# WESTERN-SAN BERNARDINO WATERMASTER FOR

WESTERN MUNICIPAL WATER DISTRICT et al.

VS.

EAST SAN BERNARDINO COUNTY WATER DISTRICT et al. CASE NO. 78426 - COUNTY OF RIVERSIDE

### **ANNUAL REPORT**

### **OF THE**

### **WESTERN-SAN BERNARDINO WATERMASTER**

FOR

**CALENDAR YEAR 2019** 

August 1, 2019

EAST SAN BERNARDINO COUNTY WATER DISTRICT ET AL. CASE NO. 78426 - COUNTY OF RIVERSIDE

WESTERN-SAN BERNARDINO WATERMASTER UPERIOR COUNTY OF RIVERSIDE COUNTY OF RIVERSIDE CALIFORNIA.

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August 1, 2019

TO: Clerk of Superior Court of Riverside County and All Parties

RE: Watermaster Report for Calendar Year 2019

We have the honor of submitting the Annual Report of the Western-San Bernardino Watermaster for Calendar Year 2019.

The provisions of Paragraph III and Paragraphs V through XII of the Judgment in Case No. 78426, entered April 17, 1969, became effective from and after January 1, 1971. The Judgment requires that the Watermaster report to the Court and to each Party in writing not more than seven months after the end of each year, or within such other time as the Court may fix, on each determination made by said Watermaster pursuant to the Judgment and such other items as the Parties may mutually request or the Watermaster may deem to be appropriate.

Accordingly, this report is submitted herewith under date of August 1, 2019, and presents the findings of the Watermaster for calendar year 2019 and summarizes the five-year period 2014 through 2018.

In 2014, the Watermaster began a database update and modernization process to enhance the well recordation program for both well owners and the Watermaster. As this transitional work progressed, comparisons of previously reported data were made using the old and new data processes. Where inconsistencies were found, methodical research was conducted to validate information used and a determination was made by the Watermaster to correct all information reported. Therefore, in July 2019, in order to establish consistency, Watermaster adopted a procedure to hold all data before 2014 static. Although unlikely, Watermaster can modify pre-2014 data should it become necessary.

An improvement made during the database update and modernization process was to change many of the tables within the supplementary volumes to contain only data within the current fiveyear period. Additionally, many outdated, redundant and unused tables were eliminated or changed based on current conditions within the Watermaster boundaries. All volumes with the exception of Volumes 1, 6 and 7 were updated. The remaining supplementary volumes will be completed within the next calendar year, if necessary. The improvements made to the database and supplementary volumes did not necessitate any change to tables within the Annual Report for Calendar Year 2019.

In summary, Table No. 18 shows that during the five-year period 2014 through 2018, Plaintiffs did not exceed the allowable extractions and that Western credits exceed obligations and therefore is not required to provide replenishment. Additionally, San Bernardino Valley has met compliance in the San Bernardino Basin Area and is not required to provide replenishment. However, San Bernardino Valley did not achieve compliance in the Colton and Riverside Basin Areas. Pursuant to Judgment Paragraph VIII (d), extractions from the Colton Basin Area and Riverside Basin Area within San Bernardino County for use in San Bernardino Valley are not limited, provided that the average static groundwater surface elevation as measured at the three key wells is not less than 822.04 feet. For calendar year 2018, the lowest average water surface elevation was 811.16, or 10.88 feet lower than the 1963 average. Watermaster and San Bernardino Valley are working cooperatively to devise a plan, including constructing necessary facilities and obtaining environmental permits to provide the replenishment and arrangements for Plaintiffs to transfer extractions from the Riverside Basin Area in San Bernardino County to the San Bernardino Area as contemplated in Judgment Paragraph VIII (e). This work will allow for San Bernardino Valley to provide the replenishment needed for calendar year 2018 well levels and be in place for future replenishment obligations, if necessary.

We, and each of us, hereby certify that this is a true and correct Report of the Watermaster for work performed by us, and under our supervision, for calendar year 2019 pursuant to the requirements of the Judgment.

Respectfully submitted,

WESTERN-SAN BERNARDINO WATERMASTER

Douglas D. Headrick

Craig D. Miller

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Annual Report of the Western-San Bernardino Watermaster Riverside Superior Court Case Number 78426 Dated August 1, 2019. Stick DVD pouch here. 

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## WESTERN-SAN BERNARDINO WATERMASTER

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WESTERN MUNICIPAL WATER DISTRICT et al.

vs

EAST SAN BERNARDINO COUNTY WATER DISTRICT et al.

CASE NO. 78426 - COUNTY OF RIVERSIDE

### **ANNUAL REPORT**

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FOR

**CALENDAR YEAR 2019** 

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# CHAPTER I INTRODUCTION

#### CHAPTER I

#### INTRODUCTION

Provisions of the physical solution set forth in the Judgment in Case No. 78426, Western Municipal Water District of Riverside County et al., vs. East San Bernardino County Water District et al., entered April 17, 1969, in the Superior Court of the State of California in and for the County of Riverside, established the entitlements and obligations of the two major water districts overlying the San Bernardino, Colton, and Riverside groundwater basins, namely San Bernardino Valley Municipal Water District (San Bernardino Valley) and Western Municipal Water District of Riverside County (Western).

The Court appointed a Watermaster, composed of two persons, to administer and enforce the provisions of the Judgment and to report annually to the Court and the Parties. Douglas D. Headrick and Craig D. Miller continue as the representatives from San Bernardino Valley and Western, respectively.

The provisions of the Judgment became effective January 1, 1971; however, progress reports were filed with the Court for calendar years 1969, 1970, and 1971 reporting on the progress of verifications and initial determinations required by the Judgment. This report for calendar year 2019 includes a description and summary of the work completed during 2019 and also includes the annual accounting of extractions from the San Bernardino, Colton and Riverside Basin Areas and the distribution of such extractions to the various service areas for calendar year 2018. The scope of this report for 2019 and a history of the litigation leading to the physical solution settling the case are set forth in some detail in succeeding paragraphs.

#### **Scope of Report**

Paragraph XIII(e) of the Judgment requires the Watermaster to report to the Court and each Party not more than seven months after the end of each year.

The Annual Reports of the Western-San Bernardino Watermaster for calendar years 1969 through 1971 reported on the verifications and initial determinations required by the Judgment including the safe yield of the San Bernardino Basin Area and the determination of the Adjusted Rights of the Plaintiffs. Beginning with the 1972 Report, the Watermaster began the annual accounting in accordance with the Judgment provisions. This report presents the activities of the Watermaster for calendar year 2019 together with the annual accounting of extractions and deliveries for calendar year 2018.

#### **History of Litigation**

Before the turn of the twentieth century, the various water service organizations diverting surface water from the Santa Ana River and pumping from the underground water basins supplied by the underflow of the Santa Ana River and its tributaries have from time to time engaged in litigation over water rights within the San Bernardino, Riverside and Orange County areas.

On October 18, 1963, the Orange County Water District (OCWD) filed suit against the City of Chino and others in the Superior Court of the State of California in and for the County of Orange (Orange County Court), seeking an adjudication of water rights against more than 2,500 water users in the Santa Ana River Watershed tributary to Prado Dam. Included among the defendants were the Chino Basin Municipal Water District (now Inland Empire Utilities Agency), Western Municipal Water District of Riverside County (Western), San Bernardino Valley Water District and Municipal (San Bernardino Valley). Thirteen cross complaints were filed in 1968, which

extended the adjudication to more than 1,500 water users in the area downstream from Prado Dam, which included OCWD. Thus, some 4,000 parties were involved in the suit, including the three upper districts and OCWD.

With a case of this magnitude, it became obvious that every effort should be made to arrive at an equitable settlement and a physical solution in order to obviate the enormous expense and unwieldy litigation which would be involved if the case were brought to trial.

Attorneys and engineers representing the four major districts and a large number of the defendants worked diligently in order to effect a settlement and some type of physical solution which would prove acceptable to all Parties.

As a result, in May of 1968, an outline of a proposal for settlement of the case was prepared and a committee, composed of attorneys and engineers for the Parties, commenced preparation of the settlement documents.

In June 1968, the Orange County Court held a hearing on the motions which it had received requesting a preliminary injunction and an order of reference. The plaintiff OCWD, however, was concerned with the necessity of bringing the case to trial within the statutory period, and therefore, on July 15, 1968, submitted a motion to set the complaint in the case for trial. On October 15, 1968, the trial was commenced and adjourned after a half day of testimony on behalf of the Plaintiff.

Shortly thereafter, the Parties filed settlement documents with the Orange County Court, including a stipulation for Judgment, and on April 17, 1969, the Court entered the stipulated Judgment, thus terminating the many years of controversy over water rights along the Santa Ana River involving the issues and Parties included in the case of Orange County Water District vs. City of Chino, et al.

During the settlement negotiations, it became apparent that the San Bernardino Valley entities would participate only in a part of the Orange County settlement, in the belief that they had no responsibility for the waters of the Santa Ana River downstream from the point of rising water at Riverside Narrows. Therefore, the settlement of the OCWD action established an obligation of San Bernardino Valley for the delivery of 15,250 acre-feet of Base Flow annually at the Riverside Narrows, subject, however, to adjustment for quality.

As a result of the Orange County settlement, it became apparent that a second settlement would be necessary between the Riverside and San Bernardino entities who diverted water from the Santa Ana River surface and groundwater sources supplied by the Santa Ana River and tributaries above the Riverside Narrows.

For some time, increasing withdrawals from groundwater resources above Bunker Hill Dike (San Jacinto Fault), which supplied in large part the water requirements of San Bernardino and Redlands as well as the Riverside exporters, had been the cause of concern to the exporters in Riverside County. As a result, on March 1, 1963, a suit was filed by Western and others, in the Superior Court of the State of California in and for the County of Riverside (Riverside Court) seeking a general adjudication of water rights within the San Bernardino Basin Area. This suit preceded the filing of the Orange County suit, and it was decided that this suit could well be used as a vehicle for a physical settlement between Riverside and San Bernardino interests.

Following extensive negotiations between Riverside and San Bernardino interests, a physical settlement was completed and documents delineating the settlement were entered in the Riverside Court on April 17, 1969, recorded as Judgment No. 78426.

On February 28, 1992 the Court approved an amendment to the Judgment that primarily addressed an issue regarding new export (Judgment Paragraph X). The amendment is referred to herein as the 1992 Amendment. A redline version of the 1969 Judgment showing the 1992 amendments is available electronically from the San Bernardino Valley or Western website.

#### **Summary of Judgment No. 78426**

The physical solution as agreed upon and as set forth in the Judgment states that all instructions and orders of the Riverside Court are to be administered and enforced by a Watermaster consisting of a committee of two persons, one of whom shall be nominated by San Bernardino Valley and the other by Western and appointed by the Court.

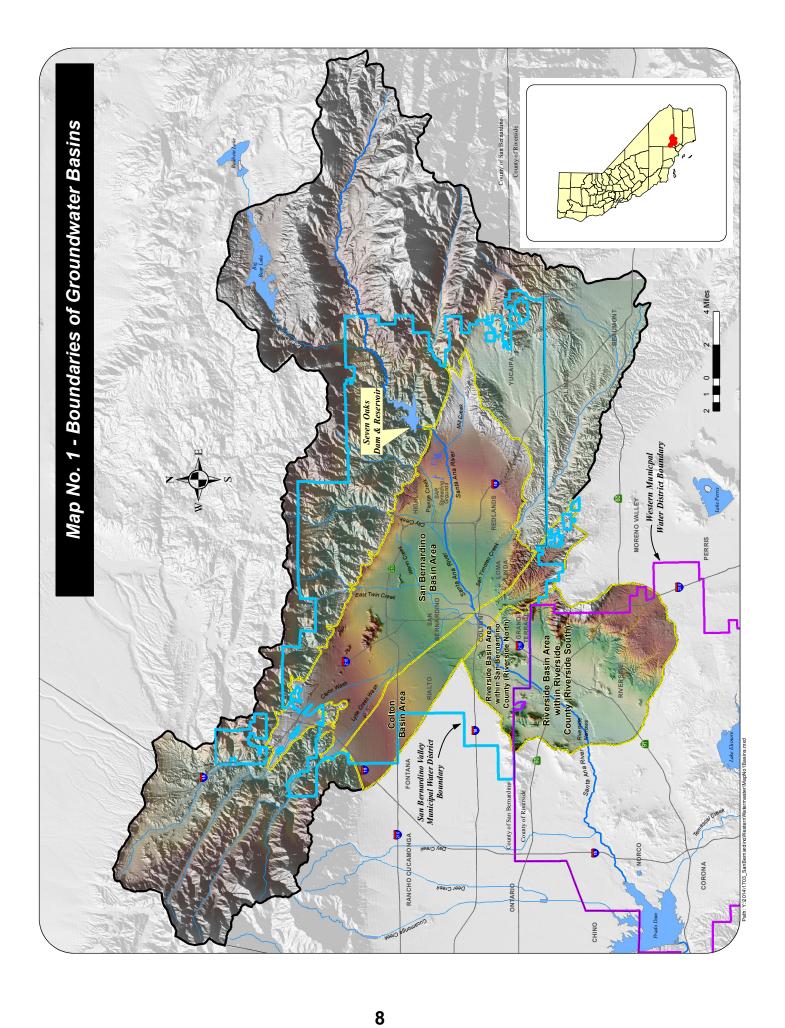
The Judgment directed the Watermaster to make certain initial determinations and to verify the amounts of water diverted and pumped from streams and groundwater basins embraced by the Judgment where such amounts had been assumed for purposes of the Judgment. Upon completion of the verifications and initial determinations, compliance with the Judgment requires an annual accounting of groundwater and surface water flows and diversions within the various basins in order that the Watermaster may properly report to the Riverside Court the comparisons of the year-by-year operations with the verified entitlements and an accounting as to the replenishment obligations or credits indicated by such comparison. The items verified or determined initially and to be reported on annually are as follows:

	Watermaster Determinations Required by Judgment	Verified for Five Calendar Years Ending with 1963	To be Determined Annually from and after 1971
1.	Total actual average annual extractions from the San Bernardino Basin Area by entities other than Plaintiffs for use within San Bernardino County.	x	x
2.	The natural safe yield of the San Bernardino Basin Area based upon the cultural conditions equivalent to those existing during the five-calendar year period ending with 1963.	1	1
3.	The annual 'adjusted right" of each exporter (Plaintiff) to extract water from the San Bernardino Basin Area based upon the percentage of the natural safe yield determined by the methods used in Table B-2 of the Judgment.	X	
4.	The annual production by Plaintiffs for comparison with adjusted right determined in item 3 next preceding.		х
5.	Annual discharge from the City of San Bernardino Water Quality Control Plant to the River as to quantity and quality.	2	х
6.	Average annual extractions from the Colton Basin Area for use outside San Bernardino Valley.	X	х
7.	Average annual extractions from the Riverside Basin Area within San Bernardino County for use outside San Bernardino Valley.	X	X
8.	The average static water level within the Colton Basin and Riverside Basin within San Bernardino County as determined by the three wells listed in Judgment.	3	x

	Watermaster Determinations Required by Judgment	Verified for Five Calendar Years Ending with 1963	To be Determined Annually from and after 1971
9.	The average annual extractions from that portion of the Riverside Basin Area in Riverside County which is tributary to the Riverside Narrows for use in Riverside County.	×	x
10.	Annual amounts of water extracted for use within Western from the San Bernardino Basin Area and the area downstream therefrom to the Riverside Narrows which have been exported for use outside the area tributary to the Riverside Narrows.	X	X
11.	Annual amount of water extracted from the San Bernardino Basin Area for use within San Bernardino County on lands which are not tributary to the Riverside Narrows and for use on lands within Colton and Riverside Basin Areas.	4	X
12.	Reduction in return flow now contributing to base flows at Riverside Narrows which results from conversion of agriculture using water within Western to domestic or other uses connected to sewage or waste disposal system, the effluent from which is not tributary to the rising water at Riverside Narrows.	5	X

- 1 Determined initially by supplemental order of the Court to be 232,100 acre-feet per annum. Such amount is subject to the continuing jurisdiction of the Court.
- 2 Assumed for purposes of Judgment to be 16,000 acre-feet annually, verification not required.
- 3 Established at 822.04 feet above sea level, based on fall season of 1963.
- 4 Revised by Watermaster during preparation of the Annual Report for calendar year 1974 then subsequently revised in 2012 in accordance with the 1992 Amendment.
- 5 Average for 5 years ending with 1963 established by Judgment to be 3,916 acres; verification not required.

The foregoing initial determinations and verifications required by the Judgment have been completed and were reported in the *Annual Report* of the *Western-San Bernardino Watermaster for Calendar Years 1971 and 1972* and continue to be reported in each Annual Report of the Watermaster. Map No. 1 shows the boundaries of the groundwater basins covered by the Judgment.



# CHAPTER II WATERMASTER ACTIVITIES

#### **CHAPTER II**

#### WATERMASTER ACTIVITIES

The Watermaster activities have included principally the collection, tabulation, and analysis of data, the maintenance of records, and the preparation of the Annual Report which presents the determinations and findings of the Watermaster as required by the Judgment.

The Annual Report is comprised of this summary document, separately compiled appendices and nine separately compiled data documents identified as Report of Watermaster, Volumes 1, 1A, and 2 through 8. Appendix A is a compilation of Annual Report Table Nos. 2 through 17 for 1971 to present. Appendix B is Volume 1, Table No. 8 and numerous tables in Volume 7 for 1971 to present. All appendices are in PDF format from which the data can be copied/converted electronically. Volumes 1 through 8 are the sources of data used to construct Tables Nos. 2 through 18 in this report and include hundreds of pages of raw data and calculations.

The Organization of Annual Report (Diagram No. 1), included at the end of this chapter, identifies which of the Volumes 1 through 8 is a source of data for each of the Annual Report Table Nos. 2 through 18. The diagram shows how hundreds of pages of data and calculations are summarized in the Annual Report tables. Annual Report Table Nos. 2 through 17 are used to address the four basic questions regarding compliance with four general provisions of the Judgment in Table No. 18 highlighted in blue at the bottom of the diagram.

#### **Groundwater Extractions**

The most important data required for implementing the provisions of the Judgment are the annual tabulations of the groundwater extractions and surface water diversions made within the San Bernardino, Colton, and Riverside Basin

Areas. These extractions and diversions were initially determined and verified for the 1959-63 Base Period and were assembled and summarized in the June 1972 Report of Watermaster; Volume 1, titled Verification of Extractions from San Bernardino Basin Area By Non-Plaintiffs; Volume 1A, titled Verification of Extractions from the San Bernardino Basin Area by Plaintiffs; Volume 2, titled Verification of Extractions from Colton Basin Area; Volume 3, titled Verification of Extractions from Riverside Basin Area Within San Bernardino County; and Volume 4, titled Verification of Extractions from Riverside Basin Area Within Riverside County. The Watermaster has established a system for tabulating annual notices of groundwater extractions and surface diversions filed with the State Water Resources Control Board or, since calendar year 2005, with the Watermaster. The filed data are verified by the Watermaster and provide the basis for the annual accounting of extractions as required by the Judgment. Such extractions have been determined for calendar year 2018 and are summarized herein. Listings of the verified extractions by each individual owner for calendar year 2018 are assembled in Report of Watermaster, Volumes 1-2018, 1A-2018, 2-2018, 3-2018, and 4-2018.

#### **Distribution of Extractions**

In addition to the annual accounting of the extractions from each basin, the Judgment also requires a determination as to the distribution of such extractions to the various service areas.

The distribution of verified extractions from the Colton and Riverside Basin Areas and the distribution of the Plaintiffs' extractions from the San Bernardino Basin Area were determined initially for the 1959-63 base period, and were reported in the June 1972 Report of Watermaster, Volume 5, titled *Distribution of Extractions*. Such distribution has been determined for calendar year 2018 and is summarized herein. Detailed work sheets are assembled in Report of Watermaster, Volume 5-2018.

The Watermaster is also required to determine the amount of water extracted from each of the various Basin Areas and delivered to areas not tributary to Riverside Narrows. Such amounts fall into two classifications, described as follows.

- The extractions from the San Bernardino Basin Area, Colton Basin Area, and Riverside Basin Areas for use within Western on lands not tributary to the Riverside Narrows, or
- 2) The extractions from the San Bernardino Basin Area for use on lands not within Western nor tributary to the Riverside Narrows.

The amount of water extracted and delivered under Classification No. 1 was determined initially for the 1959-63 Base Period and was reported in the Report of Watermaster, Volume 6, dated June 1972. The amount determined for calendar year 2018 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, Volume 6-2018.

The amount of water extracted and delivered under Classification No. 2 was determined for the 1959-63 Base Period and the additional years 1970 and 1971 and was published in the Report of Watermaster, Volume 7, dated February 1973. The amount was revised in Report of Watermaster, Volume 7, published September 6, 2013. The amount determined for calendar year 2018 is summarized herein. Detailed work sheets are assembled in the Report of Watermaster, Volume 7-2018.

#### **Groundwater Level Measurements**

Groundwater surface elevation data required for three key wells located in the Colton Basin Area and the Riverside Basin Area within San Bernardino County are currently furnished by the City of Riverside and Western.

These data are shown in both tabular and graphical form for calendar years 1963 through 2016 in Volume 8 of previous Watermaster reports. The determination for calendar year 2018 is shown in the Report of Watermaster, Volume 8-2018.

#### **Stream Flow and Water Quality Measurements**

The program of stream flow measurements conducted by the United States Geological Survey (USGS) in cooperation with the Watermaster has continued to provide basin inflow and stream diversion data.

The Western-San Bernardino Watermaster participates with the Santa Ana River Watermaster in part of the expense of the cooperative program with the USGS on surface water gages and water quality monitors at various locations. These expenses are presented in reports filed by the Santa Ana River Watermaster. The costs incurred for stream flow data collected and analyzed by the USGS on behalf of the Western-San Bernardino Watermaster are set forth in Table No. 1.

#### **Field Inspections**

During the annual verification process for extractions from the San Bernardino, Colton and Riverside Basin Areas, some of the pumping facilities installed for extraction of groundwater and diversion of surface water were visited by members of the Watermaster or their representatives. Contact was made with some of the extractors to review their methods of computing extractions for the annual reports that were filed with the Watermaster.

During the initial verification program in the San Bernardino Basin Area, it was found that some groundwater producers and several diverters of surface water did not file their extractions and diversions with the State Water Resources Control Board. This condition was found to exist in some locations during the current year, which again necessitated inspection trips and contacts with various owners by the Watermaster members or their representatives.

#### **Watermaster Collaborative Advisory Process**

The Watermaster is improving the ways in which it prepares and presents the information required under the Judgment to the Court, the Parties and other interested individuals. The Watermaster invited all interested persons and agencies to participate in a collaborative advisory process and on June 24, 2010 conducted the first Western-San Bernardino Watermaster Collaborative Advisory Process meeting. The Watermaster is continuing to meet with all interested parties in the collaborative process as needed. Numerous topics have been discussed at the meetings, including: Watermaster accounting procedures, the safe yield and the natural safe yield of the San Bernardino Basin Area, water resource activities within the San Bernardino Basin Area, basin management, conjunctive use and new conservation. The participants have elected to further refine groundwater basin and surface water hydrology models to better understand the operational characteristics of the San Bernardino Basin Area and for use in calculating new conservation.

## Annual Report Modifications New Conservation

One of the principal efforts of Watermaster and the collaborative group has been to make new conservation water resulting from operation of Seven Oaks Reservoir available for extraction and use by Plaintiffs and users within San Bernardino Valley. The determination of the amount of new conservation was the initial element of work. Developing a methodology for making the water available for extraction and accounting for its use in the Annual Report has been another major element.

As the work progressed, it quickly became apparent that Annual Report tables needed to be modified to include new conservation. However, it also

became apparent that changes unrelated to new conservation could be made to make the report more accurate, more readable and more useful as a source of water resource data.

Report sections describing modifications have been added at the end of Chapter III, Chapter VII, Chapter VIII and Chapter IX to describe changes relevant to provisions of the Judgment addressed in each of these chapters.

Chapter III includes modifications to Table Nos. 2 and 3 to accomplish the following.

- To make available to Plaintiffs and San Bernardino Valley, new conservation water resulting from operation of Seven Oaks Reservoir through further adjustment of the Adjusted Right pursuant to Judgment Paragraphs VI(b) and VI(c).
- 2) To account for extraction of new conservation water, including any such water made available by agreement between Western and San Bernardino Valley pursuant to Judgment Paragraph VI(b)6.
- 3) To improve understanding and readability of the Annual Report by relocating the accounting for high groundwater mitigation program related extractions from footnotes in Table Nos. 2, 10 through 13 and 17 to columns in Table Nos. 2 and 3.

Chapter VII includes a modification to Table No. 8 to allow the calculations of export past Riverside Narrows to be better understood. The modification consists of conforming the logic used to adjust such export by users within Western, as provided for in the high groundwater mitigation agreements, to match the logic used to similarly adjust export from the San Bernardino Basin Area by users other than Plaintiffs. Such adjustment has previously been made

in Report of Watermaster, Volume 6, and therefore was reflected in Table No. 8. After modification the adjustment is made later in Table No. 14.

Chapter VIII includes modifications of Table No. 9 necessary to more accurately reflect the effect of extractions used outside the San Bernardino Basin Area on storage in the Basin and to account for deliveries to the Colton and Riverside Basin Areas in a manner consistent with the amendments to the Judgment approved by the Court in 1992. The modified Table No. 9A now shows the extractions from the San Bernardino Basin Area that are exported for use in the Chino, Yucaipa, San Timoteo, Oak Glen and Beaumont Basins. Table No. 9B shows similar extractions delivered in the Colton and Riverside Basin Areas.

Chapter IX includes modifications of Table Nos. 10 through 18 generally described as follows.

- 1) Table Nos. 10 through 13 are modified to improve readability and usefulness by relocating data that was previously in footnotes to columns in Table Nos. 3A through 3D. To improve understanding, column headings in Table Nos. 10 through 13 are also modified to create consistency with Table Nos. 3A through 3D and the text of the Annual Report. In the August 1, 2014 Annual Report, Table Nos. 10A through 13A were added in order to show the Plaintiffs allowable extractions for the current calendar year with and without the available imported water and new conservation water.
- 2) Table Nos. 14 and 15A are modified to provide clarity and consistent logic for applying adjustments to the total new export. The modifications include a deduction from the total new export of the amount of additional water allowed to be

extracted pursuant to the high groundwater mitigation program Judgment Paragraph VI(b)6 agreements. Such inclusion in Table No. 15A permitted high groundwater mitigation program related data to be removed from footnotes on Table No. 17. Similarly, the inclusion in Table No. 14 allowed the deduction to be deleted in Report of Watermaster, Volume 6. As a result, the logic for addressing the new export calculations associated with the high groundwater mitigation program is the same in both Table No. 16 and Table No. 17. Table No. 15B has been added to account for the loss of return flow resulting from delivery of San Bernardino Basin Area extractions to the Colton Such accounting maintains and Riverside Basin Areas. hydrologic integrity in the San Bernardino Basin Area and enables Watermaster to provide San Bernardino Valley with credit in the Colton and Riverside Basin Areas for the return flow resulting from deliveries to these Basins of San Bernardino Basin Area extractions and imported water pursuant to Judgment Paragraph X as amended in 1992.

Table Nos. 16 and 17 are summary tables and have been modified primarily to express the determinations of credit or obligation in uniformly defined terms that result in data that is more accurate and more directly useable for purposes other than determining compliance with the Judgment. The determination of the net accumulated credit or obligation for Western and San Bernardino Valley is based on a summation of all activities or water transfers that affect groundwater storage in the San Bernardino Basin Area or storage in the

Colton and Riverside Basin Areas which in turn can affect Base Flow at Riverside Narrows. The tables have been modified to show how the amount of each type of water transfer affects water in storage. This modification in Table No. 17 may prove useful in making comparisons between the calculation of change in groundwater storage based on the annual average yield associated with the natural safe yield determination by Watermaster and the storage change based on water level data. Such comparison is unnecessary for determination of compliance with the Judgment. In 2015, Table No. 17 was modified to include an accounting for Big Bear Lake in-lieu exchange water as an obligation of San Bernardino Valley, and thereby, more accurately address the effects of the in-lieu exchange program on storage in the basin. Partial accounting of such obligation was deleted from Volume 1, Table No. 8, and in addition, Volume 7, Table No. 22 was modified.

4) Table Nos. 17A, 17B-1 through 17B-4 and 17C are used to account for Western imported water (17A), Plaintiffs new conservation water (17B) and Riverside Basin mitigation water (17C) in the San Bernardino Basin Area. Table No. 17A was modified and Table Nos. 17B-1 through 17B-4 were added to account for Plaintiffs new conservation water in the September 6, 2013 Annual Report. Table No. 17B-5 was added to account for San Bernardino Valley's new conservation water. Table No. 17C was added in the April 1, 2014 Annual Report to account for Riverside Basin mitigation related to Seven Oaks water conserved in the San Bernardino Basin Area. In this Annual

Report, Table Nos. 17A and 17B-1 through 17B-4 have been modified to include an accounting for transfers of imported water pursuant to Paragraphs 5 and 11 of Judgment Paragraph VI(b)6 agreements dated August 18, 2004 and July 17, 2013, respectively.

5) Table No. 18 has been modified to more clearly address the four basic questions regarding compliance with four general requirements of the Judgment. The table clearly indicates: a) if Plaintiffs are in compliance with provisions of the Judgment; b) if any replenishment is required in the San Bernardino Basin Area by San Bernardino Valley; and c) and d) if either Western or San Bernardino Valley may be required to provide replenishment between the Bunker Hill Dike and Riverside Narrows.

# Annual Report Modifications Database Improvements

Some tables and sections in the 2019 Annual Report may have data values that have been revised from previous annual reports. In 2014, the Watermaster began a database update and improvement process to enhance the well recordation program for both well owner and the Watermaster. As this transitional work progressed, comparisons of previously reported data were made using the old and new data processes. Where inconsistencies were found, methodical research was conducted to validate information used and a determination was made by the Watermaster to correct all information reported. Watermaster will develop specific data footnotes in future annual reports as appropriate and warranted. Therefore, in July 2019, in order to establish consistency,

Watermaster adopted a procedure to hold all data before 2014 static. Although unlikely, Watermaster can modify pre-2014 data should it become necessary.

T 17B-5 T 17C Extractions ٧1 Return from Imported Water Sources of Data for Determining Western and Valley Required Replenishment Replenishment T 15B Valley Replenishment Valley Replenishment to 822.04 feet 8 > T 18 Return from Imported Water Storm Flows Conserved Replenishment **ORGANIZATION OF ANNUAL REPORT** 9 / Western Replenishment **DIAGRAM No. 1** Plaintiff Extractions Extractions 17 Land Use Conversion T 17B-4 T 17A T 13A Sources of Data for Plaintiff Compliance in SBBA **V** 5 T 17B-3 T 17A T 12A T 12 T 178-2 T 17A T 11A T 17B-1 T 17A T 17C T 10A

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- 1A Verified Extractions from the San Bernardino Basin Area by Plaintiffs
- 2 Verified Extractions from the Colton Basin Area
- 3 Verified Extractions from the Riverside Basin Area Within San Bernardino County
- 4 Verified Extractions from the Riverside Basin Area Within Riverside County
- 5 Distribution of Extractions
- 6 Verified Extractions from the San Bernardino Basin Area, Colton Basin Area, and Riverside Basin Area for Use Within Western on Lands Not Tributary to the Riverside Narrows
- 7 Verified Extractions from the San Bernardino Basin Area for Use on Lands Not Within Western Nor Tributary to the Riverside Narrows and for Use on Lands Within Colton Basin Area
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- Adjusted Right to Extract and Verified Extractions of Other Than Plaintiffs From the San Bernardino Basin Area
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- 3B-1 Adjusted Right of Riverside Highland Water Company to Extract From the San Bernardino Basin Area For Use in Each Service Area
- 3B-2 Verified Extractions by Riverside Highland Water Company From the San Bernardino Basin Area For Delivery to Each Service Area
- 3C-1 Adjusted Right of Agua Mansa Water Company and Meeks & Daley Water Company to Extract From the San Bernardino Basin Area For Use in Each Service Area
- 3C-2 Verified Extractions by Agua Mansa Water Company and Meeks & Daley Water Company From the San Bernardino Basin Area For Delivery to Each Service Area
- 3D-1 Adjusted Right of The Regents of the University of California to Extract From the San Bernardino Basin Area For Use in Each Service Area
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#### DIAGRAM NO. 1 INDEX

- Verified Extractions from Riverside Basin Area Within San Bernardino County by San Bernardino and Riverside County Entities For Use In Each County
- Verified Extractions From Riverside Basin Area Within Riverside County

  For Use In Riverside County
- Reduction in Return Flow Contributing to Base Flow at Riverside Narrows
  Resulting From Conversion of Agricultural Uses of Water to Domestic
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- 8 Verified Extractions From the San Bernardino Basin Area, the Colton Basin Area, and the Riverside Basin Area For Use Within Western on Lands That Are Not Tributary to the Riverside Narrows
- 9A Verified Extractions from the San Bernardino Basin Area For Use on Lands Not Within Western Nor Tributary to Riverside Narrows
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- Annual Accounting of Extractions by the City of Riverside From the San Bernardino Basin Area For Delivery to Each Service Area
- 10A Allowable Extractions by the City of Riverside From the San Bernardino Basin Area For Delivery to Each Service Area
- Annual Accounting of Extractions by Riverside Highland Water Company From the San Bernardino Basin Area For Delivery to Each Service Area
- 11A Allowable Extractions by Riverside Highland Water Company From the San Bernardino Basin Area For Delivery to Each Service Area
- Annual Accounting of Extractions by Agua Mansa Water Company and Meeks & Daley Water Company From the San Bernardino Basin Area For Delivery to Each Service Area
- 12A Allowable Extractions by Agua Mansa Water Company and Meeks & Daley Water Company From the San Bernardino Basin Area For Delivery to Each Service Area
- Annual Accounting of Extractions by The Regents of The University of California From the San Bernardino Basin Area For Delivery to Each Service Area
- 13A Allowable Extractions by The Regents of The University of California From the San Bernardino Basin Area For Delivery to Each Service Area
- Annual Accounting for Western Municipal Water District Export of Extractions From San Bernardino Basin Area, Colton Basin Area, and Riverside Basin Area for Use Within Western on Lands That Are Not Tributary to the Riverside Narrows
- 15A Annual Accounting for San Bernardino Valley Municipal Water District Export of Extractions from San Bernardino Basin Area For Use on Lands Not Within Western Nor Tributary to the Riverside Narrows

#### DIAGRAM NO. 1 INDEX

- Annual Accounting for San Bernardino Valley Municipal Water District Delivery of Extractions from San Bernardino Basin Area For Use on Lands Within Colton and Riverside Basin Areas
- Annual Accounting for Western Extractions From Colton Basin Area and Riverside Basin Area within Riverside and San Bernardino Counties for Use Outside San Bernardino Valley
- 17 Annual Accounting for San Bernardino Valley Municipal Water District Extractions From San Bernardino Basin Area
- 17A Annual Accounting for Additional Extractions of Imported Water From San Bernardino Basin Area by Western Municipal Water District
- 17B-1 Annual Accounting for Additional Extractions of New Conservation Water and Imported Water From San Bernardino Basin Area by City of Riverside
- 17B-2 Annual Accounting for Additional Extractions of New Conservation Water and Imported Water From San Bernardino Basin Area by Riverside Highland Water Company
- 17B-3 Annual Accounting for Additional Extractions of New Conservation Water and Imported Water From San Bernardino Basin Area by Aqua Mansa Water Company and Meeks & Daley Water Company
- 17B-4 Annual Accounting for Additional Extractions of New Conservation Water and Imported Water From San Bernardino Basin Area by The Regents of The University of California
- 17B-5 Annual Accounting for Additional Extractions of New Conservation Water From San Bernardino Basin Area by Entities in San Bernardino County Other Than Plaintiffs
- 17C Annual Accounting for Riverside Basin Mitigation Account Related to Seven Oaks Water Conserved in San Bernardino Basin Area
- 18 Summary of Compliance with Four Principal Provisions of the Judgment

# TABLE NO. 1 COSTS TO THE PARTIES FOR USGS SURFACE WATER MEASUREMENTS USED BY WESTERN-SAN BERNARDINO WATERMASTER

November 1, 2018 to October 31, 2019

1, 2010 to 00,000 01, 2010		
	Parties Share of Cost	USGS Share of Cost
Santa Ana River near Mentone	\$15,650	\$7,850
Santa Ana River near Mentone Supplemental	9,400	4,750
Mill Creek near Mentone	16,750	0
Plunge Creek near Highland Streamflow	15,650	7,850
City Creek Canal near Highland	9,400	4,750
City Creek near Highland Streamflow	15,650	7,850
San Timoteo Creek near Loma Linda	0	26,050
East Twin Creek near Arrowhead Springs	15,650	7,850
Waterman Canyon Creek near Arrowhead Springs	15,650	7,850
Santa Ana River at E Street	16,650	0
Warm Creek near San Bernardino	15,650	7,850
Lytle Creek at Fontana Union Water Company Head Gates		
Infiltration Pipeline Meter	3,650	1,850
Lytle Creek near Fontana Streamflow	0	26,050
Weir No. 2 and No. 3 — Head Gate Diversion	15,650	0
20-ft. Weir — Forebay Spillway Return to Creek	15,650	0
Southern California Edison Lower Powerhouse on Lytle Creek		
20-ft. Weir — Discharge of Lower Powerhouse	1,400	0
Parshall Flume — Return to Creek from Afterbay	15,650	0
20-ft. Weir to West Fontana Union Diversion	0	0
Cajon Creek below Lone Pine Creek near Keenbrook	15,650	7,850
Devil Canyon Creek near San Bernardino	15,650	7,850
Lytle Creek at Colton	<u>15,650</u>	<u>7,850</u>
SUBTOTAL FOR PARTIES	\$245,050	
SUBTOTAL FOR UNITED STATES GEOLOGICAL SURVEY	=	\$134,100
TOTAL COST FOR SURFACE WATER MEASUREMENTS		\$379,150

#### **CHAPTER III**

### EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA

#### CHAPTER III

### EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA

The extractions from the San Bernardino Basin Area have been classified as first, those extractions and diversions for use by other than Plaintiffs and second, those extractions and diversions for use by Plaintiffs.

The total verified extractions by other than Plaintiffs for calendar years 1971 through 2018, together with five-year totals, are shown on Table No. 2. The individual work sheets for the 2018 verifications are included in Report of Watermaster, Volume 1-2018.

The total verified extractions from the San Bernardino Basin Area by Plaintiffs for the calendar years 1971 through 2018, are shown on Table No. 3. The individual work sheets for the 2018 verifications and distribution of extractions by Plaintiffs are included in Report of Watermaster, Volume 1A-2018 and Volume 5-2018.

For reference, the Adjusted Rights of other than Plaintiffs and Plaintiffs are also shown on Table Nos. 2 and 3. Commencing in 2013, the Adjusted Rights include part of the new conservation resulting from operation of Seven Oaks Reservoir pursuant to Judgment Paragraphs VI(b) and VI(c). The part included consists of the average annual new conservation that is forecast to occur over a long term at the existing or enhanced Santa Ana River Spreading Grounds. Table Nos. 2 and 3 show the Adjusted Right as the sum of the Safe Yield Adjusted Right and the New Conservation Allocation resulting from the long term forecast commencing in 2013.

Table Nos. 2 and 3 also show that extractions are equal to the total extractions minus any additional extractions which are allowed pursuant to

Judgment Paragraph VI(b)6 agreements. Additional extractions have been allowed in the past to mitigate high groundwater conditions and to allow extraction by Plaintiffs of imported water recharged by Western pursuant to a Judgment Paragraph VI(b)6 agreement. In the future, any new conservation resulting from operation of Seven Oaks Reservoir that is not recharged at the existing or enhanced Santa Ana River Spreading Grounds may be made available to users through Judgment Paragraph VI(b)6 agreements and similarly accounted for in Table Nos. 2 and 3 as additional extractions.

Paragraph VII of the Judgment titled *Water Discharged Across Bunker Hill Dike* recites as follows:

"San Bernardino Valley shall keep in force an agreement with the City of San Bernardino that the present annual quantity of municipal sewage effluent discharged across Bunker Hill Dike, assumed for all purposes herein to be 16,000 acre-feet annually, shall be committed to the discharge of the downstream obligations imposed on San Bernardino Valley under this Judgment or under the Orange County Judgment, and that such effluent shall comply with the requirements of the Santa Ana River Basin Regional Water Quality Control Board in effect December 31, 1968."

The Judgment does not charge the Watermaster with verification of the 16,000 acre-feet amount of sewage effluent discharge or the enforcement of the water quality requirements.

Watermaster receives discharge data from the City of San Bernardino for sewage effluent discharged from two locations to the Santa Ana River: Santa Ana River (Plant No. 2), and through the Rapid Infiltration and Extraction System (RIX).

Following review of the data provided by the City of San Bernardino, Watermaster makes its determination. The data is provided in the following table.

Calendar	Plant No. 1	Plant No. 2	Total	RIX
Year	(Acre-Feet)	(Acre-Feet)	(Acre-Feet)	(Acre-Feet)
				San Bernardino
1971	5,705	8,925	14,630	and
1972	6,784	9,963	16,747	Colton
1973	-	17,640	17,640	combined
1974	-	17,070	17,070	flows
1975	-	16,820	16,820	
1976	_	17,530	17,530	
1977	_	17,720	17,720	
1978	_	18,690	18,690	
1979	-	19,350	19,350	
1980	-	20,670	20,670	
1981		21,120	21,120	
1982	-	24,493	24,493	
1983	•	23,170	23,170	
1984	_	21,759	21,759	
1985	<u>.</u>	23,814	23,814	
	-			
1986	-	25,442	25,442	
1987	-	27,154	27,154	
1988	-	27,290	27,290	
1989	-	28,300	28,300	
1990	-	27,770	27,770	
1991	-	26,980	26,980	
1992	-	25,510	25,510	
1993	-	24,660	24,660	
1994	-	24,790	24,790	
1995	-	26,260	26,260	
1996	_	6,610	6,610	30,880
1997	_	0,010	0,510	44,950
1998	_	0	0	48,710
1999	-	0	0	48,040
2000	-	0	0	47,230
2001		0	0	47,250
2001	-	0	0	47,250 43,828
2002	_	242		45,713
2004	_	286		44,501
2005	_	4,249		42,267 2
	_	•	·	
2006	-	1,155		44,979 2
2007	-		1,2 75	43,153
2008	-	568		42,140
2009	-	217		40,634
2010	-	755	1 755	40,157
2011	-	766		39,057
2012	-	76		37,326
2013	-	44		35,022
2014	-	145	1 145	32,809
2015	-	0	0	31,599
2016	_	0	0	33,075
2017	_	0	0	
	-			35,236
2018	-	0	0	31,677

<sup>1</sup> Direct discharge of treated wastewater flows to SAR when the SAR flow rate at "E" Street Gage is adequate to provide 20:1 dilution.

<sup>2</sup> Amount corrected during a subsequent year verification of extractions.

### Annual Report Modifications Table Nos. 2 and 3

In 2012, Western and San Bernardino Valley contracted with GEOSCIENCE Support Services and SAIC (GEOSCIENCE/SAIC) to perform the following tasks.

- Calculate the amount of new conservation resulting from the operation of Seven Oaks Reservoir from 1998 through 2012.
- 2) Forecast the long term average annual amounts of Seven Oaks related new conservation likely to occur at the downstream spreading grounds under each of the following assumed conditions.
  - a. Current delivery and recharge capability of 195 cfs
  - b. Expanded delivery and recharge capability of 300 cfs, and
  - c. Expanded delivery and recharge capability of 500 cfs.
- Allocate the new conservation among the Plaintiffs and San Bernardino Valley in proportion to their respective share of the natural safe yield.

The results of the GEOSCIENCE/SAIC work is summarized as follows:

#### **New Conservation Allocation**

Party	Amount for Prior Years 1998-2012 AF	Forecast Amounts for 195 cfs Diversion AF/yr	Forecast Amounts for 300 cfs Diversion AF/yr	Forecast Amounts for 500 cfs Diversion AF/yr
City of Riverside	9,635	1,719	2,235	2,431
Riverside Highland Water Co.	793	141	184	200
Meeks and Daley Water Co.	1,448	258	336	365
University of California	98	18	23	25
San Bernardino Valley	30,866	<u>5,507</u>	<u>7,161</u>	<u>7,787</u>
Total	42,840	7,643	9,939	10,807

Forecasts for diversion of 300 cfs and 500 cfs are based on planned enhancement of the delivery and recharge facilities. Construction of these facilities has not been completed. Therefore, the new conservation allocations included in the Adjusted Right commencing in calendar year 2013 are the amounts forecast to result from the current diversion capacity of 195 cfs. At the time enhanced recharge facilities become operational, the Watermaster will consider increasing the new conservation allocation, thereby further increasing the Adjusted Right for users other than Plaintiffs in Table No. 2 and Plaintiffs in Table Nos. 3A-1 through 3D-1.

New conservation related to operation of Seven Oaks Reservoir will be made available for extraction by Plaintiffs and users in San Bernardino Valley through different mechanisms for each of three components of the new conservation. The component resulting from recharge at the Santa Ana River Spreading Grounds is made available through a further adjustment of the Adjusted Right as provided in Judgment Paragraphs VI(b) and VI(c). The components resulting from determination of prior years (1998-2012) new conservation and future new conservation resulting from direct use or recharge at locations other than the Santa Ana River Spreading Grounds will likely be made available through the existing and future Judgment Paragraph VI(b)6 agreements. The future VI(b)6 agreements will likely be entered following any major hydrologic event (wet year) that results in conservation at locations other than the Santa Ana River Spreading Grounds provided the capability of the Spreading Grounds was exceeded.

The specific mechanisms that will be used to account for all three components of new conservation as well as other types of additional water made available pursuant to existing or future Judgment Paragraph VI(b)6 agreements are as follows.

- 1) A mechanism to increase the Adjusted Right of Plaintiffs and San Bernardino Valley to reflect the amounts of new conservation forecast to result from long term operation of Seven Oaks Reservoir and diversion of increased amounts, relative to amounts diverted using safe yield practices, for recharge at the downstream spreading grounds. (See the second, third, and fourth data columns in the table above) This increase in Adjusted Right is pursuant to Judgment Paragraphs VI(b) and VI(c). (New Conservation)
- 2) available **Plaintiffs** Α mechanism to make to and San Bernardino Valley, when needed offset excess to extractions, the amount of allocated new conservation determined by Watermaster to have resulted from operation of Seven Oaks Reservoir from 1998 through 2012. (See the first data column in the table above) Such amounts are made available through the 2013 additional extractions agreement entered by Western and San Bernardino Valley pursuant to Judgment Paragraph VI(b)6 and approved by the Court on November 19, 2013. (New Conservation)
- available 3) mechanism to make to **Plaintiffs** and San Bernardino Valley, when needed offset excess to extractions, the amount of allocated new conservation determined by Watermaster to have resulted from a future major hydrologic event that resulted in direct use of Seven Oaks water or recharge of the San Bernardino Basin Area with Seven Oaks water in areas other than the Santa Ana River Spreading Grounds provided the capability to recharge at

the Spreading Grounds has been fully utilized. Such wet year hydrologic events are forecast to occur in the future on average in one out of five years. The long term average annual amount of new conservation that could result from such events is forecast to be about 10,000 acre-feet per year. The specific amounts of new conservation will be set forth in Judgment Paragraph VI(b)6 agreements that will allow additional extractions. (New Conservation)

- 4) A mechanism to account for the additional extractions that occurred between 1981 and 2004 for the purpose of mitigating the high groundwater condition. Such additional extractions were made pursuant to numerous Judgment Paragraph VI(b)6 agreements and were previously accounted for in footnotes on Table Nos. 2, 10 through 13 and 17. (High Groundwater Mitigation)
- 5) A mechanism to account for extractions of water pursuant to the 2004 replenishment and extraction agreement that allows Western or Plaintiffs to extract recharged imported water. (Western's Extraction of Imported Water)
- 6) A mechanism to account for Plaintiffs transfer to Western of an amount of water equal to all or a part of Plaintiffs unused water right in the San Bernardino Basin Area, subject to the provisions of Paragraph 11 of the 2013 agreement referenced in 2) above.

Paragraph 10 of the 2013 agreement referenced in the second mechanism described above provides that any amount of replenishment in the San Bernardino Basin Area resulting from the 1998 through 2012 operation of

Seven Oaks Reservoir and related diversion and spreading facilities that, in the absence of such operation, would have been replenished in the Riverside Basin, shall not be considered new conservation and shall not be allocated for use by Plaintiffs and users within San Bernardino Valley and shall instead be included in a Riverside Basin Mitigation Account. The agreement further provides that the City of Riverside may be required to increase extractions from its wells in the San Bernardino Basin Area and reduce extractions in its Flume Tract wells in the Riverside Basin by the same amount. Such change in location of extractions effectively transfers to the Riverside Basin, water that is conserved in the San Bernardino Basin Area through Seven Oaks related operations that would otherwise have been conserved in the Riverside Basin. Such transfers mitigate the adverse effects of Seven Oaks new conservation and reduce the amount in the Riverside Basin Mitigation Account. The amount in the Riverside Basin Mitigation Account may also be reduced by extraction of water from the San Bernardino Basin Area by producers other than Plaintiffs that is subsequently recharged in the Riverside Basin.

The GEOSCIENCE/SAIC work referenced previously resulted in a determination of the following amounts of conserved water that should be included in the Riverside Basin Mitigation Account.

- An initial amount of 2,713 acre-feet resulting from Seven Oaks related conservation operations in prior years 1998 through 2012.
- An annual amount of 483 acre-feet/year, commencing in 2013, resulting from Seven Oaks related conservation operations based on the current diversion capacity of 195 cfs.

The accounting for amounts included in the Riverside Basin Mitigation Account and the amounts extracted in exchange for Riverside Basin extractions and for Riverside Basin recharge is shown on Table No. 17C. The amounts extracted are included in Table Nos. 2 and/or 3A-2 as Additional Extractions. Additional extractions are excluded from determination of Plaintiff's compliance with the Judgment and the determination of San Bernardino Valley replenishment obligations in the San Bernardino Basin Area.

The sixth mechanism described above also references the 2013 Judgment Paragraph VI(b)6 agreement. Paragraph 11 of the 2013 agreement provides that commencing in 2013 Plaintiffs may transfer to Western an amount of water equal to all or a part of Plaintiffs unused water right in the San Bernardino Basin Area provided the amount of such transfer, plus any remaining balance of such water transferred previously, may not exceed the Plaintiffs aggregate amount of previously transferred right to extract imported water pursuant to Paragraph 5 of the 2004 Judgment Paragraph VI(b)6 agreement.

Paragraph 11 was included in the 2013 agreement in partial response to an agreement dated March 20, 2007 among Western, San Bernardino Valley and the City of Riverside wherein the parties agreed to use their best efforts to implement an accounting methodology that would allow Plaintiffs to fully utilize their water rights in the San Bernardino Basin Area. Paragraph 11 essentially establishes a "buffer" for each Plaintiff equal to the amount of previously transferred right to extract imported water (see fifth mechanism above). Plaintiffs may transfer unused water right or under extractions into the "buffer" and also use the "buffer" to address excess extractions thereby making greater utilization of Plaintiffs water right than would otherwise be possible. Since the "buffer" results only from transfers of imported water, the storage of native water or safe yield is not adversely affected.

This Annual Report includes modifications to Table Nos. 17B-1 through 17B-4 and 17A to account for the transfers resulting from implementation of Paragraph 11 of the 2013 Agreement. Tables Nos. 17B-1 through 17B-4 were originally designed to account for new conservation water allocated to each Plaintiff by Watermaster. These tables have been expanded to include an accounting for the imported water transfers associated with implementation of Paragraph 11. Therefore, in addition to showing the remaining balance of new conservation water allocations, the table shows the imported water net accumulated balance or "buffer" balance at the end of each year. The table is designed to ensure that the imported water balance does not exceed the total amount of right to extract imported water transferred from Western to a Plaintiff pursuant to the 2004 Judgment Paragraph VI(b)6 agreement.

Table No. 17A was modified in this Annual Report to function as a repository for the Plaintiffs "buffer" water. So, in addition to accounting for the acquisition and extractions of imported water, the table also accounts for the sum of all "buffer" transfers by Plaintiffs and shows the Plaintiff imported water net accumulated balance at the end of each year.

In addition to changes needed to address new conservation and Plaintiff transfers of imported water, Table Nos. 2 and 3 were also modified to improve the readability of the report and improve the accuracy of the extraction data. Annual reports prior to calendar year 2012 accounted for additional extractions (mainly high groundwater) through numerous footnotes with data in Table Nos. 2, 3, 10 through 13 and 17. By adding a column titled Additional Extractions in Table Nos. 2 and 3, the data in these footnotes were eliminated and the report is more easily read and understood.

In 2015, Table No. 17 was modified to include a San Bernardino Valley obligation entitled "In-Lieu Deliveries Obligation." Such obligation is pursuant to a

1996 agreement between Big Bear Municipal Water District and San Bernardino Valley wherein San Bernardino Valley agreed to deliver imported water and/or pumped groundwater to Bear Valley Mutual Water Company (BVMWC) in-lieu of a like amount of stream diversion of native water not released from Big Bear Lake and retained in the lake for the benefit of the local community.

In 2013, Volume 1, Table No. 8 was modified to account for the direct delivery component of San Bernardino Valley's obligation. However, in calendar year 2014, in-lieu groundwater was also delivered. With the addition of the "In-Lieu Deliveries Obligation" to Table No. 17, the in-lieu accounting in Volume 1, Table No. 8 and Volume 7, Table No. 22, was eliminated.

TABLE NO. 2 Page 1a of 2

## ADJUSTED RIGHT TO EXTRACT AND VERIFIED EXTRACTIONS OF OTHER THAN PLAINTIFFS FROM THE SAN BERNARDINO BASIN AREA ANNUAL TOTALS

(All Values in Acre-Feet)

		Adjusted Right	/alues in Acre-	reet)	Extractions		
	Safe Yield	New			LAtractions		
Calendar	Adjusted	Conservation	Adjusted	Total	Additional		
Year	Right 1	Allocation 2	Right 3	Extractions	Extractions		Extractions
			<u> </u>				
1971	171,342		171,342	163,186			163,186
1972	167,238		167,238	167,227			167,227
1973	167,238		167,238	159,781			159,781
1974	167,238		167,238	158,685			158,685
1975	167,238		167,238	151,681			151,681
1976	167,238		167,238	144,317			144,317
1977	167,238		167,238	144,811			144,811
1978	167,238		167,238	137,040			137,040
1979	167,238		167,238	154,807			154,807
1980	167,238		167,238	159,422			159,422
1981	167,238		167,238	172,639			172,639
1982	167,238		167,238	153,040			153,040
1983	167,238		167,238	146,434			146,434
1984	167,238		167,238	180,808			180,808
1985	167,238		167,238	177,919	10,681	4	167,238
1986	167,238		167,238	184,734			184,734
1987	167,238		167,238	172,501	5,263	5	167,238
1988	167,238		167,238	181,425	14,187	6	167,238
1989	167,238		167,238	173,530			173,530
1990	167,238		167,238	167,272			167,272
1991	167,238		167,238	166,347			166,347
1992	167,238		167,238	172,913	5,675	7	167,238
1993	167,238		167,238	178,372	11,134	8	167,238
1994	167,238		167,238	187,507	18,013	9	169,494
1995	167,238		167,238	182,171	14,933	10	167,238
1996	167,238		167,238	189,419	18,013	11	171,406
1997	167,238		167,238	188,504	18,013	12	170,491
1998	167,238		167,238	198,857	18,013	13	180,844
1999	167,238		167,238	197,273	30,035	14	167,238
2000	167,238		167,238	188,233	20,995	15	167,238
	- /		- ,	,	- /	, ,	- ,

TABLE NO. 2 Page 1b of 2

## ADJUSTED RIGHT TO EXTRACT AND VERIFIED EXTRACTIONS OF OTHER THAN PLAINTIFFS FROM THE SAN BERNARDINO BASIN AREA ANNUAL TOTALS

(All Values in Acre-Feet)

		Adjusted Right			Extractions		
Calendar Year	Safe Yield Adjusted Right 1	New Conservation Allocation 2	Adjusted Right 3	Total Extractions	Additional Extractions		Extractions
2001	167,238		167,238	177,361	10,123	16	167,238
2002	167,238		167,238	181,543	14,305	17	167,238
2003	167,238		167,238	171,017	,	••	171,017
2004	167,238		167,238	178,460	11,222	18	167,238
2005	167,238		167,238	189,207	,		189,207
2006	167,238		167,238	207,323			207,323
2007	167,238		167,238	192,866			192,866
2008	167,238		167,238	191,536			191,536
2009	167,238		167,238	173,087			173,087
2010	167,238		167,238	163,795			163,795
2011	167,238		167,238	172,755			172,755
2012	167,238		167,238	172,505			172,505
2013	167,238	5,507	172,745	156,664			156,664
2014	167,238	5,507	172,745	152,256			152,256
2015	167,238	5,507	172,745	123,963			123,963
2016	167,238	5,507	172,745	113,769			113,769
2017	167,238	5,507	172,745	134,714			134,714
2018	167,238	5,507	172,745	128,162			128,162
2019	167,238	5,507	172,745				
2020	167,238	5,507	172,745				

Note: Total Extractions - See Report of Watermaster, Volume 1, Table 8, Total Non-Plaintiff Extractions from San Bernardino Basin Area Excluding Minor Production and delivery amounts to Plaintiffs.

<sup>1</sup> Adjusted Right not effective until January 1, 1972; therefore, 1971 Base Right is as verified for five-year Base Period 1959-63.

<sup>2</sup> New Conservation Allocation takes effect in the first year shown and continues until further adjusted by Watermaster.

Pursuant to Paragraph VI(c) of the Judgment, Watermaster has determined the other than Plaintiffs New Conservation

Allocation to be 5,507 acre-feet per year starting in 2013. The 2013 Paragraph VI(b)6 Agreement provides that Watermaster will periodically consider changing this number based on provisions of the Agreement.

<sup>3</sup> Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation.

<sup>4</sup> Amount deducted under February 25, 1985 and August 21, 1985 Judgment Paragraph VI(b)6 Agreement. (High Groundwater Mitigation)

TABLE NO. 2 Page 1c of 2

### ADJUSTED RIGHT TO EXTRACT AND VERIFIED EXTRACTIONS OF OTHER THAN PLAINTIFFS FROM THE SAN BERNARDINO BASIN AREA

- 5 Amount deducted under May 20, 1987 2nd Amendment to December 22, 1981 Judgment VI(b)6 Agreement (hereinafter "December 22, 1981 Agreement"). (High Groundwater Mitigation)
- 6 Amount deducted under January 20, 1988 3rd Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 7 Amount deducted under May 4, 1992 5th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 8 Amount deducted under June 16, 1993 6th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 9 Amount deducted under March 3, 1994 7th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 10 Amount deducted under March 15, 1995 8th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 11 Amount deducted under March 6, 1996 9th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 12 Amount deducted under February 19, 1997 10th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 13 Amount deducted under February 18, 1998 11th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 14 Amount deducted under January 19, 1999 13th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 15 Amount deducted under August 16, 2000 15th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 16 Amount deducted under February 7, 2001 17th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation) 17 Amount deducted under February 6, 2002 19th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 18 Amount deducted under August 18, 2004 21st Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)

TABLE NO. 2 Page 2a of 2

## ADJUSTED RIGHT TO EXTRACT AND VERIFIED EXTRACTIONS OF OTHER THAN PLAINTIFFS FROM THE SAN BERNARDINO BASIN AREA FIVE-YEAR TOTALS

(All Values in Acre-Feet)

	Five-Year	
Five-Year	Adjusted	Five-Year
Period	Right	Extractions
1074 75	040.004	000 500
1971-75	840,294	800,560
1972-76	836,190	781,691
1973-77	836,190	759,275
1974-78	836,190	736,534
1975-79	836,190	732,656
1976-80	836,190	740,397
1977-81	836,190	768,719
1978-82	836,190	776,948
1979-83	836,190	786,342
1980-84	836,190	812,343
1000 0 1	333,103	012,010
1981-85	836,190	820,159
1982-86	836,190	832,254
1983-87	836,190	846,452
1984-88	836,190	867,256
1985-89	836,190	859,978
1986-90	836,190	860,012
1987-91	836,190	841,625
1988-92	836,190	841,625
1989-93	836,190	841,625
1990-94	836,190	837,589
1991-95	836,190	837,555
1992-96	836,190	842,614
1993-97	836,190	845,867
1994-98	836,190	859,473
1995-99	836,190	857,217
1996-00	836,190	857,217
1997-01	836,190	853,049
1998-02	836,190	849,796
1999-03	836,190	839,969
2000-04		
2000-04	836,190	839,969

TABLE NO. 2 Page 2b of 2

# ADJUSTED RIGHT TO EXTRACT AND VERIFIED EXTRACTIONS OF OTHER THAN PLAINTIFFS FROM THE SAN BERNARDINO BASIN AREA FIVE-YEAR TOTALS (All Values in Acre-Feet)

	Five-Year	
Five-Year	Adjusted	Five-Year
Period	Right	Extractions
2001-05	836,190	861,938
2002-06	836,190	902,023
2003-07	836,190	927,651
2004-08	836,190	948,170
2005-09	836,190	954,019
2006-10	836,190	928,607
2007-11	836,190	894,039
2008-12	836,190	873,678
2009-13	841,697	838,806
2010-14	847,204	817,975
	- · · · · · · · · · · · · · · · · · · ·	211,012
2011-15	852,711	778,143
2012-16	858,218	719,157
2013-17	863,725	681,366
2014-18	863,725	652,864
2015-19	863,725	, , , , ,
	,	
2016-20	863,725	

Note: 5-year totals corrected to reflect any corrections on Table 2, Page 1a of 2 and Page 1b of 2.

#### TABLE NO. 3A-1

#### ADJUSTED RIGHT OF CITY OF RIVERSIDE TO EXTRACT FROM THE SAN BERNARDINO BASIN AREA FOR USE IN EACH SERVICE AREA

(Including those rights acquired as successor to the Riverside Water Company and Gage Canal Company)

(All Values in Acre-Feet)

For Use In Colton Basin Area and Riverside For Use In Basin Area in San San

	San Bernar	rdino Basin Area Adj	justed Right	Bernardino Basin Area	Bernardino County	For Use In Areas Outside San Bernardino Valley			
	Safe Yield	New				Safe Yield	New		
Calendar	Adjusted	Conservation	Adjusted	Adjusted	Adjusted	Adjusted	Conservation	Adjusted	
Year	Right 1	Allocation 2	Right 3	Right 4	Right 4	Right 1	Allocation 2	Right 3	
1971	53,448		53,448	1,462	1,260	50,726		50,726	
1972	52,199		52,199	1,427	1,230	49,542		49,542	
1973	52,199		52,199	1,427	1,230	49,542		49,542	
1974	52,199		52,199	1,427	1,230	49,542		49,542	
1975	52,199		52,199	1,427	1,230	49,542		49,542	
1976	52,199		52,199	1,427	1,230	49,542		49,542	
1977	52,199		52,199	1,427	1,230	49,542		49,542	
1978	52,199		52,199	1,427	1,230	49,542		49,542	
1979	52,199		52,199	1,427	1,230	49,542		49,542	
1980	52,199		52,199	1,427	1,230	49,542		49,542	
1981	52,199		52,199	1,427	1,230	49,542		49,542	
1982	52,199		52,199	1,427	1,230	49,542		49,542	
1983	52,199		52,199	1,427	1,230	49,542		49,542	
1984	52,199		52,199	1,427	1,230	49,542		49,542	
1985	52,199		52,199	1,427	1,230	49,542		49,542	
1986	52,199		52,199	1,427	1,230	49,542		49,542	
1987	52,199		52,199	1,427	1,230	49,542		49,542	
1988	52,199		52,199	1,427	1,230	49,542		49,542	
1989	52,199		52,199	1,427	1,230	49,542		49,542	
1990	52,199		52,199	1,427	1,230	49,542		49,542	
1991	52,199		52,199	1,427	1,230	49,542		49,542	
1992	52,199		52,199	1,427	1,230	49,542		49,542	
1993	52,199		52,199	1,427	1,230	49,542		49,542	
1994	52,199		52,199	1,427	1,230	49,542		49,542	
1995	52,199		52,199	1,427	1,230	49,542		49,542	

#### ADJUSTED RIGHT OF CITY OF RIVERSIDE TO EXTRACT FROM THE SAN BERNARDINO BASIN AREA FOR USE IN EACH SERVICE AREA

(Including those rights acquired as successor to the Riverside Water Company and Gage Canal Company)

(All Values in Acre-Feet)

For Use In
Colton Basin
Area and
Riverside
For Use In
San
San

	San Bernar	dino Basin Area Adj	usted Right	San Bernardino Basin Area	San Bernardino County	Areas O	no Valley	
	Safe Yield	New				Safe Yield	New	
Calendar	Adjusted	Conservation	Adjusted	Adjusted	Adjusted	Adjusted	Conservation	Adjusted
Year	Right 1	Allocation 2	Right 3	Right 4	Right 4	Right 1	Allocation 2	Right 3
1996	52,199		52,199	1,427	1,230	49,542		49,542
1997	52,199		52,199	1,427	1,230	49,542		49,542
1998	52,199		52,199	1,427	1,230	49,542		49,542
1999	52,199		52,199	1,427	1,230	49,542		49,542
2000	52,199		52,199	1,427	1,230	49,542		49,542
2001	52,199		52,199	1,427	1,230	49,542		49,542
2002	52,199		52,199	1,427	1,230	49,542		49,542
2003	52,199		52,199	1,427	1,230	49,542		49,542
2004	52,199		52,199	1,427	1,230	49,542		49,542
2005	52,199		52,199	1,427	1,230	49,542		49,542
2006	52,199	•	52,199	1,427	1,230	49,542		49,542
2007	52,199		52,199	1,427	1,230	49,542		49,542
2008	52,199		52,199	1,427	1,230	49,542		49,542
2009	52,199		52,199	1,427	1,230	49,542		49,542
2010	52,199		52,199	1,427	1,230	49,542		49,542
2011	52,199		52,199	1,427	1,230	49,542		49,542
2012	52,199		52,199	1,427	1,230	49,542		49,542
2013	52,199	1,719	53,918	1,427	1,230	49,542	1,719	51,261
2014	52,199	1,719	53,918	1,427	1,230	49,542	1,719	51,261
2015	52,199	1,719	53,918	1,427	1,230	49,542	1,719	51,261
2016	52,199	1,719	53,918	1,427	1,230	49,542	1,719	51,261
2017	52,199	1,719	53,918	1,427	1,230	49,542	1,719	51,261
2018	52,199	1,719	53,918	1,427	1,230	49,542	1,719	51,261
2019	52,199	1,719	53,918	1,427	1,230	49,542	1,719	51,261
2020	52,199	1,719	53,918	1,427	1,230	49,542	1,719	51,261

#### TABLE NO. 3A-1

#### ADJUSTED RIGHT OF CITY OF RIVERSIDE TO EXTRACT FROM THE SAN BERNARDINO BASIN AREA FOR USE IN EACH SERVICE AREA

(Including those rights acquired as successor to the Riverside Water Company and Gage Canal Company)

- 1 Safe Yield Adjusted Right became effective on January 1, 1972; Base Right for Calendar Year 1971 is as shown in Table B-1 of the Judgment.
- 2 New Conservation Allocation takes effect in the first year shown and continues until further adjusted by Watermaster.

  Pursuant to Paragraph VI(b) of the Judgment, Watermaster has determined the City of Riverside New Conservation Allocation to be 1,719 acre-feet per year starting in 2013.
- The 2013 Paragraph VI(b)6 Agreement provides that Watermaster will periodically consider changing this number based on provisions of the Agreement.
- 3 Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation.
- 4 New Conservation Allocation may also be used in the San Bernardino Basin Area, or the Colton Basin Area and Riverside Basin Area in San Bernardino County.

#### **VERIFIED EXTRACTIONS BY** CITY OF RIVERSIDE FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

(Including those rights acquired as successor to the Riverside Water Company and Gage Canal Company)

(All Values in Acre-Feet)

Delivery for Use in Colton Basin Area and Riverside

Delivery for Use in San

Basin Area in San

Bernardino Bernardino Basin Area County

Delivery for Use in Areas Outside San Bernardino Valley

San Bernardino Basin Area Extractions

Calendar Year	Total Extractions	Additional Extractions	_	Extractions	Deliveries	Deliveries	Actual Deliveries	Additional Deliveries	<del>-</del>	Deliveries
1971	53,882			53,882	98	669	53,115			53,115
1972	45,694			45,694	85	547	45,062			45,062
1973	43,022			43,022	156	512	42,354			42,354
1974	43,367			43,367	0	764	42,603			42,603
1975	47,962			47,962	0	498	47,464			47,464
1976	51,374			51,374	0	523	50,851			50,851
1977	50,999			50,999	0	346	50,653			50,653
1978	45,384			45,384	646	301	44,437			44,437
1979	52,377			52,377	0	415	51,962			51,962
1980	50,756			50,756	383	0	50,373			50,373
1300	00,700			00,700	000	Ü	00,070			00,010
1981	52,157	1,148	1	51,009	724	0	51,433	1,148	1	50,285
1982	49,599			49,599	162	0	49,437			49,437
1983	46,064	76	2	45,988	335	0	45,729	76	2	45,653
1984	58,906	9,332	3	49,574	41	0	58,865	9,332	3	49,533
1985	63,073	13,472	4	49,601	59	0	63,014	13,472	4	49,542
1986	59,979	10,000	5	49,979	437	0	59,542	10,000	5	49,542
1987	57,841	7,965	6	49,876	334	0	57,507	7,965	6	49,542
1988	64,512	14,201	7	50,311	815	0	63,697	14,201	7	49,496
1989	50,784			50,784	28	0	50,756			50,756
1990	47,637			47,637	23	0	47,614			47,614
1991	52,909	3,212	8	49,697	161	0	52,748	3,212	8	49,536
1992	50,239	7,177	9	43,062	203	0	50,036	7,177	9	42,859
1993	52,006	7,152	10	44,854	-108	0	52,114	9,917	10	42,197
1994	60,447	9,107	11	51,340	46	0	60,401	10,859	11	49,542
1995	55,392	5,799	12	49,593	99	0	55,293	8,357	12	46,936

#### **VERIFIED EXTRACTIONS BY** CITY OF RIVERSIDE FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

(Including those rights acquired as successor to the Riverside Water Company and Gage Canal Company) (All Values in Acre-Feet)

Delivery for Use in Colton Basin Area

Delivery for

and Riverside Use in Basin Area in

San San Bernardino

Bernardino Delivery for Use in Basin Area County San Bernardino Basin Area Extractions Areas Outside San Bernardino Valley

Calendar Year	Total Extractions	Additional Extractions		Extractions	Deliveries	Deliveries	Actual Deliveries	Additional Deliveries	-	Deliveries
1996	63,382	8,390	13	54,992	278	0	63,104	10,769	13	52,335
1997	59,938	7,495	14	52,443	494	0	59,444	9,658	14	49,786
1998	54,417	6,671	15	47,746	0	0	54,417	6,671	15	47,746
1999	61,142	8,943	16	52,199	181	0	60,961	11,419	16	49,542
2000	63,472	11,273	17	52,199	117	0	63,355	13,813	17	49,542
2001	59,312	7,113	18	52,199	229	0	59,083	9,541	18	49,542
2002	65,462	13,263	19	52,199	172	0	65,290	15,748	19	49,542
2003	54,514			54,514	10	0	54,504			54,504
2004	53,414	1,215	20	52,199	0	0	53,414	3,872	20	49,542
2005	44,696			44,696	13	0	44,683			44,683
2006	49,444			49,444	30	0	49,414			49,414
2007	52,018	2,459	21	49,559	39	0	51,979	2,459	21	49,520
2008	53,581			53,581	70	0	53,511			53,511
2009	43,061			43,061	121	0	42,940			42,940
2010	45,713			45,713	80	0	45,633			45,633
2011	46,488			46,488	72	0	46,416			46,416
2012	52,506			52,506	13	0	52,493			52,493
2013	50,158	(2,459)	22	52,617	11	0	50,147	(2,459)	22	52,606
2014	49,433	( , ,		49,433	18	0	49,415	( , ,		49,415
2015	50,037			50,037	286	0	49,751			49,751
2016	46,632			46,632	384	0	46,248			46,248
2017	50,456			50,456	373	0	50,083			50,083
2018 2019 2020	49,888			49,888	22	0	49,866			49,866

TABLE NO. 3A-2

Page 3 of 3

## VERIFIED EXTRACTIONS BY CITY OF RIVERSIDE FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

(Including those rights acquired as successor to the Riverside Water Company and Gage Canal Company)

Note: See Report of Watermaster, Volume 1A, Table No. 3.

- 1 Amount deducted under December 22, 1981 Judgment Paragraph VI(b)6 Agreement (hereinafter "December 22, 1981 Agreement"). (High Groundwater Mitigation)
- 2 Amount deducted under March 3, 1983 and April 18, 1983 Letter Agreements under December 22, 1981 Agreement. (High Groundwater Mitigation)
- 3 Amount deducted under December 5, 1984 1st Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 4 Amount deducted under February 25, 1985 and August 21, 1985 Agreements. (High Groundwater Mitigation)
- 5 Amount deducted under January 21, 1986 letter to City of Riverside under December 22, 1981 Agreement. (High Groundwater Mitigation)
- 6 Amount deducted under May 20, 1987 2nd Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 7 Amount deducted under January 20, 1988 3rd Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 8 Amount deducted under April 3, 1991 4th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 9 Amount deducted under May 4, 1992 5th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 10 Amount deducted under June 16, 1993 6th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 11 Amount deducted under March 3, 1994 7th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 12 Amount deducted under March 15, 1995 8th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 13 Amount deducted under March 6, 1996 9th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 14 Amount deducted under February 19, 1997 10th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 15 Amount deducted under February 18, 1998 11th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 16 Amount deducted under January 19, 1999 13th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation) 17 Amount deducted under August 16, 2000 15th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 18 Amount deducted under February 7, 2001 17th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 19 Amount deducted under February 6, 2002 19th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- To Amount deducted under 1 condainy 0, 2002 13th Amount in the December 22, 1301 Agreement. [High Groundwater integration]
- 20 Amount deducted under August 18, 2004 21st Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 21 Amount deducted pursuant to Paragraph 5 of the August 18, 2004 Judgment Paragraph VI(b)6 agreement, see Table No. 17B-1, Footnotes 4, a, 8 and b and Table No. 17A, Footnotes 6 and c (Transfer of Imported Water)
- 22 Amount added pursuant to Paragraph 11 of the July 17, 2013 Judgment Paragraph VI(b)6 agreement, see Table No. 17B-1, Footnotes 5 and d and Table No. 17A, Footnotes 3 and e (Transfer of Imported Water)

#### ADJUSTED RIGHT OF RIVERSIDE HIGHLAND WATER COMPANY TO EXTRACT FROM THE SAN BERNARDINO BASIN AREA FOR USE IN EACH SERVICE AREA

(All Values in Acre-Feet)

	San Bernar	rdino Basin Area Ad	justed Right	For Use In San Bernardino Basin Area	For Use In Colton Basin Area and Riverside Basin Area in San Bernardino County	Areas O	For Use In utside San Bernardir	no Valley
	Safe Yield	New			_	Safe Yield	New	
Calendar Year	Adjusted Right <i>1</i>	Conservation Allocation 2	Adjusted Right 3	Adjusted Right <b>4</b>	Adjusted Right 4	Adjusted Right <i>1</i>	Conservation Allocation 2	Adjusted Right 3
1971	4,399		4,399	0	2,509	1,890		1,890
1972	4,294		4,294	0	2,449	1,845		1,845
1973	4,294		4,294	0	2,449	1,845		1,845
1974	4,294		4,294	0	2,449	1,845		1,845
1975	4,294		4,294	0	2,449	1,845		1,845
1976	4,294		4,294	0	2,449	1,845		1,845
1977	4,294		4,294	0	2,449	1,845		1,845
1978	4,294		4,294	0	2,449	1,845		1,845
1979	4,294		4,294	0	2,449	1,845		1,845
1980	4,294		4,294	0	2,449	1,845		1,845
1981	4,294		4,294	0	2,449	1,845		1,845
1982	4,294		4,294	0	2,449	1,845		1,845
1983	4,294		4,294	0	2,449	1,845		1,845
1984	4,294		4,294	0	2,449	1,845		1,845
1985	4,294		4,294	0	2,449	1,845		1,845
1986	4,294		4,294	0	2,449	1,845		1,845
1987	4,294		4,294	0	2,449	1,845		1,845
1988	4,294		4,294	0	2,449	1,845		1,845
1989	4,294		4,294	0	2,449	1,845		1,845
1990	4,294		4,294	0	2,449	1,845		1,845
1991	4,294		4,294	0	2,449	1,845		1,845
1992	4,294		4,294	0	2,449	1,845		1,845
1993	4,294		4,294	0	2,449	1,845		1,845
1994	4,294		4,294	0	2,449	1,845		1,845
1995	4,294		4,294	0	2,449	1,845		1,845

#### ADJUSTED RIGHT OF RIVERSIDE HIGHLAND WATER COMPANY TO EXTRACT FROM THE SAN BERNARDINO BASIN AREA FOR USE IN EACH SERVICE AREA (All Values in Acre-Feet)

For Use In Colton Basin Area and Riverside For Use In Basin Area in San San Bernardino Bernardino For Use In Basin Area County San Bernardino Basin Area Adjusted Right Areas Outside San Bernardino Valley Safe Yield New Safe Yield New Calendar Adjusted Conservation Adjusted Adjusted Adjusted Adjusted Conservation Adjusted Year Right 1 Allocation 2 Right 3 Right 4 Right 4 Right 1 Allocation 2 Right 3 1996 4,294 4,294 0 2,449 1,845 1,845 4,294 1997 4,294 0 2.449 1,845 1,845 1998 4,294 4,294 0 2,449 1,845 1,845 1999 4,294 4,294 0 2,449 1,845 1,845 2000 4,294 4,294 0 2,449 1,845 1,845 0 2001 4,294 4,294 2.449 1,845 1,845 4,294 0 2002 4,294 2.449 1.845 1,845 2003 4,294 4,294 0 2,449 1,845 1,845 2004 4,294 4,294 0 2,449 1,845 1,845 2005 4,294 4,294 0 2,449 1,845 1,845 2006 4,294 4.294 0 2.449 1.845 1,845 2007 4,294 4,294 0 2,449 1,845 1,845 2008 4,294 4,294 0 2,449 1,845 1,845 2009 4,294 4,294 0 2,449 1,845 1,845 2010 4,294 4,294 0 2,449 1,845 1,845 2011 4,294 4,294 0 2,449 1,845 1,845 2012 4,294 4,294 0 2.449 1,845 1,845 0 2013 4,294 141 4,435 2.449 141 1,986 1,845 2014 4,294 141 4,435 0 2,449 1,845 141 1,986 2015 4,294 141 4,435 0 2,449 1,845 141 1,986 2016 4,294 141 4,435 0 2.449 1,845 141 1,986 2017 4,294 0 141 4,435 2.449 1,845 141 1,986 2018 4,294 141 4,435 0 2.449 1,845 141 1,986

0

0

2,449

2,449

1,845

1,845

141

141

1,986

1,986

2019

2020

4,294

4,294

141

141

4,435

4,435

TABLE NO. 3B-1 Page 3 of 3

#### ADJUSTED RIGHT OF RIVERSIDE HIGHLAND WATER COMPANY TO EXTRACT FROM THE SAN BERNARDINO BASIN AREA FOR USE IN EACH SERVICE AREA

- 1 Safe Yield Adjusted Right became effective on January 1, 1972; Base Right for Calendar Year 1971 is as shown in Table B-1 of the Judgment.
- 2 New Conservation Allocation takes effect in the first year shown and continues until further adjusted by Watermaster.

  Pursuant to Paragraph VI(b) of the Judgment, Watermaster has determined the Riverside Highland Water Company New Conservation Allocation to be 141 acre-feet per year starting in 2013.
- The 2013 Paragraph VI(b)6 Agreement provides that Watermaster will periodically consider changing this number based on provisions of the Agreement.
- 3 Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation
- 4 New Conservation Allocation may also be used in the San Bernardino Basin Area, or the Colton Basin Area and Riverside Basin Area in San Bernardino County.

#### VERIFIED EXTRACTIONS BY RIVERSIDE HIGHLAND WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

(All Values in Acre-Feet)

Delivery for Use in Colton Basin Area and

Delivery for Use in San

Bernardino

Basin Area

Riverside Basin Area in San

San Bernardino Basin Area Extractions

Bernardino County

Delivery for Use in Areas Outside San Bernardino Valley

Calendar Year	Total Extractions	Additional Extractions	Extractions	Deliveries	Deliveries	Actual Deliveries	Additional Deliveries	Deliveries
1971	4,012		4,012	0	2,385	1,627		1,627
1972	4,532		4,532	0	2,229	2,303		2,303
1973	3,512		3,512	0	1,744	1,768		1,768
1974	4,888		4,888	0	1,979	2,909		2,909
1975	4,709		4,709	0	1,996	2,713		2,713
1976	4,520		4,520	0	2,051	2,469		2,469
1977	3,583		3,583	0	1,820	1,763		1,763
1978	1,350		1,350	0	1,051	299		299
1979	3,369		3,369	0	1,782	1,587		1,587
1980	3,677		3,677	0	2,060	1,617		1,617
1981	3,604		3,604	0	2,148	1,456		1,456
1982	2,795		2,795	0	1,776	1,019		1,019
1983	3,162		3,162	0	2,319	843		843
1984	4,759		4,759	0	2,671	2,088		2,088
1985	3,312		3,312	0	1,978	1,334		1,334
1986	4,744		4,744	0	2,128	2,616		2,616
1987	3,919		3,919	0	2,229	1,690		1,690
1988	4,775		4,775	0	2,229	2,546		2,546
1989	4,681		4,681	0	1,968	2,713		2,713
1990	4,092		4,092	0	2,313	1,779		1,779
1991	3,021		3,021	0	1,669	1,352		1,352
1992	4,052		4,052	0	2,275	1,777		1,777
1993	3,241		3,241	0	1,777	1,464		1,464
1994	4,324		4,324	0	2,201	2,123		2,123
1995	3,955		3,955	0	2,146	1,809		1,809

TABLE NO. 3B-2 Page 2 of 3

#### VERIFIED EXTRACTIONS BY RIVERSIDE HIGHLAND WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

(All Values in Acre-Feet)

Delivery for Use in Colton

Basin Area and

Delivery for Use in San

Bernardino

Basin Area

Riverside Basin Area in

San

San Bernardino Basin Area Extractions

Bernardino County

Delivery for Use in Areas Outside San Bernardino Valley

Calendar Year	Total Extractions	Additional Extractions	·	Extractions	Deliveries	Deliveries	Actual Deliveries	Additional Deliveries		Deliveries
1996	5,051	463	1	4,588	0	2,756	2,295	463	1	1,832
1997	4,939	463	2	4,476	Ö	2,656	2,283	463	2	1,820
1998	3,250	463	3	2,787	0	1,961	1,289	463	3	826
1999	4,972	2,041	4	2,931	0	2,082	2,890	2,041	4	849
2000	3,423	567	5	2,856	0	2,811	612	567	5	45
2001	2,925	260	6	2,665	0	2,547	378	260	6	118
2002	4,309	1,910	7	2,399	0	2,271	2,038	1,910	7	128
2003	3,881	3	7	3,878	0	2,036	1,845	3	7	1,842
2004	1,754	0		1,754	0	1,304	450	0		450
2005	2,135			2,135	0	441	1,694			1,694
2006	2,928			2,928	0	1,198	1,730			1,730
2007	3,633			3,633	0	1,772	1,861			1,861
2008	2,730			2,730	0	2,054	676			676
2009	1,648			1,648	0	1,073	575			575
2010	1,136			1,136	0	629	507			507
2011	1,655			1,655	0	1,477	178			178
2012	2,135			2,135	0	1,914	221			221
2013	2,873			2,873	0	2,018	855			855
2014	2,076			2,076	0	1,469	607			607
2015	3,400			3,400	0	1,300	2,100			2,100
2016	3,040			3,040	0	1,111	1,929			1,929
2017	1,903			1,903	0	1,221	682			682
2018	2,641			2,641	0	1,759	882			882
2019										
2020										

TABLE NO. 3B-2

Page 3 of 3

#### VERIFIED EXTRACTIONS BY RIVERSIDE HIGHLAND WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

Note: See Report of Watermaster, Volume 1A, Table No. 3.

- 1 Amount deducted under March 6, 1996 9th Amendment to December 22, 1981 Judgment Paragraph VI(b)6 Agreement (hereinafter "December 22, 1981 Agreement"). (High Groundwater Mitigation)
- 2 Amount deducted under February 19, 1997 10th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 3 Amount deducted under February 18, 1998 11th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 4 Amount deducted under January 19, 1999 13th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 5 Amount deducted under August 16, 2000 15th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 6 Amount deducted under February 7, 2001 17th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)
- 7 Amount deducted under February 6, 2002 19th Amendment to December 22, 1981 Agreement. (High Groundwater Mitigation)

#### TABLE NO. 3C-1

# ADJUSTED RIGHT OF AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY TO EXTRACT FROM THE SAN BERNARDINO BASIN AREA FOR USE IN EACH SERVICE AREA (All Values in Acre-Feet)

For Use In

	San Bernar	rdino Basin Area Ad	iusted Riaht	For Use In San Bernardino Basin Area	Colton Basin Area and Riverside Basin Area in San Bernardino County	For Use In Areas Outside San Bernardino Valley		
	Safe Yield	New	, ,			Safe Yield	New	<u> </u>
Calendar	Adjusted	Conservation	Adjusted	Adjusted	Adjusted	Adjusted	Conservation	Adjusted
Year	Right 1	Allocation 2	Right 3	Right 4	Right 4	Right 1	Allocation 2	Right 3
1971	8,026		8,026	0	325	7,700		7,700
1972	7,833		7,833	0	318	7,515		7,515
1973	7,833		7,833	0	318	7,515		7,515
1974	7,833		7,833	0	318	7,515		7,515
1975	7,833		7,833	0	318	7,515		7,515
1976	7,833		7,833	0	318	7,515		7,515
1977	7,833		7,833	0	318	7,515		7,515
1978	7,833		7,833	0	318	7,515		7,515
1979	7,833		7,833	0	318	7,515		7,515
1980	7,833		7,833	0	318	7,515		7,515
1981	7,833		7,833	0	318	7,515		7,515
1982	7,833		7,833	0	318	7,515		7,515
1983	7,833		7,833	0	318	7,515		7,515
1984	7,833		7,833	0	318	7,515		7,515
1985	7,833		7,833	0	318	7,515		7,515
1986	7,833		7,833	0	318	7,515		7,515
1987	7,833		7,833	0	318	7,515		7,515
1988	7,833		7,833	0	318	7,515		7,515
1989	7,833		7,833	0	318	7,515		7,515
1990	7,833		7,833	0	318	7,515		7,515
1991	7,833		7,833	0	318	7,515		7,515
1992	7,833		7,833	0	318	7,515		7,515
1993	7,833		7,833	0	318	7,515		7,515
1994	7,833		7,833	0	318	7,515		7,515
1995	7,833		7,833	0	318	7,515		7,515

### TABLE NO. 3C-1

# ADJUSTED RIGHT OF AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY TO EXTRACT FROM THE SAN BERNARDINO BASIN AREA FOR USE IN EACH SERVICE AREA (All Values in Acre-Feet)

				For Use In	For Use In Colton Basin Area and Riverside Basin Area in			
				San	San			
	0 0			Bernardino Basin Area	Bernardino County	A O	For Use In	\
	San Bernar Safe Yield	rdino Basin Area Ad New	justea Right	Dasiii Alea	County	Safe Yield	utside San Bernardi New	no valley
Calendar	Adjusted	Conservation	Adjusted	Adjusted	Adjusted	Adjusted	Conservation	Adjusted
Year	Right 1	Allocation 2	Right 3	Right 4	Right 4	Right 1	Allocation 2	Right 3
	g		g :					
1996	7,833		7,833	0	318	7,515		7,515
1997	7,833		7,833	0	318	7,515		7,515
1998	7,833		7,833	0	318	7,515		7,515
1999	7,833		7,833	0	318	7,515		7,515
2000	7,833		7,833	0	318	7,515		7,515
2001	7,833		7,833	0	318	7,515		7,515
2002	7,833		7,833	0	318	7,515		7,515
2003	7,833		7,833	0	318	7,515		7,515
2004	7,833		7,833	0	318	7,515		7,515
2005	7,833		7,833	0	318	7,515		7,515
2006	7,833	•	7,833	0	318	7,515		7,515
2007	7,833		7,833	0	318	7,515		7,515
2008	7,833		7,833	0	318	7,515		7,515
2009	7,833		7,833	0	318	7,515		7,515
2010	7,833		7,833	0	318	7,515		7,515
2011	7,833		7,833	0	318	7,515		7,515
2012	7,833		7,833	0	318	7,515		7,515
2013	7,833	258	8,091	0	318	7,515	258	7,773
2014	7,833	258	8,091	0	318	7,515	258	7,773
2015	7,833	258	8,091	0	318	7,515	258	7,773
2016	7,833	258	8,091	0	318	7,515	258	7,773
2017	7,833	258	8,091	0	318	7,515	258	7,773
2018	7,833	258	8,091	0	318	7,515	258	7,773
2019	7,833	258	8,091	0	318	7,515	258	7,773
2020	7,833	258	8,091	0	318	7,515	258	7,773

## ADJUSTED RIGHT OF AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY TO EXTRACT FROM THE SAN BERNARDINO BASIN AREA FOR USE IN EACH SERVICE AREA

- 1 Safe Yield Adjusted Right became effective on January 1, 1972; Base Right for Calendar Year 1971 is as shown in Table B-1 of the Judgment.
- 2 New Conservation Allocation takes effect in the first year shown and continues until further adjusted by Watermaster.

  Pursuant to Paragraph VI(b) of the Judgment, Watermaster has determined the Agua Mansa Water Company and Meeks & Daley
  Water Company New Conservation Allocation to be 258 acre-feet per year starting in 2013.
- The 2013 Paragraph VI(b)6 Agreement provides that Watermaster will periodically consider changing this number based on provisions of the Agreement.
- 3 Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation
- 4 New Conservation Allocation may also be used in the San Bernardino Basin Area, or the Colton Basin Area and Riverside Basin Area in San Bernardino County.

Page 1 of 3 TABLE NO. 3C-2

## **VERIFIED EXTRACTIONS BY** AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

(All Values in Acre-Feet)

Delivery for Use in Colton Basin Area and Riverside

Delivery for Use in San Bernardino

Basin Area

Basin Area in San Bernardino County

San Bernardino Basin Area Extractions

Delivery for Use in Areas Outside San Bernardino Valley

						_		
Calendar Year	Total Extractions	Additional Extractions	Extractions	Deliveries	Deliveries	Actual Deliveries	Additional Deliveries	Deliveries
1971	2,902		2,902	0	383	2,519		2,519
1972	3,527		3,527	0	377	3,150		3,150
1973	2,979		2,979	0	250	2,729		2,729
1974	4,504		4,504	0	246	4,258		4,258
1975	3,950		3,950	0	168	3,782		3,782
1976	5,393		5,393	0	187	5,206		5,206
1977	4,220		4,220	0	146	4,074		4,074
1978	2,254		2,254	0	161	2,093		2,093
1979	3,930		3,930	0	166	3,764		3,764
1980	2,333		2,333	0	323	2,010		2,010
1981	3,092		3,092	0	358	2,734		2,734
1982	3,716		3,716	0	169	3,547		3,547
1983	2,651		2,651	0	245	2,406		2,406
1984	5,166		5,166	0	234	4,932		4,932
1985	5,384		5,384	0	209	5,175		5,175
1986	5,570		5,570	0	212	5,358		5,358
1987	4,914		4,914	0	192	4,722		4,722
1988	4,966		4,966	0	233	4,733		4,733
1989	5,392		5,392	0	240	5,152		5,152
1990	3,851		3,851	0	83	3,768		3,768
1991	4,426		4,426	0	190	4,236		4,236
1992	4,100		4,100	0	118	3,982		3,982
1993	5,013		5,013	0	276	4,737		4,737
1994	4,525		4,525	0	227	4,298		4,298
1995	3,560		3,560	0	145	3,415		3,415

Page 2 of 3 TABLE NO. 3C-2

## **VERIFIED EXTRACTIONS BY** AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

(All Values in Acre-Feet)

Delivery for Use in Colton Basin Area and Riverside Basin Area in

Delivery for Use in San

San Bernardino Bernardino

Delivery for Use in Basin Area County Areas Outside San Bernardino Valley San Bernardino Basin Area Extractions

						-		
Calendar Year	Total Extractions	Additional Extractions	Extractions	Deliveries	Deliveries	Actual Deliveries	Additional Deliveries	Deliveries
1996	3,912		3,912	0	194	3,718		3,718
1997	4,165		4,165	0	137	4,028		4,028
1998	3,828		3,828	0	210	3,618		3,618
1999	6,289		6,289	0	90	6,199		6,199
2000	3,832		3,832	0	352	3,480		3,480
2001	3,671		3,671	0	192	3,479		3,479
2002	5,800		5,800	0	202	5,598		5,598
2003	7,440		7,440	0	49	7,391		7,391
2004	3,782		3,782	0	19	3,763		3,763
2005	5,891		5,891	0	4	5,887		5,887
2006	7,515		7,515	0	0	7,515		7,515
2007	7,591		7,591	0	0	7,591		7,591
2008	4,832		4,832	0	0	4,832		4,832
2009	6,345		6,345	0	0	6,345		6,345
2010	6,738		6,738	0	0	6,738		6,738
2011	7,127		7,127	0	0	7,127		7,127
2012	7,117		7,117	0	0	7,117		7,117
2013	7,732		7,732	0	0	7,732		7,732
2014	7,103		7,103	0	0	7,103		7,103
2015	7,351		7,351	0	0	7,351		7,351
2016	7,220		7,220	0	0	7,220		7,220
2017	7,218		7,218	0	0	7,218		7,218
2018 2019 2020	7,217		7,217	0	0	7,217		7,217

TABLE NO. 3C-2 Page 3 of 3

## VERIFIED EXTRACTIONS BY AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

Note: See Report of Watermaster, Volume 1A, Table No. 3.

### TABLE NO. 3D-1

# ADJUSTED RIGHT OF THE REGENTS OF THE UNIVERSITY OF CALIFORNIA TO EXTRACT FROM THE SAN BERNARDINO BASIN AREA FOR USE IN EACH SERVICE AREA (All Values in Acre-Feet)

For Use In

	San Bernar	dino Basin Area Ad	iusted Riaht	For Use In San Bernardino Basin Area	Colton Basin Area and Riverside Basin Area in San Bernardino County	Areas Ou	For Use In utside San Bernardir	no Valley
	Safe Yield	New	,			Safe Yield	New	
Calendar	Adjusted	Conservation	Adjusted	Adjusted	Adjusted	Adjusted	Conservation	Adjusted
Year	Right 1	Allocation 2	Right 3	Right 4	Right 4	Right 1	Allocation 2	Right 3
							· <del></del> ·	
1971	581		581	0	0	581		581
1972	536		536	0	0	536		536
1973	536		536	0	0	536		536
1974	536		536	0	0	536		536
1975	536		536	0	0	536		536
1976	536		536	0	0	536		536
1977	536		536	0	0	536		536
1977	536		536	0	0	536		536
1979	536		536	0	0	536		536
1980	536		536	0	0	536		536
1981	536		536	0	0	536		536
1982	536		536	0	0	536		536
1983	536		536	0	0	536		536
1984	536		536	0	0	536		536
1985	536		536	0	0	536		536
1986	536		536	0	0	536		536
1987	536		536	0	0	536		536
1988	536		536	0	0	536		536
1989	536		536	0	0	536		536
1990	536		536	0	0	536		536
4.0					_			
1991	536		536	0	0	536		536
1992	536		536	0	0	536		536
1993	536		536	0	0	536		536
1994	536		536	0	0	536		536
1995	536		536	0	0	536		536

# ADJUSTED RIGHT OF THE REGENTS OF THE UNIVERSITY OF CALIFORNIA TO EXTRACT FROM THE SAN BERNARDINO BASIN AREA FOR USE IN EACH SERVICE AREA (All Values in Acre-Feet)

For Use In
Colton Basin
Area and
Riverside
For Use In
San
Bernardino
Bernardino

For Use In Basin Area County Areas Outside San Bernardino Valley San Bernardino Basin Area Adjusted Right Safe Yield New Safe Yield New Calendar Adjusted Conservation Adjusted Adjusted Adjusted Adjusted Conservation Adjusted Allocation 2 Right 3 Right 4 Right 4 Right 1 Allocation 2 Right 3 Year Right 1 

## ADJUSTED RIGHT OF THE REGENTS OF THE UNIVERSITY OF CALIFORNIA TO EXTRACT FROM THE SAN BERNARDINO BASIN AREA FOR USE IN EACH SERVICE AREA

- 1 Safe Yield Adjusted Right became effective on January 1, 1972; Base Right for Calendar Year 1971 is as shown in Table B-1 of the Judgment.
- 2 New Conservation Allocation takes effect in the first year shown and continues until further adjusted by Watermaster.

  Pursuant to Paragraph VI(b) of the Judgment, Watermaster has determined The Regents of the University of California New Conservation Allocation to be 18 acre-feet per year starting in 2013.
- The 2013 Paragraph VI(b)6 Agreement provides that Watermaster will periodically consider changing this number based on provisions of the Agreement.
- 3 Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation
- 4 New Conservation Allocation may also be used in the San Bernardino Basin Area, or the Colton Basin Area and Riverside Basin Area in San Bernardino County.

TABLE NO. 3D-2 Page 1 of 3

## VERIFIED EXTRACTIONS BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

(All Values in Acre-Feet)

Delivery for Use in Colton Basin Area and Riverside

Delivery for Use in San Bernardino

Basin Area

Basin Area in San Bernardino

San Bernardino Basin Area Extractions

Bernardino Delivery for Use in
County Areas Outside San Bernardino Valley

Calendar Year	Total Extractions	Additional Extractions	Extractions	Deliveries	Deliveries	Actual Deliveries	Additional Deliveries	Deliveries
1971	219		219	0	0	219		219
1972	239		239	0	0	239		239
1973	239		239	0	0	239		239
1974	267		267	0	0	267		267
1975	179		179	0	0	179		179
1976	245		245	0	0	245		245
1977	87		87	0	0	87		87
1978	183		183	0	0	183		183
1979	83		83	0	0	83		83
1980	7		7	0	0	7		7
1981	143		143	0	0	143		143
1982	48		48	0	0	48		48
1983	0		0	0	0	0		0
1984	0		0	0	0	0		0
1985	0		0	0	0	0		0
1986	48		48	0	0	48		48
1987	195		195	0	0	195		195
1988	179		179	0	0	179		179
1989	62		62	0	0	62		62
1990	95		95	0	0	95		95
1991	23		23	0	0	23		23
1992	32		32	0	0	32		32
1993	536		536	0	0	536		536
1994	593		593	0	0	593		593
1995	588		588	0	0	588		588

TABLE NO. 3D-2 Page 2 of 3

# VERIFIED EXTRACTIONS BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA (All Values in Acre-Feet)

Delivery for Use in Colton Basin Area and

Delivery for Use in San Bernardino

Basin Area

Riverside
Basin Area in
San

San Bernardino Basin Area Extractions

Bernardino County

Delivery for Use in Areas Outside San Bernardino Valley

Calendar	Total	Additional					Actual	Additional		
Year	Extractions	Extractions		Extractions	Deliveries	Deliveries	Deliveries	Deliveries		Deliveries
1996	445			445	0	0	445			445
1997	505	58	1	447	0	0	505	58	1	447
1998	590	54	2	536	0	0	590	54	2	536
1999	586	50	3	536	0	0	586	50	3	536
2000	624	88	4	536	0	0	624	88	4	536
2001	617	81	5	536	0	0	617	81	5	536
2002	618	82	6	536	0	0	618	82	6	536
2003	536			536	0	0	536			536
2004	618	82	7	536	0	0	618	82	7	536
2005	536			536	0	0	536			536
2006	536			536	0	0	536			536
2007	536			536	0	0	536			536
2008	536			536	0	0	536			536
2009	536			536	0	0	536			536
2010	536			536	0	0	536			536
2011	536			536	0	0	536			536
2012	536			536	0	0	536			536
2013	536			536	0	0	536			536
2014	536			536	0	0	536			536
2015	554			554	0	0	554			554
2016	554			554	0	0	554			554
2017	554			554	0	0	554			554
2018	554			554	0	0	554			554
2019										
2020										

TABLE NO. 3D-2

## VERIFIED EXTRACTIONS BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

Note: See Report of Watermaster, Volume 1A, Table No. 3.

- 1 Extracted or exported under February 19, 1997 10th Amendment to December 22, 1981 agreements. (High Groundwater Mitigation)
- 2 Extracted or exported under February 18, 1998 11th Amendment to December 22, 1981 agreements. (High Groundwater Mitigation)
- 3 Extracted or exported under January 19, 1999 13th Amendment to December 22, 1981 agreements. (High Groundwater Mitigation)
- 4 Extracted or exported under August 16, 2000 15th Amendment to December 22, 1981 agreements. (High Groundwater Mitigation)
- 5 Extracted or exported under February 7, 2001 17th Amendment to December 22, 1981 agreements. (High Groundwater Mitigation)
- 6 Extracted or exported under February 6, 2002 19th Amendment to December 22, 1981 agreements. (High Groundwater Mitigation)
- 7 Extracted or exported under August 18, 2004 21st Amendment to December 22, 1981 agreements. (High Groundwater Mitigation)

## **CHAPTER IV**

## NATURAL SAFE YIELD OF THE SAN BERNARDINO BASIN AREA AND ADJUSTED RIGHTS OF PLAINTIFF EXPORTERS

## **CHAPTER IV**

## NATURAL SAFE YIELD OF THE SAN BERNARDINO BASIN AREA AND ADJUSTED RIGHTS OF PLAINTIFF EXPORTERS

The Watermaster has determined the natural safe yield of the water supply accruing to the San Bernardino Basin Area at 232,100 acre-feet per annum from which the Adjusted Rights of Plaintiff exporters were also determined. Such determination of safe yield and Adjusted Rights of Plaintiff exporters was set forth in detail in 1972 in Report of Watermaster, Volume 9, titled Determination of Natural Safe Yield of the San Bernardino Basin Area and Adjusted Rights of Plaintiff Exporters.

The Adjusted Rights of Plaintiff extractions from the San Bernardino Basin Area, classified according to service areas and based on the natural safe yield of 232,100 acre-feet per annum have been summarized on the following table.

## PLAINTIFF ADJUSTED RIGHTS CLASSIFIED ACCORDING TO SERVICE AREA 1 (All Values in Acre-Feet)

Plaintiffs	Total Extractions in San Bernardino Basin Area		Delivery to San Bernardino Basin Area	Delivery to Colton Basin and Riverside Basin Area in San Bernardino County	Delivery to Areas Outside San Bernardino Valley	
City of Riverside	52,199	2	1,427	1,230	49,542	2
Riverside Highland Water Company	4,294		0	2,449	1,845	
Agua Mansa Water Company and Meeks & Daley Water Company	7,833		0	318	7,515	
Regents of The University of California	536	2	0	0	536	_ 2
TOTAL	64,862		1,427	3,997	59,438	

<sup>1</sup> Effective January 1, 1972. Therefore, the 1971 rights for both Plaintiffs and other than Plaintiffs are equal to the five-year base period average.

<sup>2</sup> The Adjusted Rights allocated to the City of Riverside and The Regents of The University of California were established at 52,169 and 566 acre-feet per annum respectively. On the basis of an amended recordation filing for the 1959-63 Base Period, the adjusted right for The Regents of The University of California was reduced to 536 acre-feet, and the City of Riverside adjusted right was increased to 52,199 acre-feet.

Paragraph VI(b)1(b) of the Judgment provides that the safe yield Adjusted Rights of Plaintiffs shown in the table above can be further adjusted to reflect new conservation. New conservation is defined in Judgment Paragraph IV(i) as, "Any increase in replenishment from natural precipitation which results from operation of works and facilities not now in existence [during the determination of safe yield] ...". The construction of Seven Oaks Dam has resulted in new conservation.

Commencing in 2013, Adjusted Rights of Plaintiffs have been increased based on calculations of the long term average increase in yield resulting from operation of Seven Oaks Reservoir. The amounts of such increase are shown as the New Conservation Allocation on Table Nos. 3A-1 through 3D-1. Therefore, commencing in 2013 the Adjusted Rights for Plaintiffs shown on Table Nos. 3A-1 through 3D-1 are the sum of the Safe Yield Adjusted Right (shown in the table above) and the New Conservation Allocation.

The Adjusted Right of other than Plaintiffs was also based on the natural safe yield of the San Bernardino Basin Area and was determined in 1972 to be 167,238 acre-feet. The Safe Yield Adjusted Right of users other than Plaintiffs of 167,238 acre-feet has also been further adjusted pursuant to Judgment Paragraph VI(c) to reflect the New Conservation Allocation. Therefore, commencing in 2013 the Adjusted Right of users other than Plaintiffs is shown on Table No. 2, page 1, as the sum of the Safe Yield Adjusted Right and the New Conservation Allocation.

The Judgment provides for continuing jurisdiction of the Court in the following matters:

 The hydrologic condition of any one or all of the separate basins described in this Judgment in order to determine from time to time the safe yield of the San Bernardino Basin Area, and 2) The adjusted rights of the Plaintiffs as required to comply with the provisions hereof with respect to changes in the natural safe yield of the San Bernardino Basin Area. If such changes occur, the Court shall adjudge that the Adjusted Rights and replenishment obligations of each Party shall be changed proportionately to the base rights.

In order to provide a basis for future re-determinations of safe yield, the Watermaster maintains a continuing program of collecting and analyzing current hydrologic data pertinent to the annual water supply to, and utilization of water from, the San Bernardino Basin Area.

Such data will be summarized and reported from time to time in subsequent supplemental reports of the Watermaster.

## **CHAPTER V**

EXTRACTIONS FROM THE COLTON BASIN AREA AND RIVERSIDE BASIN AREA WITHIN SAN BERNARDINO COUNTY

### **CHAPTER V**

## EXTRACTIONS FROM THE COLTON BASIN AREA AND RIVERSIDE BASIN AREA WITHIN SAN BERNARDINO COUNTY

## For Use Outside San Bernardino Valley

The extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County for use in Riverside County during the 2018 calendar year have been verified by the Watermaster as 1,549 acre-feet and 9,393 acre-feet, respectively. The individual work sheets for these determinations are included in Report of Watermaster, Volume 2-2018 titled Verified Extractions From the Colton Basin Area in Table No. 4, Volume 3-2018 titled Verified Extractions From Riverside Basin Area Within San Bernardino County in Table No. 4, and Volume 5-2018 titled Distribution of Extractions From the San Bernardino Basin Area, Colton Basin Area, and Riverside Basin Area for Use Outside San Bernardino Valley in Table No. 18.

### For Use Within San Bernardino Valley

Provided minimum groundwater surface elevations within the Colton Basin Area and that portion of Riverside Basin Area within San Bernardino County are maintained by San Bernardino Valley, extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County for use within San Bernardino Valley are not limited and therefore verification of such amounts are not specifically required by the Judgment. However, proper allocation of the total extractions from these areas for use in areas outside San Bernardino Valley necessitates the verification of these extractions. The individual work sheets for the 2018 verification and distribution of extractions are also included in Report of Watermaster, Volumes 2-2018, 3-2018 and 5-2018.

The extractions from the Colton Basin Area and the Riverside Basin Area in San Bernardino County for calendar years 1971 through 2018 are summarized in Table Nos. 4 and 5 following.

# TABLE NO. 4 VERIFIED EXTRACTIONS FROM COLTON BASIN AREA BY SAN BERNARDINO AND RIVERSIDE COUNTY ENTITIES FOR USE IN EACH COUNTY ANNUAL TOTALS

(All Values in Acre-Feet)

Extracted by

							Riverside	Coun	ty Entities			
Calendar Year	Net Total from Basin		Net Extracted by San Bernardino County Entities		Total		Used in San Bernardino County		Used in Riverside County		Base Right for Use in Riverside County	1
Five-Year			j				•		j		•	
Base Period												
1959-63 Avg.	11,731	2	8,235	2	3,496		115		3,381		3,381	
1971	11,388	2	8,363	2	3,025		248		2,777		3,381	
1972	10,414		7,532		2,882		271		2,611		3,381	
1973	7,844		6,982		862		247		615		3,381	
1974	8,906		7,169		1,737		273		1,464		3,381	
1975	11,083		6,821		4,262		389		3,873		3,381	
4070	44 550	•	0.005	•	0.052		005	•	0.000	•	2 204	
1976	11,558	2	8,605	2	2,953		265	2	2,688	2	3,381	
1977	8,777		6,061		2,716		447		2,269		3,381	
1978	7,663		6,430		1,233		338		895		3,381	
1979	7,194		5,224	_	1,970		288		1,682	_	3,381	
1980	5,681	2	5,605	2	76	2	0		76	2	3,381	
1981	6,348		6,175		173		0		173		3,381	
1982	6,499		5,450		1,049		68		981		3,381	
1983	4,735	2	4,603	2	132		37		95		3,381	
1984	8,987		7,441		1,546		205	2	1,341	2	3,381	
1985	10,149		7,142		3,007		764	2	2,243	2	3,381	
1986	10,035		7,651		2,384		806	2	1,578	2	3,381	
1987	13,175		11,054		2,121		565	2	1,556	2	3,381	
1988	13,552		11,453		2,099		392	-	1,707	-	3,381	
1989	14,103	2	11,799	2	2,304		299		2,005		3,381	
1990	17,571	2	15,551	2	2,020		368		1,652		3,381	
1991	14,323		12,282		2,041		206		1,835		3,381	
1992	16,750		15,068		1,682		200		1,455		3,381	
1993	14,977		14,581		396		0		396		3,381	
1994	15,813	2	14,561	2	1,161		95		1,066		3,381	
		2		2								
1995	17,308	2	16,693	2	615		126		489		3,381	
1996	17,040	2	16,385	2	655		78		577		3,381	
1997	14,498	2	13,276	2	1,222		81		1,141		3,381	
1998	10,972	2	10,689	2	283		32		251		3,381	
1999	12,564	2	11,430	2	1,134		222		912		3,381	
2000	13,123	2	12,837	2	286	2	73	2	213	2	3,381	

# TABLE NO. 4 VERIFIED EXTRACTIONS FROM COLTON BASIN AREA BY SAN BERNARDINO AND RIVERSIDE COUNTY ENTITIES FOR USE IN EACH COUNTY ANNUAL TOTALS

(All Values in Acre-Feet)

Extracted by

Riverside County Entities											
Calendar Year	Net Total from Basin	S	et Extracted b an Bernarding County Entities	5	Total	Used in San Bernardino County		Used in Riverside County		Base Right for Use in Riverside County	1
Five-Year											
Base Period											
1959-63 Avg.	11,731	2	8,235	2	3,496	115		3,381		3,381	
2001	16,389	2	16,056	2	333	168	2	165	2	3,381	
2002	19,161	2	17,766	2	1,395	116	2	1,279	2	3,381	
2003	25,656	2	24,576	2	1,080	18	2	1,062	2	3,381	
2004	24,346	2	24,167	2	179	7	2	172	2	3,381	
2005	18,814	2	18,727	2	87	3	2	84	2	3,381	
2006	17,566	2	17,154	2	412	0		412		3,381	
2007	20,988	2	20,246	2	742	0		742		3,381	
2008	20,658	2	19,719	2	939	0		939		3,381	
2009	23,536		23,158		378	0		378		3,381	
2010	24,455		24,378		77	0		77		3,381	
2011	20,573		20,400		173	0		173		3,381	
2012	20,136	2	20,075		61	0		61		3,381	
2013	20,983	2	20,919		64	0		64		3,381	
2014	18,518		18,458		60	0		60		3,381	
2015	13,888		12,634		1,254	0		1,254		3,381	
2016	13,202	2, 3	12,061	2, 3	1,141	0		1,141		3,381	
2017	14,860	3	13,931	3	929	0		929		3,381	
2018 2019	14,842	3	13,293	3	1,549	0		1,549		3,381	
2020											

Note: See Report of Watermaster, Volume 2, Tables 4 & 5; and Volume 5, Table 14.

<sup>1</sup> Extractions for use in Riverside County are limited to the verified extractions for the five-year Base Period 1959-63.

<sup>2</sup> Amount corrected during a subsequent year verification of extractions.

<sup>3</sup> Totals reduced by West Valley Water District recharge.

# TABLE NO. 4 VERIFIED EXTRACTIONS FROM COLTON BASIN AREA BY SAN BERNARDINO AND RIVERSIDE COUNTY ENTITIES FOR USE IN EACH COUNTY FIVE-YEAR TOTALS

(All Values in Acre-Feet)

Extracted by Riverside County Entities

				Riverside Cou	inty Entities		
	Net Total	Net Extracted by		Used in	Used in	Base Right for Use in	
Five-Year	from	San Bernardino		San Bernardino	Riverside	Riverside	
Period	Basin	County Entities	Total	County	County	County	1
Five-Year Base Period							
1959-63	58,655	41,175	17,480	575	16,905	16,905	
1971-75	49,635	36,867	12,768	1,428	11,340	16,905	
1972-76	49,805	37,109	12,696	1,445	11,251	16,905	
1973-77	48,168	35,638	12,530	1,621	10,909	16,905	
1974-78	47,987	35,086	12,901	1,712	11,189	16,905	
1975-79	46,275	33,141	13,134	1,727	11,407	16,905	
1976-80	40,873	31,925	8,948	1,338	7,610	16,905	
1977-81	35,663	29,495	6,168	1,073	5,095	16,905	
1978-82	33,385	28,884	4,501	694	3,807	16,905	
1979-83	30,457	27,057	3,400	393	3,007	16,905	
1980-84	32,250	29,274	2,976	310	2,666	16,905	
1981-85	36,718	30,811	5,907	1,074	4,833	16,905	
1982-86	40,405	32,287	8,118	1,880	6,238	16,905	
1983-87	47,081	37,891	9,190	2,377	6,813	16,905	
1984-88	55,898	44,741	11,157	2,732	8,425	16,905	
1985-89	61,014	49,099	11,915	2,826	9,089	16,905	
1986-90	68,436	57,508	10,928	2,430	8,498	16,905	
1987-91	72,724	62,139	10,585	1,830	8,755	16,905	
1988-92	76,299	66,153	10,146	1,492	8,654	16,905	
1989-93	77,724	69,281	8,443	1,100	7,343	16,905	
1990-94	79,434	72,134	7,300	896	6,404	16,905	
1991-95	79,171	73,276	5,895	654	5,241	16,905	
1992-96	81,888	77,379	4,509	526	3,983	16,905	
1993-97	79,636	75,587	4,049	380	3,669	16,905	
1994-98	75,631	71,695	3,936	412	3,524	16,905	
1995-99	72,382	68,473	3,909	539	3,370	16,905	

# TABLE NO. 4 VERIFIED EXTRACTIONS FROM COLTON BASIN AREA BY SAN BERNARDINO AND RIVERSIDE COUNTY ENTITIES FOR USE IN EACH COUNTY FIVE-YEAR TOTALS

(All Values in Acre-Feet)

Extracted by Riverside County Entities

			Riverside County Entities									
Five-Year Period	Net Total from Basin	Net Extracted by San Bernardino County Entities	Total	Used in San Bernardino County	Used in Riverside County	Base Right for Use in Riverside County	1					
Five-Year Base Period												
1959-63	58,655	41,175	17,480	575	16,905	16,905						
1996-00	68,197	64,617	3,580	486	3,094	16,905						
1997-01	67,546	64,288	3,258	576	2,682	16,905						
1998-02	72,209	68,778	3,431	611	2,820	16,905						
1999-03	86,893	82,665	4,228	597	3,631	16,905						
2000-04	98,675	95,402	3,273	382	2,891	16,905						
2001-05	104,366	101,292	3,074	312	2,762	16,905						
2002-06	105,543	102,390	3,153	144	3,009	16,905						
2003-07	107,370	104,870	2,500	28	2,472	16,905						
2004-08	102,372	100,013	2,359	10	2,349	16,905						
2005-09	101,562	99,004	2,558	3	2,555	16,905						
2006-10	107,203	104,655	2,548	0	2,548	16,905						
2007-11	110,210	107,901	2,309	0	2,309	16,905						
2008-12	109,358	107,730	1,628	0	1,628	16,905						
2009-13	109,683	108,930	753	0	753	16,905						
2010-14	104,665	104,230	435	0	435	16,905						
2011-15	94,098	92,486	1,612	0	1,612	16,905						
2012-16	86,727	84,147	2,580	0	2,580	16,905						
2013-17	81,451	78,003	3,448	0	3,448	16,905						
2014-18	75,310	70,377	4,933	0	4,933	16,905						
2015-19												
2016-20												

<sup>1</sup> Extractions for use in Riverside County are limited to the verified extractions for the five-year Base Period 1959-63. Note: Five-year totals corrected to reflect any corrections on Table 4, Page 1a of 2 and Page 1b of 2.

# TABLE NO. 5 VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA WITHIN SAN BERNARDINO COUNTY BY SAN BERNARDINO AND RIVERSIDE COUNTY ENTITIES FOR USE IN EACH COUNTY ANNUAL TOTALS

(All Values in Acre-feet)

Extracted by Riverside County Entitie

					Riverside County Entities								
Calendar Year	Total from Basin		Extracted by San Bernarding County Entities		Total		Used in San Bernarding County	)	Used in Riverside County		Base Right for Use in Riverside County	1	
Five-Year	Dasiii		County Littles	1	TULAI		County		County		County	<u> </u>	
Base Period													
1959-63 Avg.	33,729		9,609		24,120		3,035		21,085		21,085		
1971	29,070		8,748		20,322		2,214		18,108		21,085		
1972	28,148		7,963		20,185		1,597		18,588		21,085		
1973	21,809		6,490		15,319		1,333		13,986		21,085		
1974	21,881		6,899		14,982		1,399		13,583		21,085		
1975	22,701		6,513		16,188		1,225		14,963		21,085		
1976	24,705		6,898		17,807		1,666		16,141		21,085		
1977	23,506		7,089		16,417		1,985		14,432		21,085		
1978	17,216		6,261		10,955		1,900		9,055		21,085		
1979	20,024		7,062		12,962		2,370		10,592		21,085		
1980	18,533		5,940	2	12,593	2	3,410		9,183	2	21,085		
1981	23,611		6,811		16,800		3,733		13,067		21,085		
1982	17,349	2	5,402	2	11,947	2	3,483	2	8,464	2	21,085		
1983	11,904	2	5,204	2	6,700	2	2,925	2	3,775	_	21,085		
1984	17,161	_	5,648	_	11,513	_	1,953	_	9,560		21,085		
1985	19,392	2	6,048	2	13,344		2,143		11,201		21,085		
1986	17,337		7,401	2	9,936	2	1,245		8,691	2	21,085		
1987	15,803	2	7,374	2	8,429		717		7,712		21,085		
1988	16,933	2	7,237	2	9,696	2	773		8,923	2	21,085		
1989	25,557		7,781		17,776		1,619		16,157		21,085		
1990	26,371		7,872		18,499		2,628		15,871		21,085		
1991	28,011		6,472		21,539		2,984		18,555		21,085		
1992	21,959	2	5,652	2	16,307		1,579		14,728		21,085		
1993	21,866		5,426		16,440		1,735		14,705		21,085		
1994	19,661		5,709		13,952		1,746		12,206		21,085		
1995	23,865	2	6,223	2	17,642		1,696		15,946		21,085		
1996	26,698	2	11,986	2	14,712		1,308	2	13,404	2	21,085		
1997	30,284	2	17,887	2	12,397	2	1,358	2	11,039	2	21,085		
1998	33,116		22,112		11,004	2	1,330	2	9,674	2	21,085		
1999	35,482	3	21,899	3	13,583	2	1,867	2	11,716	2	21,085		
2000	36,124	3,4	23,634	2-4	12,490	2	1,121	2	11,369	2	21,085		

# TABLE NO. 5 VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA WITHIN SAN BERNARDINO COUNTY BY SAN BERNARDINO AND RIVERSIDE COUNTY ENTITIES FOR USE IN EACH COUNTY ANNUAL TOTALS

(All Values in Acre-feet)

Extracted by Riverside County Entities

					Riverside County Entities							
Calendar Year	Total from Basin		Extracted by San Bernarding County Entities		Total		Used in San Bernardino County		Used in Riverside County		Base Right for Use in Riverside County	1
Five-Year Base Period 1959-63 Avg.	33,729		9,609		24,120		3,035		21,085		21,085	
2001	31,423	2-4	21,071	2,3	10,352	2	1,243	2	9,109	2	21,085	
2002	28,042	3,4	13,926	3	14,116		2,441		11,675		21,085	
2003	27,648	3,4	16,713	3	10,935		1,699	2	9,236	2	21,085	
2004	24,779	3,4	15,558	3	9,221		2,499		6,722		21,085	
2005	29,447	3,4	18,177	3	11,270		2,013		9,257		21,085	
2006	30,045	2,3	16,037	2,3	14,008		1,162		12,846		21,085	
2007	27,491	3	16,963	3	10,528		1,925		8,603		21,085	
2008	30,678		16,097	2	14,581	2	1,447		13,134	2	21,085	
2009	34,180		15,034	2	19,146	2	2,354		16,792	2	21,085	
2010	29,125		13,783	2	15,342	2	2,657		12,685	2	21,085	
2011	29,590		14,104		15,486		2,205		13,281	2	21,085	
2012	29,137		11,458		17,679		2,062		15,617	2	21,085	
2013	23,953		9,487		14,466		1,862		12,604	2	21,085	
2014	20,550		9,398		11,152		1,912		9,240		21,085	
2015	16,997		8,721		8,276		1,326		6,950		21,085	
2016	20,426		9,639		10,787		1,065		9,722		21,085	
2017	21,499		9,172		12,327		1,720		10,607		21,085	
2018	19,949		8,840		11,109		1,716		9,393		21,085	
2019			•		•		•		•		-	
2020												

Note: See Report of Watermaster, Volume 3, Tables 4 & 5; and Volume 5, Table 16.

<sup>1</sup> Extractions for use in Riverside County are limited to the verified extractions for five-year Base Period 1959-63.

<sup>2</sup> Amounts corrected during a subsequent year verification of extractions.

<sup>3</sup> Roquet, Harry V. reopened and filed 10 years of previous extractions for well recordation 3601422.

<sup>4</sup> Arrowhead Regional Medical Center, new well 3603947, backfiled on First Notice.

# TABLE NO. 5 VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA WITHIN SAN BERNARDINO COUNTY BY SAN BERNARDINO AND RIVERSIDE COUNTY ENTITIES FOR USE IN EACH COUNTY FIVE-YEAR TOTALS

(All Values in Acre-Feet)

Extracted by Riverside County Entities

			Riverside County Entities					
						Base Right		
	Total	Extracted by		Used in	Used in	for Use in		
Five-Year	from	San Bernardino		San Bernardino	Riverside	Riverside		
Period	Basin	County Entities	Total	County	County	County	1	
Five-Year								
Base Period 1959-63	168,645	48,045	120,600	15,175	105,425	105,425		
	-	•	•	•	•			
1971-75	123,609	36,613	86,996	7,768	79,228	105,425		
1972-76	119,244	34,763	84,481	7,220	77,261	105,425		
1973-77	114,602	33,889	80,713	7,608	73,105	105,425		
1974-78	110,009	33,660	76,349	8,175	68,174	105,425		
1975-79	108,152	33,823	74,329	9,146	65,183	105,425		
1976-80	103,984	33,250	70,734	11,331	59,403	105,425		
1977-81	102,890	33,163	69,727	13,398	56,329	105,425		
1978-82	96,733	31,476	65,257	14,896	50,361	105,425		
1979-83	91,421	30,419	61,002	15,921	45,081	105,425		
1980-84	88,558	29,005	59,553	15,504	44,049	105,425		
1300-04	00,330	29,003	39,333	13,304	44,043	100,420		
1981-85	89,417	29,113	60,304	14,237	46,067	105,425		
1982-86	83,143	29,703	53,440	11,749	41,691	105,425		
1983-87	81,597	31,675	49,922	8,983	40,939	105,425		
1984-88	86,626	33,708	52,918	6,831	46,087	105,425		
1985-89	95,022	35,841	59,181	6,497	52,684	105,425		
1986-90	102,001	37,665	64,336	6,982	57,354	105,425		
1987-91	112,675	36,736	75,939	8,721	67,218	105,425		
1988-92	118,831	35,014	83,817	9,583	74,234	105,425		
1989-93	123,764	33,203	90,561	10,545	80,016	105,425		
1990-94	117,868	31,131	86,737	10,672	76,065	105,425		
	•	•	•	,	,	•		
1991-95	115,362	29,482	85,880	9,740	76,140	105,425		
1992-96	114,049	34,996	79,053	8,064	70,989	105,425		
1993-97	122,374	47,231	75,143	7,843	67,300	105,425		
1994-98	133,624	63,917	69,707	7,438	62,269	105,425		
1995-99	149,445	80,107	69,338	7,559	61,779	105,425		

# TABLE NO. 5 VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA WITHIN SAN BERNARDINO COUNTY BY SAN BERNARDINO AND RIVERSIDE COUNTY ENTITIES FOR USE IN EACH COUNTY FIVE-YEAR TOTALS

(All Values in Acre-Feet)

Extracted by Riverside County Entities

			Riverside County Entities					
Five-Year Period	Total from Basin	Extracted by San Bernardino County Entities	Total	Used in San Bernardino County	Used in Riverside County	Base Right for Use in Riverside County	1	
Five-Year								
Base Period	168,645	48,045	120,600	15,175	105,425	105,425		
1959-63	*	•	,	•	•			
1996-00	161,704	97,518	64,186	6,984	57,202	105,425		
1997-01	166,429	106,603	59,826	6,919	52,907	105,425		
1998-02	164,187	102,642	61,545	8,002	53,543	105,425		
1999-03	158,719	97,243	61,476	8,371	53,105	105,425		
2000-04	148,016	90,902	57,114	9,003	48,111	105,425		
2001-05	141,339	85,445	55,894	9,895	45,999	105,425		
2002-06	139,961	80,411	59,550	9,814	49,736	105,425		
2003-07	139,410	83,448	55,962	9,298	46,664	105,425		
2004-08	142,440	82,832	59,608	9,046	50,562	105,425		
2005-09	151,841	82,308	69,533	8,901	60,632	105,425		
2006-10	151,519	77,914	73,605	9,545	64,060	105,425		
2007-11	151,064	75,981	75,083	10,588	64,495	105,425		
2008-12	152,710	70,476	82,234	10,725	71,509	105,425		
2009-13	145,985	63,866	82,119	11,140	70,979	105,425		
2010-14	132,355	58,230	74,125	10,698	63,427	105,425		
2011-15	120,227	53,168	67,059	9,367	57,692	105,425		
2012-16	111,063	48,703	62,360	8,227	54,133	105,425		
2013-17	103,425	46,417	57,008	7,885	49,123	105,425		
2014-18	99,421	45,770	53,651	7,739	45,912	105,425		
2015-19	·	,	•	·	,	•		
2016-20								

<sup>1</sup> Extractions for use in Riverside County are limited to the verified extractions for the five-year Base Period 1959-63 Note: Five-year totals corrected to reflect any corrections on Table 5, page 1 of 2

#### Minimum Groundwater Surface Elevations

Extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County for use in San Bernardino Valley are not limited, provided that the average static groundwater surface elevation as measured at wells numbered 1S/4W-21Q03S, 1S/4W-29H01S, and 1S/4W-29Q01S is not less than 822.04 feet, as set forth in the Judgment. This elevation is determined each year by averaging the lowest static groundwater elevation occurring in each of the three wells at or near the same time of the year.

A map showing the locations and hydrographs of the calendar year 2018 static groundwater surface elevations in the three key wells are shown on the following pages. Data pertinent to the key wells as well as the records of historic water surface measurements are included in Report of Watermaster, Volume 8-2018 titled *Groundwater Surface Elevations in Wells Numbered 1S/4W-21Q03S, 1S/4W-29H01S, and 1S/4W-29Q01S Located Within the Colton Basin Area and Riverside Basin Area in San Bernardino County through December, 2018.* 

The lowest static groundwater surface elevation measured in each of the three wells during calendar year 2018 is as follows:

Well Number	Date of Measurement	Elevation of Water Surface
1S/4W-21Q03S (Johnson #1)	November 25, 2018	853.23
1S/4W-29H01S (Flume #2)	November 25, 2018	792.74
1S/4W-29Q01S (Flume #5)	November 25, 2018	787.50
	Average	811.16

Thus, the lowest average fall water surface elevation for calendar year 2018 is 11.09 feet lower than the 2017 average of 822.25 and 10.88 feet lower than the 1963 average of 822.04. Watermaster and San Bernardino Valley are

working cooperatively to devise a plan, including constructing necessary facilities and obtaining environmental permits to provide the replenishment and arrangements for Plaintiffs to transfer extractions from the Riverside Basin Area in San Bernardino County to the San Bernardino Area as contemplated in Judgment Paragraph VIII (e). This work will allow for San Bernardino Valley to provide the replenishment needed for calendar year 2018 well levels and be in place for future replenishment obligations, if necessary.

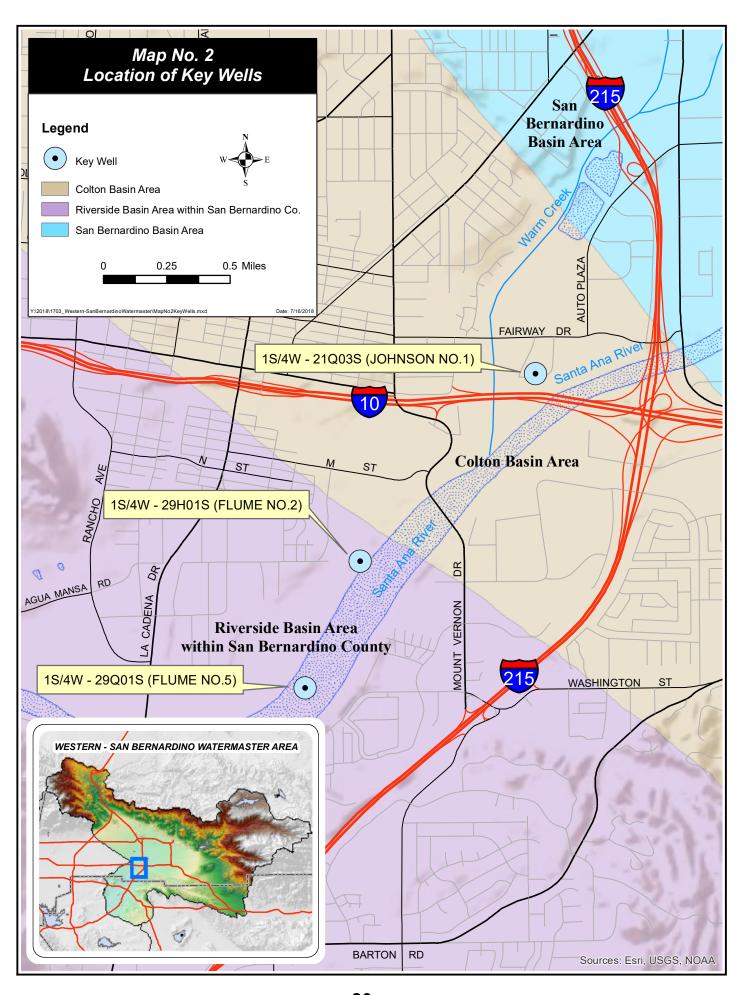
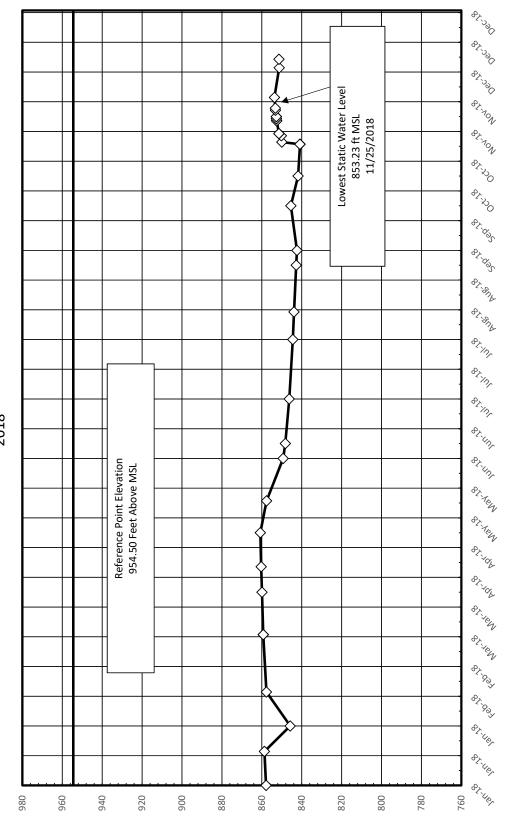
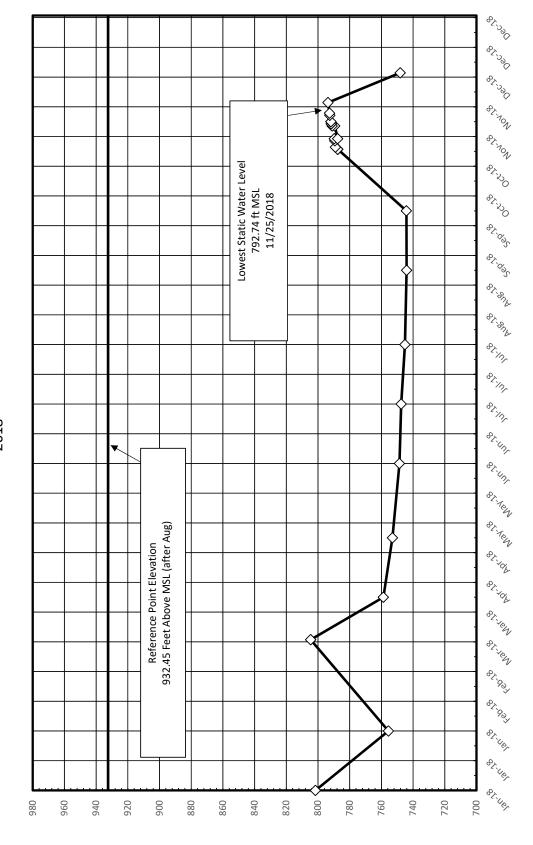


FIGURE 1
GROUNDWATER SURFACE ELEVATIONS
1S/4W-21Q03S
JOHNSON NO. 1 WELL
2018



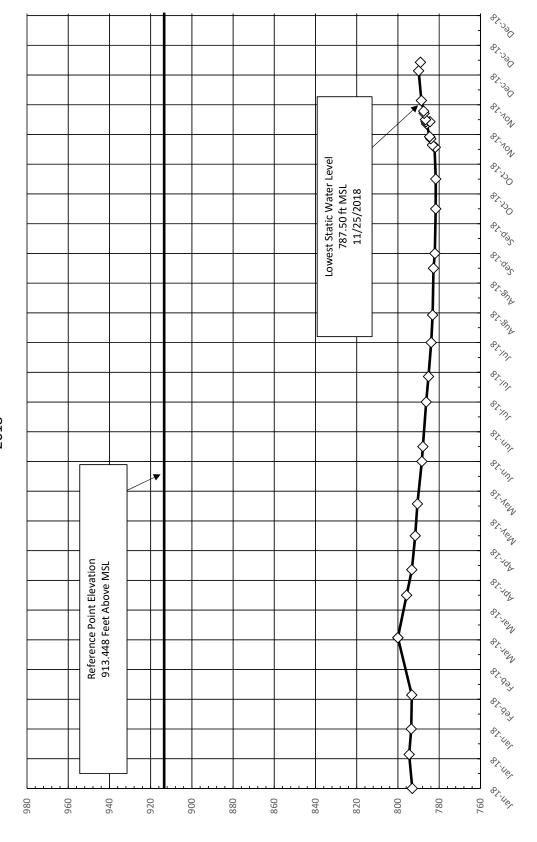
(JZM 9vodA t997) NOITAV3J3

FIGURE 2
GROUNDWATER SURFACE ELEVATIONS
1S/4W-29H01S
FLUME NO. 2 WELL



(J2M 9vodA 1994) NOITAV3J3

FIGURE 3
GROUNDWATER SURFACE ELEVATIONS
1S/4W-29Q01S
FLUME NO. 5 WELL
2018



(JZM 9vodA f994) NOITAV3J3

## **CHAPTER VI**

EXTRACTIONS FROM THE PORTION OF RIVERSIDE BASIN AREA WITHIN RIVERSIDE COUNTY WHICH IS TRIBUTARY TO THE RIVERSIDE NARROWS

### **CHAPTER VI**

## EXTRACTIONS FROM THE PORTION OF RIVERSIDE BASIN AREA WITHIN RIVERSIDE COUNTY WHICH IS TRIBUTARY TO THE RIVERSIDE NARROWS

#### **Extractions**

The extractions from that portion of the Riverside Basin area in Riverside County which is tributary to the Riverside Narrows for use within Riverside County for calendar year 2018 have been verified by the Watermaster as 26,596 acre-feet. The individual work sheets are included in Report of Watermaster, Volume 4-2018 titled *Verified Extractions from Riverside Basin Area Within Riverside County* and are summarized in Table No. 6 following.

# TABLE NO. 6 VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA WITHIN RIVERSIDE COUNTY FOR USE IN RIVERSIDE COUNTY ANNUAL TOTALS

(All Values in Acre-Feet)

Calendar	Total	, 1 661)	Base Right for Use in
Year	Extractions		Riverside County
Five-Year	Extraodono		ravoroido oddini
Base Period			
1959-63 Avg.	29,633		29,633
1971	30,942	1	29,633
1972	37,804	2	29,633
1973	33,094		29,633
1974	38,304	2	29,633
1975	28,285		29,633
1976	31,565		29,633
1977	28,226		29,633
1978	24,576	3	29,633
1979	25,512		29,633
1980	30,206	3	29,633
1981	30,243	3	29,633
1982	20,365	3	29,633
1983	22,991	3	29,633
1984	32,466	3	29,633
1985	23,970	3	29,633
1986	24,549	3	29,633
1987	24,202	3	29,633
1988	24,470	3	29,633
1989	34,417	3	29,633
1990	31,760	3	29,633
1991	29,364	3	29,633
1992	26,538	3	29,633
1993	26,505		29,633
1994	28,125		29,633
1995	22,580		29,633
1996	24,906		29,633
1997	29,128		29,633
1998	28,558		29,633
1999	33,837		29,633
2000	32,263		29,633

# TABLE NO. 6 VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA WITHIN RIVERSIDE COUNTY FOR USE IN RIVERSIDE COUNTY ANNUAL TOTALS

(All Values in Acre-Feet)

Calendar Year	Total Extractions	,	Base Right for Use in Riverside County
Five-Year Base Period			
1959-63 Avg.	29,633		29,633
2001	33,656		29,633
2002	31,013		29,633
2003	30,957		29,633
2004	35,530		29,633
2005	32,737		29,633
2006	31,026		29,633
2007	38,237	2,3	29,633
2008	31,205	3	29,633
2009	35,519		29,633
2010	29,077		29,633
2011	30,510	3	29,633
2012	28,049		29,633
2013	30,070		29,633
2014	31,247	3	29,633
2015	23,606	3	29,633
2016	25,173	3	29,633
2017	26,814	3	29,633
2018	26,596		29,633
2019			
2020			

<sup>1</sup> Amount corrected during verification of 1972 extractions.

Note: See Report of Watermaster, Volume 4, Table 4; Volume 5, Table 17.

<sup>2</sup> These extractions exceeded the Base Right plus peaking allowance of 20% by

<sup>2,244</sup> acre-feet in 1972, 2,744 acre-feet in 1974 and 2,677 acre-feet in 2007

<sup>3</sup> Amount corrected during subsequent year verification of extractions.

# TABLE NO. 6 VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA WITHIN RIVERSIDE COUNTY FOR USE IN RIVERSIDE COUNTY FIVE-YEAR TOTALS (All Values in Acre-Feet)

		Base Right
Five-Year	Total	for Use in
Period	Extractions	Riverside County
Five-Year Base Period		
1959-63	148,165	148,165
1971-75	168,429	148,165
1972-76	169,052	148,165
1973-77	159,474	148,165
1974-78	150,956	148,165
1975-79	138,164	148,165
1976-80	140,085	148,165
1977-81	138,763	148,165
1978-82	130,902	148,165
1979-83	129,317	148,165
1980-84	136,271	148,165
1981-85	130,035	148,165
1982-86	124,341	148,165
1983-87	128,178	148,165
1984-88	129,657	148,165
1985-89	131,608	148,165
1986-90	139,398	148,165
1987-91	144,213	148,165
1988-92	146,549	148,165
1989-93	148,584	148,165
1990-94	142,292	148,165
1991-95	133,112	148,165
1992-96	128,654	148,165
1993-97	131,244	148,165
1994-98	133,297	148,165
1995-99	139,009	148,165

# TABLE NO. 6 VERIFIED EXTRACTIONS FROM RIVERSIDE BASIN AREA WITHIN RIVERSIDE COUNTY FOR USE IN RIVERSIDE COUNTY FIVE-YEAR TOTALS (All Values in Acre-Feet)

(7 th Values in 7 tole 1 cet)	
	Base Right
	for Use in
Extractions	Riverside County
1/8 165	148,165
<u> </u>	·
	148,165
	148,165
	148,165
	148,165
163,419	148,165
163,893	148,165
161,263	148,165
168,487	148,165
168,735	148,165
168,724	148,165
165,064	148,165
164,548	148,165
154,360	148,165
153,225	148,165
148,953	148,165
143,482	148,165
138,145	148,165
136,910	148,165
133,436	148,165
,	,
	Total Extractions  148,165  148,692 157,442 159,327 161,726 163,419  163,893 161,263 168,487 168,735 168,724  165,064 164,548 154,360 153,225 148,953  143,482 138,145 136,910

Note: 5-year totals corrected to reflect any corrections on Table 6, page 1 of 2

#### **Return Flows**

The Judgment provides for additional replenishment by Western if the urbanization of the Riverside Basin Area Within Riverside County results in a diminution of the return flow accruing from the extractions described above and which would have otherwise accrued to the rising water at Riverside Narrows. The extent of such diminution is determined by the permanent reduction in the irrigated areas within the various water service organizations delivering water to the areas as compared to the areas served at the time the Judgment was entered. To the extent that such reduction causes an increase in the urban uses requiring sewage disposal through the Riverside Treatment Plant (the effluent of which bypasses the Riverside Narrows), Western may, from time to time, be required to provide replenishment. Such irrigated acreages in the Riverside Basin Area Within Riverside County at the time the Judgment was entered, from which return flow was tributary to Riverside Narrows, are set forth in Table D-5 of Appendix "D" of the Judgment and are as follows:

IRRIGATED ACREAGE IN RIVERSIDE BASIN AREA
IN RIVERSIDE COUNTY PRESENTLY TRIBUTARY TO
RIVERSIDE NARROWS WHICH UPON CONVERSION
TO URBAN USES REQUIRING SEWAGE DISPOSAL
THROUGH THE RIVERSIDE TREATMENT PLANT WILL
BE DISCHARGED TO THE RIVER BELOW
RIVERSIDE NARROWS

Entity Serving Acreage	<u>Acres</u>
Gage Canal Company Alta Mesa Water Company East Riverside Water Company Riverside Highland Water Company	1,752 65 926 <u>1,173</u>
TOTAL	3,916

The service areas of the companies listed in Table D-5 were investigated. Field investigation was not completed during calendar year 2018.

The number of dwelling units connected to the City of Riverside wastewater disposal system and a discharge unit factor of 0.22 acre-feet per year per dwelling unit was used to determine the wastewater discharged to the river from the converted lands. These data have been summarized for the years 2014 through 2018 and are shown on Table No. 7.

TABLE NO. 7
REDUCTION IN RETURN FLOW CONTRIBUTING TO BASE FLOW
AT RIVERSIDE NARROWS
RESULTING FROM CONVERSION OF AGRICULTURAL USES
OF WATER TO DOMESTIC USES CONNECTED TO A SEWAGE SYSTEM
DISCHARGING TO THE RIVER BELOW RIVERSIDE NARROWS
(All Values in Acre-Feet)

Calendar Year	Gage Canal	Alta Mesa	East Riverside	Riverside Highland	Total
2014	257	38	284	0	579
2015	257	38	284	0	579
2016	257	38	284	0	579
2017	257	38	284	0	579
2018	257	38	284	0	579
TOTAL 2014-18	1,285	190	1,420	0	2,895

Table No. 7 shows that in 2018 the reduction in return flow contributing to Base Flow at Riverside Narrows resulting from the conversion of land from agricultural use to urban uses in the Riverside Basin Area was 579 acre-feet. Western's obligation associated with the land use conversion and resulting replenishment requirements are shown on Table No. 16.

#### **CHAPTER VII**

EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA, COLTON BASIN AREA, AND RIVERSIDE BASIN AREA FOR USE WITHIN WESTERN ON LANDS THAT ARE NOT TRIBUTARY TO THE RIVERSIDE NARROWS

#### **CHAPTER VII**

## EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA, COLTON BASIN AREA, AND RIVERSIDE BASIN AREA FOR USE WITHIN WESTERN ON LANDS THAT ARE NOT TRIBUTARY TO THE RIVERSIDE NARROWS

The extractions from the San Bernardino, Colton and Riverside Basin Areas which were delivered for use within Western on lands not tributary to the Riverside Narrows during calendar year 2018 were verified by the Watermaster to be 36,783 acre-feet. Said amount is summarized by entity on Table No. 8.

The detailed work sheets for this determination are contained in Report of Watermaster, Volume 6-2018, titled *Verified Extractions from the San Bernardino Basin Area, Colton Basin Area, and Riverside Basin Area for Use Within Western on Lands Not Tributary to the Riverside Narrows.* 

### Annual Report Modifications Table No. 8

During the period 1981 through 2004 agreements between Western and San Bernardino Valley were entered in all but four years to address the high groundwater problem in the San Bernardino Basin Area. It was agreed that there was an existing temporary surplus of natural groundwater supply in the Basin. Additional extractions were made available to Plaintiffs and users other than Plaintiffs in order to help mitigate the problem. The agreements also provided that the replenishment obligations in Judgment Paragraph X would not apply to such additional extractions.

Judgment Paragraph X provides that Western is obligated to provide an amount of replenishment equal to the loss of return flow from the export of water extracted by users from within Western and delivered for use on lands not

tributary to the Riverside Narrows that is in excess of the amount exported in the base period 1959 through 1963. Such excess is referred to as new export.

Table No. 8 is an accounting of the total export by entities within Western.

Report of Watermaster, Volume 6 (referenced above) is the source of detailed worksheets for this determination.

In the reports for calendar years 1982 through 2011 the deduction of additional extractions from the San Bernardino Basin Area pursuant to the high groundwater mitigation agreements has been made in Column 15 of Table No. 1A in Report of Watermaster, Volume 6. In 2013, Volume 6 was modified by deleting the deduction in Table No. 1A and inserting the deduction in Annual Report Table No. 14. The new line in Table No. 14 is titled Additional New Export. This change was made to improve readability and understanding by causing Western's new export credit or obligation to be accounted for in a manner consistent with similar new export accounting for San Bernardino Valley.

In the reports for calendar years 1982 through 2011 the deduction of additional extractions pursuant to the high groundwater mitigation agreements by users other than Plaintiffs was accomplished through footnotes in Table No. 17. In order to make the table easier to read and understand, the data in the Table No. 17 footnotes were moved to Table No. 15A. The new line in Table No. 15A is also titled Additional New Export.

By eliminating the deduction of high groundwater agreement related additional extractions from Report of Watermaster, Volume 6, such extractions by Western users can now be deducted from total new export in Table No. 14 in the same way additional extractions by users other than Plaintiffs are deducted in Table No. 15A.

During the process of eliminating high groundwater related additional extractions from Report of Watermaster, Volume 6, and adding them to

Table No. 14, it was discovered that not all of the additional extractions had been deducted in Volume 6. As a result, the total additional extractions deducted in Table No. 14 are greater than the extractions deleted from Report of Watermaster, Volume 6.

In April 2014 the Report of Watermaster, Volume 6 was modified to include in Section II the determination of the amount of return flow from imported water used in Riverside County which contributes to base flow at Riverside Narrows. Western receives credit for such return flow against any future replenishment obligations pursuant to Judgment Paragraph XI(b)3. Judgment Paragraph XI(a) provides that the credit for return flow is the calculated amount of return flow adjusted upward or downward depending on the quality of the return flow, using the same quality adjustment formula used at Riverside Narrows as set forth in the Orange County Judgment.

There are currently two methods of delivering imported water in Riverside County to areas tributary to Riverside Narrows. They are as follows:

- Direct delivery to Western's retail service area and to the City of Riverside from the Henry J. Mills Treatment Plant which treats State Water Project water, or
- 2) Delivery to Western or any Plaintiff party, groundwater from the San Bernardino Basin Area pursuant to the 2004 Judgment Paragraph VI(b)6 agreement that provides for 6,000 acre-feet of additional water extraction in exchange for Western's purchase of a like amount of recharge water.

From 1971 to 1978 direct deliveries, cited above as the first method, consisted of Colorado River Water and as a result, the amount of return flow was adjusted downward due to the high TDS concentration of the return flow. In 1979, low TDS State Water Project water became available to both Western and the

City of Riverside and therefore the return flow credit is greater than the actual return flow.

Using the second method cited above, in 2007 the City of Riverside extracted 2,459 acre-feet of the imported water recharge made available as additional water pursuant to the 2004 Judgment Paragraph VI(b)6 agreement referenced above. Prior to 2013, this additional water was deducted from export in Column 15, Table No. 1A of Report of Watermaster, Volume 6. In 2013, this additional extraction was also deleted from Volume 6 and inserted into Table No. 16 as a credit. The April 2014 modification causes the extraction to be a part of the determination of Return From Imported Water credit shown on Table No. 16.

In the future, Watermaster plans to further modify the Report of Watermaster, Volume 6, to include the opportunity to calculate credit for Replenishment and Storm Flow Conservation including the quality adjustment and the obligation associated with Land Use Conversion. All of these values are used in determining Western's Net Accumulated (Credit) or Obligation in Table No. 16.

TABLE NO. 8

VERIFIED EXTRACTIONS FROM
THE SAN BERNARDINO BASIN AREA,
THE COLTON BASIN AREA, AND THE RIVERSIDE BASIN AREA
FOR USE WITHIN WESTERN ON LANDS THAT ARE NOT TRIBUTARY
TO THE RIVERSIDE NARROWS
(All Values in Acre-Feet)

				Calandar Vagre		
		2014	2015	2016	2017	2018
	Annual	Verified	Verified	Verified	Verified	Verified
Entities Within WMWD	1959-63 Average	Delivery	Delivery	Delivery	Delivery	Delivery
City of Riverside, including Irrigation Division water extracted by the Gage Canal Company and former Riverside Water Company	23,836	35,159	29,324	27,867	24,668	29,102
Meeks & Daley Water Company, Agua Mansa Water Company, and Temescal Water Company, including water	6		Š	6		C
received from City of Riverside	13,229	3,142	6,439	8,252	7,841	6,568
Riverside Highland Water Company	0	0	1,122	696	0	0
Extractions delivered by West Riverside Canal received from Twin Buttes Water Company, La Sierra Water Company, Agua Mansa Water Company, Salazar Water Company, West Riverside 350 Inch Water Company, and Jurupa Water						
Company	4,903	549	475	468	485	450
Jurupa Community Services District	531	0	0	0	0	0

Note: See Report of Watermaster, Volume 6, Table A.

663 36,783

3,013

2,670 40,226

3,202

1,812

38

Rubidoux Community Services District

TOTAL

42,535

#### **CHAPTER VIII**

EXTRACTIONS FROM THE
SAN BERNARDINO BASIN AREA
FOR USE ON LANDS NOT WITHIN WESTERN
NOR TRIBUTARY TO THE RIVERSIDE NARROWS
AND FOR USE ON LANDS WITHIN
THE COLTON AND RIVERSIDE BASIN AREAS

#### **CHAPTER VIII**

# EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA FOR USE ON LANDS NOT WITHIN WESTERN NOR TRIBUTARY TO THE RIVERSIDE NARROWS AND FOR USE ON LANDS WITHIN THE COLTON AND RIVERSIDE BASIN AREAS

#### **Deliveries to Chino Basin**

Deliveries of extractions from the San Bernardino Basin Area for use on lands not within Western nor tributary to the Riverside Narrows (lands within Chino Basin) in amounts greater than deliveries in the 1959-63 base period results in a loss of return flow to the San Bernardino Basin Area. The amount delivered in the base period was 11,701 acre-feet.

The extractions from the San Bernardino Basin Area which were delivered for use on lands not within Western nor tributary to the Riverside Narrows (Chino Basin) during calendar year 2018 were verified by the Watermaster to be 8,742 acre-feet. Said amount is summarized by entity on Table No. 9A. During the verification of 2015 extractions, West Valley Water District provided revised delivery amounts for the years 2008 through 2014. The revised delivery amounts have been incorporated into the Watermaster report.

The detailed work sheets for this determination including the revised amounts for West Valley Water District, and for deliveries to areas other than Chino Basin and to the Colton and Riverside Basin Areas are contained in Report of Watermaster, Volume 7-2018, titled *Verified Extractions from the San Bernardino Basin Area for Use on Lands Not Within Western Nor Tributary to the Riverside Narrows and for Use on Lands Within the Colton and Riverside Basin Areas*.

#### **Deliveries to Areas Other Than Chino Basin**

The Judgment provides for replenishment by San Bernardino Valley to the extent exports are made from the San Bernardino Basin Area for use in the Yucaipa, San Timoteo, Oak Glen, and Beaumont Basins.

The results of the verification of the base period production from the San Bernardino Basin Area indicated that such exports were not made during the 1959-63 base period. The verification of production for the 2018 calendar year indicated that no water was exported to the Yucaipa, San Timoteo, Oak Glen or Beaumont Basins.

#### Deliveries to Lands Within the Colton and Riverside Basin Areas

Deliveries of extractions from the San Bernardino Basin Area to the Colton and Riverside Basin Areas in amounts greater than deliveries in the 1959-63 base period also result in a loss of return flow to the San Bernardino Basin Area. The amount delivered in the base period was 17,837 acre-feet.

The extractions from the San Bernardino Basin Area, which were delivered for use on lands within the Colton and Riverside Basin Areas during calendar year 2018, were verified by the Watermaster to be 20,214 acre-feet. Said amount is summarized by entity on Table No. 9B.

### Annual Report Modifications Table Nos. 9A and 9B and Volume 7

In 1992 the Court approved amendments to the Judgment that primarily addressed changes in the way calculations were made for export of extractions by users in San Bernardino County to areas not tributary to Riverside Narrows. Prior to 1992, the Judgment provided for replenishment of actual extractions in excess of the Adjusted Right pursuant to Paragraph VI(c). The Judgment also provided, in Paragraph X, for replenishment equal to the amount of extractions exported from San Bernardino Valley to Chino Basin in excess of the amount

exported in the base period 1959 through 1963. Such excess export is referred to as new export.

By 1990, it was apparent to Watermaster that the literal interpretation of Judgment Paragraphs VI(c) and X was resulting in a replenishment requirement greater than necessary to offset the loss of return flow to the San Bernardino Basin Area resulting from new export. This became an issue generally known as the "two-for-one" issue.

Considerable inquiry of those directly involved in the settlement was accomplished in an effort to determine if replenishment in excess of return flow loss was intentional. There was no evidence it was intentional. Nor was there any evidence anywhere else in the Judgment of a requirement to replenish amounts in excess of just the amount necessary to offset an adverse impact. In 1992, Watermaster began to refer to the necessity to offset adverse impacts with an equal amount of replenishment as maintenance of hydrologic integrity.

So, one of the 1992 amendments was to address the "two-for-one" issue. Two approaches were considered. The first consisted of amending Paragraph X to require replenishment equal to only the loss of return flow associated with the actual export (currently 36 percent). The second approach consisted of subtracting the new export from the total extractions before determining if extractions were greater than or less than the Adjusted Right. Both approaches resulted in the same determination of new export obligation and the obligation was equal to the adverse impact on groundwater storage of just the loss of return flow resulting from export. Hydrologic integrity of the basin was maintained with either approach.

The second approach referenced above consisting of subtracting new export from total extraction and treating all new export as an obligation was used

to write the amendments and to correct the new export calculations. Corrections to the methodology used to calculate obligations related to new export were made in the August 1, 1993 Annual Report. Corrections to all prior new export calculations were made back to 1971. The "two-for-one" issue was resolved.

Other amendments included in the 1992 Court order to preserve the hydrologic integrity of specific groundwater basins were as follows.

- Western's obligation to replenish to offset exports by users within Western that exceeded the export in the base period was limited to just the amount necessary to offset the loss of return flow (currently 36 percent of new export). In 1993 changes to the calculation of Western's new export credits or obligations were also made commencing in calendar year 1971 to reflect this amendment.
- 2) San Bernardino Valley's obligation to replenish was changed to require separate accounting for the San Bernardino Basin Area (not including Colton Basin Area) in order to ensure hydrologic integrity of the Basin. No modifications were made in 1993 to address this matter. Modifications to the 2013 Annual Report addressed this provision of the 1992 amendment.
- 3) The addition of provisions that:
  - a) require replenishment in the Colton and Riverside Basins to offset loss of return flow related to increase in exports therefrom for use in areas not within Western nor tributary to Riverside Narrows, and
  - b) reduce any replenishment required by a) above by providing credit for return flow resulting from water delivered directly in Colton and Riverside Basins that originates outside the Basins.

Modifications necessary to make these determinations were a part of the 2014 modifications. The determinations for 3) a) above are included in Volume 7, Section IV, Chapter VII, Table K. Similarly, the determinations for 3) b) above are included in Report of Watermaster Volume 7, Section IV, Chapter VIII, Table L.

One of the purposes of this section in Chapter VIII is to describe in some detail the 2013 modifications in Report of Watermaster, Volume 7 and the resulting changes in Table Nos. 9A and 9B necessary to accomplish the following.

- 1) More accurately reflect the 1992 amendment described as amendment two above.
- Preserve the hydrologic integrity of the San Bernardino Basin Area, as such integrity is affected by return flow from applied water.

Watermaster Annual Reports prior to 2013 described export of extractions for use in San Bernardino County from <u>San Bernardino Valley</u> as the sum of the following.

- Export from San Bernardino Basin Area and Colton Basin Area combined for delivery in Chino Basin.
- Export from San Bernardino Basin Area for delivery in Yucaipa,
   San Timoteo, Oak Glen and Beaumont Basins.

Pursuant to the amended Judgment and the objective of maintaining the hydrologic integrity of the San Bernardino Basin Area, the 2013 modified Annual Report describes delivery of extractions from the <u>San Bernardino Basin Area</u> for use in San Bernardino County as follows.

 Export from San Bernardino Basin Area <u>only</u> for delivery to Chino Basin (Table No. 9A).

- Export from San Bernardino Basin Area for delivery to Yucaipa, San Timoteo, Oak Glen and Beaumont Basin's, referred to as areas other than Chino Basin (Table No. 9A).
- Delivery from San Bernardino Basin Area for delivery use in Colton and Riverside Basin Areas (Table No. 9B).

The improvement in hydrologic integrity resulting from the 2013 modifications is demonstrated as follows.

- 1) By deleting the export from the Colton Basin Area to the Chino Basin from the determination of credits and obligations in the San Bernardino Basin Area, the obligations in the San Bernardino Basin Area are no longer overstated.
- 2) Conversely, by accounting for the deliveries from the San Bernardino Basin Area to the Colton and Riverside Basin Areas as the resulting loss of return flow to the San Bernardino Basin Area, the obligation in the San Bernardino Basin Area is not understated.

Therefore, the determination of the effects of new export to areas not tributary to the Riverside Narrows and new deliveries to the Colton and Riverside Basin Areas on storage in the San Bernardino Basin Area is more accurate.

The 2013 methodology used to determine export for delivery to Chino Basin from the San Bernardino Basin Area consists of the following.

- The continuation of prior practice of calculating the export from San Bernardino Basin Area and Colton Basin Area.
- 2) The determination of the export from San Bernardino Basin Area to Chino Basin only, using data from 1) above and other required information. The results of this calculation are now shown in the modified Table No. 9A.

The modifications to the calculation of export described in this section also included a redetermination of the annual average export during the 1959 through 1963 base period. The methodology for such redetermination was the same as for calendar years 1971 through 2011. The base period average amount for delivery to the export areas for each entity is shown in the first column of Table No. 9A. Prior to modification the total base period average was 12,527 acre-feet. After modification, it decreased to 11,701 acre-feet, largely as a result of deleting export from Colton Basin Area and Riverside Basin Area to areas not within Western nor tributary to the Riverside Narrows.

The 2013 methodology used to determine deliveries to the Colton and Riverside Basin Areas is new. However, most of the necessary data is readily available in Report of Watermaster, Volumes 1 and 7. The results are shown in Table No. 9B.

The modifications relating to deliveries from the San Bernardino Basin Area to the Colton and Riverside Basin Areas in this section also included a determination of the annual average deliveries during the 1959 through 1963 base period. The base period average amount for delivery to the Colton and Riverside Basin Areas for each entity is shown in the first column of Table No. 9B. The total base period average is 17,837 acre-feet.

Report of Watermaster, Volume 7 was also modified to include a new section that includes the following.

- Table No. 21 showing deliveries of imported water (State Water Project) for recharge in each groundwater basin and deliveries for direct use inside and outside San Bernardino Basin Area.
- Table No. 22 showing State Water Project water and San Bernardino Basin Area groundwater deliveries to Bear Valley

Mutual Water Company in-lieu of surface water diversions from the Santa Ana River.

The summation of these data has always been included in Table No. 17. However, the details shown in Section V of Report of Watermaster, Volume 7, were not published. Diagram No. 1, Organization of the Annual Report shows the imported water direct delivery and replenishment data flowing from Volume 7 to Table No. 17.

TABLE NO. 9A

VERIFIED EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA FOR USE ON LANDS NOT WITHIN WESTERN NOR TRIBUTARY TO RIVERSIDE NARROWS

(All Values in Acre-Feet)

				Calendar Years		
Entities	Annual 1959-63 Average	2014 Verified Delivery	2015 Verified Delivery	2016 Verified Delivery	2017 Verified Delivery	2018 Verified Delivery
Fontana Union Water Company	10,170	6,765	4,984	3,255	7,531	069'9
West Valley Water District (formerly WSBCWD)	1,314	1,607	1,883	1,261	1,200	1,313
City of Rialto	217	996	428	360	352	739
Subtotal (Delivery to Chino Basin)	11,701	9,338	7,295	4,876	9,083	8,742
San Bernardino Valley Municipal Water District 1	0	0	0	0	0	0
Subtotal (Delivery to areas other than Chino Basin)	0	0	0	0	0	0
TOTAL	11,701	9,338	7,295	4,876	6,083	8,742

<sup>\*</sup> Fontana Water Company delivers water extracted from San Bernardino Basin Area and Colton Basin Area as Fontana Union Water Company. The Fontana Water Company water service area is located largely within Chino Basin. However, portions of the Fontana Water Company service area are within Colton Basin Area.

1 Water diverted from Mill Creek and delivered to Yucaipa Basin and water pumped through Central Feeder Project into Inland Feeder Project.

Note: See Report of Watermaster, Volume 7, Table Nos. C & D.

TABLE NO. 9B

VERIFIED EXTRACTIONS FROM THE SAN BERNARDINO BASIN AREA FOR USE ON LANDS WITHIN COLTON AND RIVERSIDE BASIN AREAS

(All Values in Acre-Feet)

				Calendar Years		
Entities	Annual 1959-63 Average	2014 Verified Delivery	2015 Verified Delivery	2016 Verified Delivery	2017 Verified Delivery	2018 Verified Delivery
Fontana Union Water Company	* 629	0	0	0	0	0
West Valley Water District (formerly WSBCWD)	11,172	8,880	8,525	6,777	8,106	8,085
City of Rialto	858	7,118	5,704	5,646	5,212	5,539
City of Colton	3,347	4,879	4,405	3,044	3,842	3,695
City of San Bernardino Elevated System	886	2,502	2,236	2,219	2,364	2,552
Terrace Water Company	1,045	099	473	420	464	343
TOTAL	17,837	24,039	21,343	18,106	19,988	20,214

\* Fontana Water Company delivers water extracted from San Bernardino Basin Area and Colton Basin Area as Fontana Union Water Company. The Fontana Water Company water service area is located largely within Chino Basin. However, portions of the Fontana Water Company service area are within Colton Basin Area.

Note: See Report of Watermaster, Volume 7, Table Nos. E & F.

#### **CHAPTER IX**

ANNUAL ACCOUNTING OF EXTRACTIONS, DELIVERIES, AND REPLENISHMENT OBLIGATIONS

#### **CHAPTER IX**

## ANNUAL ACCOUNTING OF EXTRACTIONS, DELIVERIES, AND REPLENISHMENT OBLIGATIONS

The Judgment requires the annual determination of extractions from the San Bernardino, Colton, and Riverside Basin Areas by Plaintiffs as well as Non-Plaintiffs, and further requires that a determination be made as to that portion of such extractions delivered to each of the service areas tributary to the Riverside Narrows as well as the deliveries to those areas not tributary to the Riverside Narrows.

#### Plaintiff Extractions from San Bernardino Basin Area

The Judgment specifically defines the Adjusted Right of the City of Riverside, Riverside Highland Water Company, Agua Mansa Water Company and Meeks & Daley Water Company, and The Regents of The University of California to extract water from the San Bernardino Basin Area for use in three specific service areas. Commencing in 2013, the Adjusted Rights include a part of each Plaintiff's proportionate share of new conservation. These rights, expressed in terms of the five-year total allowable extractions and deliveries and the maximum allowable extractions and deliveries in any one year for each service area, are shown on Table Nos. 10 through 13. These tables show the extractions for use by the Plaintiffs in the specific service areas and are summarized in the table on page 109.

During the period 2014 through 2018, each Plaintiff's extractions and delivery of such extractions to specific service areas did not exceed the five-year sum of the Adjusted Rights. Also, no Plaintiff exceeded the maximum allowable annual extraction for delivery to any service area in any year.

#### Allowable Plaintiff Extractions in 2019

The Judgment limits Plaintiff's extraction in 2019 to the sum of the annual Adjusted Rights for the five year period 2015 through 2019 minus the actual extractions/deliveries in 2015 through 2018 or 1.3 times the Adjusted Right for 2019, whichever is the lessor. The Adjusted Rights include the portion of Seven Oaks related new conservation water forecast to result from increased recharge at the Santa Ana River Spreading Grounds.

The Judgment also provides in Paragraph VI(b)6 for agreements between San Bernardino Valley and Western under which additional extractions may be made from the San Bernardino Basin Area. Such agreements have been entered and approved by the Court to allow Plaintiffs the opportunity to extract water in addition to the limits cited in the paragraph above as follows.

- 1) Additional extractions resulting from recharge of imported water, including extraction of prior year under extractions in amounts equal to or less than the amount of right to extract imported water transferred from Western to Plaintiff minus any remaining balance of such amounts of under extraction.
- 2) Additional extractions resulting from Watermaster determination and allocation of specific amounts of Seven Oaks related new conservation water that resulted from increased recharge at the Santa Ana River Spreading Grounds from 1998 through 2012.

The portion of Seven Oaks related new conservation water that is not forecast to result from increased recharge at the Santa Ana River Spreading Grounds will probably be determined and allocated in the future by Watermaster as such conservation occurs through additional Court approved Judgment Paragraph VI(b)6 agreements. Such allocations will provide Plaintiffs with future

opportunities to extract more new conservation water than the amounts made available through their Adjusted Right.

Table Nos. 10A through 13A show each Plaintiffs allowable extractions for delivery to each service area for calendar year 2019. The first line of data on each table shows the allowable extractions based on Adjusted Right as described in the first paragraph of this section. The second line is the remaining balance in a Western imported water holding account (see Table Nos. 17B-1 through 17B-4) that is available for extraction as a result of Plaintiff under extractions as described in 1) above. The third line is the Plaintiffs remaining balance of any previous Watermaster allocations of new conservation water from years prior to 2013 plus any other allocation of new conservation water resulting from conservation in the San Bernardino Basin Area by means other than recharge at the Santa Ana River Spreading Grounds as described in 2) above.

#### Non-Plaintiff Extractions from San Bernardino Basin Area

The Judgment provides that the Non-Plaintiffs as a group can produce a specific amount of water from the San Bernardino Basin Area without causing San Bernardino Valley to replenish the Basin with imported water. During the period 2014 through 2018, the Non-Plaintiff Total Extractions did not exceed San Bernardino Valley's Adjusted Right as shown in the following table.

#### Total Extractions from the San Bernardino Basin Area

A comparison of allowable extractions to actual extractions by Plaintiffs and Non-Plaintiffs for the period 2014 through 2018 is as follows:

	Allowable Extractions 2014-2018	Actual Extractions 2014-2018	Difference 2014-2018
	(Acre-Feet)	(Acre-Feet)	(Acre-Feet)
Plaintiffs	298,397	298,367	(36,623)
Non- Plaintiffs	863,725	652,864	(210,861)
Total	1,198,715	950,993	(247,722)

### Export to Areas Not Tributary to Riverside Narrows and Deliveries to Colton and Riverside Basin Areas

The Judgment limits the amount of water that can be extracted from the various basins, without replenishment, for use on lands that are not tributary to the Riverside Narrows. The amounts delivered to the Colton Basin Area within San Bernardino Valley and Riverside Basin Area within San Bernardino County from the San Bernardino Basin Area, without replenishment, are also limited. Western and San Bernardino Valley are responsible for any obligation that may result from export or delivery to these areas in Riverside County and San Bernardino County, respectively.

Table Nos. 14 and 15A show the annual 1959-63 average export and actual export for use on lands in Riverside County and San Bernardino County not tributary to the Riverside Narrows. The high groundwater mitigation agreements regarding extraction of additional water provide that the Judgment Paragraph X provisions shall not apply to such additional water. Therefore, the additional water extracted by Plaintiffs and Non-Plaintiffs for export has been excluded from the determination of new export in the line titled Additional New Export on Table Nos. 14 and 15A, respectively.

Table No. 14 shows that during the period 1971 through 2018 the exports, excluding additional new export, by entities within Western was 342,064 acre-feet less than the allowable export. Table No. 15A shows that exports, excluding additional new export, from San Bernardino Basin Area exceeded the allowable export for the period 1971 through 2018 by 270,632 acre-feet. Western's credit and the obligation of San Bernardino Valley resulting from this new export are shown on Table Nos. 16 and 17, respectively.

Table No. 15B shows the annual 1959-63 average deliveries and actual deliveries for use on lands in Colton and Riverside Basin Areas. The table concludes that deliveries from the San Bernardino Basin Area to the Colton and Riverside Basin Areas during the period 1971 through 2018 exceeded the annual 1959-63 average deliveries for such period by 171,880 acre-feet. The San Bernardino Valley obligation resulting from these new deliveries is shown on Table No. 17.

#### **Summary of Western Credits and Obligations**

Table No. 16 summarizes Western credits and obligations in the Colton Basin Area, Riverside Basin Area in San Bernardino County and Riverside Basin Area in Riverside County. The table shows the Base Right for extraction from each Basin Area and the extractions from each Basin Area for the period 2014 through 2018. The aggregate amount of under extractions or excess extractions resulting from such extractions are determined and included as either a credit or obligation along with other credits and obligations. The specific data inputs and logic used to determine each type of credit and obligation are described in subsection 3) on page 123 in the section titled Annual Report Modifications – Table Nos. 10 through 18.

The resulting net accumulated credit or obligation is the net accumulated credit or obligation from the period 1971 through 2012 plus the credit or

obligation for each year of the five-year period 2014 through 2018 for the Colton Basin Area, Riverside Basin Area in San Bernardino County and the Riverside Basin Area in Riverside County. The Judgment provides for such accumulation of credits and obligations. In summary, Table No. 16 shows that Western's net accumulated credit in the Colton and Riverside basins through 2018 is 527,017 acre-feet.

#### **Summary of San Bernardino Valley Credits and Obligations**

Table No. 17 summarizes San Bernardino Valley credits and obligations in the San Bernardino Basin Area. The table shows the Adjusted Right for extraction and the actual extractions from the San Bernardino Basin Area by users in San Bernardino County for the period 2014 through 2018. The amount of under extractions or excess extractions resulting from such extractions are determined and included as either a credit or obligation along with other credits and obligations. The specific data inputs and logic used to determine each type of credit and obligation are described in subsection 3) on page 123 in the section titled Annual Report Modifications – Table Nos. 10 through 18.

The resulting net accumulated credit or obligation is the net accumulated credit or obligation from the period 1971 through 2012 plus the credit or obligation for each year of the five-year period 2014 through 2018 for the San Bernardino Basin Area. The Judgment provides for such accumulation of credits and obligations. In summary, Table No. 17 shows that San Bernardino Valley's net accumulated credit in the San Bernardino Basin Area through 2018 is 339,800 acre-feet.

San Bernardino Valley may also incur an obligation in the Colton and Riverside Basin Areas within San Bernardino County. Chapter V indicates that extractions in the Colton and Riverside Basin Areas for use in San Bernardino Valley are not limited provided that San Bernardino Valley maintains a specified

minimum static water surface elevation in the three key wells in these basins. During the five-year period 2014 through 2018 the actual water surface elevation fell below specified minimum. Therefore, San Bernardino Valley may be obligated to provide replenishment water for maintenance of these basins. Watermaster and San Bernardino Valley are working cooperatively to devise a plan, including constructing necessary facilities and obtaining environmental permits to provide the replenishment and arrangements for Plaintiffs to transfer extractions from the Riverside Basin Area in San Bernardino County to the San Bernardino Area as contemplated in Judgment Paragraph VIII (e). This work will allow for San Bernardino Valley to provide the replenishment needed for calendar year 2018 well levels and be in place for future replenishment obligations, if necessary.

#### **Annual Accounting of Additional Extractions**

As noted previously in this Chapter, Judgment Paragraph VI(b)6 provides that agreements may be entered between Western and San Bernardino Valley under which additional extractions may be made from the San Bernardino Basin Area. Three types of such additional extraction agreements which are existing or may be entered in the future are as follows.

- Additional Extractions of High Groundwater (existing) –
   Additional extraction of native water from the San Bernardino
   Basin Area declared to be a temporary surplus and made
   available for extraction, without replenishment, as part of the
   high groundwater mitigation program.
- 2) Additional Extractions of Imported Water (existing) Additional extraction of water from the San Bernardino Basin Area by Western or any Plaintiff, after transfer, of imported water acquired by Western and recharged or extraction of prior year

- under extraction of Adjusted Rights in amounts not greater than the amount of right to extract imported water previously transferred from Western to Plaintiff minus any remaining balance of such amounts.
- Additional Extractions of New Conservation Water Additional extraction of Seven Oaks related new conservation water from the San Bernardino Basin Area resulting from either prior year new conservation (existing) or future hydrologic events that yield large amounts of water that exceed the capacity to deliver and recharge water at the Santa Ana River Spreading Grounds (future). Such agreements also provide for an accounting of mitigation water set aside in the San Bernardino Basin Area to be used to mitigate the adverse effects of Seven Oaks related new conservation in the Riverside Basin Area.

Additional extractions of high groundwater were made in twenty years of the twenty-four year period 1981 through 2004. The accounting for such extractions and exports is accomplished in Table Nos. 2, 3, 14 and 15A as previously discussed.

The accounting for additional extractions of imported water, new conservation water and Riverside Basin Mitigation Account water from the San Bernardino Basin Area is accomplished in Table Nos. 17A, 17B-1 through 17B-5, and 17C respectively. These tables generally use the same format to account for additional extractions as is used in Table No. 17 to account for extractions from the San Bernardino Basin Area by users within San Bernardino County.

The significant difference between Table No. 17 and Table Nos. 17A, 17B, and 17C is that Table No. 17 is used to determine the amount of

replenishment, if any, by San Bernardino Valley required to protect the rights of Plaintiffs against adverse effects of excess extractions from the San Bernardino Basin Area by other than Plaintiffs. Whereas, Table Nos. 17A, 17B and 17C are used to primarily determine, in any year, the remaining amount of any available additional extractions resulting from the replenishment of imported water or new conservation water made available pursuant to Judgment Paragraph VI(b)6 agreements or the remaining balance in the Riverside Basin Mitigation Account.

#### Table No. 17A, Imported Water

Additional extractions of imported water are available pursuant to Western's 2004 Paragraph VI(b)6 agreement. Western made an initial acquisition of 6,000 acre-feet of imported water in 2004. In 2007 Western transferred to City of Riverside the right to extract 2,459 acre-feet of imported water in order to address an excess extraction by Riverside. In 2009 Western acquired an additional 2,459 acre-feet of imported water from San Bernardino Valley. Therefore, beginning in 2013, the amount of Western Net Accumulated Credit is 6,000 acre-feet.

In addition to accounting for imported water acquisitions, extractions by Western and transfers of the right to extract imported water to Plaintiffs, Table No. 17A accounts for the sum of all Plaintiff holding account transfers that result from implementation of Paragraph 11 of the 2013 Judgment Paragraph VI(b)6 agreement. Paragraph 11 provides that additional extractions of water are available to Plaintiffs in amounts not greater than Plaintiff's unused water right (under extraction) in any year after 2012 provided such amounts, plus any remaining balance of similarly acquired additional water, may not exceed Plaintiffs aggregate amount of previously transferred right to extract imported water.

Table No. 17A shows Plaintiff Transfers to Holding Accounts in 2013 in the amount of 2,459 acre-feet. This amount is the sum of the amounts in lines titled Imported Water Transfer to Holding Account in Table Nos. 17B-1 through 17B-4. The amount shown is only the amount shown in Table No. 17B-1 for City of Riverside because in 2013 only Riverside had previously acquired imported water and therefore was the only Plaintiff party with the opportunity to transfer under extractions into an imported water holding account. Table No. 17A shows in the line titled Imported Water Additional Extractions that no Plaintiff was either capable of nor needed to withdraw water from holding accounts through additional extractions.

#### Table Nos. 17B-1 through 17B-5, New Conservation Water and Imported Water

Additional extractions of new conservation water resulting from new conservation in prior years are available to Plaintiffs and San Bernardino Valley pursuant to the 2013 Paragraph VI(b)6 agreement. The New Conservation Allocations shown on Table Nos. 17B-1 through 17B-5 are the amounts determined by Watermaster to have resulted from operation of Seven Oaks Reservoir during the prior years 1998 through 2012.

Any amounts of future new conservation determined by Watermaster to have resulted from the diversion of water conserved at Seven Oaks in addition to the amounts added to the Safe Yield Adjusted Rights in Table Nos. 2 (pages 1a & 1b) and 3A-1 through 3D-1 will likely be made available to Plaintiffs and San Bernardino Valley following the hydrologic event that caused such conservation and will also be included in the 17B tables as New Conservation Allocation. Extraction of any of the available New Conservation Allocation will be shown as Additional Extractions by other than Plaintiffs and Plaintiffs on Table Nos. 2 (pages 1a & 1b) and 3A-2 through 3D-2 respectively and on Table Nos. 17B-1 through 17B-5.

The amounts of additional extractions available for each Party are shown as New Conservation Net Accumulated (Credit) for 2018 on Table Nos. 17B-1 through 17B-5 and are equal to the amounts shown in the first data column of the table on page 28.

Paragraph 11 of the 2013 Judgment Paragraph VI(b)6 agreement (2013 Agreement) provides that any Plaintiff may transfer to Western an amount of water equal to its unused water right in the San Bernardino Basin Area provided the remaining balance of such transfers may not exceed Plaintiffs aggregate amount of previously transferred right to extract imported water. In addition to accounting for new conservation water, Table Nos. 17B-1 through 17B-4 also provide accounting for the imported water transfers and additional extractions resulting from implementation of Paragraph 11 as described above. Only the City of Riverside has previously received a transfer of right to extract from Western. Therefore, only Table No. 17B-1 shows transfers to a holding account in 2013.

Table No. 17B-1 shows the transfer of an under extraction by the City of Riverside to a holding account in the amount of 2,459 acre-feet in 2013. Such amount is equal to Western's previous transfer to Riverside of the right to extract 2,459 acre-feet needed to address an excess extraction by Riverside in 2007.

If in the future the City of Riverside over extracts water again, the 2,459 acre-feet in the holding account can be used to partially or entirely address the excess extraction. The amount of the transfer out of the holding account will be accounted for as an Imported Water Additional Extraction and will equal the amount of the excess extraction provided the excess extraction is not greater than the amount in the holding account. If the excess extraction is greater than the amount in the holding account, Riverside will likely acquire an additional right to extract from Western and Table No. 17B-1 will show the additional amount as an Imported Water Transfer From Western. Table No. 17B-1 will then show the

Imported Water Additional Extractions as the sum of the Western transfer and the transfer from the holding account.

#### Table No. 17C, Riverside Basin Mitigation Account

As noted in Chapter III, page 30, the 2013 Agreement provides for extraction of new conservation water resulting from operation of Seven Oaks Reservoir and the Santa Ana River Spreading Grounds from 1998 through 2012. The 2013 Agreement also requires Watermaster to establish and maintain an accounting of Seven Oaks related water conserved in the San Bernardino Basin Area that; in the absence of the Reservoir, would have been recharged in the Riverside Basin. The account is referred to as the Riverside Basin Mitigation Account and the accounting is provided in Table No. 17C.

Additions to the account consist of equal annual amounts resulting from the long term forecast of Seven Oaks related conservation at the Santa Ana River Spreading Grounds and specific year annual amounts that periodically result from Seven Oaks related conservation by means other than recharge at the Santa Ana River Spreading Grounds.

Mitigation of the adverse impact in the Riverside Basin is accomplished by extraction of the conserved water that has been included in or added to the Mitigation Account in a manner that effectively increases recharge and storage in the Riverside Basin. One method of accomplishing such mitigation is for the City of Riverside to increase extractions in the San Bernardino Basin Area and reduce extractions in the Riverside Basin by a like amount. Any such increase in extractions is shown on Table No. 17C as Extractions by the City of Riverside. A second mitigation method consists of extractions by other than Plaintiffs and subsequent delivery and recharge of such extractions in the Riverside Basin Area. Any such extraction can also be shown on Table No. 17C as Extractions by Other Than Plaintiffs.

The last line in Table No. 17C shows the Mitigation Account Balance in any year. The balance is the difference between the amounts included in the account (additions) pursuant to the 2013 Agreement and the sum of extractions by City of Riverside and other than Plaintiffs.

#### **Summary of Compliance**

Table No. 18 addresses four basic questions regarding compliance with four general provisions of the Judgment. The first two provisions relate to the rights and obligations in the San Bernardino Basin Area. The last two provisions relate to obligations in the area between Bunker Hill Dike and the Riverside Narrows. The four general provisions are as follows.

- 1) The Judgment establishes water rights for Plaintiffs in the San Bernardino Basin Area and enjoins them from extracting from the Basin amounts greater than such right. So, the first question addressed in Table No. 18 is: "Did any Plaintiff's extractions from the San Bernardino Basin Area for delivery to any service area exceed the maximum allowable?" Table No. 18 indicates that Plaintiff extractions from the Basin for delivery to any service area are less than the maximum allowable in 2018 and for the five-year period 2014 through 2018.
- 2) The Judgment provides users other than Plaintiffs the ability to extract unlimited amounts from the San Bernardino Basin Area and the freedom to manage the basin as they choose provided San Bernardino Valley replenishes the basin to offset any accumulated obligations determined pursuant to provisions of the Judgment. So, the second question addressed in Table No. 18 is: "Is San Bernardino Valley required to replenish

- the San Bernardino Basin Area?" Table No. 18 indicates that such replenishment is not required and that the amount of San Bernardino Valley credit that can be used to offset future obligations is 339,800 acre-feet in 2018.
- Pursuant to the Orange County Judgment, San Bernardino Valley is obligated to deliver a specified amount of Base Flow in the Santa Ana River at Riverside Narrows. Extractions by users within Western between the Bunker Hill Dike and Riverside Narrows and other water management related activities within Western can adversely affect San Bernardino Valley's ability to meet its obligation at Riverside Narrows. The Judgment requires Western to replenish between the Bunker Hill Dike and Riverside Narrows in amounts necessary to offset any accumulated obligations determined pursuant to provisions of the Judgment, to ensure that San Bernardino Valley is not adversely affected by users within Western. So, the third question addressed in Table No. 18 is: "Is Western required to provide replenishment between the Bunker Hill Dike and Riverside Narrows?" Table No. 18 indicates that replenishment is not required and that the amount of Western credit that can be used to offset future obligations is 527,017 acre-feet in 2018.
- 4) Finally the Judgment provides San Bernardino Valley users in the Colton Basin Area and Riverside Basin Area in San Bernardino County the ability to extract unlimited amounts from those basins and the freedom to manage those basins and the San Bernardino Basin Area as they choose provided

San Bernardino Valley replenishes the area below the Bunker Hill Dike sufficiently to maintain a prescribed average water level in three specific wells. So, the fourth question is: "Does San Bernardino need to provide replenishment to maintain water levels downstream of the Bunker Hill Dike?" Table No. 18 indicates that such replenishment may be required and that for 2018 the average water level was 10.88 feet below the required minimum average level of 822.04 feet.

### Annual Report Modifications Table Nos. 10 through 18

Tables Nos. 10 through 18 are summary tables. As a result, the prior year data in all these tables is affected by the modifications discussed in Chapter III, Chapter VII and Chapter VIII. In addition to these data changes, the logic and layout of Table Nos. 10 through 18 have been changed to improve the readability, accuracy, and usefulness of the report. The following five subsections summarize the modifications to these tables.

### 1) Table Nos. 10 through 13

Table Nos. 10 through 13 are used to address the first basic compliance question on Table No 18. The question is: "Did Extractions by Plaintiffs from the San Bernardino Basin Area for delivery to any service area exceed the maximum allowable?" There are thirty-two maximum allowable extraction or delivery amounts. Sixteen of them represent the maximum allowable in any year. The other sixteen represent the maximum allowable in any five-year period. (Sixteen equals four Plaintiffs times the total extraction plus three delivery areas.)

The modifications to Table Nos. 10 through 13 are relatively minor and do not affect the conclusions made in prior Annual Reports regarding Plaintiff

compliance with provisions of the Judgment. However, the changes make the tables easier to read and understand.

As noted previously, any additional extractions made available pursuant to Judgment Paragraph VI(b)6 agreements need to be deducted from total extractions before determining compliance. Prior to 2013, the annual data in Tables Nos. 10 through 13 included such additional extractions and the five-year data excluded it. The amounts of extraction included and excluded were incorporated in numerous footnotes. The tables were very confusing and difficult to understand and use.

The data related to additional extractions has been deleted from the footnotes on Table Nos. 10 through 13. Footnotes are still necessary; but, only for the purpose of documenting the specific Paragraph VI(b)6 agreement that provides for exclusion of additional extractions from the determination of compliance.

The additional extractions are now included in columns on Table Nos. 3A-2 through 3D-2 in Chapter III. In these tables the additional extractions are subtracted from total extractions and the result is shown as extractions. These extraction amounts, excluding additional extractions, are used to generate compliance Table Nos. 10 through 13.

In the August 1, 2014 Annual Report, Paragraph 11 of the 2013 Judgment Paragraph VI(b)6 agreement was implemented. In order to account for the transfer of an under extraction in the amount of 2,459 acre-feet by the City of Riverside in 2013 to a holding account in Table Nos. 17B-1 and 17A as permitted under Paragraph 11, the amount of the transfer is shown as a negative additional extraction in Table No. 3A-2 (page 2 of 3). As a result the deliveries by the City of Riverside for use outside San Bernardino Valley shown in Table No. 10 (pages

1c and 2b of 2) are greater than the actual deliveries by the amount of the 2,459 acre-feet transfer to the holding account.

In 2014, Table Nos. 10A through 13A were added to show allowable Plaintiff extractions for the year in which each annual report is published. Reference the new section of this chapter on page 107 where 2019 allowable extractions are discussed.

### 2) Table Nos. 14, 15A and 15B

Table Nos. 14 and 15A are used to determine new export by Western and San Bernardino Valley respectively. The determination is made by first subtracting the annual 1959-63 average export from the current year actual export. That amount is referred to as Total New Export. Then, the additional extractions made available to Plaintiffs and San Bernardino Valley pursuant to the high groundwater mitigation Paragraph VI(b)6 agreements are subtracted from Total New Export. The resulting determination of New Export is used in determining credit or obligation for Western and San Bernardino Valley in Table Nos. 16 and 17.

Prior to 2013, the additional new export now shown in Table No. 14 was subtracted from export in Table No. 1A of Report of Watermaster, Volume 6 as described in Chapter VII. The additional new export now shown in Table No. 15A was previously subtracted from new export in Table No. 17 and documented using footnotes that included the specific amounts of such additional new export.

The deduction of additional new export related to high groundwater mitigation is now more clearly shown in Table Nos. 14 and 15A. Only additional new export associated with the high groundwater mitigation program is deducted in Table Nos. 14 and 15A.

Table No. 15B is used to determine new deliveries from the San Bernardino Basin Area by users in San Bernardino County to lands within the Colton and Riverside Basin Areas. The determination is made by first subtracting the annual 1959-63 average deliveries from the current year actual deliveries to determine Total New Deliveries. Then, pursuant to the high groundwater mitigation Paragraph VI(b)6 agreements, the allowable amounts of Additional New Deliveries are subtracted from Total New Deliveries to determine New Deliveries for ultimate use in determining credit or obligation for San Bernardino Valley in Table No. 17.

### 3) <u>Table Nos. 16 and 17</u>

Table Nos. 16 and 17 are used to address the second and third basic compliance questions. Table No. 16 addresses the question: "Is Western required to replenish the Colton and Riverside Basin Areas?" Table No. 17 addresses the same question regarding San Bernardino Valley's obligation to replenish the San Bernardino Basin Area.

Table Nos. 16 and 17 are very important and very complex. Each table is the culmination of an extensive series of calculations that are complex largely because of the necessity to track return flow from applied natural safe yield water, imported water and new conservation water.

Diagram No. 1, Organization of Annual Report on page 19 shows that the ultimate source of data for Table No. 16 is Report of Watermaster, Volumes 1A through 6. The data inputs are as follows.

 a) Extractions from the Colton and Riverside Basin Areas by users within Western.

- New export resulting from delivery of extractions from all basins
   by Western users to areas not tributary to Riverside Narrows.
- c) Replenishment of imported water.
- d) Storm flow conservation between Bunker Hill Dike and Riverside Narrows by works financed by Western entities.
- e) Increase in return flow to Riverside Narrows from direct delivery of imported water and imported water recharged in and extracted from the San Bernardino Basin Area by Western pursuant to Judgment Paragraph VI(b)6 agreements.
- f) Return from use of new conservation water extracted by Plaintiffs.
- g) Decrease in return flow resulting from conversion of land use from agriculture to urban in a specified area within Western.

Table No. 16 shows the amount of credit or obligation resulting from each of these input activities in terms of how each transfer of water associated with each activity affects storage in the groundwater basins between Bunker Hill Dike and Riverside Narrows and thereby partially affects Base Flow at the Riverside Narrows. A credit indicates a potential increase in storage or Base Flow and an obligation indicates a potential decline in storage or Base Flow. A net accumulated obligation indicates that Western may be required to replenish the basins with imported water, subject to certain specific Judgment provisions.

The ultimate source of data inputs for Table No. 17 is Report of Watermaster, Volumes 1 and 7. The data inputs are as follows.

 a) Extractions from the San Bernardino Basin Area by users other than Plaintiffs.

- b) New export resulting from delivery of extractions from the San Bernardino Basin Area by users from within San Bernardino County to areas not tributary to the Riverside Narrows.
- c) New deliveries resulting from deliveries of extractions from the San Bernardino Basin Area by users from within San Bernardino County to the Colton Basin Area within San Bernardino Valley and Riverside Basin Areas within San Bernardino County.
- d) Replenishment of imported water.
- e) Return flow resulting from direct delivery of imported water by users in the San Bernardino Valley.
- Return from use of new conservation water extracted by users within San Bernardino Valley.
- g) Deliveries of imported water and pumped groundwater to Bear Valley Mutual Water Company (BVMWC) by San Bernardino Valley in-lieu of historic diversions of Santa Ana River streamflow that is retained in Big Bear Lake for the benefit of the local community.

Table No. 17 shows the amounts of credit or obligation associated with each activity similar to that described for Table No. 16. A net accumulated obligation in Table No. 17 indicates a requirement for San Bernardino Valley to provide replenishment.

The modifications to Table Nos. 16 and 17 are numerous. Because the tables are the culmination of data from many other tables, most of the modifications in other parts of the report affect amounts shown in these tables. So, the credits, obligations and net accumulated credit data may be different for

years prior to 2013. These data are also different as a result in changes in the logic used to generate the tables.

During preparation of the calendar year 2011 Annual Report filed with the Court in August 2012, Watermaster became concerned about the logic used in Table Nos. 16 and 17. As a result these tables were incomplete and a commitment was made to resolve the concern. The modifications include a resolution of the concern referenced in the August 2012 report.

The logic issue stems from uncertainty regarding the definition of a credit or obligation in Table Nos. 16 and 17. A credit or obligation can be defined in two ways. First, an amount of credit or obligation may be defined as the amount of under extraction (actual extraction less than allowable) or excess extraction (actual extraction greater than allowable). Second, a credit or obligation may be equal to the amount by which storage in the basin changes (positively or negatively) as a result of activity represented by the line of data in the table.

After thorough analysis, it has been determined that prior to the 2013 modifications some of the activities in Table Nos. 16 and 17 were based on the first definition and others on the second. The calculations related to excess extractions and under extractions were made using the first definition. All other determinations were made on the basis of the second definition.

The difference between results using the two definitions can be significant where use of the extraction is in the overlying basin and there is return flow to the basin. For example, if there is excess pumping of 15,000 acre-feet, one-third of the excess extraction or 5,000 acre-feet may return to the basin resulting in a loss of storage of only 10,000 acre-feet. Conversely, if an under extraction of the same amount occurs, the basin storage only increases by 10,000 acre-feet because failure to pump the 15,000 acre-feet results in a loss of return flow of 5,000 acre-feet.

Watermaster recognized the need for a consistent definition and chose the second definition largely because determinations based on how water transfers affect storage in the San Bernardino Basin Area would enable comparisons between Watermaster calculation of change in groundwater storage based on average hydrology (safe yield) to calculations of actual change in storage based on change in water level resulting from real hydrology. Therefore, Table Nos. 16 and 17 have been modified to cause all determinations for all water transfers or activities to be equal to the amount by which storage in the basin or Base Flow at the Riverside Narrows is affected by the activity.

Extractions from the Colton and Riverside Basin Areas by users within San Bernardino Valley are not included in Table No. 16. Such extractions also potentially affect storage or Base Flow at the Riverside Narrows. Therefore, extractions by users within Western are not the only factor affecting storage and Base Flow and are only partially responsible for any change in storage or Base Flow at Riverside Narrows.

In addition to the logic changes necessary to be consistent in defining credits and obligations, several other modifications to Table Nos. 16 and 17 were made as follows.

### Table No. 16

a) Based on the Judgment provision that allows under extractions in one basin to offset excess extractions in another basin, the Base Rights and extractions for the Colton Basin Area, Riverside Basin Area within San Bernardino County and Riverside Basin Area within Riverside County have been consolidated into Total Base Right and Total Extractions. From 1992 through 2010, accounting for each basin was separate and, as a result, there was no mechanism within the tables to

- address excess extractions by using under extractions in an adjacent basin.
- b) New Export is subtracted from Total Extractions before determining if there are excess extractions or under extractions pursuant to the amended Judgment Paragraph VI(c)3. This prevents the "two-for-one" issue from recurring.
- c) The full amount of new export is shown as an obligation pursuant to Judgment Paragraph X.
- d) Return from Excess Extractions and Return from Under Extractions are included as credits and obligations in order to determine the partial effect of excess extractions and under extractions on Base Flow at the Riverside Narrows.
- e) New Export credits and obligations from Table No. 14 have been added to Table No. 16 so that the net accumulated credit includes all credits available to offset excess extractions. In Annual Reports prior to 2010 it was necessary to add the credits in Table No. 14 to the credits in Table No. 16 to determine total credits.
- f) A line has been added to enter amounts of replenishment of imported water. None has been replenished to date but could be in the future.
- g) A line has been added to enter amounts of storm flow conservation in the Colton and Riverside Basin Areas through facilities constructed and operated by Western entities.
- h) A line has been added to enter return from new conservation. Like imported water, the return flow from new conservation is not a component of the natural yield and therefore is available

for extraction. Adding the return component (36 percent) as a credit makes it available for use without replenishment.

### Table No. 17

- a) Modifications b, c, d, and h described above for Table No. 16 were also made in Table No. 17.
- b) Table No. 17 also has additional modifications to account for new deliveries of extractions from San Bernardino Basin Area to the Colton and Riverside Basin Areas.
- c) In 2015, a new line entitled, "In-Lieu Deliveries Obligation," was added under the "OBLIGATIONS" heading. This line shows inlieu deliveries of imported water and groundwater by San Bernardino Valley pursuant to a 1996 agreement with Big Bear Municipal Water District. Under such agreement, San Bernardino Valley is obligated to deliver imported water and/or pumped groundwater to Bear Valley Mutual Water Company (BVMWC). The obligation is the amount necessary to meet BVMWC water requirements that would have been met by stream diversions if water had not been retained in Big Bear Lake to benefit the local mountain community.

### 4) Table Nos. 17B-1 through 17B-5 and 17C

In 2013 Table Nos. 17B-1 through 17B-5 were added to the Annual Report to account for the new conservation water resulting from operation of Seven Oaks Reservoir and related diversion and spreading facilities.

The tables show the amounts of new conservation allocated for use by each Plaintiff and entities in San Bernardino County other than Plaintiffs, the amounts extracted and the remaining balance in the account described as (Credit).

In the April 1, 2014 Annual Report Table No. 17C was added to account for water in the Riverside Basin Mitigation Account. The table shows additions to the account in the form of annual average amounts resulting from long term forecasts of new conservation and specific year amounts resulting from single year events that result in new conservation not accounted for in the long term forecast of annual average amounts. The table also shows extractions and the resulting account balance in any year commencing in 2013.

In the August 1, 2014 Annual Report, Table Nos. 17A and 17B-1 through 17B-4 were modified to provide a mechanism to account for transfer of imported water from Plaintiff to Western pursuant to Paragraph 11 of the Judgment Paragraph VI(b)6 agreement. Reference pages 114-116 for a description of the modified tables.

### Table No. 18

The original intent of Table No. 18 in the Annual Report for calendar year 1976 was to accomplish the following.

- a) To show whether or not Plaintiffs had exceeded their rights to extract from the San Bernardino Basin Area.
- b) To show the amount of replenishment required by Western and/or San Bernardino Valley.

Since a Court of Appeals found the entire watershed to be in overdraft prior to filing of complaints that led to the settlement in 1969, the expectation at the time was that replenishment water would be required routinely. That has not proven to be the case. In fact, neither district has ever been required to provide replenishment. Plaintiffs have also incurred very few violations. Out of a

potential for over 1,500 possible violations (47 years times 32 potential violations per year) very few have occurred.

In the years following 1976, Table No. 18 evolved into a much more detailed statement of credits and obligations for individual basins. Recently the table did not reflect the ability for under extractions to offset excess extractions by users within Western in the Colton and Riverside Basin Areas. The table implied that there could be a need for replenishment where none is required. Hence, during preparation of the Annual Report for calendar year 2012, Watermaster concluded that Table No. 18 was no longer an effective means of summarizing compliance with the general provisions of the Judgment as it was in 1976.

After considerable experimentation and review of alternative Table No. 18 designs, Watermaster selected a new design that is very consistent with the original intent in 1976. The resulting modified Table No. 18 is designed to directly address, and only address, in a concise, accurate, and easy to understand manner, the four basic questions regarding compliance with four general provisions of the Judgment. The modified Table No. 18, showing the responses to the four basic questions for the Calendar Year 2018 Annual Report, is described in the Summary of Compliance on page 118.

ANNUAL ACCOUNTING OF EXTRACTIONS BY THE CITY OF RIVERSIDE FROM THE SAN BERNARDINO BASIN AREA TABLE NO. 10

FOR DELIVERY TO EACH SERVICE AREA

(Including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)
ANNUAL TOTALS
(All Values in Acre-Feet)

				Deliveries 3	53,115	45,062	42,354	42,603	47,464	50,851	50,653	44,437	51,962	50,373	50,285	49,437	45,653	49,533	49,542	49,542	49,542	49,496	50,756	47,614
		_		Deli	23	45,	42,	42	47	20	20	4	51	20	20	49	45,	49	49	49	49	49	20	47
	e in Areas	ernardino Valley	Maximum	Allowable 2	65,944	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405	64,405
	Delivery for Use in Areas	Outside San Bernardino Valley	Adjusted	Right 1	50,726	49,542	49,542	49,542	49,542	49,542	49,542	49,542	49,542	49,542	49,542	49,542	49,542	49,542	49,542	49,542	49,542	49,542	49,542	49,542
Area and				Deliveries 3	699	547	512	764	498	523	346	301	415	0	0	0	0	0	0	0	0	0	0	0
eet) Delivery for Use in Colton Basin Area and	Area in	County	Maximum	Allowable 2	1,638	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599
eet) Deliverv for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4	1,260	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230
(All values III Acre-reet) Deliv				Deliveries 3	86	82	156	0	0	0	0	646	0	383	724	162	335	41	29	437	334	815	28	23
(All Val	. <u>E</u>	Basin Area	Maximum	Allowable 2	1,901	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855	1,855
	Delivery for Use in	San Bernardino Basin Area	Adjusted	Right 4	1,462	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427	1,427
				Extractions 3	53,882	45,694	43,022	43,367	47,962	51,374	666'09	45,384	52,377	50,756	51,009	49,599	45,988	49,574	49,601	49,979	49,876	50,311	50,784	47,637
	ons from the	Basin Area	Maximum	Allowable 2	69,482	62,859	62,859	62,859	62,859	62,859	67,859	62,859	62,859	62,859	62,859	62,859	62,859	62,859	62,859	62,859	67,859	62,859	62,859	62,829
	Verified Extractions from the	San Bernardino Basin Area	Adjusted	Right 1	53,448	52,199	52,199	52,199	52,199	52,199	52,199	52,199	52,199	52,199	52,199	52,199	52,199	52,199	52,199	52,199	52,199	52,199	52,199	52,199
			Calendar	Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990

ANNUAL ACCOUNTING OF EXTRACTIONS BY THE CITY OF RIVERSIDE FROM THE SAN BERNARDINO BASIN AREA TABLE NO. 10

FOR DELIVERY TO EACH SERVICE AREA

(Including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)
ANNUAL TOTALS
(All Values in Acre-Feet)

							Delivery for Use	Delivery for Use in Colton Basin Area and	Area and			
	Verified Extractions from the	ions from the		Delivery for Use in	i e		Riverside Basin Area in	Area in		Delivery for Use in Areas	e in Areas	
	San Bernardino Basin Area	Basin Area		San Bernardino Basin Area	Basin Area		San Bernardino County	County		Outside San Be	Outside San Bernardino Valley	
Salendar	Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum	
Year	Right 1	Allowable 2	Extractions 3	Right 4	Allowable 2	Deliveries 3	Right 4	Allowable 2	Deliveries 3	Right 1	Allowable 2	Deliveries 3
1991	52,199	62,859	49,697	1,427	1,855	161	1,230	1,599	0	49,542	64,405	49,536
1992	52,199	62,859	43,062	1,427	1,855	203	1,230	1,599	0	49,542	64,405	42,859
1993	52,199	62,859	44,854	1,427	1,855	-108	1,230	1,599	0	49,542	64,405	42,197
1994	52,199	62,859	51,340	1,427	1,855	46	1,230	1,599	0	49,542	64,405	49,542
1995	52,199	62,859	49,593	1,427	1,855	66	1,230	1,599	0	49,542	64,405	46,936
1996	52,199	62,859	54,992	1,427	1,855	278	1,230	1,599	0	49,542	64,405	52,335
1997	52,199	62,859	52,443	1,427	1,855	494	1,230	1,599	0	49,542	64,405	49,786
1998	52,199	62,859	47,746	1,427	1,855	0	1,230	1,599	0	49,542	64,405	47,746
1999	52,199	62,859	52,199	1,427	1,855	181	1,230	1,599	0	49,542	64,405	49,542
2000	52,199	62,859	52,199	1,427	1,855	117	1,230	1,599	0	49,542	64,405	49,542
2001	52,199	62,859	52,199	1,427	1,855	229	1,230	1,599	0	49,542	64,405	49,542
2002	52,199	62,859	52,199	1,427	1,855	172	1,230	1,599	0	49,542	64,405	49,542
2003	52,199	62,859	54,514	1,427	1,855	10	1,230	1,599	0	49,542	64,405	54,504
2004	52,199	62,859	52,199	1,427	1,855	0	1,230	1,599	0	49,542	64,405	49,542
2005	52,199	62,859	44,696	1,427	1,855	13	1,230	1,599	0	49,542	64,405	44,683
2006	52,199	62,829	49,444	1,427	1,855	30	1,230	1,599	0	49,542	64,405	49,414
2007	52,199	62,859	49,559	1,427	1,855	36	1,230	1,599	0	49,542	64,405	49,520
2008	52,199	62,859	53,581	1,427	1,855	70	1,230	1,599	0	49,542	64,405	53,511
2009	52,199	62,859	43,061	1,427	1,855	121	1,230	1,599	0	49,542	64,405	42,940
2010	52,199	62,859	45,713	1,427	1,855	80	1,230	1,599	0	49,542	64,405	45,633

ANNUAL ACCOUNTING OF EXTRACTIONS BY THE CITY OF RIVERSIDE FROM THE SAN BERNARDINO BASIN AREA TABLE NO. 10

Riverside Water Company and the Gage Canal Company)
ANNUAL TOTALS (Including those rights acquired as successor to the FOR DELIVERY TO EACH SERVICE AREA

(All Values in Acre-Feet)

				Deliveries 3	46,416	52,493	52,606	49,415	49,751	46,248	50,083	49,866		
	in Areas	nardino Valley	Maximum						66,639		66,639	66,639	66,639	66,639
	Delivery for Use in Areas	Outside San Bernardino Valley		7						51,261	51,261	51,261	51,261	51,261
Area and				Deliveries 3	0	0	0	0	0	0	0	0		
Delivery for Use in Colton Basin Area and	א Area in	o County	Maximum	Allowable 2	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599	1,599
Delivery for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230
				Deliveries 3	72	13	7	4	286	384	373	22		
•	e in	o Basin Area	Maximum	٥.							1,855	1,855	1,855	1,855
	Delivery for Use in	San Bernardino	Adjusted	Right 4	1,427	1,427	1,427	1,427	1,427	1,427 1,855	1,427	1,427	1,427	1,427
										46,632				
	tions from the	o Basin Area	Maximum	Allowable 2	67,859	67,859	70,093	70,093	70,093	53,918 70,093	70,093	70,093	70,093	70,093
	Verified Extract	San Bernardino	Adjusted	Right 1	52,199	52,199	53,918	53,918	53,918	53,918	53,918	53,918	53,918	53,918
			Calendar	Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020

See Report of Watermaster, Tables 3A-1 and 3A-2.

1 Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation.

2 Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.

3 Extractions and Deliveries from Table No. 3A-2.

4 New Conservation Allocation may also be used in the San Bernardino Basin Area, or the Colton Basin Area and Riverside Basin Area in San Bernardino County.

Note: Annual Accounting of Extractions as required in Paragraphs V and VI of the Judgment.

TABLE NO. 10 ANNUAL ACCOUNTING OF EXTRACTIONS BY THE CITY OF RIVERSIDE FROM THE SAN BERNARDINO BASIN AREA

FOR DELIVERY TO EACH SERVICE AREA

(Including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)
FIVE-YEAR TOTALS
(All Values in Acre-Feet)
Delivery for Use in Colton Basin Area and

				Deliveries 3	230,598	228,334	233,925	236,008	245,367	248,276	247,710	246,494	247,710	245,281	244,450	243,707	243,812	247,655	248,878	246,950	246,944	240,261	232 962	100,001
	Areas	rdino Valley	Maximum	Allowable 2	1				247,710		247,710	247,710	247,710	247,710	247,710					247,710	247,710	247,710	247 710	2
:	Jelivery for Use in Areas	Outside San Bernardino Valley	Adjusted	-						247,710									247,710			247,710		
Area and	_ `			ς,					2,083			716			0	0	0	0	0	0	0	0	_	>
Delivery for Use in Colton Basin Area and	Area in	County	Maximum	Allowable 2	6,180	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6 150	20.00
Delivery for Use	Kiverside Basın Area ın	San Bernardino County	Adjusted	Right 4	6,180	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6 150	0, 0
				Deliveries 3	339	241	156	646	646	1,029	1,753	1,915	1,604	1,645	1,321	1,034	1,206	1,686	1,673	1,637	1,361	1,230	307	200
_	⊑ :	Basin Area	Maximum	Allowable 2	7,170	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7 125	3
:	Delivery for Use in	San Bernardino Basin Area	Adjusted	Right 4	7,170	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7 135	3
				Extractions 3	233,927	231,419	236,724	239,086	248,096	250,890	250,525	249,125	249,729	246,926	245,771	244,741	245,018	249,341	250,551	248,587	248,305	241,491	736 037	t00,004
3	ns from the	asin Area	Maximum	Allowable 2	262,244	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260 005	200,007
: L :	Verified Extractions from the	San Bernardino Basin Area	Adjusted	Right 1	262,244	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260 005	200,007
•			Five-Year	Period					1975-79					1980-84	1981-85	1982-86	1983-87	1984-88	1985-89	1986-90				

TABLE NO. 10
ANNUAL ACCOUNTING OF EXTRACTIONS BY THE CITY OF RIVERSIDE FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

(Including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company) FIVE-YEAR TOTALS (All Values in Acre-Feet)

				Deliveries 3	231,070	233,869	240,796	246,345	246,345	248,951	246,158	245,914	252,672	252,672	247,813	247,685	247,663	246,670	240,068	241,018	238,020	240,993	240,088	246,563
	ı Areas	ardino Valley	Maximum	Allowable 2	247,710				247,710					247,710					247,710			247,710		
	Delivery for Use in Areas	Outside San Bernardino Valley	Adjusted	Right 1	247,710	247,710	247,710	247,710	247,710	247,710	247,710	247,710	247,710	247,710	247,710	247,710	247,710	247,710	247,710	247,710	247,710	247,710	249,429	251,148
Area and				Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivery for Use in Colton Basin Area and	ı Area in	County	Maximum	Allowable 2	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150
Delivery for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150	6,150
				Deliveries 3	401	518	808	917	1,052	1,070	1,021	669	500	528	424	225	92	152	273	340	382	356	297	194
	.E.	nardino Basin Area	Maximum	Allowable 2	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135
	Delivery for Use in	San Bernardino	Adjusted	Right 4	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135	7,135
				Extractions 3	238,546	243,841	253,222	256,114	256,973	259,579	256,786	256,542	263,310	263,310	255,807	253,052	250,412	249,479	240,341	241,358	238,402	241,349	240,385	246,757
	ns from the	asin Area	Maximum	Allowable 2	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	262,714	264,433
	Verified Extractions from the	San Bernardino Basin Area	Adjusted	Right 1	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	260,995	262,714	264,433
		,	Five-Year	Period					1995-99	1996-00	1997-01	1998-02	1999-03	2000-04	2001-05	2002-06	2003-07	2004-08	2005-09	2006-10	2007-11	2008-12	2009-13	2010-14

TABLE NO. 10 ANNUAL ACCOUNTING OF EXTRACTIONS BY THE CITY OF RIVERSIDE FROM THE SAN BERNARDINO BASIN AREA

FOR DELIVERY TO EACH SERVICE AREA

(Including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company) FIVE-YEAR TOTALS

					(All Val	All Values in Acre-Feet) اکانانور	Feet)	منوره موامي منام				
							Delivery for US	Delivery for Use in Colton Basin Area and	Area and			
	Verified Extractions from the	ions from the		Delivery for Use in	e in		Riverside Basin Area in	n Area in		Delivery for Use in Areas	in Areas	
	San Bernardino Basin Area	Basin Area		San Bernardinc	nardino Basin Area		San Bernardino County	o County		Outside San Ber	outside San Bernardino Valley	
Five-Year		Maximum		Adjusted	Maximum			Maximum		Adjusted	Maximum	
Period	-	Allowable 2		Right 4	Allowable 2	Deliveries 3		4 Allowable 2	Deliveries 3	Right 1	Allowable 2	Deliveries 3
2011-15		266,152	251,081	7,135	7,135			6,150	0	252,867	252,867	250,681
2012-16		267,871		7,135	7,135			6,150	0	254,586	254,586	250,513
2013-17		269,590		7,135	7,135	1,072		6,150	0	256,305	256,305	248,103
2014-18		269,590		7,135	7,135	_		6,150	0	256,305	256,305	245,363
2015-19	269,590	269,590		7,135	7,135			6,150		256,305	256,305	
2016-20	269,590	269,590		7,135	7,135		6,150	6,150		256,305	256,305	
Excess												
2014-18		(23,144) *			(6,052) *			(6,150) *			(10,942) *	
1												

<sup>\*</sup> Parentheses indicate that Extractions and Deliveries are less than Adjusted Right.

1 Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation.

2 Maximum allowable for the five-year period is the same as the five-year-period Adjusted Right.

3 Extractions and Deliveries from Table No. 3A-2.

4 New Conservation Allocation may also be used in the San Bernardino Basin Area, or the Colton Basin Area and Riverside Basin Area in San Bernardino County.

ALLOWABLE EXTRACTIONS BY THE CITY OF RIVERSIDE FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA (Including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)

		Allowable Total Extractions from the San Bemardino Basin Area	Allowable Delivery for Use in San Bernardino Basin Area	Allowable Delivery for Use in Colton Basin Area and Riverside Basin Area in San Bernardino County	Allowable Delivery for Use in Areas Outside San Bernardino Valley
Allowable Extraction Based on Adjusted Right	-	64,262	1,855	1,599	60,808
Imported Water Available In Holding Account	7	2,459	See Footnote 5	See Footnote	5 2,459
New Conservation Water Available	ო	9,635	See Footnote	6 See Footnote	9,635
Total Allowable Extraction	4	76,356	1,855	1,599	72,902

ALLOWABLE EXTRACTIONS BY THE CITY OF RIVERSIDE FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA (Including those rights acquired as successor to the Riverside Water Company and the Gage Canal Company)

- The Allowable Delivery amounts are the adjusted right for the five year period ending with the subject year minus the sum of the Deliveries (Table 10, Page 1c of 2) for the previous four years or the Component of Total Allowable Extractions available through the adjusted right which is equal to the 1959-63 base period extractions minus an adjustment for safe yield and plus an adjustment to include new conservation water forecast to result from long term operation of Seven Oaks Reservoir and diversion of increased amounts for recharge at the Santa Ana River Spreading Grounds. Maximum Allowable annual delivery (1.3 times average annual allowable delivery) whichever is the lessor. Allowable Total Extractions is the sum of the allowable deliveries.
- Component of Total Allowable Extraction available if Western has previously transferred to the City of Riverside the right to extract imported water and the City of Riverside has under extracted water in an amount equal to or less than the sum of the rights to extract that were previously transferred. The amount available for extraction by the City of Riverside is accounted for in Table No. 17B-1, and is referred to as Imported Water Net Accumulated (Credit).
- San Bernardino Basin Area with Seven Oaks water in areas other than the Santa Ana River Spreading Grounds provided the capability to recharge at the Spreading Grounds has been fully utilized. allocation of new conservation water determined by Watermaster to have resulted from operation of Seven Oaks Reservoir from 1998 through 2012 and any future Judgment Paragraph VI (b) 6 agreement allocating new conservation water determined by Watermaster to have resulted from a future hydrologic event that resulted in direct use of Seven Oaks water or recharge of the Component of Total Allowable Extraction available as a result of Western, San Bernardino Valley and the Riverside Court approving a Judgment Paragraph VI (b) 6 agreement providing an The amount available for extraction by Riverside is accounted for in Table No. 17B-1, and is referred to as New Conservation Net Accumulated (Credit).
- The Total Allowable Extraction is the sum of the allowable components described in Footnotes 1, 2 and 3.
- County and therefore it is unlikely that Western will transfer a right to extract imported water for delivery in these areas. Therefore, it is unlikely that imported water resulting from under extractions will become available to the City of Riverside for delivery in these areas. However, if transfers of imported water and under extractions do occur, Watermaster will account for such occurrences 5 Watermaster anticipates that the City of Riverside will not have excess extractions for delivery in the San Bernardino Basin Area or in the Colton and Riverside Basin Areas in San Bernardino
- County and therefore the City of Riverside is unlikely to choose to use its allocation of new conservation water for deliveries in these areas. However, if excess extractions occur in these areas, the Watermaster anticipates that the City of Riverside will not have excess extractions for delivery in the San Bernardino Basin Area or in the Colton and Riverside Basin Areas in San Bernardino City of Riverside will likely choose to use its new conservation allocation to address the excess extraction and Watermaster will account for such use at that time.

TABLE NO. 11
ANNUAL ACCOUNTING OF EXTRACTIONS BY RIVERSIDE HIGHLAND WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA ANNUAL TOTALS

				Deliveries 3	1,627	2,303	1,768	2,909	2,713	2,469	1,763	299	1,587	1,617	1,456	1,019	843	2,088	1,334	2,616	1,690	2,546	2,713	1,779
	in Areas	rnardino Valley	Maximum	Allowable 2	2,457	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399
	Delivery for Use in Areas	Outside San Bernardino Valley	Adjusted	Right 1	1,890	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845
Area and				Deliveries 3	2,385	2,229	1,744	1,979	1,996	2,051	1,820	1,051	1,782	2,060	2,148	1,776	2,319	2,671	1,978	2,128	2,229	2,229	1,968	2,313
eet) Delivery for Use in Colton Basin Area and	Area in	County	Maximum	Allowable 2	3,262	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184
-eet) Delivery for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4	2,509	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449
(All Values in Acre-Feet) Deli			,	Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(All Val	. <b>⊑</b>	Basin Area	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivery for Use in	San Bernardino Basin Area	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Extractions 3	4,012	4,532	3,512	4,888	4,709	4,520	3,583	1,350	3,369	3,677	3,604	2,795	3,162	4,759	3,312	4,744	3,919	4,775	4,681	4,092
	ons from the	Basin Area	Maximum	Allowable 2	5,719	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582
	Verified Extractions from the	San Bernardino Basin Area	Adjusted	Right 1	4,399	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294
			Calendar	Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990

TABLE NO. 11
ANNUAL ACCOUNTING OF EXTRACTIONS BY RIVERSIDE HIGHLAND WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA ANNUAL TOTALS

				Deliveries 3	1,352	1,777	1,464	2,123	1,809	1,832	1,820	826	849	45	118	128	1,842	450	1,694	1,730	1,861	929	575	207
	e in Areas	Outside San Bernardino Valley	Maximum	Allowable 2	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399	2,399
	Delivery for Use in Areas	Outside San Be	Adjusted	Right 1	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845	1,845
Area and				Deliveries 3	1,669	2,275	1,777	2,201	2,146	2,756	2,656	1,961	2,082	2,811	2,547	2,271	2,036	1,304	441	1,198	1,772	2,054	1,073	629
eet) Delivery for Use in Colton Basin Area and	Area in	county County	Maximum	Allowable 2	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184
Feet) Delivery for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449
(All Values in Acre-Feet) Deliv				Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(All Va	. <u>u</u>	ardino Basin Area	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivery for Use in	San Bernardino	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Extractions 3	3,021	4,052	3,241	4,324	3,955	4,588	4,476	2,787	2,931	2,856	2,665	2,399	3,878	1,754	2,135	2,928	3,633	2,730	1,648	1,136
	ons from the	Basin Area	Maximum	Allowable 2	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582	5,582
	Verified Extractions from the	San Bernardino Basin Area	Adjusted	Right 1	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294	4,294
			Calendar	Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010

TABLE NO. 11
ANNUAL ACCOUNTING OF EXTRACTIONS BY RIVERSIDE HIGHLAND WATER COMPANY
FROM THE SAN BERNARDINO BASIN AREA
FOR DELIVERY TO EACH SERVICE AREA
ANNUAL TOTALS

			Ī		Deliveries 3	178	221	855	209	2,100	1,929	682	882		
		e in Areas	Jutside San Bernardino Valley	Maximum	Allowable 2	2,399	2,399	2,582	2,582	2,582	2,582	2,582	2,582	2,582	2,582
		Delivery for Use in Areas	Outside San Be	Adjusted	Right 1	1,845	1,845	1,986	1,986	1,986	1,986	1,986	1,986	1,986	1,986
	Area and		ĺ	Ī	Deliveries 3	1,477	1,914	2,018	1,469	1,300	1,111	1,221	1,759		
	Delivery for Use in Colton Basin Area and	Area in	County	Maximum	Allowable 2	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184
=eet)	Delivery for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449	2,449
(All Values in Acre-Feet)				Ī	Deliveries 3	0	0	0	0	0	0	0	0		
(All Val		.i.	Basin Area	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0
		Delivery for Use in	San Bernardino	Adjusted	Right 4	0 0	0	0	0	0	0	0	0	0	0
											3,040				
		ons from the	Basin Area	Maximum	Allowable 2	5,582	5,582	5,766	5,766	5,766	4,435 5,766	5,766	5,766	5,766	5,766
		Verified Extractions from the	San Bernardino	Adjusted	Right 1	4,294	4,294	4,435	4,435	4,435	4,435	4,435	4,435	4,435	4,435
											2016				

See Report of Watermaster, Tables 3B-1 and 3B-2.

1 Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation.

2 Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.

3 Extractions and Deliveries from Table No. 3B-2. (Volume 1A, Table 3)

4 New Conservation Allocation may also be used in the San Bernardino Basin Area, or the Colton Basin Area and Riverside Basin Area in San Bernardino County.

Note: Annual Accounting of Extractions as required in Paragraphs V and VI of the Judgment.

TABLE NO. 11
ANNUAL ACCOUNTING OF EXTRACTIONS BY RIVERSIDE HIGHLAND WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA FIVE-YEAR TOTALS

(All Values in Acre-Feet)

							Delivery for Use	Delivery for Use in Colton Basin Area and	Area and			
	Verified Extractions from the	ons from the		Delivery for Use	ii ¢		Riverside Basin Area in	Area in		Delivery for Use in Areas	in Areas	
	San Bernardino Basin Area	Basin Area		San Bernardino Basin Area	Basin Area		San Bernardino County	County		Outside San Bernardino Valley	rnardino Valley	
Five-Year	Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum	
Period	Right 1	Allowable 2	Extractions 3	Right 4	Allowable 2	Deliveries 3	Right 4	Allowable 2	Deliveries 3	Right 1	Allowable 2	Deliveries 3
1971-75	21,575	21,575	21,653	0	0	0	12,305	12,305	10,333	9,270	9,270	11,320
1972-76	21,470	21,470	22,161	0	0	0	12,245	12,245	666'6	9,225	9,225	12,162
1973-77	21,470	21,470	21,212	0	0	0	12,245	12,245	9,590	9,225	9,225	11,622
1974-78	21,470	21,470	19,050	0	0	0	12,245	12,245	8,897	9,225	9,225	10,153
1975-79	21,470	21,470	17,531	0	0	0	12,245	12,245	8,700	9,225	9,225	8,831
1976-80	21,470	21,470	16,499	0	0	0	12,245	12,245	8,764	9,225	9,225	7,735
1977-81	21,470	21,470	15,583	0	0	0	12,245	12,245	8,861	9,225	9,225	6,722
1978-82	21,470	21,470	14,795	0	0	0	12,245	12,245	8,817	9,225	9,225	5,978
1979-83	21,470	21,470	16,607	0	0	0	12,245	12,245	10,085	9,225	9,225	6,522
1980-84	21,470	21,470	17,997	0	0	0	12,245	12,245	10,974	9,225	9,225	7,023
1981-85	21,470	21,470	17,632	0	0	0	12,245	12,245	10,892	9,225	9,225	6,740
1982-86	21,470	21,470	18,772	0	0	0	12,245	12,245	10,872	9,225	9,225	2,900
1983-87	21,470	21,470	19,896	0	0	0	12,245	12,245	11,325	9,225	9,225	8,571
1984-88	21,470	21,470	21,509	0	0	0	12,245	12,245	11,235	9,225	9,225	10,274
1985-89	21,470	21,470	21,431	0	0	0	12,245	12,245	10,532	9,225	9,225	10,899
						0						
1986-90	21,470	21,470	22,211	0	0	0	12,245	12,245	10,867	9,225	9,225	11,344
1987-91	21,470	21,470	20,488	0	0	0	12,245	12,245	10,408	9,225	9,225	10,080
1988-92	21,470	21,470	20,621	0	0	0	12,245	12,245	10,454	9,225	9,225	10,167
1989-93	21,470	21,470	19,087	0	0	0	12,245	12,245	10,002	9,225	9,225	9,085
1990-94	21,470	21,470	18,730	0	0	0	12,245	12,245	10,235	9,225	9,225	8,495

TABLE NO. 11
ANNUAL ACCOUNTING OF EXTRACTIONS BY RIVERSIDE HIGHLAND WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA FIVE-YEAR TOTALS

(All Values in Acre-Feet)

				Deliveries 3	8,525	9,005	9,048	8,410	7,136	5,372	3,658	1,966	2,982	2,583	4,232	5,844	7,577	6,411	6,536	5,349	3,797	2,157	2,336	2,368
	in Areas	nardino Valley	Maximum	Allowable 2	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,366	9,507
	Delivery for Use in Areas	Outside San Bernardino Valley	Adjusted	Right 1	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,225	9,366	6,507
rea and				Deliveries 3	10,068	11,155	11,536	11,720	11,601	12,266	12,057	11,672	11,747	10,969	8,599	7,250	6,751	6,769	6,538	6,726	7,005	7,147	7,111	7,507
Delivery for Use in Colton Basin Area and	Area in	County	Maximum	Allowable 2	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245
Delivery for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245	12,245
				Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	. <b>⊑</b>	Basin Area	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivery for Use	San Bernardino Basin Area	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			•	Extractions 3	18,593	20,160	20,584	20,130	18,737	17,638	15,715	13,638	14,729	13,552	12,831	13,094	14,328	13,180	13,074	12,075	10,802	9,304	9,447	9,875
	ons from the	Basin Area	Maximum	Allowable 2	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,611	21,752
	Verified Extractions from the	San Bernardino Basin Area	Adjusted	Right 1	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,470	21,611	21,752
			Five-Year	Period	1991-95	1992-96	1993-97	1994-98	1995-99	1996-00	1997-01	1998-02	1999-03	2000-04	2001-05	2002-06	2003-07	2004-08	2005-09	2006-10	2007-11	2008-12	2009-13	2010-14

ANNUAL ACCOUNTING OF EXTRACTIONS BY RIVERSIDE HIGHLAND WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA TABLE NO. 11

FOR DELIVERY TO EACH SERVICE AREA FIVE-YEAR TOTALS

(All Values in Acre-Feet)

							Delivery for Us	Delivery for Use in Colton Basin Area and	Area and			
	Verified Extractions from the	ions from the		Delivery for Use in	. <u></u>		Riverside Basin Area in	n Area in		Delivery for Use in Areas	e in Areas	
	San Bernardino Basin Area	Basin Area		San Bernardino	Basin Area		San Bernardino County	o County		Outside San Be	Jutside San Bernardino Valley	
Five-Year	Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum	
Period	Right 1	Allowable 2		Right 4 Allowable	Allowable 2	Deliveries 3	-	Allowable 2	Deliveries 3	Right 1	Allowable 2	Deliveries 3
2011-15	21,893	21,893	12,139	0	0	0	12,245	12,245	8,178	9,648	9,648	3,961
2012-16	22,034	22,034		0	0	0		12,245	7,812	6,789	6,789	5,712
2013-17	22,175	22,175		0	0	0		12,245	7,119	9,930	9,930	6,173
2014-18	22,175	22,175		0	0	0		12,245	098'9	9,930	9,930	6,200
2015-19	22,175	22,175		0	0			12,245		9,930	9,930	
2016-20	22,175	22,175		0	0		12,245	12,245		9,930	9,930	
Excess Extractions												
2014-18		(9,115) *			*			(5,385) *			(3,730) *	

\* Parentheses indicate that Extractions and Deliveries are less than Adjusted Right.

1 Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation.

2 Maximum allowable for the five-year period is the same as the five-year-period Adjusted Right.

3 Extractions and Deliveries from Table No. 3B-2.

4 New Conservation Allocation may also be used in the San Bernardino Basin Area, or the Colton Basin Area and Riverside Basin Area in San Bernardino County.

TABLE NO. 11A
ALLOWABLE EXTRACTIONS BY RIVERSIDE HIGHLAND WATER COMPANY
FROM THE SAN BERNARDINO BASIN AREA
FOR DELIVERY TO EACH SERVICE AREA

		32	9	
Allowable Delivery for Use in Areas Outside San Bernardino Valley	2,582	0	793	3,375
	4	Б	<b>9</b> e.l	4
Allowable Delivery for Use in Colton Basin Area and Riverside Basin Area in San Bernardino County	3,184	See Footnote	See Footnote	3,184
I	0	о <b>С</b>	9 ol	0
Allowable Delivery for Use in San Bernardino Basin Area		See Footnote	See Footnote 6	
Allowable Total Extractions from the San Bernardino Basin Area	5,766	0	793	6,559
	-	8	က	4
	Allowable Extraction Based on Adjusted Right	Imported Water Available In Holding Account	New Conservation Water Available	Total Allowable Extraction

# TABLE NO. 11A ALLOWABLE EXTRACTIONS BY RIVERSIDE HIGHLAND WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA

- The Allowable Delivery amounts are the adjusted right for the five year period ending with the subject year minus the sum of the Deliveries (Table 11, Page 1c of 2) for the previous four years or the Component of Total Allowable Extractions available through the adjusted right which is equal to the 1959-63 base period extractions minus an adjustment for safe yield and plus an adjustment to include new conservation water forecast to result from long term operation of Seven Oaks Reservoir and diversion of increased amounts for recharge at the Santa Ana River Spreading Grounds. Maximum Allowable annual delivery (1.3 times average annual allowable delivery) whichever is the lessor. Allowable Total Extractions is the sum of the allowable deliveries.
  - Company has under extracted water in an amount equal to or less than the sum of the rights to extract that were previously transferred. The amount available for extraction by Riverside Highland Component of Total Allowable Extraction available if Western has previously transferred to Riverside Highland Water Company the right to extract imported water and Riverside Highland Water Water Company is accounted for in Table No. 17B-2, and is referred to as Imported Water Net Accumulated (Credit).
    - San Bernardino Basin Area with Seven Oaks water in areas other than the Santa Ana River Spreading Grounds provided the capability to recharge at the Spreading Grounds has been fully utilized. allocation of new conservation water determined by Watermaster to have resulted from operation of Seven Oaks Reservoir from 1998 through 2012 and any future Judgment Paragraph VI (b) 6 agreement allocating new conservation water determined by Watermaster to have resulted from a future hydrologic event that resulted in direct use of Seven Oaks water or recharge of the Component of Total Allowable Extraction available as a result of Western, San Bernardino Valley and the Riverside Court approving a Judgment Paragraph VI (b) 6 agreement providing an The amount available for extraction by Riverside Highland Water Company is accounted for in Table No. 17B-2, and is referred to as New Conservation Net Accumulated (Credit).
- The Total Allowable Extraction is the sum of the allowable components described in Footnotes 1, 2 and 3.
- San Bernardino Valley and therefore Western may transfer a right to extract imported water for delivery in either of these areas. Therefore, it is possible that imported water resulting from under Watermaster recognizes that Riverside Highland Water Company may have excess extractions for delivery in either the Colton Basin Area in San Bernardino County or for use in areas outside extractions may become available to Riverside Highland Water Company for delivery in either of these areas. If transfers of imported water and under extractions occur, Watermaster will account for such occurrences at that time
- San Bernardino Valley and therefore Riverside Highland Water Company may choose to use its allocation of new conservation water for deliveries in either of these areas. If excess extractions Watermaster recognizes that Riverside Highland Water Company may have excess extractions for delivery in either the Colton Basin Area in San Bernardino County or for use in areas outside occur in either of these areas and Riverside Highland Water Company chooses to use its new conservation allocation to address the excess extraction, Watermaster will account for such use in either area as requested by Riverside Highland Water Company at that time.

TABLE NO. 12
ANNUAL ACCOUNTING OF EXTRACTIONS BY AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY
FROM THE SAN BERNARDINO BASIN AREA
FOR DELIVERY TO EACH SERVICE AREA
ANNUAL TOTALS

				Deliveries 3	2,519	3,150	2,729	4,258	3,782	5,206	4,074	2,093	3,764	2,010	2,734	3,547	2,406	4,932	5,175	5,358	4,722	4,733	5,152	3,768
	in Areas	rnardino Valley	Maximum	Allowable 2	10,010	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770
	Delivery for Use in Areas	Outside San Bernardino Valley	Adjusted	Right 1	7,700	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515
Area and				Deliveries 3	383	377	250	246	168	187	146	161	166	323	358	169	245	234	209	212	192	233	240	83
eet) Delivery for Use in Colton Basin Area and	ו Area in	County	Maximum	Allowable 2	423	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413
Feet) Delivery for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4	325	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318
(All Values in Acre-Feet) Deliv			Ī	Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(All Va	ii.	Basin Area	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivery for Use in	San Bernardino Basin Area	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Ī	Extractions 3	2,902	3,527	2,979	4,504	3,950	5,393	4,220	2,254	3,930	2,333	3,092	3,716	2,651	5,166	5,384	5,570	4,914	4,966	5,392	3,851
	ons from the	Basin Area	Maximum	Allowable 2	10,434	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183
	Verified Extractions from the	San Bernardino Basin Area	Adjusted	Right 1	8,026	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833
			Calendar	Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990

TABLE NO. 12 ANNUAL ACCOUNTING OF EXTRACTIONS BY AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY

					Deliveries 3	4,236	3,982	4,737	4,298	3,415	3,718	4,028	3,618	6,199	3,480	3,479	5,598	7,391	3,763	5,887	7,515	7,591	4,832	6,345	6,738
Z Z Z		e in Areas	Outside San Bernardino Valley	Maximum	Allowable 2	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770	9,770
WAIER CON		Delivery for Use in Areas	Outside San Be	Adjusted	Right 1	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515	7,515
S & DALEY \	Area and				Deliveries 3	190	118	276	227	145	194	137	210	06	352	192	202	49	19	4	0	0	0	0	0
AND MEEK: EA	eet) Delivery for Use in Colton Basin Area and	Area in	County	Maximum	Allowable 2	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413
NS BY AGUA MANSA WATER COMPANY A ROM THE SAN BERNARDINO BASIN ARE, FOR DELIVERY TO EACH SERVICE AREA ANNUAL TOTALS	-eet) Delivery for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318
MANSA WATEK ( AN BERNARDINO FRY TO EACH SEF ANNUAL TOTALS	(All Values in Acre-Feet) Deliv				Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Y AGUA MA // THE SAN E ! DELIVERY ANN	(All Val	.⊑	Basin Area	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACTIONS B FRON FOR		Delivery for Use in	San Bernardino Basin Area	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANNUAL ACCOUNTING OF EXTRACTIONS BY AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA ANNUAL TOTALS					Extractions 3	4,426	4,100	5,013	4,525	3,560	3,912	4,165	3,828	6,289	3,832	3,671	5,800	7,440	3,782	5,891	7,515	7,591	4,832	6,345	6,738
- ACCOUNI		ions from the	Basin Area	Maximum	Allowable 2	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183	10,183
ANNO		Verified Extractions from the	San Bernardino Basin Area	Adjusted	Right 1	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833	7,833
				Calendar	Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010

TABLE NO. 12
ANNUAL ACCOUNTING OF EXTRACTIONS BY AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY
FROM THE SAN BERNARDINO BASIN AREA

FOR DELIVERY TO EACH SERVICE AREA ANNUAL TOTALS

(All Values in Acre-Feet)

							Delivery for Us	Delivery for Use in Colton Basin Area and	Area and			
	Verified Extrac	/erified Extractions from the		Delivery for Use in	i.		Riverside Basin Area in	Area in		Delivery for Use in Areas	e in Areas	
	San Bernardin	an Bernardino Basin Area		San Bernardino	Basin Area		San Bernardino County	o County		Outside San Be	Jutside San Bernardino Valley	
Calendar	Adjusted	Maximum		Adjusted Maximum	Maximum		Adjusted	Maximum		Adjusted	Maximum	
Year	Right 1	Allowable 2	Extractions 3	Right 4	Allowable 2	Deliveries 3	Right 4	Allowable 2	Deliveries 3	Right 1	Allowable 2	Deliveries 3
2011	7,833	10,183	7,127	0	0	0	318	413	0	7,515	9,770	7,127
2012	7,833	10,183	7,117	0	0	0	318	413	0	7,515	9,770	7,117
2013	8,091	10,518	7,732	0	0	0	318	413	0	7,773	10,105	7,732
2014	8,091	10,518	7,103	0	0	0	318	413	0	7,773	10,105	7,103
2015	8,091	10,518	7,351	0	0	0	318	413	0	7,773	10,105	7,351
2016	8,091	10,518	7,220	0	0	0	318	413	0	7,773	10,105	7,220
2017	8,091	10,518	7,218	0	0	0	318	413	0	7,773	10,105	7,218
2018	8,091	10,518	7,217	0	0	0	318	413	0	7,773	10,105	7,217
2019	8,091	10,518		0	0		318	413		7,773	10,105	
2020	8,091	10,518		0	0		318	413		7,773	10,105	

See Report of Watermaster, Tables 3C-1 and 3C-2.

1 Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation.

2 Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.

3 Extractions and Deliveries from Table No. 3C-2. (Volume 1A, Table 3)

4 New Conservation Allocation may also be used in the San Bernardino Basin Area, or the Colton Basin Area and Riverside Basin Area in San Bernardino County.

Note: Annual Accounting of Extractions as required in Paragraphs V and VI of the Judgment.

TABLE NO. 12
ANNUAL ACCOUNTING OF EXTRACTIONS BY AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY
FROM THE SAN BERNARDINO BASIN AREA
FOR DELIVERY TO EACH SERVICE AREA
FIVE-YEAR TOTALS

					(All Va	(All Values in Acre-Feet)	Feet)	eet) Delivery for Use in Colton Basin Area and	Area and			
	Verified Extractions from the	ions from the		Delivery for Use in	i e		Riverside Basin Area in	Area in	) ;	Delivery for Use in Areas	e in Areas	
	San Bernardino Basin Area	Basin Area		San Bernardino Basin Area	Basin Area		San Bernardino County	County		Outside San Be	Outside San Bernardino Valley	
Five-Year	Adjusted	Maximum	Ī	Adjusted	Maximum		Adjusted	Maximum	ì	Adjusted	Maximum	
Period	Right 1	Allowable 2	Extractions 3	Right 4	Allowable 2	Deliveries 3	Right 4	Allowable 2	Deliveries 3	Right 1	Allowable 2	Deliveries 3
1971-75	39,358	39,358	17,862	0	0	0	1,597	1,597	1,424	37,760	37,760	16,438
1972-76	39,165	39,165	20,353	0	0	0	1,590	1,590	1,228	37,575	37,575	19,125
1973-77	39,165	39,165	21,046	0	0	0	1,590	1,590	266	37,575	37,575	20,049
1974-78	39,165	39,165	20,321	0	0	0	1,590	1,590	806	37,575	37,575	19,413
1975-79	39,165	39,165	19,747	0	0	0	1,590	1,590	828	37,575	37,575	18,919
1976-80	30 165	30 165	18 130	C	C	C	1 590	1 590	083	37 575	37 575	17 147
1977-81	30,165	39,165	15,829	o c	o c	o	1 590	1 590	1 154	37.575	37,575	14.675
1070	20,165	20,165	10,020	o c	o c	o c	200, 1	000,	1,10	373.70	37.37.5	7,00
19/0-02	38,103	29, 105	13,323	>	>	>	080,1	066,1	1,11,1	0/0,/0	01,010	14, 140
1979-83	39,165	39,165	15,722	0	0	0	1,590	1,590	1,261	37,575	37,575	14,461
1980-84	39,165	39,165	16,958	0	0	0	1,590	1,590	1,329	37,575	37,575	15,629
1981-85	39,165	39,165	20,009	0	0	0	1,590	1,590	1,215	37,575	37,575	18,794
1982-86	39,165	39,165	22,487	0	0	0	1,590	1,590	1,069	37,575	37,575	21,418
1983-87	39,165	39,165	23,685	0	0	0	1,590	1,590	1,092	37,575	37,575	22,593
1984-88	39,165	39,165	26,000	0	0	0	1,590	1,590	1,080	37,575	37,575	24,920
1985-89	39,165	39,165	26,226	0	0	0	1,590	1,590	1,086	37,575	37,575	25,140
1986-90	39,165	39,165	24,693	0	0	0	1,590	1,590	096	37,575	37,575	23,733
1987-91	39,165	39,165	23,549	0	0	0	1,590	1,590	938	37,575	37,575	22,611
1988-92	39,165	39,165	22,735	0	0	0	1,590	1,590	864	37,575	37,575	21,871
1989-93	39,165	39,165	22,782	0	0	0	1,590	1,590	206	37,575	37,575	21,875
1990-94	39,165	39,165	21,915	0	0	0	1,590	1,590	894	37,575	37,575	21,021

TABLE NO. 12
ANNUAL ACCOUNTING OF EXTRACTIONS BY AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY
FROM THE SAN BERNARDINO BASIN AREA
FOR DELIVERY TO EACH SERVICE AREA
FIVE-YEAR TOTALS

(All Values in Acre-Feet)

Verifie	ed Extraction	Verified Extractions from the		Delivery for Use in	. <u>=</u>		Delivery for Use in Colton Riverside Basin Area in	Delivery for Use in Colton Basin Area and Riverside Basin Area in	Area and	Delivery for Use in Areas	in Areas	
San B	eu Exiracii 3ernardino	vernied Extractions Ironi ure San Bernardino Basin Area		San Bernardino Basin Area	Basin Area		San Bernardino County	County		Outside San Bernardino Valley	rin Areas rnardino Valley	
Adju	Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum	Ī
	Right 1	Allowable 2	Extractions 3	Right 4	Allowable 2	Deliveries 3	Right 4	Allowable 2	Deliveries 3	Right 1	Allowable 2	Deliveries 3
	165	39,165	21,624	0	0	0	1,590	1,590	926	37,575	37,575	20,668
	165	39,165	21,110	0	0	0	1,590	1,590	096	37,575	37,575	20,150
	165	39,165	21,175	0	0	0	1,590	1,590	626	37,575	37,575	20,196
	165	39,165	19,990	0	0	0	1,590	1,590	913	37,575	37,575	19,077
	39,165	39,165	21,754	0	0	0	1,590	1,590	276	37,575	37,575	20,978
	165	39,165	22,026	0	0	0	1,590	1,590	983	37,575	37,575	21,043
	165	39,165	21,785	0	0	0	1,590	1,590	981	37,575	37,575	20,804
	165	39,165	23,420	0	0	0	1,590	1,590	1,046	37,575	37,575	22,374
	165	39,165	27,032	0	0	0	1,590	1,590	885	37,575	37,575	26,147
	165	39,165	24,525	0	0	0	1,590	1,590	814	37,575	37,575	23,711
	165	39,165	26,584	0	0	0	1,590	1,590	466	37,575	37,575	26,118
	165	39,165	30,428	0	0	0	1,590	1,590	274	37,575	37,575	30,154
	165	39,165	32,219	0	0	0	1,590	1,590	72	37,575	37,575	32,147
	165	39,165	29,611	0	0	0	1,590	1,590	23	37,575	37,575	29,588
2005-09 39,1	39,165	39,165	32,174	0	0	0	1,590	1,590	4	37,575	37,575	32,170
	165	39,165	33,021	0	0	0	1,590	1,590	0	37,575	37,575	33,021
	165	39,165	32,633	0	0	0	1,590	1,590	0	37,575	37,575	32,633
	39,165	39,165	32,159	0	0	0	1,590	1,590	0	37,575	37,575	32,159
	423	39,423	35,059	0	0	0	1,590	1,590	0	37,833	37,833	35,059
	581	39,681	35,817	0	0	0	1,590	1,590	0	38,091	38,091	35,817

TABLE NO. 12
ANNUAL ACCOUNTING OF EXTRACTIONS BY AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY
FROM THE SAN BERNARDINO BASIN AREA

FOR DELIVERY TO EACH SERVICE AREA FIVE-YEAR TOTALS

(All Values in Acre-Feet)

							Delivery for Us	Delivery for Use in Colton Basin Area and	Area and			
	Verified Extractions from the	tions from the		Delivery for Use in	i e		Riverside Basin Area in	n Area in		Delivery for Use in Areas	e in Areas	
	San Bernardino Basin Area	o Basin Area		San Bernardinc	Basin Area		San Bernardino County	o County		Outside San Be	Utside San Bernardino Valley	
Five-Year	Adjusted	Maximum		Adjusted Maximum	Maximum		Adjusted	Maximum		Adjusted	Maximum	
Period	Right 1	Allowable 2		Right 4	Allowable 2	Deliveries 3	Right 4	Allowable 2	Deliveries 3	1	Allowable 2	Deliveries 3
2011-15	39,939	39,939	36,429	0	0	0	1,590	1,590	0	38,349	38,349	36,429
2012-16	40,197	40,197		0	0	0	1,590	1,590	0		38,607	36,523
2013-17	40,455	40,455		0	0	0	1,590	1,590	0		38,865	36,624
2014-18	40,455	40,455		0	0	0	1,590	1,590	0		38,865	36,109
2015-19	40,455	40,455		0	0		1,590	1,590			38,865	
2016-20	40,455	40,455		0	0		1,590	1,590		38,865	38,865	
Excess Extractions												
2014-18		(4,346) *			*			* (1,590)			(2,756) *	

رماط-۱۵ \* Parentheses indicate that Extractions and Deliveries are less than Adjusted Right.

<sup>1</sup> Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation.

<sup>2</sup> Maximum allowable for the five-year period is the same as the five-year-period Adjusted Right.

<sup>3</sup> Extractions and Deliveries from Table No. 3C-2.

<sup>4</sup> New Conservation Allocation may also be used in the San Bernardino Basin Area, or the Colton Basin Area and Riverside Basin Area in San Bernardino County.

TABLE NO. 12A
ALLOWABLE EXTRACTIONS BY AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY
FROM THE SAN BERNARDINO BASIN AREA
FOR DELIVERY TO EACH SERVICE AREA

Allowable Delivery for Use in Areas Outside San Bernardino Valley	9,973	0	1,448	11,421
Allowable Delivery for Use in Colton Basin Area and Riverside Basin Area in San Bernardino County	413	See Footnote 5	See Footnote 6	413
1	0	te 5	   e	0
Allowable Delivery for Use in San Bernardino Basin Area		See Footnote	See Footnote 6	
Allowable Total Extractions from the San Bernardino Basin Area	10,386	0	1,448	11,834
	1	7	æ	4
	Allowable Extraction Based on Adjusted Right	Imported Water Available In Holding Account	New Conservation Water Available	Total Allowable Extraction

## ALLOWABLE EXTRACTIONS BY AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA TABLE NO. 12A

- The Allowable Delivery amounts are the adjusted right for the five year period ending with the subject year minus the sum of the Deliveries (Table 12, Page 1c of 2) for the previous four years or the Component of Total Allowable Extractions available through the adjusted right which is equal to the 1959-63 base period extractions minus an adjustment for safe yield and plus an adjustment to include new conservation water forecast to result from long term operation of Seven Oaks Reservoir and diversion of increased amounts for recharge at the Santa Ana River Spreading Grounds. Maximum Allowable annual delivery (1.3 times average annual allowable delivery) whichever is the lessor. Allowable Total Extractions is the sum of the allowable deliveries.
- Component of Total Allowable Extraction available if Western has previously transferred to Agua Mansa Water Company and Meeks & Daley Water Company the right to extract imported water and Agua Mansa Water Company and Meeks & Daley Water Company has under extracted water in an amount equal to or less than the sum of the rights to extract that were previously transferred. The amount available for extraction by Agua Mansa Water Company and Meeks & Daley Water Company is accounted for in Table No. 1718-3, and is referred to as Imported Water Net Accumulated (Credit).
- The amount available for extraction by Agua Mansa Water Company and Meeks & Daley Water Company is accounted for in Table No. 17B-3, and is referred to as New Conservation Net Accumulated (Credit). San Bernardino Basin Area with Seven Oaks water in areas other than the Santa Ana River Spreading Grounds provided the capability to recharge at the Spreading Grounds has been fully utilized. allocation of new conservation water determined by Watermaster to have resulted from operation of Seven Oaks Reservoir from 1998 through 2012 and any future Judgment Paragraph VI (b) 6 agreement allocating new conservation water determined by Watermaster to have resulted from a future hydrologic event that resulted in direct use of Seven Oaks water or recharge of the Component of Total Allowable Extraction available as a result of Western, San Bernardino Valley and the Riverside Court approving a Judgment Paragraph VI (b) 6 agreement providing an
- 4 The Total Allowable Extraction is the sum of the allowable components described in Footnotes 1, 2 and 3.
- Basin Areas in San Bernardino County and therefore it is unlikely that Western will transfer a right to extract imported water for delivery in these areas. Therefore, it is unlikely that imported water resulting from under extractions will become available to Agua Mansa Water Company and Meeks & Daley Water Company for delivery in these areas. However, if transfers of imported water and under extractions do occur, Watermaster anticipates that Agua Mansa Water Company and Meeks & Daley Water Company will not have excess extractions for delivery in the San Bernardino Basin Area or in the Colton and Riverside Watermaster will account for such occurrences at that time.
- Watermaster anticipates that Agua Mansa Water Company and Meeks & Daley Water Company will not have excess extractions for delivery in the San Bernardino Basin Area or in the Colton and Riverside Basin Areas in San Bernardino County and therefore Agua Mansa Water Company and Meeks & Daley Water Company is unlikely to choose to use its allocation of new conservation water for deliveries in these areas. However, if excess extractions occur in these areas, Agua Mansa Water Company and Meeks & Daley Water Company will likely choose to use its new conservation allocation to address the excess extraction and Watermaster will account for such use at that time.

TABLE NO. 13 ANNUAL ACCOUNTING OF EXTRACTIONS BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA FROM THE SAN BERNARDINO BASIN AREA

				Deliveries 3	219	239	239	267	179	245	87	183	83	7	143	48	0	0	0	48	195	179	62	92
		η Areas lardino Vallev	Maximum	7	755	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269
		Delivery for Use in Areas Outside San Bernardino Vallev	Adiusted	Right 1	581	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536
	rea and			Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
•	əet) Delivery for Use in Colton Basin Area and	Area in County	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
ANNUAL TOTALS	eet) Delivery for Use	Riverside Basin Area in San Bernardino County	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
ANNUAL TOTALS	(All Values in Acre-Feet) Deli			Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
ANA		n 3asin Area	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
<u>.</u> )		Delivery for Use in San Bernardino Basin Area	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
				Extractions 3	219	239	239	267	179	245	87	183	83	7	143	48	0	0	0	48	195	179	62	95
		ns from the asin Area	Maximum	Allowable 2	755	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269
		Verified Extractions from the San Bernardino Basin Area	Adjusted	Right 1	581	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536
			alendar	Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990

TABLE NO. 13
ANNUAL ACCOUNTING OF EXTRACTIONS BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
FROM THE SAN BERNARDINO BASIN AREA
FOR DELIVERY TO EACH SERVICE AREA
ANNUAL TOTALS

				Deliveries 3	23	32	536	593	288	445	447	536	536	536	536	536	536	536	536	536	536	536	536	536
	e in Areas	Outside San Bernardino Valley	Maximum	Allowable 2	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269
	Delivery for Use in Areas	Outside San Be	Adjusted	Right 1	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536
Area and		Ī		Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
eet) Delivery for Use in Colton Basin Area and	Area in	County	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
eet) Delivery for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(All Values in Acre-Feet) Deli				Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	. <b>⊑</b>	Basin Area	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivery for Use in	San Bernardino Basin Area	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			·	Extractions 3	23	32	536	593	288	445	447	536	536	536	536	536	536	536	536	536	536	536	536	536
	ons from the	Basin Area	Maximum	Allowable 2	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269
	Verified Extractions from the	San Bernardino Basin Area	Adjusted	Right 1	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536	536
			Calendar	Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2002	2006	2007	2008	2009	2010

TABLE NO. 13
ANNUAL ACCOUNTING OF EXTRACTIONS BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
FROM THE SAN BERNARDINO BASIN AREA
FOR DELIVERY TO EACH SERVICE AREA

**ANNUAL TOTALS** 

					Deliveries 3	536	536	536	536	554	554	554	554		
		in Areas	Jutside San Bernardino Valley	Maximum	Allowable 2	269	269	720	720	720	720	720	720	720	720
		Delivery for Use in Areas	Outside San Be	Adjusted	Right 1	536	536	554	554	554	554	554	554	554	554
	Area and				Deliveries 3		0	0	0	0	0	0	0		
	Delivery for Use in Colton Basin Area and	Area in	County	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0
eet)	Delivery for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4		0	0	0	0	0	0	0	0	0
(All Values in Acre-Feet					Deliveries 3	0	0	0	0	0	0	0	0		
(All Val		Ŀ.	Basin Area	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0
		Delivery for Use in	San Bernardino	Adjusted	Right 4 Allowable 2	0	0	0	0	0	0	0	0	0	0
				Ţ	Extractions 3	536	536	536	536	554	554	554	554		
		ons from the	Basin Area	Maximum	Allowable 2	269	269	720	720	720	554 720	720	720	720	720
		Verified Extractions from the	San Bernardino	Adjusted	Right 1	536	536	554	554	554	554	554	554	554	554
											2016				

See Report of Watermaster, Tables 3D-1 and 3D-2.

1 Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation.

2 Maximum Allowable for any one year, not to exceed 130% of Adjusted Right.

3 Extractions and Deliveries from Table No. 3D-2. (Volume 1A, Table 3)

4 New Conservation Allocation may also be used in the San Bernardino Basin Area, or the Colton Basin Area and Riverside Basin Area in San Bernardino County.

Note: Annual Accounting of Extractions as required in Paragraphs V and VI of the Judgment.

TABLE NO. 13
ANNUAL ACCOUNTING OF EXTRACTIONS BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
FROM THE SAN BERNARDINO BASIN AREA
FOR DELIVERY TO EACH SERVICE AREA

IALS		
E-YEAR IO		
FIVE-YE		

		Í	Ť	Deliveries 3	1,143	1,169	1,017	961	777	605	503	464	281	198	191	96	243	422	484	629	554	391	748	1,279
	in Areas	Outside San Bernardino Valley	Maximum	Allowable 2	2,725	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680
	Delivery for Use in Areas	Outside San Be	Adjusted	Right 1	2,725	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680
Area and			Ī	Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
eet) Delivery for Use in Colton Basin Area and	Area in	County	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
eet) Delivery for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(All Values in Acre-Feet) Deli				Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(All Val	. <b>⊑</b>	Basin Area	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivery for Use in	San Bernardino Basin Area	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Extractions 3	1,143	1,169	1,017	961	777	909	503	464	281	198	191	96	243	422	484	629	554	391	748	1,279
	ons from the	Basin Area	Maximum	Allowable 2	2,725	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680
	Verified Extractions from the	San Bernardino Basin Area	Adjusted	Right 1	2,725	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680
			Five-Year	Period	1971-75	1972-76	1973-77	1974-78	1975-79	1976-80	1977-81	1978-82	1979-83	1980-84	1981-85	1982-86	1983-87	1984-88	1985-89	1986-90	1987-91	1988-92	1989-93	1990-94

TABLE NO. 13
ANNUAL ACCOUNTING OF EXTRACTIONS BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
FROM THE SAN BERNARDINO BASIN AREA
FOR DELIVERY TO EACH SERVICE AREA
FIVE-YEAR TOTALS

				Deliveries 3	1,772	2,194	2,609	2,609	2,552	2,500	2,591	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680
	in Areas	rnardino Valley	Maximum	Allowable 2	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,698	2,716
	Delivery for Use in Areas	Outside San Bernardino Valley	Adjusted	Right 1	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,698	2,716
Area and				Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivery for Use in Colton Basin Area and	Area in	County	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivery for Use	Riverside Basin Area in	San Bernardino County	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Deliveries 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	. <u>⊑</u>	Basin Area	Maximum	Allowable 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivery for Use in	San Bernardino Basin Area	Adjusted	Right 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Extractions 3	1,772	2,194	2,609	2,609	2,552	2,500	2,591	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680
	ions from the	Basin Area	Maximum	Allowable 2	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,698	2,716
	Verified Extractions from the	San Bernardino Basin Area	Adjusted	Right 1	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,680	2,698	2,716
			Five-Year	Period	1991-95	1992-96	1993-97	1994-98	1995-99	1996-00	1997-01	1998-02	1999-03	2000-04	2001-05	2002-06	2003-07	2004-08	2005-09	2006-10	2007-11	2008-12	2009-13	2010-14

TABLE NO. 13 ANNUAL ACCOUNTING OF EXTRACTIONS BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA FIVE-YEAR TOTALS

(All Values in Acre-Feet)

							Delivery for Use	Delivery for Use in Colton Basin Area and	Area and			
	Verified Extract	tions from the		Delivery for Use in	i e		Riverside Basin Area in	Area in		Delivery for Use in Areas	e in Areas	
	San Bernardino	o Basin Area		San Bernardino	Basin Area		San Bernardino County	county c		Outside San Be	Jutside San Bernardino Valley	
Five-Year	Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum		Adjusted	Maximum	
Period		Allowable 2	Extractions 3	Right 4 Allowable 2	Allowable 2	Deliveries 4	Right 1	Allowable 2	Deliveries 3	Right 1	Allowable 2	Deliveries 3
2011-15		2,734	2,698	0	0	0	0	0	0	2,734	2,734	2,698
2012-16		2,752	2,716	0	0	0	0	0	0	2,752	2,752	2,716
2013-17		2,770	2,734	0	0	0	0	0	0	2,770	2,770	2,734
2014-18		2,770	2,752	0	0	0	0	0	0	2,770	2,770	2,752
2015-19		2,770		0	0		0	0		2,770	2,770	
2016-20		2,770 2,770		0	0		0	0		2,770	2,770	
Excess Extractions												
2014-18		(18) *			*			*			* (18)	

\* Parentheses indicate that Extractions and Deliveries are less than Adjusted Right.

1 Adjusted Right equals Safe Yield Adjusted Right plus New Conservation Allocation.

<sup>2</sup> Maximum allowable for the five-year period is the same as the five-year-period Adjusted Right.

<sup>3</sup> Extractions and Deliveries from Table No. 3D-2. (Volume 1A, Table 3)

<sup>4</sup> New Conservation Allocation may also be used in the San Bernardino Basin Area, or the Colton Basin Area and Riverside Basin Area in San Bernardino County.

TABLE NO. 13A
ALLOWABLE EXTRACTIONS BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
FROM THE SAN BERNARDINO BASIN AREA
FOR DELIVERY TO EACH SERVICE AREA

CALENDAR YEAR 2019 (All Values in Acre-Feet)

Allowable Delivery for Use in Areas Outside San Bemardino Valley	554	0	86	652
Allowable Delivery for Use in Colton Basin Area and Riverside Basin Area in San Bernardino County	0	See Footnote 5	See Footnote 6	0
Allowable Delivery for Use in San Bernardino Basin Area	0	See Footnote 5	See Footnote 6	0
Allowable Total Extractions from the San Bernardino Basin Area	554	0	86	652
	-	7	က	4
	Allowable Extraction Based on Adjusted Right	Imported Water Available In Holding Account	New Conservation Water Available	Total Allowable Extraction

# ALLOWABLE EXTRACTIONS BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA FROM THE SAN BERNARDINO BASIN AREA FOR DELIVERY TO EACH SERVICE AREA TABLE NO. 13A

# CALENDAR YEAR 2019 (All Values in Acre-Feet)

- The Allowable Delivery amounts are the adjusted right for the five year period ending with the subject year minus the sum of the Deliveries (Table 13, Page 1c of 2) for the previous four years or the Component of Total Allowable Extractions available through the adjusted right which is equal to the 1959-63 base period extractions minus an adjustment for safe yield and plus an adjustment to include new conservation water forecast to result from long term operation of Seven Oaks Reservoir and diversion of increased amounts for recharge at the Santa Ana River Spreading Grounds. Maximum Allowable annual delivery (1.3 times average annual allowable delivery) whichever is the lessor. Allowable Total Extractions is the sum of the allowable deliveries.
  - University of California has under extracted water in an amount equal to or less than the sum of the rights to extract that were previously transferred. The amount available for extraction by The Component of Total Allowable Extraction available if Western has previously transferred to The Regents of the University of California the right to extract imported water and the Regents of the Regents of the University of California is accounted for in Table No. 17B-4, and is referred to as Imported Water Net Accumulated (Credit).
- San Bernardino Basin Area with Seven Oaks water in areas other than the Santa Ana River Spreading Grounds provided the capability to recharge at the Spreading Grounds has been fully utilized. allocation of new conservation water determined by Watermaster to have resulted from operation of Seven Oaks Reservoir from 1998 through 2012 and any future Judgment Paragraph VI (b) 6 Component of Total Allowable Extraction available as a result of Western, San Bernardino Valley and the Riverside Court approving a Judgment Paragraph VI (b) 6 agreement providing an agreement allocating new conservation water determined by Watermaster to have resulted from a future hydrologic event that resulted in direct use of Seven Oaks water or recharge of the The amount available for extraction by The Regents of the University of California is accounted for in Table No. 17B-4, and is referred to as New Conservation Net Accumulated (Credit)
  - The Total Allowable Extraction is the sum of the allowable components described in Footnotes 1, 2 and 3.
- under extractions will become available to The Regents of the University of California for delivery in these areas. However, if transfers of imported water and under extractions do occur, Watermaster Watermaster anticipates that The Regents of the University of California will not have excess extractions for delivery in the San Bernardino Basin Area or in the Colton and Riverside Basin Areas in San Bernardino County and therefore it is unlikely that Western will transfer a right to extract imported water for delivery in these areas. Therefore, it is unlikely that imported water resulting from will account for such occurrences at that time.
- San Bernardino County and therefore The Regents of the University of California is unlikely to choose to use its allocation of new conservation water for deliveries in these areas. However, if excess Watermaster anticipates that The Regents of the University of California will not have excess extractions for delivery in the San Bernardino Basin Area or in the Colton and Riverside Basin Areas in extractions occur in these areas, The Regents of the University of California will likely choose to use its new conservation allocation to address the excess extraction and Watermaster will account for such use at that time.

#### TABLE NO. 14

# ANNUAL ACCOUNTING FOR WESTERN MUNICIPAL WATER DISTRICT EXPORT OF EXTRACTIONS FROM SAN BERNARDINO BASIN AREA, COLTON BASIN AREA, AND RIVERSIDE BASIN AREA FOR USE WITHIN WESTERN ON LANDS THAT ARE NOT TRIBUTARY TO THE RIVERSIDE NARROWS

				Calendar Years		
	_	2014	2015	2016	2017	2018
EXPORTS	_					
Annual 1959-63 Average		42,535	42,535	42,535	42,535	42,535
Actual Export	1	40,662	40,562	40,226	36,007	36,783
ACCUMULATED EXPORT	2	1,723,245	1,763,807	1,804,033	1,840,040	1,876,823
OBLIGATIONS	_					
Total New Export	3	(1,873)	(1,973)	(2,309)	(6,528)	(5,752)
Additional New Export	4 _	0	0	0	0	0
New Export	5	(1,873)	(1,973)	(2,309)	(6,528)	(5,752)
ACCUMULATED NEW EXPORT	2	(325,502)	(327,475)	(329,784)	(336,312)	(342,064)

<sup>1</sup> See Table 8 of Watermaster Report. (Data from Volume 6, Table A.)

<sup>2</sup> Accumulated values include amounts accumulated prior to current 5-year period.

<sup>3</sup> Actual Export minus Annual 1959-63 Average. (Parentheses indicate that Actual Export is less than Annual 1959-63 Average.)

<sup>4</sup> New Export which was allowed under High Groundwater Mitigation agreements without replenishment obligation.

<sup>5</sup> Total New Export minus Additional New Export.

#### TABLE NO. 15A

# ANNUAL ACCOUNTING FOR SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT EXPORT OF EXTRACTIONS FROM SAN BERNARDINO BASIN AREA FOR USE ON LANDS NOT WITHIN WESTERN NOR TRIBUTARY TO THE RIVERSIDE NARROWS

(All Values in Acre-Feet)
Calendar Years

	•	2014	2015	2016	2017	2018
EXPORTS	_					
Annual 1959-63 Average	1	11,701	11,701	11,701	11,701	11,701
Actual Export	1	9,338	7,295	4,876	9,083	8,742
ACCUMULATED EXPORT	2	990,542	997,837	1,002,713	1,011,796	1,020,538
OBLIGATIONS	_					
Total New Export	3	(2,363)	(4,406)	(6,825)	(2,618)	(2,959)
Additional New Export	4	0	0	0	0	0
New Export	5	(2,363)	(4,406)	(6,825)	(2,618)	(2,959)
ACCUMULATED NEW EXPORT	2	287,440	283,034	276,209	273,591	270,632

<sup>1</sup> See Table No. 9A. (Data from Volume 7, Tables C and D)

<sup>2</sup> Accumulated values include amounts accumulated prior to current 5-year period.

<sup>3</sup> Actual Export minus Annual 1959-63 Average. (Parentheses indicate that Actual Export is less than Annual 1959-63 Average)

<sup>4</sup> New Export which was allowed under High Groundwater Mitigation agreements without replenishment obligation.

<sup>5</sup> Total New Export minus Additional New Export.

#### TABLE NO. 15B

## ANNUAL ACCOUNTING FOR SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT DELIVERY OF EXTRACTIONS FROM SAN BERNARDINO BASIN AREA FOR USE ON LANDS WITHIN COLTON AND RIVERSIDE BASIN AREAS

#### (All Values in Acre-Feet) Calendar Years

				Odiciladi i cai	3	
		2014	2015	2016	2017	2018
DELIVERIES	_					
Annual 1959-63 Average	1	17,837	17,837	17,837	17,837	17,837
Actual Deliveries	1	24,039	21,343	18,106	19,988	20,214
ACCUMULATED DELIVERIES	2	996,247	1,017,590	1,035,696	1,055,684	1,075,898
OBLIGATIONS	_					
Total New Deliveries	3	6,202	3,506	269	2,151	2,377
Additional New Deliveries	4	0	0	0	0	0
New Deliveries	5	6,202	3,506	269	2,151	2,377
ACCUMULATED NEW DELIVERIES	2	163,577	167,083	167,352	169,503	171,880

<sup>1</sup> See Table No. 9B. (Data from Volume 7, Tables E and F)

<sup>2</sup> Accumulated values include amounts accumulated prior to current 5-year period.

<sup>3</sup> Actual Deliveries minus Annual 1959-63 Average. (Parentheses indicate that Actual Deliveries are less than Annual 1959-63 Average)

<sup>4</sup> New Deliveries which were allowed under High Groundwater Mitigation agreements without replenishment obligation.

<sup>5</sup> Total New Deliveries minus Additional New Deliveries.

### ANNUAL ACCOUNTING FOR WESTERN MUNICIPAL WATER DISTRICT EXTRACTIONS FROM COLTON BASIN AREA AND RIVERSIDE BASIN AREA

#### WITHIN RIVERSIDE AND SAN BERNARDINO COUNTIES FOR USE OUTSIDE SAN BERNARDINO VALLEY

				Calendar Years		
		2014	2015	2016	2017	2018
EXTRACTIONS						
Base Period 1959-1963						
Colton Basin Area	1	3,381	3,381	3,381	3,381	3,381
Riverside Basin Area Within San Bernardino County	2	21,085	21,085	21,085	21,085	21,085
Riverside Basin Area Within Riverside County	3 _	29,633	29,633	29,633	29,633	29,633
Total Extractions 1959-1963		54,099	54,099	54,099	54,099	54,099
Current Period 2014-2018						
Colton Basin Area	1	60	1,254	1,141	929	1,549
Riverside Basin Area Within San Bernardino County	2	9,240	6,950	9,722	10,607	9,393
Riverside Basin Area Within Riverside County	3	31,247	23,606	25,173	26,814	26,596
Total Extractions 2014-2018	_	40,547	31,810	36,036	38,350	37,538
New Export	4	(1,873)	(1,973)	(2,309)	(6,528)	(5,752)
Total Extractions Excluding New Export	5	42,420	33,783	38,345	44,878	43,290
Total Extraotions Excitating New Export						
Under Extractions Excluding New Export	6	11,679	20,316	15,754	9,221	10,809
Excess Extractions Excluding New Export	7	0	0	0	0	0
CREDITS						
Extraction Credit	8	11,679	20,316	15,754	9,221	10,809
Return From Excess Extractions	9	0	0	0	0	0
New Export Credit	10	1,873	1,973	2,309	6,528	5,752
Replenishment	11	0	0	0	0	0
Storm Flow Conservation	12	0	0	0	0	0
Return from Imported Water	13	2,227	1,696	1,715	2,134	1,992
Return from New Conservation	14	769	769	769	769	769
Total Credits		16,548	24,754	20,547	18,652	19,322
ACCUMULATED CREDITS	15	616,276	641,030	661,577	680,229	699,551
OBLIGATIONS						
Extraction Obligation	16	0	0	0	0	0
Return from Under Extractions	17	4,204	7,314	5,671	3,320	3,891
New Export Obligation	18	0	0	0	0	0
Land Use Conversion	19	579	579	579	579	579
Total Obligations	_	4,783	7,893	6,250	3,899	4,470
ACCUMULATED OBLIGATIONS	15	150,022	157,915	164,165	168,064	172,534
(CREDIT) OR OBLIGATION	20	(11,765)	(16,861)	(14,297)	(14,753)	(14,852)
NET ACCUMULATED	45					
(CREDIT) OR OBLIGATION	15	(466,254)	(483,115)	(497,412)	(512,165)	(527,017)

## ANNUAL ACCOUNTING FOR WESTERN MUNICIPAL WATER DISTRICT EXTRACTIONS FROM COLTON BASIN AREA AND RIVERSIDE BASIN AREA WITHIN RIVERSIDE AND SAN BERNARDINO COUNTIES FOR USE OUTSIDE SAN BERNARDINO VALLEY

- 1 See Table 4 of Watermaster Report.
- 2 See Table 5 of Watermaster Report.
- 3 See Table 6 of Watermaster Report.
- 4 See Table 14 of Watermaster Report.
- 5 Equals Total Extractions 2014-2018 minus New Export.
- 6 Total Extractions 1959-1963 minus Total Extractions 2014-2018 excluding New Export, if positive.
- 7 Total Extractions 2014-2018 excluding New Export minus Total Extractions 1959-1963, if positive.
- 8 Amounts which may be extracted without replenishment obligation, which in fact are not extracted. Equals Under Extractions excluding New Export.
- 9 Return from Excess Extractions equals 36% of Extraction Obligation.
- 10 New Export Credit equals New Export, if negative.
- 11 Imported water recharged in Colton Basin Area, Riverside Basin Area Within San Bernardino County, or Riverside Basin Area Within Riverside County.
- 12 Credit for storm flows conserved between Bunker Hill Dike and Riverside Narrows, by Western entities, which would not otherwise contribute to base flow at Riverside Narrows, pursuant to Paragraph XI(b)3 of Judgment.
- 13 Return from Imported Water equals 36% of the quality adjusted amount of the imported water delivered directly to users and/or extracted from the San Bernardino Basin Area for use within Western pursuant to the August 18, 2004 Agreement and any other Judgment Paragraph VI(b)6 agreement that allows Western to extract additional water from the Basin as a result of purchasing imported water for recharge of the Basin. See Report of Watermaster, Volume 6, Table No. 11.
- 14 Return from New Conservation equals 36% of New Conservation. See Tables 3A-1, 3A-2, 3B-1, 3B-2, 3C-1, 3C-2, 3D-1 and 3D-2 of Watermaster Report.
- 15 Accumulated values include amounts accumulated prior to current 5-year period.
- 16 Equals Excess Extractions excluding New Export.
- 17 Return from Under Extractions equals 36% of Extraction Credit.
- 18 New Export Obligation equals New Export, if positive.
- 19 See Table 7 of Watermaster Report.
- 20 Net Credit or Obligation for this calendar year.

#### ANNUAL ACCOUNTING FOR SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT EXTRACTIONS FROM SAN BERNARDINO BASIN AREA

(All Values in Acre-Feet)

Calendar Years

EXTRACTIONS  Adjusted Right  Extractions	- 1 1	2014 172,745 152,256	2015 172,745	2016 172,745	2017	2018
Adjusted Right	1		172,745	170 745		
	1		172,745	179 745	4-0-4-	
Extractions		152 256		•	172,745	172,745
		102,200	123,963	113,769	134,714	128,162
New Export	2	(2,363)	(4,406)	(6,825)	(2,618)	(2,959)
New Deliveries to Colton Basin Area within San Bernardino Valley and Riverside Basin Area within San Bernardino County	3	6,202	3,506	269	2,151	2,377
Extractions Excluding New Export and New Deliveries	4	148,417	124,863	120,325	135,181	128,744
Under Extractions Excluding New Export and New Deliveries	5	24,328	47,882	52,420	37,564	44,001
Excess Extractions Excluding New Export and New Deliveries	6	0	0	0	0	0
CREDITS	_					
Extraction Credit	7	24,328	47,882	52,420	37,564	44,001
Return From Excess Extractions	8	0	0	0	0	0
New Export Credit	9	2,363	4,406	6,825	2,618	2,959
New Deliveries Credit	10	0	0	0	0	0
Replenishment	11	1,691	9,537	28,413	54,594	20,451
Return from Imported Water	12	843	2,004	6,186	2,352	5,452
Return from New Conservation	13	1,983	1,983	1,983	1,983	1,983
Total Credits		31,208	65,812	95,827	99,111	74,846
ACCUMULATED CREDITS	14	932,392	998,204	1,094,031	1,193,142	1,267,988
OBLIGATIONS	_					
Extraction Obligation	15	0	0	0	0	0
Return From Under Extractions	16	8,758	17,238	18,871	13,523	15,840
New Export Obligation	17	0	0	0	0	0
New Deliveries Obligation	18	6,202	3,506	269	2,151	2,377
In-Lieu Deliveries Obligation	19	6,408	5,819	8,500	4,147	7,066
Total Obligations		21,368	26,563	27,640	19,821	25,283
ACCUMULATED OBLIGATIONS	14	828,882	855,445	883,085	902,906	928,189
(CREDIT) OR OBLIGATION	20	(9,840)	(39,249)	(68,187)	(79,290)	(49,563)
NET ACCUMULATED (CREDIT) OR OBLIGATION	14	(103,510)	(142,759)	(210,947)	(290,237)	(339,800)

#### ANNUAL ACCOUNTING FOR SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT EXTRACTIONS FROM SAN BERNARDINO BASIN AREA

- 1 See Table No. 2 of Watermaster Report.
- 2 See Table No. 15A of Watermaster Report.
- 3 See Table No. 15B of Watermaster Report.
- 4 Extractions minus New Export minus New Deliveries.
- 5 Adjusted Right minus Extractions excluding New Export and New Deliveries, if positive.
- 6 Extractions excluding New Export and New Deliveries minus Adjusted Right, if positive.
- 7 Amounts which may be extracted without replenishment obligation, which in fact are not extracted. Equals Under Extractions excluding New Export and New Deliveries.
- 8 Return from Excess Extractions equals 36% of Extraction Obligation.
- 9 New Export Credit equals New Export, if negative.
- 10 New Deliveries Credit equals New Deliveries, if negative.
- 11 See Report of Watermaster, Volume 7, Table No. 21, imported water recharged in SBBA.
- 12 Return from Imported Water equals 36% of direct delivered imported water. See Report of Watermaster, Volume 7, Table No. 21.
- 13 Return from New Conservation equals 36% of New Conservation. See Table No. 2 of Watermaster Report.
- 14 Accumulated values include amounts accumulated prior to current 5-year period.
- 15 Equals Excess Extractions excluding New Export and New Deliveries.
- 16 Return from Under Extractions equals 36% of Extraction Credit.
- 17 New Export Obligation equals New Export, if positive.
- 18 New Deliveries Obligation equals New Deliveries, if positive.
- 19 Obligation resulting from the reduction in flow of the Santa Ana River of an amount assumed to be equal to the sum of imported water and pumped groundwater delivered to Bear Valley Mutual Water Company in-lieu of surface water diversions, pursuant to a 1996 agreement between San Bernardino Valley and Big Bear Municipal Water District. See Volume 7, Table No. 22.
- 20 Net Credit or Obligation for this calendar year.

### ANNUAL ACCOUNTING FOR ADDITIONAL EXTRACTIONS OF IMPORTED WATER FROM SAN BERNARDINO BASIN AREA BY WESTERN MUNICIPAL WATER DISTRICT

				Calendar Years	<b>;</b>	
		2014	2015	2016	2017	2018
ADDITIONAL EXTRACTIONS						
Imported Water Acquired By Western	1	0	0	0	0	0
Additional Extractions	2	0	0	0	0	0
CREDITS						
Imported Water Acquired By Western	1	0	0	0	0	0
Plaintiff Transfers To Holding Account	3	0	0	0	0	0
Total Credits		0	0	0	0	0
ACCUMULATED CREDITS	4	10,918	10,918	10,918	10,918	10,918
OBLIGATIONS						
Western Additional Extractions	5	0	0	0	0	0
Western Transfers To Plaintiffs	6	0	0	0	0	0
Holding Account Transfers To Plaintiffs	7	0	0	0	0	0
Total Obligations	· <u>-</u>	0	0	0	0	0
ACCUMULATED OBLIGATIONS	8	2,459	2,459	2,459	2,459	2,459
(CREDIT) OR OBLIGATION	9	0	0	0	0	0
WESTERN NET ACCUMULATED (CREDIT) OR OBLIGATION	10	(6,000)	(6,000)	(6,000)	(6,000)	(6,000)
PLAINTIFF NET ACCUMULATED (CREDIT)	11	(2,459)	(2,459)	(2,459)	(2,459)	(2,459)
TOTAL NET ACCUMULATED (CREDIT) OR OBLIGATION	12	(8,459)	(8,459)	(8,459)	(8,459)	(8,459)

### ANNUAL ACCOUNTING FOR ADDITIONAL EXTRACTIONS OF IMPORTED WATER FROM SAN BERNARDINO BASIN AREA BY WESTERN MUNICIPAL WATER DISTRICT

- 1 Amount of imported water acquired from San Bernardino Valley or MWDSC by Western, that is spread and stored in the San Bernardino Basin Area pursuant to Judgment Paragraph XV (a) and is available for extraction (recapture) by Western and Plaintiffs pursuant to Judgment Paragraph VI(b)6 agreements.
- 2 Amount of extractions by Western and/or extractions by Plaintiffs of imported water acquired and stored in the San Bernardino Basin Area by Western and transferred to Plaintiffs.
- 3 Sum of all Plaintiffs transfers to Western of amounts of water equal to Plaintiffs unused water right provided the amount transferred plus the remaining balance of any previous such transfers does not exceed the aggregate amount of imported water previously transferred by Western to the Plaintiffs (see Footnote 5 on Table Nos. 17 B-1 through 17 B-4).
- 4 Accumulated Credits include amounts of credit accumulated prior to the current five year period.
- 5 Amount of extractions made by Western of Imported Water Acquired By Western (see Footnote 1).
- 6 Sum of the amounts of Imported Water Acquired By Western transferred to Plaintiffs for the purpose of allowing additional extractions by Plaintiffs (see Footnote 4 on Table Nos. 17 B-1 through 17 B-4).
- 7 Sum of the amounts of water in the Western holding accounts for each Plaintiff that can be transferred to Plaintiffs for the purpose of allowing additional extractions by Plaintiff (see Footnote 8 on Table Nos. 17 B-1 through 17 B-4).
- 8 Accumulated Obligations include extraction and transfer of right to extract related obligations accumulated for the current five year period and for prior years.
- 9 (Credit) or Obligation equals Total Obligations minus Total Credits for the calendar year.
- 10 Western Net Accumulated (Credit) or Obligation equals the sum of all annual Western Additional Extractions (see Footnote 5) plus all annual Western Transfers to Plaintiffs (see Footnote 6) minus the sum of all annual amounts of Imported Water Acquired by Western (see Footnote 1). Such credit allows extraction by Western and/or allows transfer of an additional right to extract to Plaintiffs. To the extent permitted by agreement with San Bernardino Valley, if extractions have been made prior to replenishment, the Western Net Accumulated Obligation reflects the amount of future replenishment that must be made.
- 11 Plaintiff Net Accumulated (Credit) equals the sum of all Holding Account Transfers to Plaintiffs (see Footnote 7) minus the sum of all annual Plaintiff Transfers to Holding Accounts (see Footnote 3).
- 12 Total Net Accumulated (Credit) or Obligation is the sum of the Western Net Accumulated (Credit) or Obligation and the Plaintiff Net Accumulated (Credit).
- a In 2004 Western acquired 6,000 acre-feet of imported water from MWDSC and the Riverside Court approved a Judgment Paragraph VI(b)6 agreement granting the right for Western to extract 6,000 acre-feet of water and the right to transfer such right to Plaintiffs. 3,500 acre-feet of the imported water was stored in the San Bernardino Basin Area.
- b In 2005 the remainder (2,500 acre-feet) of imported water was stored in the Basin.
- c In 2007 Western transferred the right to extract 2,459 acre-feet of imported water to City of Riverside.
- d In 2009 Western acquired 2,459 acre-feet of imported water from San Bernardino Valley and it was stored in the Basin.
- e In 2013 City of Riverside transferred 2,459 acre-feet of water to a Western imported water holding account.

#### TABLE NO. 17B-1

### ANNUAL ACCOUNTING FOR ADDITIONAL EXTRACTIONS OF NEW CONSERVATION WATER AND IMPORTED WATER FROM SAN BERNARDINO BASIN AREA BY CITY OF RIVERSIDE

	Calendar Years								
ADDITIONAL EXTRACTIONS	-	2014	2015	2016	2017	2018			
New Conservation Allocation	_ 1	0	0	0	0	0			
Imported Water Assigned By Western	2	0	0	0	0	0			
Additional Extractions	3	0	0	0	0	0			
CREDITS	_								
New Conservation Allocation	1	0	0	0	0	0			
Imported Water Transfer From Western	4	0	0	0	0	0			
Imported Water Transfer To Holding Account	5	0	0	0	0	0			
Total Credits		0	0	0	0	0			
ACCUMULATED CREDITS	6	14,553	14,553	14,553	14,553	14,553			
OBLIGATIONS	_								
New Conservation Additional Extractions	7	0	0	0	0	0			
Imported Water Additional Extractions	8	0_	0	0	0	0			
Total Obligations		0	0	0	0	0			
ACCUMULATED OBLIGATIONS	9	2,459	2,459	2,459	2,459	2,459			
(CREDIT)	10	0	0	0	0	0			
NEW CONSERVATION NET ACCUMULATED (CREDIT)	11	(9,635)	(9,635)	(9,635)	(9,635)	(9,635)			
IMPORTED WATER NET ACCUMULATED (CREDIT)	12	(2,459)	(2,459)	(2,459)	(2,459)	(2,459)			
TOTAL NET ACCUMULATED (CREDIT)	13	(12,094)	(12,094)	(12,094)	(12,094)	(12,094)			

### ANNUAL ACCOUNTING FOR ADDITIONAL EXTRACTIONS OF NEW CONSERVATION WATER AND IMPORTED WATER FROM SAN BERNARDINO BASIN AREA BY CITY OF RIVERSIDE

- 1 Amount of new conservation water that is in addition to the amount included in the Plaintiffs Adjusted Right, that is provided for in Judgment Paragraph VI(b)6 agreements.
- 2 Amount of Western's right to extract that is imported water assigned and transferred by Western to a Plaintiff pursuant to Paragraph 5 of the 2004 Judgment Paragraph VI(b)6 agreement.
- 3 Total amount of new conservation and/or imported water extracted by Plaintiff.
- 4 Amount of right to extract imported water acquired from Western and transferred to Plaintiff pursuant to Paragraph 5 of the 2004 Judgment Paragraph VI(b)6 agreement. Amount equals imported water acquired by Plaintiff (see Footnote 2).
- 5 Amount of water transferred from Plaintiff to a Western imported water holding account equal to Plaintiffs unused water right in any five year period (under extraction) provided the amount transferred, plus the remaining balance of any previous such transfers, does not exceed the aggregate amount of imported water acquired by Plaintiff and the right to extract such amount transferred to Plaintiff (see Footnotes 2 and 4) pursuant to the 2004 Judgment Paragraph VI(b)6 agreement. Such holding account transfers are pursuant to Paragraph 11 of the 2013 Judgment Paragraph VI(b)6 agreement.
- 6 Accumulated Credits include amounts of credit accumulated prior to the current five year period.
- 7 Amount of new conservation water extracted by the City of Riverside that is in addition to the new conservation water included in the Adjusted Right. Such amount is included in Additional Deliveries in Table No. 3A-2.
- 8 Amount of imported water extracted by City of Riverside that is transferred by Western to the City of Riverside (see Footnote 4) and previously transferred into the Western holding account (see Footnote 5). Such amount is included in Additional Deliveries in Table No. 3A-2.
- 9 Accumulated Obligations include extraction related obligations accumulated for the current five year period and prior years.
- 10 Credit equals Total Obligation minus Total Credits for the calendar year.
- 11 New Conservation Net Accumulated (Credit) equals the sum of all annual amounts of New Conservation Additional Extractions (see Footnote 7) minus the sum of all annual amounts of New Conservation Allocation (see Footnote 1), including such amounts accumulated prior to the current five year period. Such credit amount is the remaining balance in the City of Riverside new conservation water account.
- 12 Imported Water Net Accumulated (Credit) equals the sum of all annual amounts of Imported Water Additional Extractions (see Footnote 8) minus the sum of all annual amounts of Imported Water Transfer From Western (see Footnote 4) minus Imported Water Transfer To Holding Account (see Footnote 5), including such amounts accumulated prior to the current five year period. Such credit amount is the remaining balance of water in the Western imported water holding account that is available for extraction by City of Riverside.
- 13 Total Net Accumulated (Credit) is the sum of the new conservation credit remaining balance and the imported water credit remaining balance.
- a In 2007 Western assigned and transferred the right to extract 2,459 acre-feet of imported water to City of Riverside.
- b In 2007 City of Riverside extracted 2,459 acre-feet more than its Adjusted Right. See Table No. 3A-2.
- c In 2013 Watermaster determined that operation of Seven Oaks Reservoir and downstream spreading grounds resulted in new conservation in the San Bernardino Basin Area during the period 1998 through 2012. The amount shown is the amount of such new conservation water allocated to City of Riverside pursuant to Paragraph 3(a) of the 2013 Agreement Regarding Additional Extractions of New Conservation Water From The San Bernardino Basin Area.
- d In 2013 City of Riverside extracted less than its Adjusted Right and opted to transfer to Western previously transferred right to extract imported water of the amount shown pursuant to Paragraph 11 of the agreement cited in Footnote c above.

### ANNUAL ACCOUNTING FOR ADDITIONAL EXTRACTIONS OF NEW CONSERVATION WATER AND IMPORTED WATER FROM SAN BERNARDINO BASIN AREA BY RIVERSIDE HIGHLAND WATER COMPANY

	Calendar Years									
	_	2014	2015	2016	2017	2018				
ADDITIONAL EXTRACTIONS	_									
New Conservation Allocation	1	0	0	0	0	0				
Imported Water Assigned By Western	2	0	0	0	0	0				
Additional Extractions	3	0	0	0	0	0				
CREDITS	_									
New Conservation Allocation	1	0	0	0	0	0				
Imported Water Transfer From Western	4	0	0	0	0	0				
Imported Water Transfer To Holding Account	5	0	0	0	0	0				
Total Credits		0	0	0	0	0				
ACCUMULATED CREDITS	6	793	793	793	793	793				
OBLIGATIONS	_									
New Conservation Additional Extractions	7	0	0	0	0	0				
Imported Water Additional Extractions	8	0	0	0	0	0				
Total Obligations		0	0	0	0	0				
ACCUMULATED OBLIGATIONS	9	0	0	0	0	0				
(CREDIT)	10	0	0	0	0	0				
NEW CONSERVATION NET ACCUMULATED (CREDIT)	11	(793)	(793)	(793)	(793)	(793)				
IMPORTED WATER NET ACCUMULATED (CREDIT)	12	0	0	0	0	0				
TOTAL NET ACCUMULATED (CREDIT)	13	(793)	(793)	(793)	(793)	(793)				

### ANNUAL ACCOUNTING FOR ADDITIONAL EXTRACTIONS OF NEW CONSERVATION WATER AND IMPORTED WATER FROM SAN BERNARDINO BASIN AREA BY RIVERSIDE HIGHLAND WATER COMPANY

- 1 Amount of new conservation water that is in addition to the amount included in the Plaintiffs Adjusted Right, that is provided for in Judgment Paragraph VI(b)6 agreements.
- 2 Amount of Western's right to extract that is imported water assigned and transferred by Western to a Plaintiff pursuant to Paragraph 5 of the 2004 Judgment Paragraph VI(b)6 agreement.
- 3 Total amount of new conservation and/or imported water extracted by Plaintiff.
- 4 Amount of right to extract imported water acquired from Western and transferred to Plaintiff pursuant to Paragraph 5 of the 2004 Judgment Paragraph VI(b)6 agreement. Amount equals imported water acquired by Plaintiff (see Footnote 2).
- 5 Amount of water transferred from Plaintiff to a Western imported water holding account equal to Plaintiffs unused water right in any five year period (under extraction) provided the amount transferred, plus the remaining balance of any previous such transfers, does not exceed the aggregate amount of imported water acquired by Plaintiff and the right to extract such amount transferred to Plaintiff (see Footnotes 2 and 4) pursuant to the 2004 Judgment Paragraph VI(b)6 agreement. Such holding account transfers are pursuant to Paragraph 11 of the 2013 Judgment Paragraph VI(b)6 agreement.
- 6 Accumulated Credits include amounts of credit accumulated prior to the current five year period.
- 7 Amount of new conservation water extracted by the Riverside Highland Water Company that is in addition to the new conservation water included in the Adjusted Right. Such amount is included in Additional Deliveries in Table No. 3B-2.
- 8 Amount of imported water extracted by Riverside Highland Water Company that is transferred by Western to the Riverside Highland Water Company (see Footnote 4) and previously transferred into the Western holding account (see Footnote 5). Such amount is included in Additional Deliveries in Table No. 3B-2.
- 9 Accumulated Obligations include extraction related obligations accumulated for the current five year period and prior years.
- 10 Credit equals Total Obligation minus Total Credits for the calendar year.
- 11 New Conservation Net Accumulated (Credit) equals the sum of all annual amounts of New Conservation Additional Extractions (see Footnote 7) minus the sum of all annual amounts of New Conservation Allocation (see Footnote 1), including such amounts accumulated prior to the current five year period. Such credit amount is the remaining balance in the Riverside Highland Water Company new conservation water account.
- 12 Imported Water Net Accumulated (Credit) equals the sum of all annual amounts of Imported Water Additional Extractions (see Footnote 8) minus the sum of all annual amounts of Imported Water Transfer From Western (see Footnote 5) minus Imported Water Transfer To Holding (see Footnote 5), including such amounts accumulated prior to the current five year period. Such credit amount is the remaining balance of water in the Western imported water holding account that is available for extraction by Riverside Highland Water Company.
- 13 Total Net Accumulated (Credit) is the sum of the new conservation credit remaining balance and the imported water credit remaining balance.
- a In 2013 Watermaster determined that operation of the Seven Oaks Reservoir and downstream spreading grounds resulted in new conservation in the San Bernardino Basin Area during the period 1998 through 2012. The amount shown is the amount of such new conservation water allocated to Riverside Highland Water Company pursuant to Paragraph 3(c) of the 2013 Agreement Regarding Additional Extractions of New Conservation Water From the San Bernardino Basin Area.

#### TABLE NO. 17B-3

### ANNUAL ACCOUNTING FOR ADDITIONAL EXTRACTIONS OF NEW CONSERVATION WATER AND IMPORTED WATER FROM SAN BERNARDINO BASIN AREA BY AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY

	Calendar Years								
ADDITIONAL EVEDAGTIONS	-	2014	2015	2016	2017	2018			
ADDITIONAL EXTRACTIONS	_								
New Conservation Allocation	1	0	0	0	0	0			
Imported Water Assigned By Western	2	0	0	0	0	0			
Additional Extractions	3	0	0	0	0	0			
CREDITS	_								
New Conservation Allocation	1	0	0	0	0	0			
Imported Water Transfer From Western	4	0	0	0	0	0			
Imported Water Transfer To Holding Account	5	0_	0	0	0	0			
Total Credits		0	0	0	0	0			
ACCUMULATED CREDITS	6	1,448	1,448	1,448	1,448	1,448			
OBLIGATIONS	_								
New Conservation Additional Extractions	7	0	0	0	0	0			
Imported Water Additional Extractions	8	0	0	0	0	0			
Total Obligations		0	0	0	0	0			
ACCUMULATED OBLIGATIONS	9	0	0	0	0	0			
(CREDIT)	10	0	0	0	0	0			
NEW CONSERVATION NET ACCUMULATED (CREDIT)	11	(1,448)	(1,448)	(1,448)	(1,448)	(1,448)			
IMPORTED WATER NET ACCUMULATED (CREDIT)	12	0	0	0	0	0			
TOTAL NET ACCUMULATED (CREDIT)	13	(1,448)	(1,448)	(1,448)	(1,448)	(1,448)			

### ANNUAL ACCOUNTING FOR ADDITIONAL EXTRACTIONS OF NEW CONSERVATION WATER AND IMPORTED WATER FROM SAN BERNARDINO BASIN AREA BY AGUA MANSA WATER COMPANY AND MEEKS & DALEY WATER COMPANY

- 1 Amount of new conservation water that is in addition to the amount included in the Plaintiffs Adjusted Right, that is provided for in Judgment Paragraph VI(b)6 agreements.
- 2 Amount of Western's right to extract that is imported water assigned and transferred by Western to a Plaintiff pursuant to Paragraph 5 of the 2004 Judgment Paragraph VI(b)6 agreement.
- 3 Total amount of new conservation and/or imported water extracted by Plaintiff.
- 4 Amount of right to extract imported water acquired from Western and transferred to Plaintiff pursuant to Paragraph 5 of the 2004 Judgment Paragraph VI(b)6 agreement. Amount equals imported water acquired by Plaintiff (see Footnote 2).
- 5 Amount of water transferred from Plaintiff to a Western imported water holding account equal to Plaintiffs unused water right in any five year period (under extraction) provided the amount transferred, plus the remaining balance of any previous such transfers, does not exceed the aggregate amount of imported water acquired by Plaintiff and the right to extract such amount transferred to Plaintiff (see Footnotes 2 and 4) pursuant to the 2004 Judgment Paragraph VI(b)6 agreement. Such holding account transfers are pursuant to Paragraph 11 of the 2013 Judgment Paragraph VI(b)6 agreement.
- 6 Accumulated Credits include amounts of credit accumulated prior to the current five year period.
- 7 Amount of new conservation water extracted by the Agua Mansa Water Company and Meeks & Daley Water Company that is in addition to the new conservation water included in the Adjusted Right. Such amount is included in Additional Deliveries in Table No. 3C-2.
- 8 Amount of imported water extracted by Agua Mansa Water Company and Meeks & Daley Water Company that is transferred by Western to the Agua Mansa Water Company and Meeks & Daley Water Company (see Footnote 4) and previously transferred into the Western holding account (see Footnote 5). Such amount is included in Additional Deliveries in Table No. 3C-2.
- 9 Accumulated Obligations include extraction related obligations accumulated for the current five year period and prior years.
- 10 Credit equals Total Obligation minus Total Credits for the calendar year.
- 11 New Conservation Net Accumulated (Credit) equals the sum of all annual amounts of New Conservation Additional Extractions (see Footnote 7) minus the sum of all annual amounts of New Conservation Allocation (see Footnote 1), including such amounts accumulated prior to the current five year period. Such credit amount is the remaining balance in the Agua Mansa Water Company and Meeks & Daley Water Company new conservation water account.
- 12 Imported Water Net Accumulated (Credit) equals the sum of all annual amounts of Imported Water Additional Extractions (see Footnote 8)
  minus the sum of all annual amounts of Imported Water Transfer From Western (see Footnote 4) minus Imported Water Transfer To Holding
  Account (see Footnote 5), including such amounts accumulated prior to the current five year period. Such credit amount is the remaining balance
  of water in the Western imported water holding account that is available for extraction by Agua Mansa Water Company and Meeks & Daley Water Company.
- 13 Total Net Accumulated (Credit) is the sum of the new conservation credit remaining balance and the imported water credit remaining balance.
- a In 2013 Watermaster determined that operation of the Seven Oaks Reservoir and downstream spreading grounds resulted in new conservation in the San Bernardino Basin Area during the period 1998 through 2012. The amount shown is the amount of such new conservation water allocated to Agua Mansa Water Company and Meeks & Daley Water Company pursuant to Paragraph 3(b) of the 2013 Agreement Regarding Additional Extractions of New Conservation Water From the San Bernardino Basin Area.

### ANNUAL ACCOUNTING FOR ADDITIONAL EXTRACTIONS OF NEW CONSERVATION WATER AND IMPORTED WATER FROM SAN BERNARDINO BASIN AREA BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

		Calendar Years							
ADDITIONAL EVEDACTIONS	-	2014	2015	2016	2017	2018			
ADDITIONAL EXTRACTIONS	_								
New Conservation Allocation	1	0	0	0	0	0			
Imported Water Assigned By Western	2	0	0	0	0	0			
Additional Extractions	3	0	0	0	0	0			
CREDITS	_								
New Conservation Allocation	1	0	0	0	0	0			
Imported Water Transfer From Western	4	0	0	0	0	0			
Imported Water Transfer To Holding Account	5	0	0	0	0	0			
Total Credits		0	0	0	0	0			
ACCUMULATED CREDITS	6	98	98	98	98	98			
OBLIGATIONS	_								
New Conservation Additional Extractions	7	0	0	0	0	0			
Imported Water Additional Extractions	8	0	0	0	0	0			
Total Obligations		0	0	0	0	0			
ACCUMULATED OBLIGATIONS	9	0	0	0	0	0			
(CREDIT)	10	0	0	0	0	0			
NEW CONSERVATION NET ACCUMULATED (CREDIT)	11	(98)	(98)	(98)	(98)	(98)			
IMPORTED WATER NET ACCUMULATED (CREDIT)	12	0	0	0	0	0			
TOTAL NET ACCUMULATED (CREDIT)	13	(98)	(98)	(98)	(98)	(98)			

### ANNUAL ACCOUNTING FOR ADDITIONAL EXTRACTIONS OF NEW CONSERVATION WATER AND IMPORTED WATER FROM SAN BERNARDINO BASIN AREA BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

- 1 Amount of new conservation water that is in addition to the amount included in the Plaintiffs Adjusted Right, that is provided for in Judgment Paragraph VI(b)6 agreements.
- 2 Amount of Western's right to extract that is imported water assigned and transferred by Western to a Plaintiff pursuant to Paragraph 5 of the 2004 Judgment Paragraph VI(b)6 agreement.
- 3 Total amount of new conservation and/or imported water extracted by Plaintiff.
- 4 Amount of right to extract imported water acquired from Western and transferred to Plaintiff pursuant to Paragraph 5 of the 2004 Judgment Paragraph VI(b)6 agreement. Amount equals imported water acquired by Plaintiff (see Footnote 2).
- 5 Amount of water transferred from Plaintiff to a Western imported water holding account equal to Plaintiffs unused water right in any five year period (under extraction) provided the amount transferred, plus the remaining balance of any previous such transfers, does not exceed the aggregate amount of imported water acquired by Plaintiff and the right to extract such amount transferred to Plaintiff (see Footnotes 2 and 4) pursuant to the 2004 Judgment Paragraph VI(b)6 agreement. Such holding account transfers are pursuant to Paragraph 11 of the 2013 Judgment Paragraph VI(b)6 agreement.
- 6 Accumulated Credits include amounts of credit accumulated prior to the current five year period.
- 7 Amount of new conservation water extracted by The Regents of the University of California that is in addition to the new conservation water included in the Adjusted Right. Such amount is included in Additional Deliveries in Table No. 3D-2.
- 8 Amount of imported water extracted by The Regents of the University of California that is transferred by Western to The Regents of the University of California (see Footnote 4) and previously transferred into the Western holding account (see Footnote 5). Such amount is included in Additional Deliveries in Table No. 3D-2.
- 9 Accumulated Obligations include extraction related obligations accumulated for the current five year period and prior years.
- 10 Credit equals Total Obligation minus Total Credits for the calendar year.
- 11 New Conservation Net Accumulated (Credit) equals the sum of all annual amounts of New Conservation Additional Extractions (see Footnote 7) minus the sum of all annual amounts of New Conservation Allocation (see Footnote 1), including such amounts accumulated prior to the current five year period. Such credit amount is the remaining balance in the The Regents of the University of California new conservation water account.
- 12 Imported Water Net Accumulated (Credit) equals the sum of all annual amounts of Imported Water Additional Extractions (see Footnote 8) minus the sum of all annual amounts of Imported Water Transfer From Western (see Footnote 4) minus Imported Water Transfer To Holding Account (see Footnote 5), including such amounts accumulated prior to the current five year period. Such credit amount is the remaining balance of water in the Western imported water holding account that is available for extraction by The Regents of the University of California.
- 13 Total Net Accumulated (Credit) is the sum of the new conservation credit remaining balance and the imported water credit remaining balance.
- a In 2013 Watermaster determined that operation of the Seven Oaks Reservoir and downstream spreading grounds resulted in new conservation in the San Bernardino Basin Area during the period 1998 through 2012. The amount shown is the amount of such new conservation water allocated to The Regents of the University of California pursuant to Paragraph 3(d) of the 2013 Agreement Regarding Additional Extractions of New Conservation Water From the San Bernardino Basin Area.

#### TABLE NO. 17B-5

### ANNUAL ACCOUNTING FOR ADDITIONAL EXTRACTIONS OF NEW CONSERVATION WATER FROM SAN BERNARDINO BASIN AREA BY ENTITIES IN SAN BERNARDINO COUNTY OTHER THAN PLAINTIFFS

		Calendar Years										
		2014	2015	2016	2017	2018						
ADDITIONAL EXTRACTIONS	_											
New Conservation Allocation	1	0	0	0	0	0						
Additional Extractions	2	0	0	0	0	0						
CREDITS	_											
New Conservation Allocation	1	0	0	0	0	0						
Transfer	_ 3	0	0	0	0	0						
Total Credits		0	0	0	0	0						
ACCUMULATED CREDITS	4	30,866	30,866	30,866	30,866	30,866						
OBLIGATIONS	_											
New Conservation Additional Extractions	2	0	0	0	0	0						
Transfer	_ 5	0	0	0	0	0						
Total Obligations		0	0	0	0	0						
ACCUMULATED OBLIGATIONS	4	0	0	0	0	0						
(CREDIT)	6	0	0	0	0	0						
NEW CONSERVATION NET ACCUMULATED (CREDIT)	7	(30,866)	(30,866)	(30,866)	(30,866)	(30,866)						

### ANNUAL ACCOUNTING FOR ADDITIONAL EXTRACTIONS OF NEW CONSERVATION WATER FROM SAN BERNARDINO BASIN AREA BY ENTITIES IN SAN BERNARDINO COUNTY OTHER THAN PLAINTIFFS

- 1 Amount of new conservation water that is in addition to the amount included in San Bernardino Valley's Adjusted Right, that is provided for in Judgment Paragraph VI(b)6 agreements.
- 2 Amount of new conservation water extracted by users in San Bernardino County.
- 3 Amount of new conservation water transferred to San Bernardino Valley's new conservation account.
- 4 Accumulated Credit and Accumulated Obligations include amounts accumulated prior to the current five-year period.
- 5 Amount of new conservation water transferred from San Bernardino Valley's new conservation account.
- 6 Credit equals Total Obligations minus Total Credits for the calendar year.
- 7 New Conservation Net Accumulated (Credit) equals the sum of all annual amounts of New Conservation Additional Extractions and Transfers from San Bernardino Valley (see Footnotes 2 and 5) minus the sum of all amounts of New Conservation Allocation and Transfers to San Bernardino Valley (see Footnotes 1 and 3), including such amounts accumulated prior to the current five-year period. Such credit amount is the remaining balance in the San Bernardino Valley new conservation account.
- a In 2013 Watermaster determined that operation of the Seven Oaks Reservoir and downstream spreading grounds resulted in new conservation in the San Bernardino Basin Area during the period 1998 through 2012. The amount shown is the amount of such new conservation water allocated to entities in San Bernardino County other than Plaintiffs pursuant to Paragraph 4 of the 2013 Agreement Regarding Additional Extractions of New Conservation Water From the San Bernardino Basin Area.

#### ANNUAL ACCOUNTING FOR RIVERSIDE BASIN MITIGATION ACCOUNT RELATED TO SEVEN OAKS WATER CONSERVED IN SAN BERNARDINO BASIN AREA

		Calendar Years									
	,	2014		2015		2016		2017		2018	_
MITIGATION ACCOUNT ADDITIONS	1										
Long Term Forecast Annual Average Amounts Included Pursuant to Footnote	2	483	12	483	12	483	12	483	12	483	
Specific Year Amounts Included Pursuant to Footnote	3	0	13	0	_	0	-	0	· <u>-</u>	0	
Total Mitigation Account Additions	4	483		483		483		483		483	
ACCUMULATED MITIGATION ACCOUNT ADDITIONS	5	3,679		4,162		4,645		5,128		5,611	
MITIGATION ACCOUNT EXTRACTIONS	6										
Extractions by City of Riverside	7	0		0		0		0		0	
Extractions by Other Than Plaintiffs	8	0		0		0	-	0	_	0	
Total Mitigation Account Extractions	9	0		0		0		0		0	
ACCUMULATED MITIGATION ACCOUNT EXTRACTIONS	10	0		0		0		0		0	
MITIGATION ACCOUNT BALANCE	11	3,679		4,162		4,645		5,128		5,611	

### ANNUAL ACCOUNTING FOR RIVERSIDE BASIN MITIGATION ACCOUNT RELATED TO SEVEN OAKS WATER CONSERVED IN SAN BERNARDINO BASIN AREA

- 1 Pursuant to the 2013 Agreement Regarding Additional Extractions of New Conservation Water From the San Bernardino Basin Area (Basin) (2013 Agreement), any amount of replenishment in the Basin resulting from operation of Seven Oaks Dam and related diversion and spreading facilities that, in the absence of such operation, would have been replenished in the Riverside Basin, shall be included in a Riverside Basin Mitigation Account. Such water is referred to herein as Mitigation Water.
- 2 Equal annual average amounts of Mitigation Water determined on the basis of a long term forecast of Seven Oaks related conservation at the Santa Ana River Spreading Grounds. Pursuant to the 2013 Agreement, such forecasts are subject to periodic change and hence the otherwise equal annual amounts may change periodically.
- 3 Specific amounts of Mitigation Water resulting from a determination of prior years (1998-2012) new conservation and any determination of new conservation resulting from conservation through direct use, recharge in the Basin in areas other than the Santa Ana River Spreading Grounds and/or export from the Basin and subsequent return for direct use or recharge.
- 4 Long Term Forecast Annual Average Amounts plus Specific Year Amounts.
- 5 Accumulated amount of Mitigation Account Additions includes amounts accumulated prior to the current five-year period.
- 6 Pursuant to the 2013 Agreement, the City of Riverside may be required to extract San Bernardino Basin Area water that is included in the Mitigation Account and reduce extractions in its Flume Tract wells in the Riverside Basin by the same amount. Similarly, San Bernardino Valley may choose to extract water that is included in the Mitigation Account and deliver it for recharge in the Riverside Basin.
- 7 Amounts of Mitigation Water extracted by City of Riverside pursuant to the 2013 Agreement.
- 8 Amounts of Mitigation Water extracted by any producer other than Plaintiffs for delivery and recharge in the Riverside Basin.
- 9 Extractions by City of Riverside plus Extractions by Other Than Plaintiffs.
- 10 Accumulated amount of Mitigation Account Extractions includes amounts accumulated prior to the current five-year period.
- 11 The amount of Mitigation Water Additions to the Mitigation Account minus the amount of Mitigation Water Extractions from the Mitigation Account by City of Riverside and by Other Than Plaintiffs in San Bernardino County.
- 12 Based on calculations by GEOSCIENCE/SAIC in an August 1, 2013 Technical Memorandum to Western and San Bernardino Valley, Watermaster determined that 483 acre-feet/year of Mitigation Water should be included in the Riverside Basin Mitigation Account based on the current maximum spreading grounds diversion rate of 195 cfs. Inclusion of such annual average amount of Mitigation Water continues annually until another long term forecast results in a change.
- 13 Based on calculations by GEOSCIENCE/SAIC in an August 1, 2013 Technical Memorandum to Western and San Bernardino Valley, Watermaster determined that during prior years 1998-2012, 2,713 acre-feet of Mitigation Water should be included in the Riverside Basin Mitigation Account.

#### SUMMARY OF COMPLIANCE WITH FOUR PRINCIPAL PROVISIONS OF THE JUDGMENT

#### **COMPLIANCE IN THE SAN BERNARDINO BASIN AREA**

■ PLAINTIFF EXTRACTIONS ARE LESS THAN THE MAXIMUM ALLOWABLE EXTRACTIONS

During the five-year period 2014 through 2018 extractions by Plaintiffs did not exceed the five-year maximum allowable. (See page 2b of 2 of Table Nos. 10 through 13) Also, in calendar year 2018 extractions by each Plaintiff did not exceed the annual maximum allowable, which is 1.3 times the 2018 Adjusted Right. (See page 1b of 2 of Table Nos. 10 through 13)

 SAN BERNARDINO VALLEY IS NOT REQUIRED TO PROVIDE REPLENISHMENT

For the period 1971 through 2018, San Bernardino Valley credits exceed obligation by 339,800 AF. (See Table No. 17)

#### COMPLIANCE IN THE COLTON AND RIVERSIDE BASIN AREAS

■ WESTERN IS NOT REQUIRED TO PROVIDE REPLENISHMENT

For the period 1971 through 2018, Western credits exceed obligations by 527,017 AF. (See Table No. 16)

■ SAN BERNARDINO VALLEY MAY BE REQUIRED TO PROVIDE REPLENISHMENT FOR MAINTAINING GROUNDWATER LEVEL

The average lowest water level in the three key wells for Calendar Year 2018 is 10.88 feet lower than the required minimum average level of 822.04 feet. Pursuant to Judgment Paragraph VIII (d) and subject to the alternative remedy provided for in Paragraph VIII (e) and the conditions cited in Paragraph XI (d) and XV (e), San Bernardino Valley may be required to provide replenishment.