225	240	0	0	465	0	225	0	0	0.00	0.00	0.00	0.00	
OHAI, REYNOLDS AND DOROTHY	137	103	110	0	0	213	1	103	0	1	0.00	0.00	0.00	0.00	
OSTERKAMP, GEROLD (SEE NOTE 12)	260						125								
PACIFIC GAS AND ELECTRIC COMPANY	4,474	3,356	3,580	0	0	6,936	2,911	3,356	0	2,911	0.00	0.00	0.00	0.00	
RIOS, MARIANO V.	8	6	7	0	0	13	1	6	0	1	0.00	0.00	0.00	0.00	
RIVERO, FIDEL V.	20	15	16	0	0	31	1	15	0	1	0.00	0.00	0.00	0.00	
RUISCH TRUST, DALE W. AND NELLIE H.	650	488	390	0	0	878	594	284	0	594	0.00	0.00	0.00	0.00	
RUISCH, ET AL. (SEE NOTE 12)	862						366								
SERVICE ROCK PRODUCTS CORPORATION	766	575	613	0	0	1,188	15	575	0	15	0.00	0.00	0.00	0.00	
SEXTON, RODNEY A. AND SEXTON, DEREK R.	232	174	186	0	(143)	217	0	31	0	0	0.00	0.00	0.00	0.00	
SOPPELAND REVOCABLE TRUST	478	359	383	(383)	(349)	10	2	8	0	2	0.00	0.00	0.00	0.00	
SYNAGRO-WWT, INC. (DBA NURSURY PRODUCTS, LLC)	0	0	0	0	2	2	4	0	0	0	0.00	0.00	0.00	0.00	
TALLAKSON FAMILY REVOCABLE TRUST	17	13	14	0	0	27	6	13	0	6	0.00	0.00	0.00	0.00	
VALENTI, VITO	17	13	14	0	0	27	0	13	0	0	0.00	0.00	0.00	0.00	
VAN DAM REVOCABLE TRUST, E AND S	722	542	578	(124)	(80)	916	138	462	0	138	0.00	0.00	0.00	0.00	
VAN LEEUWEN, JOHN	1,465	1,099	1,137	0	0	2,236	956	1,099	0	956	0.00	0.00	0.00	0.00	
VERNOLA TRUST, PAT AND MARY ANN	3,116	2,337	2,493	1,600	0	6,430	2,230	2,337	0	2,230	0.00	0.00	0.00	0.00	
VICTORVILLE WATER DISTRICT, ID#1	796	597	0	0	(597)	0	0	0	0	0	0.00	0.00	0.00	0.00	
WERNER, ANDREW J.	18	14	0	0	(14)	0	0	0	0	0	0.00	0.00	0.00	0.00	
WESTERN DEVELOPMENT AND STORAGE, LLC	6	5	0	0	(5)	0	0	0	0	0	0.00	0.00	0.00	0.00	
WITHEY, CONNIE	22	17	18	0	0	35	1	17	0	1	0.00	0.00	0.00	0.00	
TOTAL	49,477	36,181	36,517	(2,807)	(5,177)	64,715	16,756	30,769	0	16,176	0.00	0.00	0.00	0.00	



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				2018-19 CARRYOVER <sup>3</sup>	2019-20 FPA <sup>4</sup>							WATER	WATER		
												\$604.00/AF	N/A		
35250 YERMO, LLC	24	8	9	0	0	17	5	8	0	5	0.00	0.00	0.00	0.00	
AHN, CHUN SOO AND WHA JA	50	15	18	0	0	33	1	15	0	1	0.00	0.00	0.00	0.00	
AKE, CHARLES J. AND MARJORIE M.	23	7	9	0	0	16	0	7	0	0	0.00	0.00	0.00	0.00	
ARCHIBEK, ERIC	0	0	0	0	(205)	(205)	0	(205)	0	0	0.00	0.00	0.00	0.00	
ARGUELLES REVOCABLE TRUST, ALFREDO A. AND ANA. M.	0	0	227	(227)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	80	24	5	27	0	56	46	10	0	46	0.00	0.00	0.00	0.00	
BAILEY 2007 LIVING REVOCABLE TRUST, SHERÉ R.	27	9	10	0	0	19	0	9	0	0	0.00	0.00	0.00	0.00	
BARBER, JAMES B.	167	51	59	0	0	110	33	51	0	33	0.00	0.00	0.00	0.00	
BARON, SUSAN AND PALMER, CURTIS	26	8	10	0	0	18	0	8	0	0	0.00	0.00	0.00	0.00	
BENDER TRUST, DOLORES M.	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
BORGOGNO REVOCABLE LIVING TRUST	0	0	646	(646)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
BORJA, LEONIL T. AND TITAL L.	20	6	7	0	0	13	0	6	0	0	0.00	0.00	0.00	0.00	
BREDELIS, RONALD C. AND JEAN	64	20	18	(17)	0	21	10	11	0	10	0.00	0.00	0.00	0.00	
BUBIER, DIANE GAIL	54	17	19	0	(17)	19	1	0	0	1	0.00	0.00	0.00	0.00	
BUDGET FINANCE COMPANY	32	10	12	0	0	22	0	10	0	0	0.00	0.00	0.00	0.00	
BUSH, KEVIN	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
CALICO JUNCTION	0	0	7	(7)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
CALICO LAKES HOMEOWNERS ASSOCIATION	1,296	389	453	(85)	0	757	255	389	0	255	0.00	0.00	0.00	0.00	
CALIFORNIA DEPARTMENT OF TRANSPORTATION	71	22	25	0	0	47	11	22	0	11	0.00	0.00	0.00	0.00	
CALMAT COMPANY	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
CAMANGA, TONY AND MARIETTA	47	15	17	0	0	32	1	15	0	1	0.00	0.00	0.00	0.00	
CAMPBELL, M. A. AND DIANNE	22	7	8	0	0	15	0	7	0	0	0.00	0.00	0.00	0.00	
CARLTON, SUSAN	155	47	55	0	0	102	1	47	0	1	0.00	0.00	0.00	0.00	
CDFW - CAMP CADY	921	277	323	0	0	600	69	277	0	69	0.00	0.00	0.00	0.00	
CHEYENNE LAKE, INC.	665	200	183	84	0	467	196	200	0	196	0.00	0.00	0.00	0.00	
CLARK, ARTHUR	50	15	18	0	0	33	0	15	0	0	0.00	0.00	0.00	0.00	
CLARK, GARY AND BETH A. (FORMERLY: NEWBERRY SPRINGS RECREATIONAL ASSOCIATION)	0	0	0	254	45	299	250	45	0	250	0.00	0.00	0.00	0.00	
CONNER, WILLIAM H.	25	8	9	0	0	17	0	8	0	0	0.00	0.00	0.00	0.00	
CORBRIDGE, LINDA S.	32	10	12	0	0	22	4	10	0	4	0.00	0.00	0.00	0.00	
CROSS, FRANCIS AND BEVERLY	40	12	14	0	0	26	0	12	0	0	0.00	0.00	0.00	0.00	
CRYSTAL LAKES PROPERTY OWNERS ASSOCIATION	844	254	246	389	0	889	422	254	0	422	0.00	0.00	0.00	0.00	
DAGGETT COMMUNITY SERVICES DISTRICT	304	92	0	0	145	237	237	0	0	92	0.00	0.00	0.00	0.00	
DAGGETT RANCH, LLC	76	23	16	0	0	39	32	7	0	32	0.00	0.00	0.00	0.00	
DE JONG FAMILY TRUST	3,131	940	1,096	178	0	2,214	1,680	534	0	1,680	0.00	0.00	0.00	0.00	
DENNISON, QUENTIN D. - CLEGG, FRIZELL AND JOKE	29	9	11	0	0	20	0	9	0	0	0.00	0.00	0.00	0.00	
DONALDSON, JERRY AND BEVERLY	90	27	32	0	0	59	1	27	0	1	0.00	0.00	0.00	0.00	



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				2018-19 CARRYOVER <sup>3</sup>	2019-20 FPA <sup>4</sup>							WATER	WATER		
												\$604.00/AF	N/A		
DOWELL, LEONARD	23	7	9	0	0	16	0	7	0	0	0.00	0.00	0.00	0.00	
EVERT FAMILY TRUST	173	52	61	(35)	0	78	30	48	0	30	0.00	0.00	0.00	0.00	
FEJFAR, MONICA KAY	20	6	7	0	0	13	0	6	0	0	0.00	0.00	0.00	0.00	
FERNANDEZ, ARTURO	76	23	27	0	0	50	1	23	0	1	0.00	0.00	0.00	0.00	
FERRO, DENNIS AND NORMA	32	10	12	0	0	22	0	10	0	0	0.00	0.00	0.00	0.00	
FIRST CPA LLC	57	18	13	0	0	31	15	16	0	15	0.00	0.00	0.00	0.00	
FOOTHILL ESTATES MHP, LLC	54	17	0	0	1	18	18	0	0	17	0.00	0.00	0.00	0.00	
FUNDAMENTAL CHRISTIAN ENDEAVORS, INC.	425	128	149	0	0	277	112	128	0	112	0.00	0.00	0.00	0.00	
GABRYCH, EUGENE	1,637	492	219	(53)	0	658	388	270	0	388	0.00	0.00	0.00	0.00	
GARCIA, DANIEL	23	7	9	0	0	16	2	7	0	2	0.00	0.00	0.00	0.00	
GARG, OM P.	483	145	170	(75)	0	240	1	145	0	1	0.00	0.00	0.00	0.00	
GENON CALIFORNIA SOUTH, LP (SEE NOTE 16)	0	0	1,983	(1,983)	600	600	461	139	0	461	0.00	0.00	0.00	0.00	
GRAY, GEORGE F. AND BETTY E.	94	29	33	(33)	0	29	0	29	0	0	0.00	0.00	0.00	0.00	
HACKBARTH, EDWARD E.	1,517	456	342	0	0	798	627	171	0	627	0.00	0.00	0.00	0.00	
HANSON AGGREGATES WRP, INC.	31	10	11	0	0	21	0	10	0	0	0.00	0.00	0.00	0.00	
HARESON, NICHOLAS AND MARY	8	3	3	0	0	6	0	3	0	0	0.00	0.00	0.00	0.00	
HARTER, JOE AND SUE	5,234	1,571	1,292	(50)	(100)	2,713	2,315	398	0	2,315	0.00	0.00	0.00	0.00	
HASS, PAULINE L.	35	11	12	(12)	0	11	1	10	0	1	0.00	0.00	0.00	0.00	
HAWKINS, JAMES B.	854	257	299	(299)	(257)	0	0	0	0	0	0.00	0.00	0.00	0.00	
HENDLEY, RICK AND BARBARA	48	15	17	0	0	32	10	15	0	10	0.00	0.00	0.00	0.00	
HIETT, HARRY L.	29	9	11	(11)	(7)	2	1	1	0	1	0.00	0.00	0.00	0.00	
HILARIDES 1998 REVOCABLE FAMILY TRUST	303	91	105	(105)	0	91	2	89	0	2	0.00	0.00	0.00	0.00	
HO, TING-SENG AND AH-GIT	300	90	105	(82)	(90)	23	0	0	0	0	0.00	0.00	0.00	0.00	
HOLLISTER, ROBERT H. AND RUTH M.	44	14	16	0	0	30	1	14	0	1	0.00	0.00	0.00	0.00	
HONG, PAUL B. AND MAY	85	26	30	0	0	56	0	26	0	0	0.00	0.00	0.00	0.00	
HOOD FAMILY TRUST	41	13	15	0	0	28	11	13	0	11	0.00	0.00	0.00	0.00	
HORTON, JOHN	242	73	85	(85)	0	73	0	73	0	0	0.00	0.00	0.00	0.00	
HORTON'S CHILDREN'S TRUST	199	60	0	23	59	142	96	0	0	83	0.00	0.00	0.00	0.00	
HUBBARD, ESTER AND MIZUNO, ARLEAN	28	9	10	0	0	19	1	9	0	1	0.00	0.00	0.00	0.00	
HUNT, RALPH M. AND LILLIAN F.	51	16	18	0	0	34	1	16	0	1	0.00	0.00	0.00	0.00	
HYATT, JAMES AND BRENDA	210	63	57	(57)	0	63	6	57	0	6	0.00	0.00	0.00	0.00	
IM, NICHOLAS NAK-KYUN	397	120	53	65	0	238	49	120	0	49	0.00	0.00	0.00	0.00	
IRVIN, BERTRAND W.	29	9	11	5	0	25	11	9	0	11	0.00	0.00	0.00	0.00	
ITALMOOD INC., ET. AL.	190	57	67	0	0	124	41	57	0	41	0.00	0.00	0.00	0.00	
JACKS, JAMES F.	10	3	4	0	0	7	1	3	0	1	0.00	0.00	0.00	0.00	
JACKSON, JAMES N. JR REVOCABLE LIVING TRUST	54	17	19	(19)	0	17	0	17	0	0	0.00	0.00	0.00	0.00	



## APPENDIX I

FEBRUARY 23, 2022

**AMENDED APPENDIX B FOR WATER YEAR 2019-20  
RECONCILED FOR CARRYOVER TRANSFERS IN LIEU OF PAYMENT OF REPLACEMENT AND MAKEUP WATER ASSESSMENTS  
AND ALL OTHER ERRATA**

(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

## BAJA SUBAREA

PRODUCER	2019-20 FREE PRODUCTION ALLOWANCE						PRODUCTION						ASSESSMENTS DUE BY JULY 1, 2021 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2019-20 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2018-19 CARRYOVER <sup>3</sup>	2019-20 FPA <sup>4</sup>							WATER	WATER		
												\$604.00/AF	N/A		
JACKSON, RAY REVOCABLE TRUST NO. 45801	1	1	1	0	0	2	0	1	0	0	0.00	0.00	0.00	0.00	
JOHNSON, JAMES R. AND ELLEN	0	0	65	(65)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
KARIMI, HOOSHANG	70	21	25	0	0	46	1	21	0	1	0.00	0.00	0.00	0.00	
KASNER FAMILY LIMITED PARTNERSHIP	843	253	0	0	474	727	727	0	0	510	0.00	0.00	0.00	0.00	
KASNER, ROBERT	5,713	1,714	1,285	(767)	168	2,400	2,400	0	0	2,232	0.00	0.00	0.00	0.00	
KATCHER, AUGUST M. AND MARCELINE	23	7	9	0	0	16	1	7	0	1	0.00	0.00	0.00	0.00	
KEMP, ROBERT AND ROSE	32	10	12	0	0	22	0	10	0	0	0.00	0.00	0.00	0.00	
KIM, JOON HO AND MAL BOON REVOCABLE TRUST	764	230	268	(24)	0	474	243	230	0	243	0.00	0.00	0.00	0.00	
KIM, SEON JA	50	15	18	0	0	33	1	15	0	1	0.00	0.00	0.00	0.00	
KOEGLER, RONALD R. AND CAROLYN V.	26	8	9	0	0	17	10	7	0	10	0.00	0.00	0.00	0.00	
KOERING, RICHARD AND KOERING, DONNA	20	6	7	0	0	13	1	6	0	1	0.00	0.00	0.00	0.00	
KOSHAREK, JOHN AND JOANN	54	17	19	0	0	36	16	17	0	16	0.00	0.00	0.00	0.00	
LAKE JODIE PROPERTY OWNERS ASSOCIATION	454	137	109	200	0	446	290	44	0	290	0.00	0.00	0.00	0.00	
LAKE WAIKIKI	98	30	35	0	0	65	0	30	0	0	0.00	0.00	0.00	0.00	
LAKE WAINANI OWNERS ASSOCIATION	1,725	518	289	227	0	1,034	412	469	0	412	0.00	0.00	0.00	0.00	
LAM, PHILLIP	105	32	37	0	0	69	6	32	0	6	0.00	0.00	0.00	0.00	
LANGLEY, MICHAEL R. AND SHARON	20	6	0	0	0	6	4	2	0	4	0.00	0.00	0.00	0.00	
LAVANH, ET AL.	24	8	9	0	0	17	4	8	0	4	0.00	0.00	0.00	0.00	
LAWRENCE, WILLIAM W.	45	14	16	0	0	30	1	14	0	1	0.00	0.00	0.00	0.00	
LEE, VIN JANG T.	630	189	221	0	0	410	0	189	0	0	0.00	0.00	0.00	0.00	
LEM, HOY	32	10	12	0	0	22	0	10	0	0	0.00	0.00	0.00	0.00	
LIANG, YUAN - I AND TZU - MEI CHEN	200	60	70	(70)	(50)	10	0	10	0	0	0.00	0.00	0.00	0.00	
LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.	453	136	159	0	0	295	104	136	0	104	0.00	0.00	0.00	0.00	
LIN, KUAN JUNG AND CHUNG, DER-BING	451	136	158	(158)	0	136	0	136	0	0	0.00	0.00	0.00	0.00	
LO, ET AL.	59	18	0	0	0	18	37	0	19	18	0.00	11,476.00	0.00	11,476.00	
M BIRD CONSTRUCTION	41	13	15	0	0	28	1	13	0	1	0.00	0.00	0.00	0.00	
MAHJOUBI, AFSAR S.	63	19	23	0	0	42	0	19	0	0	0.00	0.00	0.00	0.00	
MALONEY, JANICE	36	11	13	0	0	24	2	11	0	2	0.00	0.00	0.00	0.00	
MANNING, SHARON S.	63	19	23	0	0	42	31	11	0	31	0.00	0.00	0.00	0.00	
MARCROFT, JAMES A. AND JOAN	38	12	2	0	0	14	20	0	6	14	0.00	3,624.00	0.00	3,624.00	
MARSHALL, CHARLES	20	6	7	0	0	13	0	6	0	0	0.00	0.00	0.00	0.00	
MARTIN, MICHAEL D. AND ARLENE D.	63	19	0	23	0	42	37	5	0	37	0.00	0.00	0.00	0.00	
MILBRAT, IRVING H.	73	22	25	0	0	47	33	14	0	33	0.00	0.00	0.00	0.00	
MILLER LIVING TRUST	18	6	7	0	0	13	0	6	0	0	0.00	0.00	0.00	0.00	
MIZRAHIE, ET AL.	145	44	51	(51)	0	44	0	44	0	0	0.00	0.00	0.00	0.00	
MOJAVE WATER AGENCY (FORMERLY: GENON CALIFORNIA SOUTH, LP)	7,194	2,159	0	1,983	(600)	3,542	0	1,559	0	0	0.00	0.00	0.00	0.00	



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**BAJA SUBAREA**

PRODUCER	2019-20 FREE PRODUCTION ALLOWANCE						PRODUCTION						ASSESSMENTS DUE BY JULY 1, 2021 (AMOUNTS IN DOLLARS)		
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2019-20 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2018-19 CARRYOVER <sup>3</sup>	2019-20 FPA <sup>4</sup>							WATER	WATER		
												\$604.00/AF	N/A		
MORRIS TRUST, JULIA V.	304	92	107	(107)	0	92	1	91	0	1	0.00	0.00	0.00	0.00	
MULLIGAN, ROBERT AND INEZ	35	11	13	0	0	24	0	11	0	0	0.00	0.00	0.00	0.00	
MURPHY, JEAN	24	8	4	0	0	12	5	7	0	5	0.00	0.00	0.00	0.00	
MUSIC, ZAJO (FORMERLY: KOROGHLIAN, TED AND NAJWA)	15	5	0	1	0	6	0	5	0	0	0.00	0.00	0.00	0.00	
NEW SPRINGS LIMITED PARTNERSHIP	2,329	699	816	(816)	(1)	698	0	698	0	0	0.00	0.00	0.00	0.00	
NEWBERRY COMMUNITY SERVICES DISTRICT	23	7	0	0	0	7	7	0	0	7	0.00	0.00	0.00	0.00	
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	1	1	380	(380)	0	1	0	1	0	0	0.00	0.00	0.00	0.00	
NSSLIC, INC.	109	33	2	126	0	161	65	33	0	65	0.00	0.00	0.00	0.00	
O. F. D. L., INC.	443	133	105	136	0	374	165	133	0	165	0.00	0.00	0.00	0.00	
P AND H ENGINEERING AND DEVELOPMENT CORPORATION	667	201	234	0	0	435	0	201	0	0	0.00	0.00	0.00	0.00	
PATINO, JOSÉ	22	7	8	0	0	15	5	7	0	5	0.00	0.00	0.00	0.00	
PEARCE, CRAIG L.	150	45	53	(50)	(45)	3	3	0	0	3	0.00	0.00	0.00	0.00	
PERKO, BERT K.	132	40	47	0	0	87	9	40	0	9	0.00	0.00	0.00	0.00	
POLAND, JOHN R. AND KATHLEEN A.	92	28	33	0	0	61	1	28	0	1	0.00	0.00	0.00	0.00	
PORTER, TIMOTHY M.	30	9	11	0	0	20	0	9	0	0	0.00	0.00	0.00	0.00	
PRECISION INVESTMENTS SERVICES, LLC	845	254	296	(35)	0	515	293	222	0	293	0.00	0.00	0.00	0.00	
PRICE, DONALD AND RUTH	42	13	15	0	0	28	1	13	0	1	0.00	0.00	0.00	0.00	
PRUETT, ANDREA	36	11	13	0	0	24	0	11	0	0	0.00	0.00	0.00	0.00	
QUAKENBUSH, SAMUEL R.	19	6	7	0	0	13	5	6	0	5	0.00	0.00	0.00	0.00	
QUIROS, FRANCISCO J. AND HERRMANN, RONALD	38	12	0	35	0	47	36	11	0	36	0.00	0.00	0.00	0.00	
RICE, HENRY C. AND DIANA	24	8	9	0	0	17	0	8	0	0	0.00	0.00	0.00	0.00	
RIZVI, S.R ALI	27	9	10	0	0	19	0	9	0	0	0.00	0.00	0.00	0.00	
ROSSI, JAMES L. AND NAOMI I.	614	185	0	0	28	213	213	0	0	185	0.00	0.00	0.00	0.00	
S AND B BROTHERS, LLC	221	67	78	0	0	145	87	32	0	87	0.00	0.00	0.00	0.00	
SAGABEAN-BARKER, KANOELOKELANI L.	34	11	11	0	0	22	14	7	0	14	0.00	0.00	0.00	0.00	
SAMPLES, BERNARD D. AND JANICE E.	43	13	16	0	0	29	2	13	0	2	0.00	0.00	0.00	0.00	
SAMRA, JAGTAR S.	30	9	11	0	0	20	2	9	0	2	0.00	0.00	0.00	0.00	
SAN BERNARDINO CO BARSTOW - DAGGETT AIRPORT	168	51	59	0	0	110	14	51	0	14	0.00	0.00	0.00	0.00	
SERVICE ROCK PRODUCTS CORPORATION	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	
SHENG, JEN	33	10	12	0	0	22	1	10	0	1	0.00	0.00	0.00	0.00	
SHEPPARD, THOMAS AND GLORIA	217	66	76	0	0	142	11	66	0	11	0.00	0.00	0.00	0.00	
SHORT, JEROME E.	30	9	1	0	0	10	17	0	7	10	0.00	4,228.00	0.00	4,228.00	
SINGH, ET AL.	31	10	11	0	0	21	10	10	0	10	0.00	0.00	0.00	0.00	
SMITH, DENISE DBA AMEREQUINE BEAUTY, INC	0	0	0	0	90	90	90	0	0	0	0.00	0.00	0.00	0.00	
SMITH, PORTER AND ANITA	25	8	9	0	0	17	0	8	0	0	0.00	0.00	0.00	0.00	
SOUTHERN CALIFORNIA EDISON COMPANY	600	180	210	0	0	390	0	180	0	0	0.00	0.00	0.00	0.00	



## APPENDIX I

FEBRUARY 23, 2022

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## BAJA SUBAREA

PRODUCER	2019-20 FREE PRODUCTION ALLOWANCE						PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2021 (AMOUNTS IN DOLLARS)			
	BASE ANNUAL PRODUCTION	BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2019-20 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT	MAKEUP	TOTAL	
				2018-19	2019-20							WATER	WATER		
				CARRYOVER <sup>3</sup>	FPA <sup>4</sup>										
SOUTHERN CALIFORNIA GAS COMPANY	98	30	35	0	0	65	3	30	0	3	0.00	0.00	0.00	0.00	
SPERRY, WESLEY	4	2	2	0	0	4	0	2	0	0	0.00	0.00	0.00	0.00	
ST. ANTONY COPTIC ORTHODOX MONASTERY	130	39	8	240	0	287	174	39	0	174	0.00	0.00	0.00	0.00	
STARKE, GEORGE A. AND JAYNE E.	23	7	9	0	0	16	0	7	0	0	0.00	0.00	0.00	0.00	
SUNDOWN LAKES, INC.	523	157	147	132	0	436	168	157	0	168	0.00	0.00	0.00	0.00	
SUNRAY LAND COMPANY, LLC	63	19	23	0	0	42	9	19	0	9	0.00	0.00	0.00	0.00	
SZYNKOWSKI, RUTH J.	29	9	11	0	0	20	2	9	0	2	0.00	0.00	0.00	0.00	
TAPIE, RAYMOND L.	18	6	7	0	0	13	1	6	0	1	0.00	0.00	0.00	0.00	
TEISAN, JERRY	96	29	34	0	0	63	0	29	0	0	0.00	0.00	0.00	0.00	
THAYER, SHARON	97	30	33	0	0	63	31	24	0	31	0.00	0.00	0.00	0.00	
THOMAS, STEPHEN AND LORI	49	15	18	0	0	33	4	15	0	4	0.00	0.00	0.00	0.00	
TRIPLE H PARTNERSHIP	218	66	77	0	0	143	48	66	0	48	0.00	0.00	0.00	0.00	
TURNER, TERRY	30	9	11	0	0	20	1	9	0	1	0.00	0.00	0.00	0.00	
UNION PACIFIC RAILROAD COMPANY	249	75	88	0	0	163	66	75	0	66	0.00	0.00	0.00	0.00	
VACA, ANDY AND TERESITA S.	20	6	7	0	0	13	6	6	0	6	0.00	0.00	0.00	0.00	
VAN BASTELAAR, ALPHONSE	78	24	0	0	50	74	74	0	0	24	0.00	0.00	0.00	0.00	
VAN DAM FAMILY TRUST, GLEN AND JENNIFER	7,274	2,183	1,016	595	(406)	3,388	3,235	153	0	3,235	0.00	0.00	0.00	0.00	
VAN LEEUWEN, JOHN	2,018	606	699	100	0	1,405	504	606	0	504	0.00	0.00	0.00	0.00	
VANDER DUSSEN TRUST, AGNES AND EDWARD	1,792	538	330	0	(28)	840	408	432	0	408	0.00	0.00	0.00	0.00	
WANG, STEVEN	10	3	4	0	0	7	0	3	0	0	0.00	0.00	0.00	0.00	
WARD, RAYMOND	105	32	4	0	0	36	37	0	1	36	0.00	604.00	0.00	604.00	
WEEMS, LIZZIE	53	16	19	0	0	35	0	16	0	0	0.00	0.00	0.00	0.00	
WEERAISINGHE, MAITHRI N.	15	5	6	0	0	11	1	5	0	1	0.00	0.00	0.00	0.00	
WESTERN HORIZON ASSOCIATES, INC.	1,363	409	0	121	205	735	735	0	0	530	0.00	0.00	0.00	0.00	
WET SET, INC.	547	165	142	56	0	363	130	165	0	130	0.00	0.00	0.00	0.00	
WITTE, E. DANIEL AND MARCIA	27	9	10	0	0	19	1	9	0	1	0.00	0.00	0.00	0.00	
WLSR, INC.	471	142	115	106	0	363	133	142	0	133	0.00	0.00	0.00	0.00	
WORSEY, JOSEPH A. AND REVAE	29	9	11	0	0	20	0	9	0	0	0.00	0.00	0.00	0.00	
TOTAL	63,929	19,246	17,370	(1,298)	59	35,377	18,667	10,792	33	17,717	0.00	19,932.00	0.00	19,932.00	



APPENDIX I - SUMMARY

FEBRUARY 23, 2022

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(UNLESS OTHERWISE NOTED ALL AMOUNTS SHOWN ARE IN ACRE-FEET)

SUBAREA	BASE ANNUAL PRODUCTION	2019-20 FREE PRODUCTION ALLOWANCE					PRODUCTION					ASSESSMENTS DUE BY JULY 1, 2021 (AMOUNTS IN DOLLARS)		
		BASE FREE PRODUCTION ALLOWANCE <sup>1</sup>	CARRYOVER FROM PREVIOUS YEAR <sup>2</sup>	TRANSFERS + OR (-)		TOTAL <sup>5</sup>	2019-20 VERIFIED PRODUCTION <sup>6</sup>	UNUSED FPA <sup>7</sup>	REPLACEMENT WATER OBLIGATION <sup>8</sup>	SUBJECT TO MAKEUP OBLIGATION <sup>9</sup>	MAKEUP WATER OBLIGATION	REPLACEMENT WATER	MAKEUP WATER	TOTAL
				2018-19 CARRYOVER <sup>3</sup>	2019-20 FPA <sup>4</sup>									
ESTE	19,251	14,458	15,084	(376)	0	29,166	4,227	13,785	0	3,785	0.00	0.00	0.00	0.00
OESTE	6,857	5,144	4,897	0	0	10,041	3,439	4,750	0	3,439	0.00	0.00	0.00	0.00
ALTO	114,308	64,357	20,854	(13,689)	(1,593)	69,929	73,441	2,950	5,613	53,362	10.38	3,390,252.00	6,269.52	3,396,521.52
CENTRO	49,477	36,181	36,517	(2,807)	(5,177)	64,715	16,756	30,769	0	16,176	0.00	0.00	0.00	0.00
BAJA	63,929	19,246	17,370	(1,298)	59	35,377	18,667	10,792	33	17,717	0.00	19,932.00	0.00	19,932.00
GRAND TOTAL	253,822	139,386	94,722	(18,170)	(6,711)	209,228	116,530	63,046	5,646	94,479	10.38	3,410,184.00	6,269.52	3,416,453.52



## NOTES FOR APPENDIX I

- 1 EQUAL TO 75% OF BASE ANNUAL PRODUCTION IN THE ESTE, OESTE AND CENTRO SUBAREAS AND FOR THE AGRICULTURAL PRODUCERS IN THE ALTO SUBAREA.  
EQUAL TO 55% OF BASE ANNUAL PRODUCTION FOR THE MUNICIPAL AND INDUSTRIAL PRODUCERS IN THE ALTO SUBAREA.  
EQUAL TO 30% OF BASE ANNUAL PRODUCTION IN THE BAJA SUBAREA.
- 2 UNUSED FPA FROM 2018-19 NET OF ANY TRANSFERS DURING 2018-19.
- 3 TRANSFERS OF 2018-19 UNUSED FPA FOR USE DURING 2019-20. AMOUNTS SOLD OR OTHERWISE RELINQUISHED ARE SHOWN IN PARENTHESIS. SEE APPENDIX E.
- 4 TRANSFERS OF 2019-20 BASE FREE PRODUCTION ALLOWANCE. AMOUNTS SOLD OR OTHERWISE RELINQUISHED ARE SHOWN IN PARENTHESIS. SEE APPENDIX E.
- 5 TOTAL FREE PRODUCTION ALLOWANCE FOR 2019-20 IS EQUAL TO THE SUM OF BASE FREE PRODUCTION ALLOWANCE, CARRYOVER AND TRANSFERS.
- 6 2019-20 VERIFIED PRODUCTION.
- 7 UNUSED FPA IS EQUAL TO THE TOTAL FPA MINUS TOTAL VERIFIED PRODUCTION, BUT NOT GREATER THAN THE SUM OF BASE FREE PRODUCTION ALLOWANCE AND 2019-20 FPA TRANSFERS.
- 8 WATER PRODUCTION IN EXCESS OF TOTAL FREE PRODUCTION ALLOWANCE.
- 9 PRODUCTION SUBJECT TO MAKEUP OBLIGATION IS EQUAL TO THE TOTAL VERIFIED PRODUCTION NOT TO EXCEED THE TOTAL FREE PRODUCTION ALLOWANCE.
- 10 PHELAN PIÑON HILLS CSD'S WELL #14 IS NOT INCLUDED IN THE TOTAL VERIFIED PRODUCTION. THE MATTER OF PUMPING FROM WELL #14, LOCATED IN LA COUNTY, IS STILL UNRESOLVED AND MAY AFFECT FUTURE OBLIGATIONS UNDER THE JUDGMENT.
- 11 CDFW - MOJAVE RIVER FISH HATCHERY IS EXEMPT FROM ASSESSMENTS PURSUANT TO THE PROVISIONS OF EXHIBIT F OF THE JUDGMENT AFTER TRIAL, DATED JANUARY 10, 1996.
- 12 APPELLANTS NOT SUBJECT TO THE JUDGMENT AFTER TRIAL PURSUANT TO SUPREME COURT DECISION DATED AUGUST 21, 2000. THE AGGREGATE BASE ANNUAL PRODUCTION OF THESE PARTIES WAS DETERMINED PRIOR TO TRIAL AND CONSISTS OF 291 ACRE-FEET IN THE ALTO SUBAREA AND 1,187 ACRE-FEET IN THE CENTRO SUBAREA. THE VERIFIED PRODUCTION WAS ESTIMATED BY WATERMASTER FOR 2018-19 AND CONSISTS OF 1,145 ACRE-FEET IN THE ALTO SUBAREA AND 543 ACRE-FEET IN THE CENTRO SUBAREA.
- 13 THE VERIFIED PRODUCTION SHOWN INCLUDES MWA DELIVERIES THROUGH THE REGIONAL, RECHARGE AND RECOVERY PROJECT. DELIVERIES FOR 2018-19 WATER YEAR INCLUDE 0 ACRE-FEET FOR LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP., 2,273 ACRE-FEET FOR VICTORVILLE WATER DISTRICT, ID#1 AND 2,509 ACRE-FEET FOR VICTORVILLE WATER DISTRICT ID#2.
- 14 THE VERIFIED PRODUCTION SHOWN INCLUDES THE OPERATIONAL WATER USED FOR THE REGIONAL, RECHARGE AND RECOVERY PROJECT.
- 15 THE FPA HAS BEEN ADJUSTED 2 FOR 1 FOR THE CHANGE IN CONSUMPTIVE USE PURSUANT TO EXHIBIT F OF THE JUDGMENT.
- 16 UNUSED FPA SHOWN FOR GENON CALIFORNIA SOUTH, LP IS NOT TRANSFERRABLE PURSUANT TO THE PURCHASE AND SALE AGREEMENT WITH MOJAVE WATER AGENCY DATED SEPTEMBER 12, 2019.



## **APPENDIX J**

### **MOJAVE BASIN AREA WATERMASTER**

#### **NOTICE LIST**



# APPENDIX J

FEBRUARY 23, 2022

## MOJAVE BASIN AREA WATERMASTER NOTICE LIST

OWNER	DESIGNEE	OWNER	DESIGNEE
35250 YERMO, LLC	ROBERTO MUNOZ	BROWN, JENNIFER	JENNIFER BROWN
ABDUL, HARRY AND ANITA	JACKIE MCEVOY	BRUNEAU, KAREN	KAREN BRUNEAU
ABSHIRE, DAVID V.	JOHN MCCALLUM	BRYANT, IAN	IAN BRYANT
ADELANTO, CITY OF	DANIEL BEST	BUBIER, DIANE GAIL	DIANE GAIL BUBIER
ADES, JOHN AND DEVON	JOHN AND DEVON ADES	BUDGET FINANCE COMPANY	NOAH FURIE
AEROCHEM, INC.	PEDRO DUMAUA	BUNNELL, DICK	DICK BUNNELL
AGCON, INC.	LORI CLIFTON	BUSH, KEVIN	KEVIN BUSH
AHN REVOCABLE LIVING TRUST	CHUN SOO AND WHA JA AHN	CALICO LAKES HOMEOWNERS ASSOCIATION	SHANNA GHALE
AHN REVOCABLE TRUST	SIMON AHN	CALIFORNIA DEPARTMENT OF TRANSPORTATION	MICHAEL P. NAZE
AHN, CHUN SOO AND DAVID	CHUN SOO AHN	CALMAT COMPANY	ROBERT W. BOWCOCK
AHN, CHUN SOO AND WHA JA	CHUN SOO AHN	CALMAT COMPANY	ROBERT W. BOWCOCK
AKE, CHARLES J. AND MARJORIE M.	CHARLES J. AND MARJORIE M. AKE	CALMAT COMPANY	ROBERT W. BOWCOCK
AMERICA UNITED DEVELOPMENT, LLC	PAUL TSAI	CALPORTLAND COMPANY - AGRICULTURE	CATALINA FERNANDEZ-MOORES
AMERICAN STATES WATER COMPANY	ANA CHAVEZ	CALPORTLAND COMPANY - ORO GRANDE PLANT	CATALINA FERNANDEZ-MOORES
ANDERSON, ROSS C. AND BETTY J.	ROSS C. AND BETTY J. ANDERSON	CAMANGA, TONY AND MARIETTA	TONY CAMANGA
APPLE VALLEY FOOTHILL COUNTY WATER DISTRICT	DANIEL B. SMITH	CAMPBELL, M. A. AND DIANNE	MYRON CAMPBELL II
APPLE VALLEY HEIGHTS COUNTY WATER DISTRICT	MATTHEW PATTERSON	CARLTON, SUSAN	SUSAN CARLTON
APPLE VALLEY UNIFIED SCHOOL DISTRICT	MATHEW SCHULENBERG	CASA COLINA FOUNDATION	KEVIN MANGOLD
APPLE VALLEY VIEW MUTUAL WATER COMPANY	EMELY AND JOE SALTMERIS	CDFW - CAMP CADY	DANIELLE STEWART
APPLE VALLEY, TOWN OF	TINA KUHNS	CDFW - MOJAVE NARROWS REGIONAL PARK	BEAHTA DAVIS
ARCHIBEK, ERIC	ERIC ARCHIBEK	CDFW - MOJAVE RIVER FISH HATCHERY	PACO CABRAL
ATCHISON, TOPEKA, SANTA FE RAILWAY COMPANY	BLAINE BILDERBACK	CEMEX, INC.	ALEJANDRA SILVA
AVILA, ANGEL AND EVALIA	ANGEL AND EVALIA AVILA	CENTER WATER COMPANY	MARY TARRAB
BAILEY 2007 LIVING REVOCABLE TRUST, SHERÉ R.	SHERÉ R. BAILEY	CHAFÁ, LARRY R. AND DELINDA C.	ALLENE ROZELL CHERIE KRACK
BAR H MUTUAL WATER COMPANY	DANIEL SHAW	CHAMISAL MUTUAL WATER COMPANY	MARY M ROSS
BARBER, JAMES B.	JAMES B. BARBER	CHEYENNE LAKE, INC.	CARL PUGH
BAR-LEN MUTUAL WATER COMPANY	CASEY SLUSSER	CHOI, YONG IL AND JOUNG AE	YONG IL AND JOUNG AE CHOI
BARON, SUSAN AND PALMER, CURTIS	CURTIS PALMER	CHONG, JOAN	JOAN CHONG
BARSTOW COMMUNITY DEVELOPERS, LLC	TEDDI MORAD	CHRISTISON, JOEL	JOEL CHRISTISON
BASS TRUST, NEWTON T.	BARBARA DAVISON	CHUNG, ET AL.	HWA-YONG CHUNG
BASTIANON REVOCABLE TRUST	REMO E. BASTIANON	CLARK, ARTHUR	ARTHUR CLARK
BEINSCHROTH FAMILY TRUST	MIKE BEINSCHROTH	CLARK, GARY AND BETH A.	ERIK ARCHIBEK
BEINSCHROTH, ANDY ERIC	ANDY ERIC BEINSCHROTH	CLUB VIEW PARTNERS	MANOUCHER SARBAZ
BELL, CHARLES H. TRUST DATED MARCH 7, 2014	CHUCK BELL	CONNER, WILLIAM H.	WILLIAM H. CONNER
BEST, BYRON L.	BYRON L. BEST	CONTRATTO, ERSULA	ERSULA CONTRATTO
BORJA, LEONIL T. AND TITAL L.	LEONIL T. AND TITAL L. BORJA	CORBRIDGE, LINDA S.	GEORGE STARKE
BOX, GEARY S. AND LAURA	GEARY S. AND LAURA BOX	CROSS, FRANCIS AND BEVERLY	FRANCIS AND BEVERLY CROSS
BREDELIS, RONALD C. AND JEAN	RONALD C. AND JEAN BREDELIS	CROSS, SHARON I.	SHARON I. CROSS
BROMMER HOUSE TRUST	MARVIN BROMMER	CROWN CAMBRIA, LLC	JAY HOOPER
BROWN, BOBBY G. AND VALERIA R.	PAUL JOHNSON	CRYSTAL LAKES PROPERTY OWNERS ASSOCIATION	ALESSIA MORRIS



**APPENDIX J**

**FEBRUARY 23, 2022**

**MOJAVE BASIN AREA WATERMASTER  
NOTICE LIST**

<b>OWNER</b>	<b>DESIGNEE</b>	<b>OWNER</b>	<b>DESIGNEE</b>
DACOSTA, DEAN EDWARD	DEAN EDWARD DACOSTA	GAETA, MIGUEL AND MARIA	MIGUEL AND MARIA GAETA
DAGGETT COMMUNITY SERVICES DISTRICT	CRYSTAL ROMERO	GAETA, TRINIDAD	JAY STORER
DAGGETT LAND HOLDINGS LLC	JAMES KELLY	GAINES FAMILY TRUST, JACK AND MARY	BRUCE GAINES
DAGGETT RANCH, LLC	STEVE AND DANA RIVETT	GARCIA, DANIEL	DANIEL GARCIA
DAGGETT SOLAR POWER 3 LLC	JAMES KELLY	GARDENA MISSION CHURCH, INC.	SANG HWAL KIM
DAHLQUIST, GEORGE R.	GEORGE R. DAHLQUIST	GARG, OM P.	OM P. GARG
DARR, JAMES S.	JAMES S. DARR	GAYJIKIAN, SAMUEL AND HAZEL	BRENT PETERSON
DE JONG FAMILY TRUST	ALAN L. DE JONG	GENON CALIFORNIA SOUTH, LP	JEFFREY EDWARDS
DE VRIES, NEIL AND MARY FAMILY TRUST	MARY DE VRIES	GOLDEN STATE WATER COMPANY	NEREIDA GONZALEZ
DENNISON, QUENTIN D. - CLEGG, FRIZELL AND JOKE	RANDY WAGNER	GORDON ACRES WATER COMPANY	GINA PELLEGRINI
DESERT DAWN MUTUAL WATER COMPANY	MARIE MCDANIEL	GRAY, GEORGE F. AND BETTY E.	GEORGE F. AND BETTY E. GRAY
DESERT GIRLZ LLC	ZARITSKY PENNY	GREEN ACRES ESTATES	BRIAN E. BOLIN
DESERT SPRINGS MUTUAL WATER COMPANY	DENISE COURTNEY	GRILL, NICHOLAS P. AND MILLIE D.	NICK GRILL
DLW REVOCABLE TRUST	DEBBY WYATT	GUBLER, HANS	HANS GUBLER
DOLCH LIVING TRUST ROBERT AND JUDITH	JUDITH DOLCH-PARTRIDGE, TRUSTEE	GULBRANSON, MERLIN	TAMARA J SKOGLUND
DONALDSON, JERRY AND BEVERLY	JERRY AND BEVERLY DONALDSON	GUTIERREZ, JOSE AND GLORIA	JOSE AND GLORIA GUTIERREZ
DORA LAND, INC.	JEFFERY LIDMAN	HAAS, BRYAN C. AND HINKLE, MARY H.	BRYAN C. HAAS AND MARY H. HINKLE
DORRANCE, DAVID W. AND TAMELA L.	DAVID DORRANCE	HACKBARTH, EDWARD E.	EDWARD E. HACKBARTH
DOUGLAS, TINA	DAVID LOOPER	HALANNA EQUITIES III	ALEXANDRA LIOANAG
DOWELL, LEONARD	LEONARD DOWELL	HAMILTON FAMILY TRUST	DOUG AND CHERYL HAMILTON
EVENSON, EDWIN H. AND JOYCELAINE C.	EDWIN H. AND JOYCELAINE C. EVENSON	HANDRINOS, NICOLE A.	WILLIAM HANDRINOS
EVERT FAMILY TRUST	STEPHANIE L. EVERT	HANIFY, MICHAEL D., DBA - WHITE BEAR RANCH	DONALD F. HANIFY
EYGNOR, ROBERT E.	ROBERT E. EYGNOR	HANSON AGGREGATES WRP, INC.	MATT WOOD
FEDERAL BUREAU OF PRISONS, VICTORVILLE	DAVID DITTENMORE	HARESON, NICHOLAS AND MARY	MARY JANE HARESON
FEDERAL NATIONAL MORTGAGE ASSOCIATION - FANNIE MAE	TERESA W. MARIANOS	HARMSEN FAMILY TRUST	KENNY HARMSEN
FEJFAR, MONICA KAY	MONICA KAY FEJFAR	HARPER LAKE COMPANY VIII	NEAL DAVIES
FERNANDEZ, ARTURO	ARTURO FERNANDEZ	HARTER, JOE AND SUE	JOE AND SUE HARTER
FERRO, DENNIS AND NORMA	DENNIS AND NORMA FERRO	HARVEY, LISA M.	LISA M. HARVEY
FINCH, JENIFER	JENIFER FINCH	HASKINS, JAMES J.	JAMES J. HASKINS
FIRST CPA LLC	ALEX AND JERRICA LIU	HASS, PAULINE L.	PAULINE L. HASS
FISCHER REVOCABLE LIVING TRUST	CARL FISCHER	HELENDALE COMMUNITY SERVICES DISTRICT	CRAIG CARLSON
FISHER TRUST, JEROME R.	PAUL JOHNSON	HELENDALE COMMUNITY SERVICES DISTRICT	KIMBERLY COX
FOOTHILL ESTATES MHP, LLC	CAMILLE YUSUFOV	HELENDALE SCHOOL DISTRICT	JOSHUA BEHNKE
FOURFREE USA, INC.	JIN HYUNG KIM	HENDLEY, RICK AND BARBARA	JEFF GALLISTEL
FRATES, D. COLE	D. COLE FRATES	HENSLEY, MARK P.	MARK P. HENSLEY
FRAZIER, ET AL.	MARTIN FRAZIER	HERT, SCOTT	SCOTT HERT
FRIEND, JOSEPH AND DEBORAH	DEBORAH A. FRIEND	HESPERIA - GOLF COURSE, CITY OF	JEREMY MCDONALD
FUNDAMENTAL CHRISTIAN ENDEAVORS, INC.	MARK ASAY	HESPERIA VENTURE I, LLC	JANIE MARTINES
GABRYCH, EUGENE	EUGENE GABRYCH	HESPERIA WATER DISTRICT	JEREMY MCDONALD
GABRYCH, EUGENE	MITCH HAMMACK	HESPERIA, CITY OF	JEREMY MCDONALD



**APPENDIX J**

FEBRUARY 23, 2022

**MOJAVE BASIN AREA WATERMASTER  
NOTICE LIST**

<b>OWNER</b>	<b>DESIGNEE</b>	<b>OWNER</b>	<b>DESIGNEE</b>
HETTINGA REVOCABLE TRUST	PATRICIA MOHR	JUNIPER RIVIERA COUNTY WATER DISTRICT	LEE LOGSDON
HI DESERT MUTUAL WATER COMPANY	LISSET SARDESON	KANESAKA, KENJI AND YUKARI	KENJI AND YUKARI KANESAKA
HIETT, HARRY L.	HARRY L. HIETT	KARIMI, HOOSHANG	ASH KARIMI
HIGH DESERT ASSOCIATES, INC.	ROBERT W. BOWCOCK	KASNER FAMILY LIMITED PARTNERSHIP	ROBERT R. KASNER
HI-GRADE MATERIALS COMPANY	LORI CLIFTON	KASNER FAMILY LIMITED PARTNERSHIP	ROBERT R. KASNER
HI-GRADE MATERIALS COMPANY	LORI CLIFTON	KASNER, ROBERT	ROBERT KASNER
HI-GRADE MATERIALS COMPANY	LORI CLIFTON	KATCHER, AUGUST M. AND MARCELINE	AUGUST M. AND MARCELINE KATCHER
HILARIDES 1998 REVOCABLE FAMILY TRUST	FRANK HILARIDES	KEMP, ROBERT AND ROSE	ROBERT AND ROSE KEMP
HILL FAMILY TRUST AND HILL'S RANCH, INC.	KATHERINE HILL	KEMPER CAMPBELL RANCH	PEGGY SHAUGHNESSY
HITCHIN LUCERNE, INC.	MARY THOMAS	KIM, JIN S. AND HYUN H.	JIN S. AND HYUN H. KIM
HO, TING-SENG AND AH-GIT	TING-SENG AND AH-GIT HO	KIM, JOON HO AND MAL BOON REVOCABLE TRUST	ALAN AND ANNETTE DE JONG
HOLLISTER, ROBERT H. AND RUTH M.	JOAN ROHRER	KIM, JU SANG	JU SANG KIM
HOLWAY JEFFREY R AND PATRICIA GAGE	JEFFREY R HOLWAY AND PATRICIA GAGE	KIM, SEON JA	SEON JA KIM
HOLWAY, JEFFREY R	JEFFREY R HOLWAY	KOERING, RICHARD AND KOERING, DONNA	RICHARD KOERING AND DONNA
HOLY HEAVENLY LAKE, LLC	KATHERINE K HSU	KOSHAREK, JOHN AND JOANN	JOHN AND JOANN KOSHAREK
HONG, PAUL B. AND MAY	PAUL HONG	LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT	CATHERINE CERRI
HOOD FAMILY TRUST	SANDRA D. HOOD	LAKE JODIE PROPERTY OWNERS ASSOCIATION	DANIEL LINDENMAN
HORTON FAMILY TRUST	GRETCHEN HORTON	LAKE WAIKIKI	NANCY LAN
HOWARD, ET AL.	DAVID HOWARD	LAKE WAINANI OWNERS ASSOCIATION	C/O J.C. UPMC, INC
HUBBARD, ESTER AND MIZUNO, ARLEAN	ESTER HUBBARD	LAM, PHILLIP	PHILLIP LAM
HUERTA, HECTOR	JOHN DRISCOLL	LANGLEY, JAMES	JAMES LANGLEY
HUNT, CONNIE	CONNIE HUNT	LANGLEY, JAMES - INDUSTRIAL	JAMES LANGLEY
HUNT, RALPH M. AND LILLIAN F.	RALPH HUNT	LANGLEY, MICHAEL R. AND SHARON	MICHAEL R. AND SHARON LANGLEY
HYATT, JAMES AND BRENDA	DANIEL AND KAREN GRAY	LAVANH, ET AL.	VANESSA LAOSY
IM, NICHOLAS NAK-KYUN	STEVE KIM	LAWRENCE, WILLIAM W.	ROBERT LAWRENCE JR.
IRVIN, BERTRAND W.	BERTRAND W. IRVIN	LAWSON, ERNEST AND BARBARA	ERNEST AND BARBARA LAWSON
ITALMOOD INC., ET. AL.	SEBASTIAN MARZARO	LEE, ANNA K. AND ESHBAN K.	ANNA K. LEE
JACKS, JAMES F.	JAMES F. JACKS	LEE, DOO HWAN	DOO HWAN LEE
JACKSON, JAMES N. JR REVOCABLE LIVING TRUST	JAMES JACKSON JR.	LEE, ET AL., SEPOONG AND WOO POONG	SEPOONG & WOO POONG LEE
JACKSON, RAY REVOCABLE TRUST NO. 45801	LAWRENCE DEAN	LEE, VIN JANG T.	ERIC ARCHIBEK
JAMBOREE HOUSING CORPORATION	AUDREY GOLLER	LEM, HOY	VIRGINIA JANOVSKY
JESS RANCH WATER COMPANY	GARY A. LEDFORD	LENHERT, RONALD AND TONI	RONALD AND TONI LENHERT
JOHNSON, CARLEAN	CARLEAN JOHNSON	LHC ALLIGATOR, LLC	BRAD FRANCKE
JOHNSON, PAUL	PAUL JOHNSON	LIANG, YUAN - I AND TZU - MEI CHEN	BILLY LIANG
JOHNSON, RONALD	RONALD JOHNSON	LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.	ERIC LARSEN
JOHNSTON, HARRIET AND JOHNSTON, LAWRENCE W.	LAWRENCE W. JOHNSTON	LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.	ERIC LARSEN
JONES TRUST DATED MARCH 16, 2002	MAGDALENA JONES	LIN, KUANG JUNG AND CHUNG, DER-BING	JAMES LIN
JONES, JOETTE	JOETTE JONES	LO, ET AL.	MEI LI
JORDAN FAMILY TRUST	PAUL JORDAN	LOPEZ, BALTAZAR	PATRICIA MIRANDA
JUBILEE MUTUAL WATER COMPANY	RAY GAGNÉ	LOW, DEAN	DEAN LOW



**APPENDIX J**

**FEBRUARY 23, 2022**

**MOJAVE BASIN AREA WATERMASTER  
NOTICE LIST**

<b>OWNER</b>	<b>DESIGNEE</b>	<b>OWNER</b>	<b>DESIGNEE</b>
LUA, MICHAEL T. AND DONNA S.	MICHAEL T. AND DONNA S. LUA	NUNN FAMILY TRUST	PEARL OR GAIL NUNN
LUCERNE VALLEY MUTUAL WATER COMPANY	GWEN L. BEDICS	O. F. D. L., INC.	JEFF GAASTRA
LUCERNE VALLEY PARTNERS	MANOUCHER SARBAZ	OASIS WORLD MISSION	CHUN SOO AHN
LUCERNE VISTA MUTUAL WATER COMPANY	MARIAN WALENT	ODESSA WATER DISTRICT	KODY TOMPKINS
LUCKEY 2010 REVOCABLE TRUST	CAROLYN J. LUCKEY	OHAI, REYNOLDS AND DOROTHY	DOROTHY OHAI
M BIRD CONSTRUCTION	EUGENE R. & VICKIE R. BIRD	OMYA CALIFORNIA, INC.	CRAIG MAETZOLD
M.B. LANDSCAPING AND NURSERY, INC.	MARIA MARTINEZ	ORO GRANDE SCHOOL DISTRICT	NICK HIGGS
MAHJOUBI, AFSAR S.	ROBERT SAIDI	P AND H ENGINEERING AND DEVELOPMENT CORPORATION	TAGHI SHORAKA
MALONEY, JANICE	NICHOLA HAWES STEIN	PACIFIC GAS AND ELECTRIC COMPANY	JESSICA BAILS
MANNING, SHARON S.	JIMMY BERRY	PAK, KAE SOO AND MYONG HUI KANG	KAE SOO AND MYONG HUI KANG PAK
MARCROFT, JAMES A. AND JOAN	ALLEN MARCROFT	PATINO, JOSÉ	JOSÉ PATINO
MARIANA RANCHOS COUNTY WATER DISTRICT	JAMES M. HANSEN, JR.	PAUSTELL, JOAN BEINSCHROTH	JOAN BEINSCHROTH PAUSTELL
MARSHALL, CHARLES	CHARLES MARSHALL	PEARCE, CRAIG L.	CRAIG L. PEARCE
MARTIN, MICHAEL D. AND ARLENE D.	MICHAEL D. AND ARLENE D. MARTIN	PERKO, BERT K.	BERT K. PERKO
MCCOLLUM, CHARLES L.	ROD SEXTON	PETTIGREW, DAN	DAN PETTIGREW
MCKINNEY, PAULA	PAULA MCKINNEY	PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT	SEAN WRIGHT
MEAD FAMILY TRUST	OLIVIA L. MEAD	POLAND, JOHN R. AND KATHLEEN A.	JOHN POLAND
MILBRAT, IRVING H.	DAVID I. MILBRAT	POLICH, DONNA	DONNA POLICH
MILLER LIVING TRUST	DONNA MILLER	PORTER, TIMOTHY M.	TIMOTHY M. PORTER
MITSUBISHI CEMENT CORPORATION	DAVID RIB	PRECISION INVESTMENTS SERVICES, LLC	CARIN MCKAY
MIZRAHIE, ET AL.	PHILIP MIZRAHIE	PRICE, DONALD AND RUTH	DONALD AND RUTH PRICE
MLH, LLC	THOMAS A. HRUBIK	PRUETT, ANDREA	ANDREA PRUETT
MOJAVE DESERT LAND TRUST	AMY LANGSTON	QUAKENBUSH, SAMUEL R.	SAMUEL R. QUAKENBUSH
MOJAVE SOLAR, LLC	MARIA ELENA LOPEZ	QUIROS, FRANCISCO J. AND HERRMANN, RONALD	RON HERRMANN
MOJAVE WATER AGENCY	DOUG KERNS	RANCHERITOS MUTUAL WATER COMPANY	ELIZABETH MURENA
MOJAVE WATER AGENCY	DOUG KERNS	REED, MIKE	MIKE REED
MONACO INVESTMENT COMPANY	MANOUCHER SARBAZ	RHEE, ANDREW N.	ANDREW N. RHEE
MORRIS TRUST, JULIA V.	KEN ELLIOT	RICE, HENRY C. AND DIANA	KELLY RICE
MOSS, LAWRENCE W. AND HELEN J.	LAWRENCE W. AND HELEN J. MOSS	RIM PROPERTIES, A GENERAL PARTNERSHIP	IAN BRYANT
MOST FAMILY TRUST	JENNIE MOST	RIOS, MARIANO V.	JOSIE RIOS
MULLIGAN, ROBERT AND INEZ	DENNIS HILLS	RIVERO, FIDEL V.	FIDEL V. RIVERO
MURPHY, JEAN	JEAN MURPHY	RIZVI, S.R ALI	S.R ALI RIZVI
MUSIC, ZAJO	ZAJO MUSIC	ROBERTSON'S READY MIX	JACKIE MCEVOY
NAVAJO MUTUAL WATER COMPANY	JAMES HANSEN	ROSSI, JAMES L. AND NAOMI I.	MITCH HAMMACK
NEW SPRINGS LIMITED PARTNERSHIP	BILLY LIANG	ROYAL WAY	JOHN D. ZEMANEK
NEWBERRY COMMUNITY SERVICES DISTRICT	JODI HOWARD	RUE RANCH, INC.	SAM MARICH
NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION	JEFF GAASTRA	RUISCH TRUST, DALE W. AND NELLIE H.	DALE W. RUISCH
NORRIS TRUST, MARY ANN	MARY ANN NORRIS	S AND B BROTHERS, LLC	SHERWIN SHORAKA
NSSLC, INC.	KENTON EATHERTON	S AND E 786 ENTERPRISES, LLC	JAFAR RASHID
NUÑEZ, LUIS SEGUNDO	LUIS SEGUNDO NUÑEZ	SABA FAMILY TRUST DATED JULY 24, 2018	SARA FORTUNA



**APPENDIX J**

FEBRUARY 23, 2022

**MOJAVE BASIN AREA WATERMASTER  
NOTICE LIST**

<b>OWNER</b>	<b>DESIGNEE</b>	<b>OWNER</b>	<b>DESIGNEE</b>
SAGABEAN-BARKER, KANOELOKELANI L.	KANOE BARKER	TAPIE, RAYMOND L.	RAYMOND L. TAPIE
SAMPLES, BERNARD D. AND JANICE E.	BERNARD D. AND JANICE E. SAMPLES	TEISAN, JERRY	JERRY TEISAN
SAMRA, JAGTAR S.	JAGTAR S. SAMRA	THAYER, SHARON	SHARON THAYER
SAN BERNARDINO CO BARSTOW - DAGGETT AIRPORT	REBECCA MANCHA	THOMAS, STEPHEN AND LORI	STEPHEN THOMAS
SAN BERNARDINO COUNTY - HIGH DESERT DETENTION CENTER	JARED BEYELER	THOMPSON LIVING TRUST, JAMES A. AND SULA B.	LYNNETTE L. THOMPSON
SAN BERNARDINO COUNTY SERVICE AREA 29	TREVOR LEJA	THOMPSON LIVING TRUST, R.L. AND R.A.	RODGER THOMPSON
SAN BERNARDINO COUNTY SERVICE AREA 42	JARED BEYELER	THRASHER, GARY	GARY THRASHER
SAN BERNARDINO COUNTY SERVICE AREA 64	JARED BEYELER	THUNDERBIRD COUNTY WATER DISTRICT	CHRISTINE BISPO
SAN BERNARDINO COUNTY SERVICE AREA 70J	JARED BEYELER	TRANSAMERICA FIN'L SVC - SPEARS, LARRY B. AND ERLINDA	
SCRAY, MICHELLE A. TRUST	MICHELLE SCRAY	TRIPLE H PARTNERSHIP	JIM HOOVER
SERVICE ROCK PRODUCTS CORPORATION	JACKIE MCEVOY	TROEGER FAMILY TRUST, RICHARD H.	MIKE TROEGER
SEXTON, RODNEY A. AND SEXTON, DEREK R.	ROD SEXTON	TURNER, TERRY	TERRY TURNER
SHEEP CREEK WATER COMPANY	CHRIS CUMMINGS	UNION PACIFIC RAILROAD COMPANY	AURELIO IBARRA
SHENG, JEN	JEN SHENG	VACA, ANDY AND TERESITA S.	ANDY AND TERESITA S. VACA
SHEPPARD, THOMAS AND GLORIA	THOMAS AND GLORIA SHEPPARD	VAN BASTELAAR, ALPHONSE	DEAN VAN BASTELAAR
SHORT, JEROME E.	JEROME E. SHORT	VAN DAM FAMILY TRUST, GLEN AND JENNIFER	GLEN AND JENNIFER VAN DAM
SILVER LAKES ASSOCIATION	WESTLY CAMPBELL	VAN DAM REVOCABLE TRUST, E AND S	ELBERT AND SUSAN VAN DAM
SINGH, ET AL.	NEPAL SINGH	VAN LEEUWEN, JOHN	JACOB BOOTSMA
SMITH, DENISE DBA AMEREQUINE BEAUTY, INC	DENISE SMITH	VANDER DUSSEN TRUST, AGNES AND EDWARD	AGNES VANDER DUSSEN
SMITH, PORTER AND ANITA	PORTER AND ANITA SMITH	VANHOOPS HOLDINGS, LP	TRACI HOOPS
SNOWBALL DEVELOPMENT, INC.	STEVE KIM	VERNOLA TRUST, PAT AND MARY ANN	JOHN DRISCOLL
SON'S RANCH	CHAN KYUN SON	VICTOR VALLEY COMMUNITY COLLEGE DISTRICT	JOHN NAHLEN
SOPPELAND REVOCABLE TRUST	JASON LAMOREAUX	VICTOR VALLEY MEMORIAL PARK	DEIDRA HITT
SOUTHERN CALIFORNIA EDISON COMPANY	ERIKA CLEMENT	VICTORVILLE WATER DISTRICT, ID#1	ARNOLD VILLARREAL
SOUTHERN CALIFORNIA GAS COMPANY	SCOTT BREWER	VICTORVILLE WATER DISTRICT, ID#2	STEVE ASHTON
SPECIALTY MINERALS, INC.	JOSHUA EBERHARDY	VOGLER, ALBERT H.	ALBERT H. VOGLER
SPERRY, WESLEY	WESLEY SPERRY	WAGNER LIVING TRUST	JOAN WAGNER
SPILLMAN, JAMES R. AND NANCY J.	JAMES R. AND NANCY J. SPILLMAN	WAKULA FAMILY TRUST	CHRISTIAN JOSEPH WAKULA
SPRING VALLEY LAKE ASSOCIATION	ERIC MILLER	WANG, STEVEN	STEVEN WANG
SPRING VALLEY LAKE COUNTRY CLUB	MITCHELL BROWN	WARD, KEN AND BARBARA	BARBARA ALLARD-WARD
ST. ANTONY COPTIC ORTHODOX MONASTERY	FATHER JOSEPH	WARD, RAYMOND	RAYMOND WARD
STARKE, GEORGE A. AND JAYNE E.	GEORGE A. AND JAYNE E. STARKE	WEEMS, LIZZIE	LIZZIE WEEMS
STORM, RANDALL	RANDALL STORM	WEERASINGHE, MAITHRI N.	MAITHRI N. WEERASINGHE
SUDMEIER, GLENN W.	GLENN W. SUDMEIER	WERNER, ANDREW J.	ANDREW J. WERNER
SUMMIT VALLEY RANCH, LLC	ALEXANDRA LIOANAG	WEST END MUTUAL WATER COMPANY	JAMES WOODY
SUNDOWN LAKES, INC.	MARK RICHARDSON	WEST, HOWARD AND SUZY	HOWARD AND SUZY WEST
SUNRAY LAND COMPANY, LLC	CLENERA, LLC	WEST, JIMMIE E.	JIMMIE E. WEST
SYNAGRO-WWT, INC. (DBA NURSURY PRODUCTS, LLC)	VENNY VASQUEZ	WESTERN DEVELOPMENT AND STORAGE, LLC	ANDREW WERNER
SZYNKOWSKI, RUTH J.	RUSSELL SZYNKOWSKI	WESTERN HORIZON ASSOCIATES, INC.	CHUNG CHO GONG
TALLAKSON FAMILY REVOCABLE TRUST	BILL AND ELIZABETH TALLAKSON	WESTERN WATER COMPANY	WILMA SILVERIA



**APPENDIX J**

**FEBRUARY 23, 2022**

**MOJAVE BASIN AREA WATERMASTER  
NOTICE LIST**

<b>OWNER</b>	<b>DESIGNEE</b>	<b>OWNER</b>	<b>DESIGNEE</b>
WESTLAND INDUSTRIES, INC.	GENARO ZAPATA		
WET SET, INC.	THOMAS G. FERRUZZO		
WIENER, MELVIN AND MARIAM S.	MELVIN AND MARIAM S. WIENER		
WILSHIRE ROAD PARTNERS	MANOUCHER SARBAZ		
WITHEY, CONNIE	CONNIE TAPIE		
WITTE, E. DANIEL AND MARCIA	E. DANIEL AND MARCIA WITTE		
WLSR, INC.	MARK J. CLUFF		
WOOD, MICHAEL AND DENISE	MICHAEL AND DENISE WOOD		
WORSEY, JOSEPH A. AND REVAE	DAVID A. WORSEY		
YANG, ZILAN	ZILAN YANG		



## **APPENDIX K**

### **PERMANENT TRANSFERS OF BASE ANNUAL PRODUCTION RIGHT**

**2020-21 WATER YEAR**



APPENDIX K

FEBRUARY 23, 2022

PERMANENT TRANSFERS OF BASE ANNUAL PRODUCTION RIGHT  
WATER YEAR 2020-21  
(ALL AMOUNTS IN ACRE-FEET)

SUBAREA	TRANSFEROR	TRANSACTION						STATUS OF RIGHTS AFTER PERMANENT TRANSFER			
		VERIFIED BASE ANNUAL PRODUCTION	CURRENT BASE ANNUAL RIGHT (PERCENT)	DATE PROCESSED BY WATERMASTER	TYPE OF TRANSACTION	TRANSFER AMOUNT	TRANSFeree	TRANSFeree		TRANSFEROR	
								VERIFIED BASE ANNUAL PRODUCTION	BASE ANNUAL RIGHT (PERCENT)	VERIFIED BASE ANNUAL PRODUCTION	BASE ANNUAL RIGHT (PERCENT)
BAJA	HARTER, JOE AND SUE	5,234	7.9115	12/09/2020	SALE	100	DAGGETT COMMUNITY SERVICES DISTRICT	404	0.6107	5,134	7.7603
ALTO	PITTMAN REVOCABLE TRUST, DIANA J.	148	0.1271	12/09/2020	SALE	148	HELENDALE COMMUNITY SERVICES DISTRICT	4,157	3.5709	0	0.0000
CENTRO	AQUA CAPITAL MANAGEMENT LP	2,106	3.7427	01/27/2021	SALE	2,106	PACIFIC GAS AND ELECTRIC COMPANY	6,580	11.6938	0	0.0000
BAJA	KASNER, ROBERT	5,713	8.6355	01/27/2021	SALE	100	DAGGETT COMMUNITY SERVICES DISTRICT	504	0.7618	5,613	8.4844
BAJA	HAWKINS, JAMES B.	854	1.2909	02/24/2021	SALE	854	VAN DAM FAMILY TRUST, GLEN AND JENNIFER	8,128	12.2859	0	0.0000
ESTE	JONES TRUST DATED MARCH 16, 2002	89	0.4405	03/24/2021	SALE	23	DESERT GIRLZ LLC	23	0.1138	66	0.3267
BAJA	KOEGLER, RONALD R. AND CAROLYN V.	26	0.0393	03/24/2021	SALE	26	YANG, ZILAN	26	0.0393	0	0.0000
ESTE	BRACHT, WILLIAM F. AND ALEXANDER, ALICIA M.	50	0.2475	05/26/2021	SALE	50	DOUGLAS, TINA	50	0.2475	0	0.0000
ALTO	PAUSTELL, JOAN BEINSCHROTH	170	0.1460	05/26/2021	SALE	10	MARIANA RANCHOS COUNTY WATER DISTRICT	280	0.1546	160	0.1374
ALTO	PAUSTELL, JOAN BEINSCHROTH	160	0.1374	05/26/2021	SALE	8	THUNDERBIRD COUNTY WATER DISTRICT	126	0.1082	152	0.1306
CENTRO	VALENTI, VITO	17	0.0302	05/26/2021	SALE	17	JOHNSON, PAUL	17	0.0302	0	0.0000
BAJA	VANDER DUSSEN TRUST, AGNES AND EDWARD	1,792	2.0870	05/26/2021	SALE	179	DAGGETT SOLAR POWER 3 LLC	179	0.2706	1,613	2.4381
ESTE	THE CUSHENBURY TRUST, C/O SPECIALTY MINERALS, INC.	10	0.0495	07/28/2021	SALE	10	SPECIALTY MINERALS, INC.	52	0.2574	0	0.0000