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GROUNDWATER COUNCIL MEETING AGENDA

MONDAY, DECEMBER 10, 2018 - 10:00 AM

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT BOARD ROOM

380 EAST VANDERBILT WAY, SAN BERNARDINO, CA 92408

CALL TO ORDER

ROLL CALL FOR QUORUM

Bear Valley Mutual Water Company, City of Colton (4), City of Loma Linda (10), City of Redlands (0), City of Rialto (12), East Valley Water District (20), Fontana Water Company (0), Loma Linda University (1), San Bernardino Municipal Water Department (53), San Bernardino Valley Municipal Water District, San Bernardino Valley Water Conservation District, West Valley Water District (0), Yucaipa Valley Water District (0)

INTRODUCTIONS

Approval of Minutes.

1. *October 8, 2018, Meeting (Page 3)*

NEW BUSINESS

1. *Consider request from Fontana Water Company to join the Groundwater Council*
2. *Consider developing procedures for the delivery of Groundwater Council water*
3. *Consider West Valley Water District Agreement*
4. *Consider Purchase of Remaining Imported Water for 2018*
5. *Consider Change in Meeting Schedule*

REGULAR BUSINESS

1. **Budget Committee.**
 - A. *Revised Budget Policy (Page 7)*



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- B. Preliminary Equitable Allocation 2019 (Page 15)*
- 2. Governance Committee.**
 - A. Telephone Participation Rules*
- 3. Agreement Approvals.**
 - A. Update on Agreement Approvals*
- 4. Imported Water Availability.**
 - A. Update on Imported Water Availability*

OTHER BUSINESS

ADJOURNMENT

The next regularly scheduled Groundwater Council Meeting will be on February 11, 2019 at 10:00 a.m., at San Bernardino Valley Municipal Water District 380 East Vanderbilt Way San Bernardino, CA 92408

**MINUTES
OF
THE
GROUNDWATER COUNCIL**

October 8, 2018

Registered Guests:

Ed Petti, Loma Linda University

Jarb Thaipejr, City of Loma Linda

Miguel Guerrero, San Bernardino Municipal Water Department

Katelyn Scholte, San Bernardino Valley Water Conservation District

Karly Gaynor, Western Municipal Water District

Daniel Cozad, San Bernardino Valley Water Conservation District

Jesus Gastelum, Elsinore Valley Municipal Water District

Linda Jadeski, West Valley Water District

Sam Fuller, Consultant for Bear Valley Mutual Water Company

Russ Handy, City of Loma Linda

Parag Kalaria, Elsinore Valley Municipal Water District

Steve Miller, San Bernardino Municipal Water Department

Bob Tincher, San Bernardino Valley Municipal Water District

Tim Kellett, San Bernardino Valley Municipal Water District

Tom Crowley, City of Rialto

Cindy Saks, San Bernardino Valley Municipal Water District

Douglas Headrick, San Bernardino Valley Municipal Water District

Lillian Hernandez, San Bernardino Valley Municipal Water District

The Groundwater Council meeting was called to order by Tom Crowley at 10:02 a.m. at the San Bernardino Valley Municipal Water District office, 380 E. Vanderbilt Way, San Bernardino.

Roll Call was taken and there was not a quorum for voting purposes. The meeting proceeded with the following agenda items.

Agenda Item 1. Approval of Minutes.

1. May 14, 2018, Meeting.

Douglas Headrick moved to approve the minutes of the May 14, 2018, Groundwater Council meeting. Jarb Thaipejr seconded. The motion was unanimously adopted.

Agenda Item 2. New Business.

1. **Consider Request from Fontana Water Company to join the Groundwater Council.**
 Douglas Headrick reported that San Bernardino Valley Municipal Water District (SBVMWD) settled a lawsuit with Fontana Water Company and its subsidiary San Gabriel Valley Water District. The settlement was signed five years to the date of the filing of the lawsuit. The City of Rialto and City of Colton are still in negotiations for a settlement. Fontana Water Company (FWC) agreed to pay all their costs for production out of the Lytle Creek Basin. The first priority of any monies that FWC pays goes to meet their obligations under the Groundwater Council (GC) Agreement. They are prepared and they would like to become a member of the GC since they have agreed to pay all their costs out of the assessment that they will be paying for all water produced out of Lytle Creek. For this year it was estimated that would be approximately 12 percent of the average amount that FWC will be paying each year. The remaining 88 percent of funds will go into a fund that will purchase water that will replenish the Rialto Basin. It is estimated to take 10 years to pay for all of the Rialto Basin over extractions and then after that it will be GC. The San Bernardino Basin Area (SBBA) will still be priority number one but then that money will be available for either Lytle Creek Basin recharge and/or facilities or Rialto Basin recharge or facilities. Since FWC agreed to dedicate part of the assessment to the GC, Mr. Headrick believes that the GC should agree to allow FWC to join the GC.

Mr. Headrick met with the City of Redlands regarding joining the Groundwater Council (GC). He indicated that the City is involved in a rate study and should have a rate structure in place by mid-2019 that would support joining the GC.

Mr. Headrick indicated that the SBVMWD Board of Directors is working with WVWD's Board of Directors on a separate agreement that would authorize WVWD to pay the charges from the equitable allocation model for recharge but not the Operations and Maintenance (O&M) part that come out of the model. WVWD is uncomfortable with the way that calculation is done. They are willing to pay O&M but just on the west side of the basin. Mr. Headrick believes there is a way to incorporate WVWD into the agreement concept without WVWD actually signing the GC agreement. It appears that WVWD will agree to pay their charges for water as if they were a part of the GC but as far as O&M charges there will be a separate calculation that only includes O&M costs for the west part of the basin. This would be in effect for 5 years.

2. **Consider Developing Procedures for the Delivery of Groundwater Council Water.**
 Bob Tincher requested that the GC consider forming an Operations Committee to consider where to recharge water. He indicated that Jeff Nolte from East Valley Water District was interested in being the Chair of the Operations Committee. Standing members would include Russ Handy from the City of Loma Linda; Steve Miller from the

SBMWD; Katelyn Scholte from the San Bernardino Valley Water Conservation District (SBVWCD); and staff from SBVMWD.

Agenda Item 3. Regular Business.

1. Budget Committee.

- A. **Status of Invoices and Payments, Timing and Recordkeeping.** Daniel Cozad stated that they billed a little earlier in the year so a summary was available to the group. The O&M fees were paid by everyone who signed the GC agreement which totaled \$481,377. A few members continue to pay the groundwater charge. Keeping track long-term of under and over payments was discussed in the previous item.

Cindy Saks stated invoices would be going out for the water portion that was the acre feet that was on the GC equitable allocation sheet. The District has some customers that pre-pay so on their invoices it shows their equitable allocation, additional water purchases, and then a credit received. They will have to keep separate what water was delivered under that plan versus other water that was purchased. It was billed at \$118.40 per acre-foot which is the District's current rate for groundwater recharge with the discount so that is what will be collected. If there are other charges that will be classified as GC water and it is direct delivery, it may be billed at the \$125.00 per acre-foot rate so an additional bill could be forthcoming. The invoices indicate it is water purchased for 2018. The invoice for 2018-2019 will be sent out in July 2019 when all pertinent information has been received. The District will continue to take pre-payments in January 2019 if anyone desires to do that. The District has a separate agreement for the Baseline Feeder with the City of Rialto and WVWD so they are being charged monthly for water that is being used for obligations through the Baseline Feeder per the agreement with the City of San Bernardino. That water will be recharged and a credit will appear for them on their groundwater account.

2. Governance Committee.

- A. **Report from April 24, 2018, Meeting.** Douglas Headrick indicated that the Governance Committee had not met recently. They have not found any additional duties for the Executive Committee. They tasked the Budget Committee with developing audit procedures. The web based information portal is live and the agendas and minutes are being posted to it. They have not completed development of telephone participation rules.

3. Agreement Approvals.

- B. **Update on Agreement Approvals.** Mr. Headrick reported on this item earlier in the agenda. Participation by Southern California Edison is pending.

4. Imported Water Availability.

A. Update on Imported Water Availability. Bob Tincher stated that SBVMWD has not received their initial Table A allocation information.

5. Groundwater Council Website. Mr. Headrick drew attention to the website address for the GC.

Agenda Item 4. Other Business.

The next regularly scheduled Groundwater Council Meeting will be on December 10, 2018, at 10:00 a.m. at San Bernardino Valley Municipal Water District, 380 E. Vanderbilt Way, San Bernardino, CA 92408.

Agenda Item 5. Adjournment.

There being no further business, President Crowley adjourned the meeting 11:04 a.m.

APPROVAL CERTIFICATION	
I hereby certify to approval of the foregoing Minutes of the Groundwater Council.	

Secretary	_____
Date	_____

Respectfully submitted,

Lillian Hernandez
Board Secretary

SAN BERNARDINO BASIN GROUNDWATER COUNCIL

BUDGET COMMITTEE POLICY

~~FINAL Approved May 18, 2018~~ Proposed Edits 12/10/18

This policy document was prepared by the Budget Committee (BC) to provide operating policy, rules, and guidelines for the Committee and the San Bernardino Basin Groundwater Council (GC) related to budget, fiscal, and reporting issues. The following members participated in the development of the policy.

John Mura, East Valley Water District
Daniel Cozad, SBV Water Conservation District
Miguel Guerrero, City of San Bernardino Municipal Water Department

This document was presented to the GC at its April 9, 2018, and was approved at the May 14, 2018, GC meeting.

Committee Policy, Rules, and Practices

1. COMMITTEE APPOINTMENTS AND ELECTION OF CHAIR

- a. The GC will appoint members to serve on the BC. The BC recommends that the GC appoint two new members for one-year terms and one incumbent member for an additional one-year term, so at least one member has served on the BC in the prior year. No member shall serve more than two consecutive one-year terms.
- b. The BC will elect a Chair and communicate this election to the President of the GC in its Action Minutes.

2. MEETING AND GENERAL ISSUES

- a. The Chair will schedule in person or telephone conference meetings at dates and times to meet the needs of the BC.
- b. BC meetings, to the extent possible, will be noticed so other members can participate if they wish.
- b.c. The BC will develop and revise an audit procedure for the GC to be implemented by the GC.

3. BUDGET DEVELOPMENT AND FINDINGS

The BC is documenting the development process and efforts undertaken in the following areas to cover the requirements and sources of information for each finding that is listed in Section 4.6 of the GC Framework Agreement. Table 1 identifies the sources, timing, and processing of data needed to update the Equitable Allocation Model (EAM) each year. The committee will meet in November each year to ensure all information has been collected from the prior year for the EAM update. The original EAM developed for approval of agreement uses certified Watermaster and other data from 2016. The EAM

will be one year in arrears for allocation. SBVMWD and SBVWCD will provide budget information and backup for the development of the budget for Water Purchase and O&M.

- a) Amount of imported or other water supplies to be acquired will be calculated in the EAM in accordance with Exhibit B of the GC Framework Agreement. This information will be combined into a summary table similar to the one shown in Attachment A-1 to this policy.
- b) Estimated O&M costs and any supporting information will be prepared by the SBVWCD in coordination with any other entity performing O&M on recharge basins for the BC. This information will be combined with costs for imported or other water supplies and incorporated into the summary table similar to Attachment A-2 to this policy.
- c) The BC, in November, will coordinate with the BTAC Engineering Subcommittee recommended application or distribution of imported water locations and quantities based on the EAM. This would be developed by the BTAC Engineering Subcommittee and will be incorporated into a summary table and map similar to the one shown in Attachment B to this policy.
- d) The BC, at its first meeting, will discuss and determine if any administrative costs for the GC operations should be included in the budget and assess collection and uses. No administrative costs are budgeted, but if costs are planned in future years, they would be incorporated into Attachment A-2.
- e) Finally, based on the EAM, a proposed allocation of costs for Water Purchase and O&M will be determined and shown in summary in Attachment A-2.

4. BUDGET PROCESS AND TIMING

In accordance with Section 4.6.2 and 4.6.3 of the GC Framework Agreement, the BC recommends the following schedule for development of the background surface and groundwater data needed to update the EAM and budget development.

- October – Staff collect Watermaster and other data identified in Table 1 and process and review it to update the EAM. Much of this data should be included in the annual basin groundwater report. If needed, the GC will coordinate with the BTAC Engineering Subcommittee.
- November/~~December~~ – BC meets to review EAM and preliminary water purchase and O&M budgets, as well as any other preliminary information needed to form the preliminary budget.
- February – BC meets to review EAM, projected water purchase, O&M budgets and recommend a draft send the preliminary budget to the GC.
- February/March – BC presents the EAM and budget to the GC, incorporates comments or changes and prepares a final budget for GC member budgets
- April/May – GC meets to approve the GC budget formally

- July – SBVMWD and SBVWCD send invoices for EAM allocated member costs.
- September /October – GC meets to review actual revenue and expenses and plan for the next year’s budget. The GC may provide an informal or formal report on actual income and expenses for the prior year.

A request for a Budget Amendment may be made by any member of the GC to the Chair of the BC for consideration at its next meeting. Budget amendments may be rare but are likely the result unexpected circumstances or changes in hydrology or member participation.

5. COLLECTION PAYMENT AND REPORTING

In accordance with the GC Framework Agreement, SBVMWD will collect Water Purchase funds from members in a procedure described below:

After approval of the GC Budget and July 1 of each year, SBVMWD will prepare an invoice for the Water Purchase component of the GC’s EAM for each participating agency. This invoice will be due within 60 days from the date of the invoice unless the entity has requested and the Executive Committee (President, vice president, and secretary) or GC has approved another payment term. Should another payment term be accepted, the amount due will be collected with those terms. If the payment is not made within the appropriate time, a late notice shall be prepared and sent to the agency and reported to the BC and GC President. If the GC approves terms where an agency can hold funds to be remitted at a later date, the entity will remit a warrant or credit letter committing to remit the funds within 30 days of a request for remittance plus any interest or fee the GC approves. Funds received from members or interest shall be segregated into a separate GC Water Purchase account or fund which allows the SBVMWD to account and report on the transactions of the fund apart from other SBVMWD funds.

In accordance with the Framework Agreement SBVWCD will collect O&M funds from members in a procedure described below:

After the GC approves the annual budget and shortly after July 1 of each year, SBVWCD will prepare an invoice for each agency assigned O&M contribution from the EAM and approved Budget. This invoice will be due within 60 days from the date of the invoice unless the entity has requested and the Executive Committee or GC has approved another payment term. Should another payment term be accepted, the amount due will be collected with those terms. If the payment is not made within the appropriate time, a late notice shall be prepared and sent to the agency and reported to the BC and GC President. Funds received shall be segregated into an account which allows the SBVWCD to account for and report this income separately from other SBVWCD funds.

Both SBVMWD and SBVWCD will collaborate to prepare a financial report for the GC on a monthly basis or for each meeting of the GC. The report will show amounts collected from each member for O&M and Water Purchase and any expenses paid for imported water or held and invested for future purchases.

6. INVESTMENT OF FUNDS FOR WATER PURCHASE

As members remit funds to SBVMWD in accordance with the procedures above, it is likely in some years some funds will be in excess of that needed for Water Purchase. SBVMWD shall invest any funds in excess of those required in interest-bearing investments in accordance with SBVMWD's then applicable Investment Policy. Interest earned by these funds shall accrue to the GC Water Purchase Fund. Should other remittance terms be needed by members, those terms would be approved by the Budget Committee and or Executive Committee, and interest potentially collected from such terms should not exceed that actually earned by funds invested from the Water Purchase Fund.

7. AUDIT PROCEDURE AND IMPLEMENTATION

The GC requested the BC develop an Audit Approach and Procedure for the GC. The committee prepared and reviewed a draft procedure which as reviewed by the GC on December 10, 2018, and approved. The approach and procedure were incorporated into the BC policy at Attachment B to this document. The procedure will be implemented upon the request of the GC and an Ad Hoc Audit committee will be implemented by the committee with support as requested.

Appendix B -Groundwater Council Equitable Allocation Audit Approach and Procedure

The purpose of this approach and procedure is to provide an overview and guidelines for the review of the data and accounting used in the Groundwater Council's (GC) Equitable Allocation Method (EAM).

Audit Approach and Initiation:

A member of the Groundwater Council may request that the Budget Committee perform an audit of the EAM groundwater or accounting data as often as annually, or for a significant change in the agreed upon version of the EAM. The Budget Committee will hold a meeting to discuss the audit and may include any member that requests an audit. If it is an audit of the EAM data and calculation, the meeting will also have the EAM preparer and a Watermaster Report preparer. If the audit is of the accounting procedures, a representative of SBVWCD accounting and SBVMWD accounting will attend the meeting.

Accounting Audit:

For the audit of billing and payments for the current year and previous years the committee through its staff will review and verify billing and payments in the following process:

1. The invoiced amounts for imported water and operations and maintenance will be compared to the calculated amounts in the EAM and verify that each is appropriately billed and credited. If there are questions about the coordination of payments with other programs review of the following information may be requested:
 - a. SBVMWD shall provide additional accounting information in such as an agency's previous payments for water under the Groundwater Council and the total amounts collected for all agencies plus interest. SBVMWD may also provide information regarding the amount of water delivered at specific turnouts for an agency.
 - b. SBVWCD shall provide additional information regarding operations and maintenance expenses and an agency's previous payments for operations and maintenance under the Groundwater Council or any payments previously paid under the District's statutory Groundwater Charge.
 - c. Other information needed may be sought by the committee.

EAM Data Audit:

Prior to the audit meeting the EAM preparer and a Watermaster Report preparer should both verify that all data from reports was entered correctly into the EAM spreadsheets and any changes or adjustments noted for the committee. To validate the EAM Budget and billings the committee or staff assisting it should perform the following steps:

1. Review of the data sources identified in table 1 (attached) and EAM calculations in the spreadsheets and discussed by the committee.
2. Any data that is questioned or potential errors determined for a specific data point or source will be resolved in different manners based on the type of data and source of the data:

Appendix B -Groundwater Council Equitable Allocation Audit Approach and Procedure

- a. Western San Bernardino Watermaster: Most of the data used in the EAM comes from the annually published Western San Bernardino Watermaster Report. Water usage is reported by the individual agencies to the Watermaster. Should an error be suspected with this data, verification should be completed by the Watermaster first and then if the question is not resolved should involve the individual reporting agencies. A correction to the Watermaster Report should be published prior to data entry into the EAM to ensure the data is still properly sourced. Data entry into the EAM should be reviewed by a person with knowledge of the Watermaster Report.
- b. Regional Urban Water Management Plan: Actual 2015 recycled water data is pulled from the RUWMP. This data is reported by individual agencies to SBVMWD as part of the creation of the plan. Should an error be suspected with this data, verification should occur with SBVMWD first and then the individual reporting agencies. A correction to the RUWMP should be published prior to data entry into the EAM to ensure the data is still correctly sourced. Data entry into the EAM should be reviewed by a person with knowledge of the RUWMP Report. Changes to the RUWMP require the approval of the Boards of the Agencies and should be recommended by the Groundwater Council.
- c. SBVMWD Operations and Accounting: Data from SBVMWD operations reports and accounting reports are used for imported water usage and in-lieu delivery calculations. Accounting data amounts include the amount of imported water purchased by individual agencies. This amount can be verified with the individual agencies and verified against their accounting procedures or audits. Operations related water amounts include data compiled from SBVMWD SCADA system. If an error is suspected in this data, it may be comparable to SBVWCD DFR data or individual agency data records.
- d. SBVWCD Daily Flow Report: The Daily Flow Report (DFR) is performed by SBVWCD staff every business day and is distributed to the agencies within the area. Numbers on the Daily Flow Report are a snapshot of water at a given location at the time of the read, usually very early in the morning, and not necessarily what is at that location throughout the day. Data is stored as original PDF files, hard copies, and within a database at SBVWCD. Data is copied and pasted directly from the DFR database for calculation of North Fork additional spreading. If an error is suspected, data should first be checked with the PDF file then the hardcopy. If an error is suspected in an individual reading, data should be compared to SBVMWD or EVWD SCADA where available.
- e. Individual Agency Operations: Agencies that provide data from their operations include the following:
 - City of Redlands Tate Treatment Plant effluent
 - City of Redlands (Redlands) recycled water usage
 - City of Rialto recycled water usage
 - East Valley Water District (EVWD) Treatment Plant effluent

Data accuracy can be verified with the individual agency. Recycled water is also reported every five years as part of the RUWMP. Surface water usage for both Redlands and EVWD goes through Bear Valley Mutual Water Company (BVMWC) and agreements with North

Appendix B -Groundwater Council Equitable Allocation Audit Approach and Procedure

Fork Water Company. Surface water usage could be verified with BVMWC share ownership, North Fork Water delivery amounts, DFR data, and/or SBVMWD and EVWD SCADA.

3. If an error is found with the calculation methodology, the Budget Committee will prepare an update to the EAM and present it to the Groundwater Council for Approval.

Audit Conclusion and Report

At the end of the Committee's review process the committee shall take the following actions:

- A. Summarize the Actions of the Committee, Staff, and others related to the audit
- B. Direct staff to prepare a brief report of the summary including
 - a. Findings, Errors or revisions identified in the audit
 - b. Recommendations for corrections or changes
 - c. Credits or debits to the payment record of agencies
- C. Recommendations to the Groundwater Council

Appendix B -Groundwater Council Equitable Allocation Audit Approach and Procedure

Table 1 Data used in the EAM:

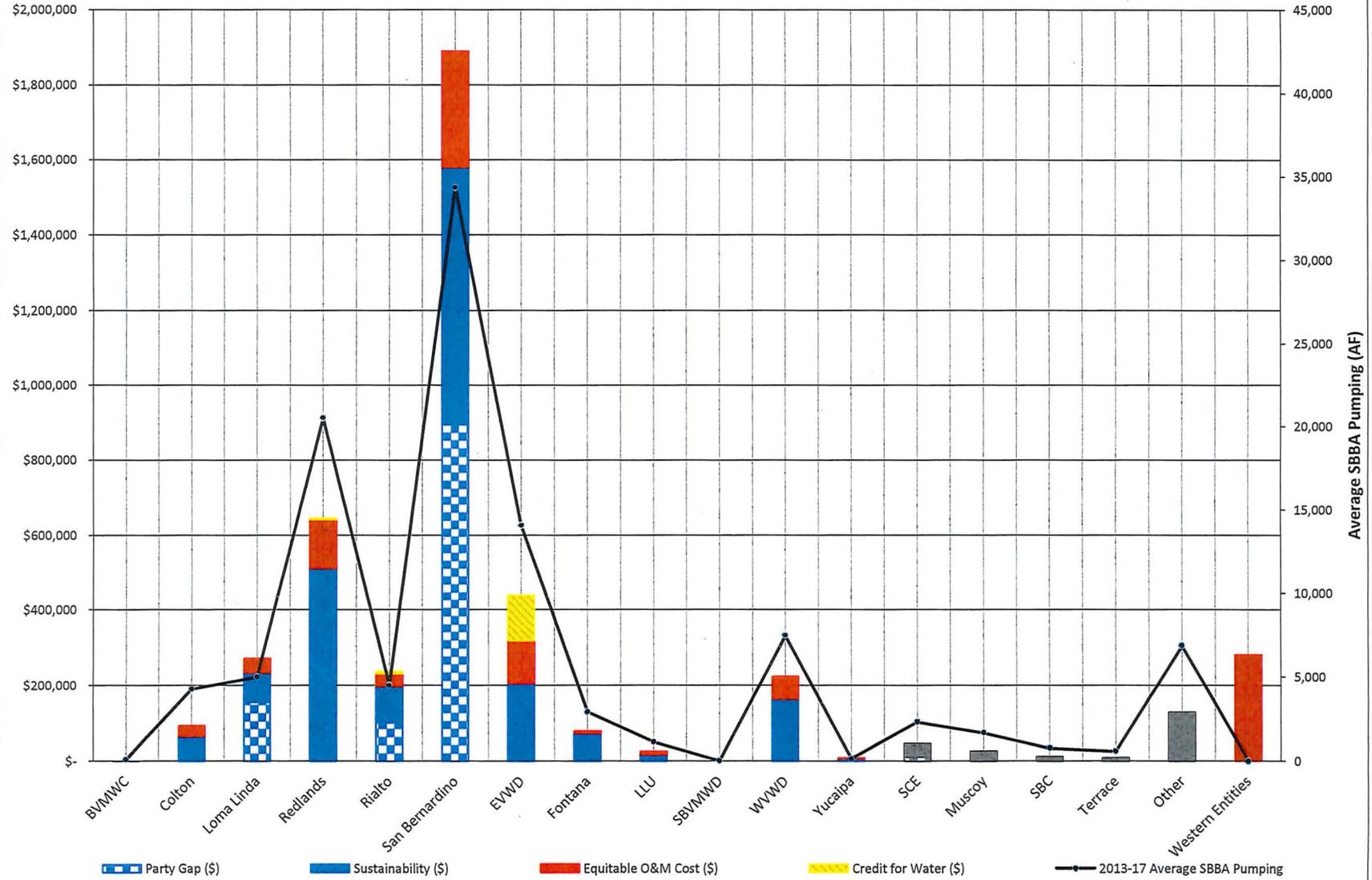
Below is a list of all the data and sources used in the EAM:

Data	Source	Use	Expected Availability
Groundwater			
Verified Total Extractions	Watermaster Report Volume 1 Table 3	Gap/O&M	August
Pumping Adjustments	SBVMWD Calculation	Gap/O&M	Spring
Other Distribution of Verified Extractions	Watermaster Report Volume 1 Change in Ownership from Base Period	Base Period Gap	Existing
BVMWC Base Period Wells	1971 Watermaster Volume 1 Table 1	Base Period Gap	Existing
BVMWC Well Usage	Watermaster Report Volume 1 Table 1	Gap/O&M	August
Imported Water			
Imported Water Spreading Delivery	SBVMWD Orders and Accounting	Gap	Spring
Imported Water Direct Delivery	SBVMWD Orders and Accounting	Gap	Spring
Lytle Creek Surface Water			
FUWC	Watermaster Report Volume 7 Table 1	Gap/O&M	August
Cemex	Watermaster Report Volume 7 Table 1	Gap/O&M	August
City of Rialto	Watermaster Report Volume 7 Table 3	Gap/O&M	August
West Valley Water District	Watermaster Report Volume 1 Table 7	Gap/O&M	August
Mt Vernon Water	Watermaster Report Volume 1 Table 7	Gap/O&M	August
City of San Bernardino	Watermaster Report Volume 1 Table 7	Gap/O&M	August
Mill Creek Surface Water			
Yucaipa Regional Park and Wilson Creek	Watermaster Report Volume 1 Table 5	Gap/O&M	August
Redlands Tate Filter Plant	Watermaster Report Volume 1 Table 5	Gap/O&M	August
Redlands Upper Mill Creek Wells	Watermaster Report Volume 1 Table 5	Gap/O&M	August
Cooley Hat Deliveries	Watermaster Report Volume 1 Table 7	Gap/O&M	August
Tate Pump Station	Watermaster Report Volume 1 Table 5	Gap/O&M	August
Transfer of Mill Creek to BV Highline	Watermaster Report Volume 1 Table 5	Gap/O&M	August
Transfer of SAR Water to Zanja	Watermaster Report Volume 1 Table 5	Gap/O&M	August
Crafton Water Company Zanja	Watermaster Report Volume 1 Table 5	Gap/O&M	August
SBVMWD Unger Lane Turnout	Watermaster Report Volume 1 Table 5	Gap/O&M	August
Santa Ana River Surface Water			
Edwards Canal	Watermaster Report Volume 1 Table 6	Gap	August
Northfork Canal	Watermaster Report Volume 1 Table 6	Gap	August
Diversions Morton Canyon Connection	Watermaster Report Volume 1 Table 6	Gap	August
Redlands Canal Weir at Sandbox	Watermaster Report Volume 1 Table 6	Gap	August
Bear Valley Highline	Watermaster Report Volume 1 Table 6	Gap	August
Greenspot Pipe Line	Watermaster Report Volume 1 Table 6	Gap	August
Water Received at Hinckley	Redlands Operations	Gap	Spring
SWP Delivered to Hinckley	SBVMWD Orders and Accounting	Gap	Spring
SARC to Redlands Aqueduct Sandbox	SBVMWD Operations	Gap	Spring
BVMWC SWP Purchases	SBVMWD Accounting	Gap	Spring
In-Lieu Wells	SBVMWD Operations	Gap	Spring
In-Lieu SWP Water Total	SBVMWD Operations	Gap	Spring
North Fork In-Lieu	SBVMWD Operations	Gap	Spring
Base Period Santa Ana River Diversions	BVMWC and Watermaster	Base Period Gap	Existing
Redlands Tunnel Base Period	1971 Watermaster Volume 1 Table 2	Base Period Gap	Existing
EVWD Actual SAR deliveries to Plant	EVWD Operations	Gap	Spring
Regional Supplies Provided By Agencies			
Recycled Water	RUWMP/ Individual Agency	Gap/Regional Credit	Existing/Spring
North Fork Spreading	SBVMWD Daily Flow Report	Regional Credit	Spring
Tate Treatment Plant Spreading	Watermaster Volume 1 Table 5	Regional Credit	August

Groundwater Council Equitable Allocation Budget for 2018

Agency	Party Gap 2018 (\$)	Sustainability 2018 (\$)	Equitable O&M Costs 2018 (\$)	Total Party Costs 2018	Cost Increase from 2017 (\$)	Voting Weight 2018
Bear Valley Mutual Water Company	\$ -	\$ 242	\$ 116	\$ 358	\$ 237	0.01%
City of Colton	\$ -	\$ 64,967	\$ 28,198	\$ 93,165	\$ (21,951)	2.4%
City of Loma Linda	\$ 155,415	\$ 77,528	\$ 37,210	\$ 270,154	\$ 15,506	6.9%
City of Redlands	\$ -	\$ 511,258	\$ 129,025	\$ 640,283	\$ (35,873)	16.5%
City of Rialto	\$ 100,635	\$ 95,866	\$ 31,823	\$ 228,325	\$ (94,582)	6.0%
City of San Bernardino	\$ 892,891	\$ 686,104	\$ 310,343	\$ 1,889,338	\$ 473,250	48.4%
East Valley Water District	\$ -	\$ 204,718	\$ 111,660	\$ 316,378	\$ (127,177)	11.2%
Fontana Union Water Company	\$ -	\$ 73,306	\$ 5,086	\$ 78,392	#N/A	2.0%
Loma Linda University	\$ -	\$ 17,134	\$ 7,266	\$ 24,400	\$ (6,833)	0.6%
San Bernardino Valley M.W.D.	\$ -	\$ -	\$ -	\$ -	\$ -	0.0%
West Valley Water District	\$ -	\$ 163,152	\$ 58,964	\$ 222,116	\$ (40,787)	5.7%
Yucaipa Valley Water District	\$ 4,457	\$ 1,982	\$ 807	\$ 7,246	\$ (7,370)	0.2%
Total GC Parties:	\$ 1,153,398	\$ 1,896,257	\$ 720,500	\$ 3,770,154	\$ 230,825	100%
Mountain View Power Co.	\$ 10,601	\$ 35,099	#N/A	\$ 45,700	\$ (23,836)	#N/A
Muscoy Mutual Water Company No. 1	\$ -	\$ 25,250	#N/A	\$ 25,250	\$ (7,259)	#N/A
San Bernardino County - Facility Management	\$ -	\$ 11,331	#N/A	\$ 11,331	\$ (3,182)	#N/A
Terrace Water Company	\$ -	\$ 8,485	#N/A	\$ 8,485	\$ (3,422)	#N/A
Other San Bernardino Extractions	\$ -	\$ 127,879	#N/A	\$ 127,879	\$ (45,158)	#N/A
San Bernardino Non-Parties Total:	\$ 10,601	\$ 208,044	\$ -	\$ 218,645	\$ (82,856)	0%
Western Entities Total:	\$ -	\$ -	\$ 279,500	\$ 279,500	\$ 29,745	0%
Total:	\$ 1,163,999	\$ 2,104,301	\$ 1,000,000	\$ 4,268,300	\$ 177,714	100%

BTAC Recommended Equitable Cost-Sharing Method for Sustainability in the SBBA Annual O&M and SWP for Ultimate Sustainability (2040)



DRAFT Calculation for 2018

1 Calculation for 2018									
2		3 Precipitation Adjustment		4 Recharge		5 Direct Use		6 SWP Cost (\$/AF)	
		0%		35%		100%		11%	
		Sustainable Amount (AF)		Budgeted Water Cost		Budgeted O&M Cost		Budgeted Admin Costs	
		28,823		\$ 3,401,214		\$ 1,000,000		-	
		Base Period Safe Yield		Non-Plaintiff		Plaintiff		Present Period Safe Yield	
		72.00%		167,238		5,307		172,745	
		27.93%		64,862		2,136		66,998	

9 Base Period																			
1959-63																			
1959-2016 Base Period SBBB Production (AF)																			
Total Average Use, 1959-2016																			
Safe Yield Distribution																			
Total SBBB Demand 2016																			
Groundwater																			
Average Surface Water																			
Total Base Period																			
Agency	Abbreviation	1959	1960	1961	1962	1963	1959-63 Average GW + SW (AF)	Other Distribution	Recycled Water (AF)	1959-2016 Total Average Use (AF)	% of Total	Safe Yield (AF)	Safe Yield % of Total	SW (AF)	GW (AF)	Demand (AF)	GW (AF)	SW (AF)	GW (AF)
10 Bear Valley Mutual Water Company	BVMWC	16,855	13,583	14,273	11,028	9,831	13,214	574	-	13,807	7.77%	12,996	5.60%	8,344	4,652	11,054	4,652	8,344	1,938
11 City of Colton	Colton	3,814	3,056	3,205	3,743	3,267	3,347	-	-	3,347	1.88%	3,150	1.39%	-	3,150	3,842	2,150	-	693
13 City of Loma Linda	Loma Linda	0	0	0	0	0	-	1,795	335	3,970	1.13%	1,855	0.80%	-	1,855	5,070	1,855	-	(1,155)
14 City of Redlands	Redlands	19,578	19,941	18,736	20,758	16,076	19,098	7,092	2,068	28,258	15.90%	26,598	11.46%	6,864	19,735	(28,978)	19,735	6,864	(2,179)
15 City of Rialto	Rialto	1,659	795	959	1,068	1,397	1,176	833	-	2,008	1.13%	1,890	0.83%	617	1,273	(5,577)	1,273	617	(3,647)
16 City of San Bernardino	SBMWD	17,268	16,099	18,448	12,575	16,656	17,269	3,468	-	20,637	11.62%	19,425	8.37%	1,206	18,219	(42,383)	18,219	1,206	(27,860)
17 East Valley Water District	EVWD	6,399	6,794	7,528	6,998	7,354	7,015	7,708	-	14,723	8.29%	13,858	5.97%	57	13,800	(18,053)	13,800	57	(4,795)
18 Fontana Union Water Company	FWC	19,841	15,649	13,295	14,674	12,086	15,109	-	-	15,109	8.50%	14,221	6.13%	6,688	7,533	(4,112)	7,533	6,688	10,109
19 Loma Linda University	LLU	1,013	1,116	1,202	1,166	901	1,079	-	-	1,079	0.61%	1,038	0.44%	-	1,038	(990)	1,038	-	26
20 Mountain View Power Co.	MVPC	1,610	1,219	1,425	795	744	1,105	744	-	1,105	0.62%	1,040	0.45%	-	1,040	(1,895)	1,040	-	(845)
21 Mussey Mutual Water Company No. 1	MMWC	1,943	1,870	2,028	1,863	1,684	1,878	-	-	1,878	1.06%	1,767	0.76%	-	1,767	(1,652)	1,767	-	115
22 San Bernardino County - Facility Management	SBCC	636	615	809	564	386	602	835	-	1,427	0.80%	1,344	0.58%	-	1,344	(841)	1,344	-	503
23 San Bernardino Valley M.W.D.	SBVMWD	0	0	0	0	0	0	-	-	0	0%	-	0%	-	-	-	-	-	0
24 Terrace Water Company	Terrace	1,218	921	1,077	1,013	899	1,045	899	-	1,045	0.59%	984	0.42%	-	984	(664)	984	-	320
25 West Valley Water District	WVWD	13,584	12,090	13,587	11,331	11,897	13,486	-	-	13,486	7.03%	11,792	5.06%	3,588	8,105	(10,476)	8,105	3,588	1,276
26 Yucalpa Valley Water District	YVWD	0	0	0	0	0	0	-	-	0	0.00%	-	0.00%	-	-	(110)	-	-	(110)
27 Other Non-Plaintiff Extractions	Other	85,866	79,574	84,089	81,724	79,895	81,030	(22,255)	-	58,795	33.00%	55,941	23.84%	5,886	49,455	(7,197)	49,455	5,886	48,144
28 Non-Plaintiff Total:		195,952	173,832	190,762	174,828	157,454	175,372	-	2,303	177,675	100%	167,238	72.05%	33,250	333,594	(40,134)	333,594	33,250	24,044
29 Plaintiff Total:		70,973	64,967	70,944	63,162	65,943	64,862	-	-	64,862	100%	64,862	27.95%	-	-	-	-	-	-
30 Total:		266,925	238,799	261,706	237,990	213,417	240,234	-	-	242,537	100%	232,100	95.56%	33,250	336,850	-	333,594	33,250	24,044

36 Current (last 5 years)																			
2013-17 (5 years)																			
Present Period Net SBBB GW + SW Production (AF)																			
Total Average Use, 2013-17 (AF)																			
Safe Yield Distribution																			
Total SBBB Demand																			
Groundwater																			
Average Surface Water																			
Recycled Water (RUWMP, 2015)																			
Total Present Period																			
Agency	Abbreviation	2013	2014	2015	2016	2017	Average SBBB Use 2013-17 (AF)	SWP (AF)	Recycled Water (AF)	Party Water (AF)	% of Total	Safe Yield (AF)	Safe Yield % of Total	SW (AF)	GW (AF)	Demand (AF)	GW (AF)	SW (AF)	GW (AF)
38 Bear Valley Mutual Water Company	BVMWC	9,686	2,901	5,086	7,252	11,058	7,196	1,941	-	8,738	5.6%	9,695	4.04%	5,194	4,501	(11,048)	4,501	5,194	-
39 City of Colton	Colton	5,170	4,879	4,405	3,044	3,842	4,268	-	-	4,268	2.7%	4,796	1.98%	-	4,796	(3,842)	4,796	-	894
40 City of Loma Linda	Loma Linda	5,371	5,449	4,078	4,206	5,070	4,993	160	-	5,093	3.2%	5,651	2.36%	-	5,651	(5,070)	5,651	-	581
41 City of Redlands	Redlands	34,867	37,770	27,473	22,846	28,849	30,361	465	3,092	33,858	21.7%	37,568	15.67%	9,858	27,710	(28,978)	27,710	9,858	3,032
42 City of Rialto	Rialto	6,774	8,132	5,216	4,417	3,149	5,334	1,228	24	6,990	4.4%	7,534	3.14%	1,045	6,488	(5,577)	6,488	1,045	24
43 City of San Bernardino	SBMWD	39,378	43,085	33,502	23,548	33,100	34,331	10,743	-	45,073	29.0%	50,011	20.86%	-	50,011	(42,383)	50,011	-	7,728
44 East Valley Water District	EVWD	24,062	21,162	18,833	12,933	15,985	19,395	2,016	-	21,411	13.8%	20,796	8.61%	1,615	18,466	(14,653)	18,466	1,615	5,103
45 Fontana Union Water Company	FWC	8,026	5,930	3,763	2,650	4,112	4,816	316	-	5,343	3.1%	5,743	2.23%	1,906	3,437	(4,112)	3,437	1,906	964
46 Loma Linda University	LLU	1,174	1,281	1,164	1,019	990	1,126	-	-	1,126	0.7%	1,249	0.52%	-	1,249	(990)	1,249	-	259
47 Mountain View Power Co.	MVPC	2,398	2,658	2,372	2,012	1,889	2,306	-	-	2,306	1.5%	2,538	1.07%	-	2,538	(1,889)	2,538	-	669
48 Mussey Mutual Water Company No. 1	MMWC	1,778	1,739	1,931	1,534	1,652	1,659	1,659	-	1,659	1.1%	1,841	0.77%	-	1,841	(1,652)	1,841	-	189
49 San Bernardino County - Facility Management	SBCC	973	-	647	458	841	744	-	-	744	0.5%	826	0.34%	-	826	(841)	826	-	(15)
50 San Bernardino Valley M.W.D.	SBVMWD	-	-	-	-	-	-	-	-	-	0.0%	-	0.0%	-	-	-	-	-	0
51 Terrace Water Company	Terrace	770	660	479	420	464	557	-	-	557	0.4%	618	0.26%	-	618	(664)	618	-	154
52 West Valley Water District	WVWD	11,089	11,356	10,286	8,717	9,226	9,731	987	-	10,718	6.9%	11,892	4.96%	2,290	9,602	(10,476)	9,602	2,290	1,410
53 Yucalpa Valley Water District	YVWD	200	154	0	163	190	190	-	-	190	0.1%	144	0.06%	-	144	(163)	144	-	34
54 Other San Bernardino Extractions	Other	8,830	9,919	8,103	7,956	6,256	8,113	188	-	8,401	5.4%	9,321	3.89%	1,378	7,943	(7,197)	7,943	1,378	2,124
55 San Bernardino Entities Total:		166,745	157,478	126,746	101,213	130,593	135,363	17,269	3,056	155,668	100%	172,745	72.05%	26,981	145,763	(40,134)	145,763	26,981	3,056
57 Western Entities Total:		-	-	-	-	-	-	-	-	-	-	66,998	27.95%	-	-	-	-	-	-
59 Total:		166,745	157,478	126,746	101,213	130,593	202,361	-	-	232,743	100%	239,743	100%	26,981	145,763	-	145,763	26,981	3,056

60 BUDGET - 2018 Calculation									
61									
62									
Agency	Equitable Water Costs	Equitable O&M Costs	Credit (2018)	Total (2018)	Weight Weight				
63 Bear Valley Mutual Water Company	\$0	\$ 118	\$ 358	\$ 476	0.21%				
65 City of Colton	\$ 2.9%	\$ 28,198	\$ 93,165	\$ 121,363	2.4%				
66 City of Loma Linda	\$ 3.5%	\$ 37,210	\$ 270,154	\$ 307,364	6.9%				
67 City of Redlands	\$ 23.0%	\$ 515,388	\$ 644,413	\$ 1,159,801	16.5%				
68 City of Rialto	\$ 4.0%	\$ 103,257	\$ 235,816	\$ 339,073	7.3%				
69 City of San Bernardino	\$ 30.7%	\$ 686,104	\$ 1,889,338	\$ 2,575,442	48.4%				
70 East Valley Water District	\$ 14.6%	\$ 325,911	\$ 437,571	\$ 763,482	11.2%				
71 Fontana Union Water Company	\$ 3.1%	\$ 79,306	\$ 78,392	\$ 157,698	2.0%				
72 Loma Linda University	\$ 0.8%	\$ 17,134	\$ 24,400	\$ 41,534	0.6%				
73 San Bernardino Valley M.W.D.	\$ 0%	\$ 0	\$ 0	\$ 0	0.0%				
74 West Valley Water District	\$ 7.3%	\$ 163,152	\$ 222,116	\$ 385,268	5.7%				
75 Yucalpa Valley Water District	\$ 0.1%	\$ 1,882	\$ 7,246	\$ 9,128	0.2%				
76 Total GC Parties:	\$ 1,153,394	\$ 2,028,071	\$ 3,182,449	\$ 6,363,914	100%				
78 Mountain View Power Co.	\$ 1.6%	\$ 35,099	\$ 45,700	\$ 80,799	1.3%				
79 Mussey Mutual Water Company No. 1	\$ 1.1%	\$ 25,280	\$ 25,250	\$ 50,530	0.8%				
80 San Bernardino County - Facility Management	\$ 0.5%	\$ 11,311	\$ 13,311	\$ 24,622	0.4%				
81 Terrace Water Company	\$ 0.4%	\$ 8,485	\$ 8,485	\$ 16,970	0.3%				
82 Other San Bernardino Extractions	\$ 5.7%	\$ 127,879	\$ 127,879	\$ 255,758	4.0%				
83 San Bernardino Non-Parties Total:	\$ 10,601	\$ 208,044	\$ 218,645	\$ 426,645	6.7%				
85 Western Entities Total:	\$ 0%	\$ 0	\$ 0	\$ 0	0%				
87 Total:	\$ 1,163,995	\$ 2,237,115	\$ 3,401,114	\$ 6,602,224	100%				

18/19

Groundwater Council Equitable Allocation Budget for 2018

2017 Corrections

2017

Agency	Total Due to Date	Total Due to SBVMWD	Total Due to SBVWCD	Water Cost 2018 (\$)	Total Paid to SBVMWD in 2019	Equitable O&M Costs 2018 (\$)	Total Paid to SBVWCD in 2019	Pumping Adjustments Water Correction	Fontana Water Correction	Fontana O&M Correction	Water Cost 2017 (\$)	Total Paid to SBVMWD in 2018	Equitable O&M Costs 2017 (\$)	Total Paid to SBVWCD in 2018
Bear Valley Mutual Water Company	\$ 355	\$ 242	\$ 114	\$ 242	\$ -	\$ 116	\$ -	\$ -	\$ -	\$ (3)	\$ -	\$ -	\$ 121	\$ 121
City of Colton	\$ 88,755	\$ 61,107	\$ 27,648	\$ 64,967	\$ -	\$ 28,198	\$ -	\$ 80	\$ (3,893)	\$ (550)	\$ 91,875	\$ 91,922	\$ 23,240	\$ 23,240
City of Loma Linda	\$ 265,041	\$ 228,682	\$ 36,359	\$ 232,943	\$ -	\$ 37,210	\$ -	\$ 88	\$ (4,295)	\$ (851)	\$ 218,718	\$ 218,772	\$ 35,929	\$ 35,929
City of Redlands	\$ 1,178,634	\$ 1,052,137	\$ 233,254	\$ 511,258	\$ -	\$ 129,025	\$ -	\$ 599	\$ (29,120)	\$ (2,528)	\$ 569,400	\$ -	\$ 106,757	paid
City of Rialto	\$ 220,001	\$ 189,084	\$ 30,917	\$ 196,502	\$ -	\$ 31,823	\$ -	\$ (1,598)	\$ (5,861)	\$ (906)	\$ 284,657	\$ 284,616	\$ 38,250	\$ 38,250
City of San Bernardino	\$ 1,214,686	\$ 910,904	\$ 303,781	\$ 1,578,995	\$ -	\$ 310,343	\$ -	\$ 777	\$ (37,792)	\$ (6,562)	\$ 1,138,924	\$ 1,770,000	\$ 277,164	\$ 277,164
East Valley Water District	\$ 173,217	\$ 63,869	\$ 109,348	\$ 204,718	\$ -	\$ 111,660	\$ -	\$ 374	\$ (18,189)	\$ (2,312)	\$ 345,898	\$ 468,932	\$ 97,656	\$ 97,656
Fontana Union Water Company	\$ 214,561	\$ 194,232	\$ 20,329	\$ 73,306	\$ -	\$ 5,086	\$ -	\$ -	\$ 120,927	\$ 15,243	\$ -	\$ -	\$ -	\$ -
Loma Linda University	\$ 23,213	\$ 16,131	\$ 7,082	\$ 17,134	\$ -	\$ 7,266	\$ -	\$ 20	\$ (994)	\$ (184)	\$ 23,453	\$ 23,482	\$ 7,780	\$ 7,780
San Bernardino Valley M.W.D.	\$ (2,006)	\$ (2,006)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,987)	\$ -	\$ -	\$ 1,987	\$ 2,006	\$ -	\$ -
West Valley Water District	\$ 269,063	\$ 155,729	\$ 113,334	\$ 163,152	\$ -	\$ 58,964	\$ -	\$ 1,402	\$ (8,831)	\$ (1,318)	\$ 207,215	\$ 207,208	\$ 55,688	\$ -
Yucaipa Valley Water District	\$ 7,155	\$ 6,377	\$ 778	\$ 6,439	\$ -	\$ 807	\$ -	\$ 2	\$ (108)	\$ (29)	\$ 13,379	\$ 13,334	\$ 1,237	\$ 1,237
Total GC Parties:	\$ 3,652,677	\$ 2,876,488	\$ 882,945	\$ 3,049,654	\$ -	\$ 720,500	\$ -	\$ (243)	\$ 11,843	\$ -	\$ 2,895,506	\$ 3,080,272	\$ 643,822	\$ 481,377
Mountain View Power Co.	\$ 113,263	\$ 113,263	\$ -	\$ 45,700	\$ -	#N/A	\$ -	\$ 41	\$ (2,014)	\$ -	\$ 69,536	\$ -	#N/A	paid
Muscoy Mutual Water Company No. 1	\$ 56,410	\$ 56,410	\$ -	\$ 25,250	\$ -	#N/A	\$ -	\$ 28	\$ (1,377)	\$ -	\$ 32,509	\$ -	#N/A	#N/A
San Bernardino County - Facility Management	\$ 25,242	\$ 25,242	\$ -	\$ 11,331	\$ -	#N/A	\$ -	\$ 13	\$ (615)	\$ -	\$ 14,513	\$ -	#N/A	#N/A
Terrace Water Company	\$ 19,897	\$ 19,897	\$ -	\$ 8,485	\$ -	#N/A	\$ -	\$ 10	\$ (504)	\$ -	\$ 11,907	\$ -	#N/A	#N/A
Other San Bernardino Extractions	\$ 293,736	\$ 293,736	\$ -	\$ 127,879	\$ -	#N/A	\$ -	\$ 151	\$ (7,332)	\$ -	\$ 173,037	\$ -	#N/A	#N/A
San Bernardino Non-Parties Total:	\$ 508,548	\$ 508,548	\$ -	\$ 218,645	\$ -	\$ -	\$ -	\$ 243	\$ (11,843)	\$ -	\$ 301,502	\$ -	\$ -	\$ -
Western Entities Total:	\$ 279,500	\$ -	\$ -	\$ -	\$ -	\$ 279,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 249,755	paid
Total:	\$ 4,440,724	\$ 3,385,036	\$ 882,945	\$ 3,268,300	\$ -	\$ 1,000,000	\$ -	\$ -	\$ 0	\$ -	\$ 3,197,008	\$ 3,080,272	\$ 893,577	\$ 481,377

paid= O&M charges paid through SBVWCD Groundwater Charge