

### **GROUNDWATER COUNCIL**

### **ZOOM MEETING INFORMATION**

https://sbvmwd.zoom.us/j/85651546434

Meeting ID: 856 5154 6434

Passcode: 3802020

Dial in at:

+1 669 900 6833 US

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### GROUNDWATER COUNCIL MEETING AGENDA

### **MONDAY, FEBRUARY 14, 2022 - 10:00 AM**

### **CALL TO ORDER**

### **ROLL CALL FOR QUORUM**

Bear Valley Mutual Water Company (0), City of Colton (3), City of Loma Linda (8), City of Redlands (8), City of Rialto (10), East Valley Water District (3), Fontana Union Water Company (4), Loma Linda University (1), San Bernardino Municipal Water Department (47), San Bernardino Valley Municipal Water District (0), San Bernardino Valley Water Conservation District (0), West Valley Water District (16), Yucaipa Valley Water District (0)

### **INTRODUCTIONS**

### 1. APPROVAL OF MINUTES

1.1 December 13, 2021, Meeting Minutes
Groundwater Council Meeting Minutes 12-13-2021

### 2. **NEW BUSINESS**

- 2.1 Consider approval of the Draft 2022-2023 Equitable Allocation Model budget EAM Budget FY22-23 DRAFT FEB2022
- 2.2 Consider approval of the Budget Committee Recommendation related to the City of Redlands Bear Valley Mutual Water Company Credit Request

City of Redlands GC Recharge Credit Request - February 8, 2022

Calendar Year 2017 Mill Creek Recharge Redlands data

Calendar Year 2018 Mill Creek Recharge Redlands data

2019 DFR Database Recharge data

2020 DFR Database Recharge data

2021 DFR Database recharge data

2.3 Consider creating a GC Agreement Renewal Committee - to consider policy and technical changes to the GC Agreement and EAM

### 2.4 Status Update on 2022 SWP Water Availability

### 3. OLD BUSINESS

### 4. OTHER BUSINESS

### 5. SET DATE FOR NEXT MEETING

The next regularly scheduled Groundwater Council meeting will be on April 11, 2022, at 10:00am.

### 6. ADJOURNMENT

### MINUTES OF THE GROUNDWATER COUNCIL

### **December 13, 2021**

### **Registered Guests:**

Thomas Crowley, City of Rialto

Daniel Cozad, San Bernardino Valley Water Conservation District

Jeff Noelte, East Valley Water District

T.Milford Harrison, San Bernardino Municipal Water Department

Miguel Guerrero, San Bernardino Municipal Water Department

Bob Tincher, San Bernardino Valley Municipal Water District

Melissa Zoba, San Bernardino Valley Municipal Water District

Wen Huang, San Bernardino Valley Municipal Water District

Adekunle Ojo, San Bernardino Valley Municipal Water District

Jose Macedo, San Bernardino Valley Municipal Water District

Sam Fuller, Bear Valley Mutual Water Company

Jarb Thaipeir, City of Loma Linda

Katelyn Scholte, San Bernardino Valley Water

Linda Jadeski, West Valley Water District

Joseph Zoba, Yucaipa Valley Water District

Jennifer Ares, Yucaipa Valley Water District

Madeline Blua, Yucaipa Valley Water District

Brian Dickinson, City of Colton

Cris Fealy, Fontana Water Company

Mallory Gandara, Western Municipal Water District

Kevin Watson, City of Redlands

John Harris, City of Redlands

Leo Ferrando, Riverside Public Utilities

Marco Bravo, West Valley Water District

Sam Fuller, Bear Valley Mutual Water Company

Michael Plinski, City of Riverside

Paul Mariscal

Russ Handy

The Groundwater Council meeting was called to order by Chairman, Thomas Crowley at 10:03 a.m. by teleconference.

Roll Call was taken and there was a quorum for voting purposes. The meeting proceeded with the following agenda items.

### 1. Approval of Minutes.

### 1.1 October 11, 2021, Meeting.

Bob Tincher moved to approve the minutes of the October 11, 2021, Groundwater Council meeting. Daniel Cozad seconded. The motion was adopted unanimously by a non-roll-call vote.

### 2. New Business.

### 2.1 Review draft FY 22-23 Groundwater Council Budget

Daniel Cozad introduced the FY 22-23 budget. Bob Tincher reminded the group that the current methodology used to establish a recharge amount would yield no annual recharge over the next 5 years. Instead, the group decided on 29000 af until further notice. This change was approved by the required margin of, at least, 80% of the Groundwater council.

Katelyn Scholte provided an overview of the Groundwater Council budget for 2022-2023 and highlighted changes from the previous year.

Mr. Sam Fuller requested an update to the recharge for Bear Valley Mutual Water company. Ms. Katelyn Scholte said she would work with Bear Valley on the potential change.

Ms. Scholte offered to send the detailed spreadsheets out to anyone who would like them, and/or to personally review the data with anyone interested. Mr. Crowley requested the data be sent to the entire council.

Chair Crowley announced the item would be Received and Filed, and a motion by Daniel Cozad was made referencing item 2.3

Mr. Cozad moved that pursuant to section 4.6.3 of the groundwater Council agreement that the budget now be based on the goal of purchasing 29,000-acre feet each year and that the groundwater Council proceed pursuant to section 5.2.2 of the agreement to collect the charges from the groundwater Council members as authorized pursuant to the agreement.

The motion was seconded by Bob Tincher and approved.

### 2.2 Consider Request from the City of Redlands and Bear Valley Mutual Water Company to Receive Credit for Recharge in the San Bernardino Basin

Mr. John Harris with the City of Redlands requested credit for recharge water retroactively back to 2018 when the city joined the GC.

Mr. Fuller, with Bear Valley, then reviewed the Redlands annual recharge of Mill creek and Santa Ana River water. Miguel Guerrero questioned whether this water was "new" to the basin or whether it would have recharged anyway.

Mr.Cozad proposed this issue be discussed during the next budget committee. Any recommendations would be brought back to the GC for consideration.

### 2.3 Update on the Groundwater Council Membership for Non-Council Producers in the San Bernardino Basin

I do not recall any updates under this item

### 2.4 State Water Project Supply Update

Bob Tincher notified the council the current allocation is zero based upon low reservoir levels and dry conditions in Northern California. The allocation will continue to change as we receive rain and snow in Northern California. October was the wettest on record which is a good start to the water year.

### 3. Old Business.

None mentioned

### 4. Other Business.

None mentioned.

### 5. Set Date for Next Meeting

The next regularly scheduled Groundwater Council Meeting will be on February 14, 2021, at 10:00 a.m.

### Agenda Item 4. Adjournment.

Miguel Guerrero motioned to adjourn the meeting, Bob Tincher Seconded the motion, Chairman Crowley adjourned the meeting 11:08 a.m.

APPROVAL CERTIFICATION I hereby certify to approval of the foregoing Minutes of the Groundwater Council.	Respectfully submitted,
Secretary Date	Jose Macedo Chief of Staff/Clerk of the Board

### DRAFT Groundwater Council Equitablle Allocation Budget for FY 2022-23

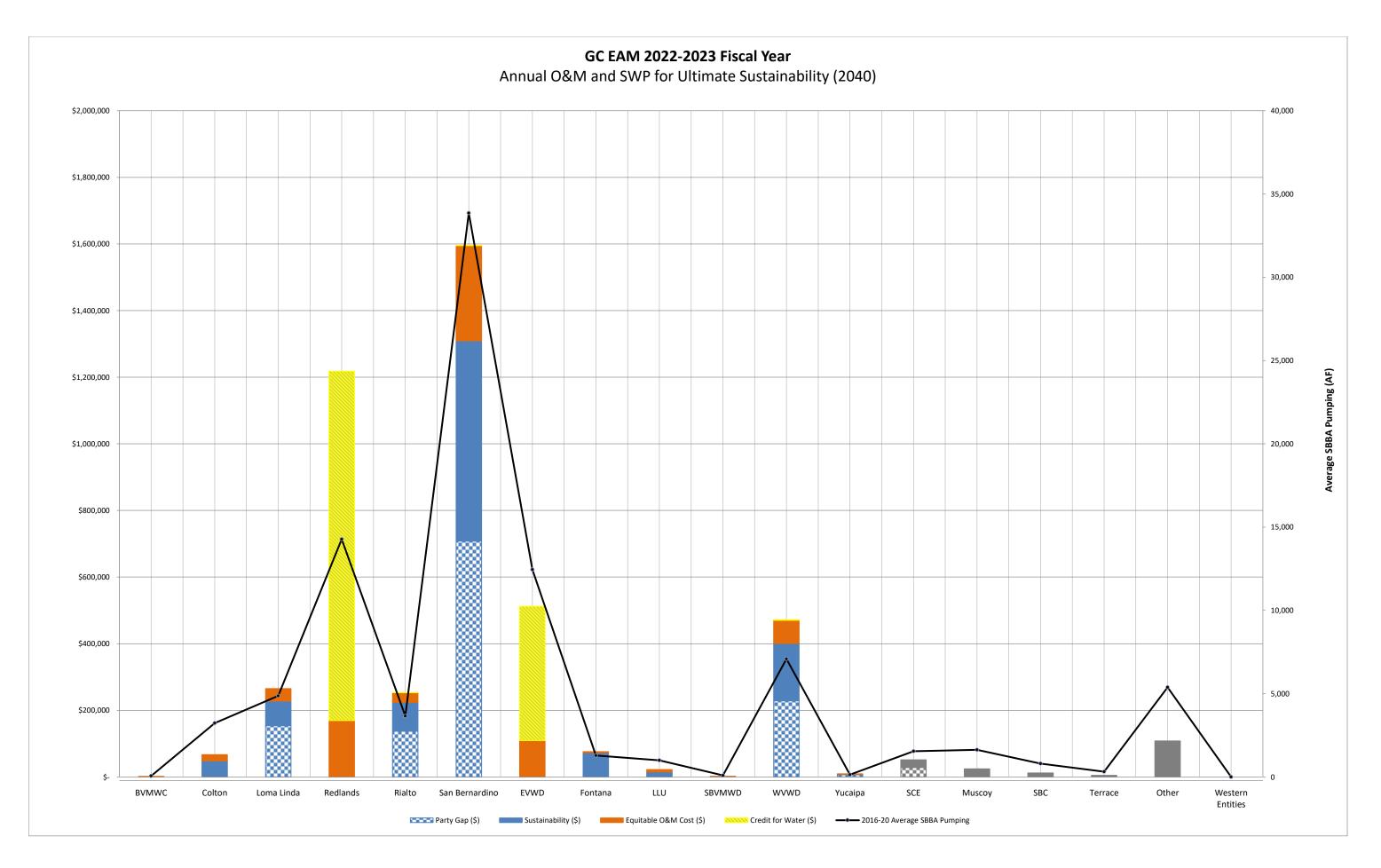
Agency	Party Gap FY22-23 (AF)	Sustainability FY22-23 (AF)	Credit for Water brought to the Basin (AF)	Total Equitable Water Cost FY22-23 (\$)	Water Corrections for Previous Years (\$)	Total Water Cost with Corrections (\$)	Total Water with Corrections (AF)	Equitable O&M Costs FY22-23 (\$)	O&M Corrections for Previous Years (\$)		Total Party Costs FY22- 23 (\$)	Voting Weight 2022-23
Bear Valley Mutual Water Company	-	7	(2,618)	\$ -	\$ -	\$ -	0	\$ 1,493	\$ -	\$ 1,493	\$ 1,493	0.05%
City of Colton	-	405	-	\$ 47,928	\$ 2,805	\$ 50,733	428	\$ 18,835	\$ -	\$ 18,835	\$ 69,567	2.2%
City of Loma Linda	1,301	623	-	\$ 227,749	\$ 3,358	\$ 231,107	1952	\$ 37,196	\$ -	\$ 37,196	\$ 268,303	8.7%
City of Redlands	1,513	3,679	(8,857)	\$ -	\$ 22,439	\$ 22,439	190	\$ 169,067	\$ -	\$ 169,067	\$ 191,507	5.6%
City of Rialto	1,157	741	(8)	\$ 223,782	\$ 4,154	\$ 227,936	1925	\$ 28,956	\$ -	\$ 28,956	\$ 256,892	8.3%
City of San Bernardino	5,979	5,088	(11)	\$1,309,038	\$ 28,048	\$ 1,337,086	11293	\$ 285,837	\$ -	\$ 285,837	\$1,622,923	52.5%
East Valley Water District	-	2,599	(3,404)	\$ -	\$ -	\$ -	0	\$ 108,881	\$ -	\$ 108,881	\$ 108,881	3.6%
Fontana Union Water Company	-	611	-	\$ 72,355	\$ 3,397	\$ 75,752	640	\$ 3,632	\$ -	\$ 3,632	\$ 79,384	2.5%
Loma Linda University	-	125	-	\$ 14,799	\$ 801	\$ 15,600	132	\$ 7,393	\$ -	\$ 7,393	\$ 22,993	0.7%
San Bernardino Valley M.W.D.	-	11	-	\$ 1,340	\$ -	\$ 1,340	11	\$ 7	\$ -	\$ 7	\$ 1,347	0.0%
West Valley Water District	1,931	1,471	(18)	\$ 400,637	\$ (90,646)	\$ 309,992	2618	\$ 69,388	\$ -	\$ 69,388	\$ 379,380	15.5%
Yucaipa Valley Water District	53	17	-	\$ 8,243	\$ 76	\$ 8,319	70	\$ 955	\$ -	\$ 955	\$ 9,274	0.3%
Total GC Parties:	11,934	15,377	\$ (14,916)	\$2,305,872	\$ (25,569)	\$ 2,280,303	19259	\$ 731,640	\$ -	\$ 731,640	\$3,011,943	100%
Mountain View Power Co.	240	193	-	\$ 51,246	\$ 1,344	\$ 52,590	444	#N/A	\$ -	#N/A	\$ 52,590	#N/A
Muscoy Mutual Water Company No. 1	-	204	-	\$ 24,175	\$ 1,251	\$ 25,426	215	#N/A	\$ -	#N/A	\$ 25,426	#N/A
San Bernardino County - Facility Management	-	100	-	\$ 11,896	\$ 557	\$ 12,453	105	#N/A	\$ -	#N/A	\$ 12,453	#N/A
Terrace Water Company	-	39	-	\$ 4,669	\$ 298	\$ 4,967	42	#N/A	\$ -	#N/A	\$ 4,967	#N/A
Other Inside SBVWCD	-	764	-	\$ 90,449	\$ 5,105	\$ 95,554	807	#N/A	\$ -	#N/A	\$ 95,554	#N/A
Other Outside SBVWCD	-	148	-	\$ 17,520	\$ 952	\$ 18,472	156	#N/A	\$ -	#N/A	\$ 18,472	#N/A
San Bernardino Non-Parties Total:	240.05	1,449	-	\$ 199,955	\$ 9,507	\$ 209,462	1769	\$ -	\$ -	\$ -	\$ 209,462	0%
Western Entities Total:	-	-	-	-	-	-	0	\$ -	-	-	\$ -	0%
Total:	12,174	16,826	(14,916)	\$2,505,827	\$ (16,062)	\$ 2,489,765	21028	\$ 731,640	\$ -	\$ 731,640	\$3,221,405	100%

2/9/2022

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### Calculation for FY 2022-23

A	В	С	D	Е	F	G	Н	I	J	К	L	M M	N N	0	Р	Q	R	S	Т	U	V	W
1 Calculation for 2022-23										_												
2 Precipitation Adjustmen	nt <b>0</b> %	Susta	ainable Amount (AF	29,000		Base Perio	d Safe Yield		riod Safe Yield Present Safe Yiel	d												
4 Recharg 5 Direct Us			Budgeted Water Cost O&M Cost SBVWCE						172,745													
6 SWP Cost Recharge (\$/Al		Budgete	d O&M Cost SBCFC	\$ 76,440		27.55.	04,802	2,130	00,336	•												
7 8		Bud	dgeted Admin Costs	\$ -																		
Base Period	1959-63		1959-1963	Base Period SBBA Pr	oduction (AF)			Tota	I Average Use, 195	9-1963			Safe Yield Di	istribution		Total SBBA	Groundwater	Average	Total Base			
9	1		1		1	1	1959-63		1	4050 4052 T-4-					1	Demand		Surface Water	Period			
Agency	Abbreviation	1959	1960	1961	1962	1963	Average GW + SW	Other Distribution	Recycled Water <sub>19</sub>	1959-1963 Tota 59- Average Use	% of Total	Safe Yield <sub>1959-63</sub> (AF)	Safe Yield % of Total	SW <sub>1959-63</sub> (AF)	GWSY <sub>1959-63</sub> (AF)	Demand Previous Year (2020)	GWSY <sub>1959-63</sub> (AF)	SW <sub>1959-63</sub> (AF)	Gap <sub>1959-63</sub>			
10	İ				<u> </u>		(AF)	<u> </u>	63 (AF)	(AF)							` '	1				
11 Bear Valley Mutual Water Company 12 City of Colton	BVMWC Colton	16,855 2,814	13,583 3,606	14,273 3,305	11,626 3,743	9,831 3,267	13,234 3,347	574 -	-	13,807 3,347	7.76% 1.88%	12,976 3,146	5.59% 1.36%	8,344 -	4,632 3,146	(12,383) (2,624)	4,632 3,146	8,344	593 522			
City of Loma Linda     City of Redlands	Loma Linda Redlands	0 19,378	0 19,941	0 18,736	0 20,758	0 16,676	19,098	1,735 7,092	235 2,068	1,970 28,258	1.11% 15.88%	1,852 26,558	0.80% 11.44%	6,864	1,852 19,694	(5,182) (34,511)	1,852 19,694	6,864	(3,330) (7,953)			
5 City of Rialto	Rialto	1,659	795	959	1,068	1,397	1,176	833	-	2,008	1.13%	1,888	0.81%	617	1,270	(5,617)	1,270	617	(3,729)	<u>.</u>		
6 City of San Bernardino 7 East Valley Water District	SBMWD EVWD	17,268 6,545	16,099 6,900	18,448 7,674	17,575 7,144	16,456 7,540	17,169 7,161	3,468 7,562	-	20,637 14,723	11.60% 8.27%	19,395 13,837	8.36% 5.96%	1,206 57	18,189 13,779	(39,822) (18,372)	18,189 13,779	1,206 57	(20,427) (4,536)			
Fontana Union Water Company     Loma Linda University	FWC LLU	19,841 1,011	15,649 1,116	13,295 1,202	14,674 1,166	12,086 901	15,109 1,079	-	-	15,109 1,079	8.49% 0.61%	14,200 1,014	6.12% 0.44%	6,688	7,512 1,014	(6,424) (1,030)	7,512 1,014	6,688	7,776 (16)			
0 Mountain View Power Co.	SCE	1,410	1,219	1,425	726	744	1,105	- - -		1,105	0.62%	1,038	0.45%		1,038	(1,674)	1,038		(636)	1		
1 Muscoy Mutual Water Company No. 1 2 San Bernardino County - Facility Management		1,943 636	1,870 615	2,028 809	1,863 564	1,684 386	1,878 602	825		1,878 1,427	1.06% 0.80%	1,765 1,341	0.76% 0.58%	-	1,765 1,341	(1,739) (1,093)	1,765 1,341	-	26 248	<u>.</u>		
3 San Bernardino Valley M.W.D. 4 Terrace Water Company	SBVMWD Terrace	0 1,318	0 921	0 1,077	0 1,012	0 899	1,045	-	-	- 1,045	0% 0.59%	- 982	0.00% 0.42%		- 982	(1) (141)	- 982	-	(1) 841	-		
5 West Valley Water District	WVWD	13,584	12,090	13,587	11,331	11,837	12,486	-	-	12,486	7.02%	11,734	5.06%	3,588	8,147	(14,779)	8,147	3,588	(3,045)	]		
Yucaipa Valley Water District     Other Inside SBVWCD	YVWD Other	0 74,763	71,141	0 75,229	0 71,613	0 65,461	71,642	(19,164)	-	52,477	0.00% 29.49%	- 49,319	0.00% 21.25%	5,886	43,433	(133) (5,235)	43,433	5,886	(133) 44,084	1		
28 Other Outside SBVWCD 29 Non-Plaintiff Total:	Other	11,218 190,243	8,562 174,107	8,989 181,037	10,240 175,103	8,563 157,729	9,514 175,644	(2,925) -	2,303	6,590 <b>177,947</b>	3.70% <b>100</b> %	6,193 <b>167,238</b>	2.67% <b>72.05%</b>	- 33,250	6,193 <b>133,988</b>	(843) (151,603)	6,193 <b>133,988</b>	- 33,250	5,350 <b>15,635</b>	-		
Plaintiff Total:		70,373	64,867	70,944	65,102	60,983	64,862	-				64,862	27.95%	-	64,862	1				_		
32																- 1						
33 Tota 34	nl:	260,616	238,974	251,981	240,205	218,712	240,506	-	1	1	-	232,100	100%	33,250	198,850	J						
5																						
Current (last 5 years)	2016-20		Present Period	d Net SBBA GW + SW	Prodcution (AF	)		Tota	l Average Use, 2016	5-20(AF)			Safe Yield Di	istribution	_	Total SBBA Demand	Groundwater	Average		Recycled Wate	er	Total Present Period
7	(5 years)		1	1	1	1		1	I	1	1			<u> </u>	1	Demand		Surface Water		l	<u> </u>	Period
Agency	Abbreviation	2016	2017	2018	2019	2020	Average SBBA Use 2016-20	SWP (AF)	Recycled Water <sub>Previous Year</sub>	Party Water Use	% of Total	Safe Yield Last 5 Years	Safe Yield % of	SW Last 5 Years	GWSY Last 5 Years	Demand Previous Year	GWSY Last 5 Years	SW Last 5 Years	New Direct Recycled	New Recharge Recycled	Net New Recycled <sub>Previous Year</sub>	Gap <sub>Last 5 Years</sub>
8							(AF)		(AF)	(AF)		(AF)	Total	(AF)	(AF)	(2020)	(AF)	(AF)	(AF)	(AF)	(AF)	
9 Bear Valley Mutual Water Company 0 City of Colton	BVMWC Colton	8,928 3,044	10,332 3,842	10,220 3,695	6,856 2,943	12,383 2,624	9,744 3,230	1,288	-	11,032 3,230	7.6% 2.2%	13,123 3,842	5.47% 1.60%	9,686	3,437 3,842	(12,383) (2,624)	3,437 3,842	9,686	-	-		740 1,218
1 City of Loma Linda	Loma Linda	4,208	5,070	5,158	4,725	5,182	4,869	100		4,969	3.4%	5,911	2.47%		5,911	(5,182)	5,911	-	-	-	-	729
2 City of Redlands 3 City of Rialto	Redlands Rialto	22,031 4,429	25,528 3,149	25,675 6,411	23,597 5,406	25,573 5,091	24,481 4,897	350 1,014	4,521	29,352 5,911	20.2% 4.1%	34,916 7,032	14.56% 2.93%	10,205 1,244	24,712 5,788	(34,511) (5,617)	24,712 5,788	10,205 1,244	6,589 -	-	4,521 -	4,926 1,415
4 City of San Bernardino 5 East Valley Water District	SBMWD EVWD	23,588 13,014	29,154 20,103	39,523 19,989	37,206 17,143	39,822 20,828	33,859 18,216	6,736 2,518	-	40,595 20,733	28.0% 14.3%	48,291 24,664	20.14% 10.29%	- 5,771	48,291 18,893	(39,822) (18,372)	48,291 18,893	- 5,771	-	-	-	8,469 6,292
6 Fontana Union Water Company	FWC	2,650	4,112	5,147	6,045	6,424	4,876	ļ	-	4,876	3.4%	5,800	2.42%	3,587	2,213	(6,424)	2,213	3,587	-		-	(624)
Loma Linda University  Mountain View Power Co.	LLU SCE	1,019 2,013	990 1,889	986 863	961 1,251	1,030 1,674	997 1,538	<u> </u>	-	997 1,538	0.7% 1.1%	1,186 1,830	0.49% 0.76%	<u> </u>	1,186 1,830	(1,030) (1,674)	1,186 1,830	-	-		<u> </u>	156 156
Muscoy Mutual Water Company No. 1  San Bernardino County - Facility Management	MMWC SBC	1,534 458	1,652 841	1,649 846	1,571 770	1,739 1,093	1,629 802	-	-	1,629 802	1.1% 0.6%	1,938 954	0.81% 0.40%		1,938 954	(1,739) (1,093)	1,938 954	-	-	-	-	199 (139)
11 San Bernardino Valley M.W.D. 12 Terrace Water Company	SBVMWD Terrace	- 420	464	449 343	1 205	1 141	90 315			90 315	0.1% 0.2%	107 374	0.04% 0.16%	<u> </u>	107 374	(1) (141)	107 374	-	-		-	106 233
3 West Valley Water District	WVWD	6,749	9,226	11,006	12,216	13,875	10,615	1,122	<u> </u>	11,736	8.1%	13,961	5.82%	3,534	10,428	(14,779)	10,428	3,534		<u> </u>	ļ	(818)
54 Yucaipa Valley Water District 55 Other Inside SBVWCD	YVWD Other	162 6,413	110 5,473	178 5,915	92 5,836	133 5,203	135 5,768	327	-	135 6,095	0.1% 4.2%	161 7,250	0.07% 3.02%	919	161 6,332	(133) (5,235)	161 6,332	919			ļ	28 2,015
56 Other Outside SBVWCD 57 San Bernardino Entities Total:	Other	1,820 102,480	1,323 123,258	995 139,048	922 <b>127,747</b>	843 143,659	1,181 127,238	13,454	4,521	1,181 145,214	0.8% 100%	1,404 172,745	0.59% <b>72.05</b> %	653 <b>35,598</b>	751 <b>137,147</b>	(843) (151,603)	751 <b>137,147</b>	653 <b>35,598</b>	6,589	-	4,521	561 <b>25,662</b>
9 Western Entities Total:		-	-	-	-	-	66,998	13,434	7,321	143,214	100%	66,998	27.95%	-	137,147	(131,003)	137,147	33,330	0,303	1	7,521	23,002
Total:		102,480	123,258	139,048	127,747	143,659	194,237					239,743	100%	35,598	137,147	j						
52					D0457	DUDCET 5		Coloulati					<del></del>									
4	-			Southard to the second		BUDGET - F	Y2U22-23					(2022 25)	ł									
4	Party Gap (AF)			Equitable Water Cost					Equitable O&M Cos			(2022-23)	1									
Agency	(Gap <sub>1959-63</sub> +	Water Use (%)	Sustainability (AF)	Total Water (AF)	Credit for Water (AF)	Total Water after Credit (AF)	Estimated Tota Water Cost (\$)		l Equitable O&M Costs	Equitable Admir Costs	Estimated Total Party Costs (\$)	Voting Weight 2022-2023										
5 Bear Valley Mutual Water Company	Gap <sub>Last 5 Years</sub> )/2	0.0%	7	7			\$ -	0.13%	\$ 1,493	į	\$ 1,493	0.0%	-									
7 City of Colton	0	2.4%	405	405	-	405	5 \$ 47,928	1.7%	\$ 18,835	5 \$ -	\$ 66,763	2.2%										
8 City of Loma Linda 9 City of Redlands	1,301 1,513	3.7% 21.9%	623 3,679	5,192	8,857	7 -	\$ 227,749 \$ -	15.2%	\$ 37,196 \$ 169,067	7 \$ -	\$ 264,945 \$ 169,067	8.7% 5.6%	_									
0 City of Rialto 1 City of San Bernardino	1,157 5,979	4.4% 30.2%	741 5,088			8 1,890 1 11,056	) \$ 223,782 5 \$ 1,309,038		\$ 28,956 \$ 285,837		\$ 252,738 \$ 1,594,875	8.3% 52.5%										
2 East Valley Water District 3 Fontana Union Water Company	0	15.4%	2,599	2,599	3,404	4 -	\$ -	9.8%	\$ 108,883 \$ 3,633	1 \$ -	\$ 108,881 \$ 75,987	3.6%										
4 Loma Linda University	0	3.6% 0.7%	611 125	125	-	125	1 \$ 72,355 5 \$ 14,799		\$ 7,393	3 \$ -	\$ 22,192	2.5% 0.7%										
5 San Bernardino Valley M.W.D. 6 West Valley Water District	0 1,931	0.1% 8.7%	11 1,471				\$ 1,340 \$ 400,637		\$ 69,388	7 \$ - 8 \$ -	\$ 1,347 \$ 470,026	0.0% 15.5%	-									
7 Yucaipa Valley Water District 8 Total Purchased by GC Partie	53	0.1% <b>91.4%</b>	17 15,377	70	-	7(	\$ 8,243 5 <b>\$ 2,305,872</b>	0.1%		5 \$ -	\$ 9,198 \$ 3,037,512	0.3% 100%	1									
Total Purchased by GC Partie     Mountain View Power Co.										· · ·												
1 Muscoy Mutual Water Company No. 1	240 0	1.1% 1.2%	193 204	204	-	204	3 \$ 51,246 4 \$ 24,175	1.1%	#N/A #N/A	ş - \$ -	\$ 51,246 \$ 24,175	#N/A #N/A										
32 San Bernardino County - Facility Management 33 Terrace Water Company	0	0.6% 0.2%	100 39				) \$ 11,896 9 \$ 4,669		#N/A #N/A	\$ - \$ -	\$ 11,896 \$ 4,669	#N/A #N/A	-									
84 Other Inside SBVWCD 85 Other Outside SBVWCD	0	4.5%	764	764	-	764	\$ 90,449	3.1%	#N/A	\$ -	\$ 90,449	#N/A										
35 Other Outside SBVWCD Non-Parties Tota	0 al: 240	0.9% <b>8.6%</b>	148 <b>1,449</b>				3 \$ 17,520 9 <b>\$ 199,955</b>		#N/A \$ -	\$ -	\$ 17,520 \$ 199,955	#N/A # <b>N/</b> A	1									
Western Entities Tota	al: 0	0%	-	-	-	-	1 -	27.95%	\$ -	\$ -	\$ -	#N/A	]									
90 Tota	al: 12,174	100%	16,826	29,000	14,916	6 21,164	\$ 2,505,827	100%	\$ 731,640	0 \$ -	\$ 3,237,467	#N/A										



9

Corrections for Previous Ye	ears	5
Agency	Wa D	VWD Lytle Creek atermaster ata Error FY21-22
Bear Valley Mutual Water Company	\$	-
City of Colton	\$	2,805
City of Loma Linda	\$	3 <i>,</i> 358
City of Redlands	\$	22,439
City of Rialto	\$	4,154
City of San Bernardino	\$	28,048
East Valley Water District	\$	-
Fontana Union Water Company	\$	3,397
Loma Linda University	\$	801
San Bernardino Valley M.W.D.	\$	-
West Valley Water District	\$	(90,646)
Yucaipa Valley Water District	\$	76
Total GC Parties:	\$	(25,569)
Mountain View Power Co.	\$	1,344
Muscoy Mutual Water Company No. 1	\$	1,251
San Bernardino County - Facility Management	\$	557
Terrace Water Company	\$	298
Other Inside SBVWCD	\$	5,105
Other Outside SBVWCD	\$	952
San Bernardino Non-Parties Total:	\$	9,507
Western Entities Total:	\$	-
Total:	\$	(16,062)

### Notes

1- Data for WVWD's Lytle Creek diversion was over reported in the 2020 Watermaster report

2/9/2022

Credit for Water Brought	to the Basir	ı
Agency	New Recycled Water (AF)	Surface Water for Recharge (AF)
Bear Valley Mutual Water Company	-	2,618
City of Colton	-	-
City of Loma Linda	-	-
City of Redlands	4,521	4,336
City of Rialto	-	8
City of San Bernardino	-	11
East Valley Water District	-	3,404
Fontana Union Water Company	-	-
Loma Linda University	-	-
San Bernardino Valley M.W.D.	-	-
West Valley Water District	-	-
Yucaipa Valley Water District	-	-
Total GC Parties:	4,521	10,377
Mountain View Power Co.	-	-
Muscoy Mutual Water Company No. 1	-	-
San Bernardino County - Facility Management	-	-
Terrace Water Company	-	-
Other Inside SBVWCD	-	-
Other Outside SBVWCD	_	-
San Bernardino Non-Parties Total:	-	-
Western Entities Total:	-	-
Total:	4,521	10,377

### **Recycled Water**

<u>Redlands</u> - Credit for Recycled water either for recharge or delivered to Edison. 2,068AF of recycled water was present in the base period and is subtracted from the total. Data provided by the agency.

### **Surface Water for Recharge**

<u>BVMWC/Redlands</u>- Recharge of Santa Ana River water at the Redlands Aqueduct Sandbox, the Lower Mill Creek Ponds, the Mentone Reservoir, the Airport Ponds, the Highline Upper Mill Creek, Gun's Pond, and Fifth Ave Sand Canyon. Mill Creek water recharged at the East Weir

Rialto - Water delivered for spreading from Lytle Creek per calculations performed by WVWD

<u>San Bernardino</u> - Water delivered for spreading from Lytle Creek per calculations performed by WVWD

<u>EVWD</u>- Water within EVWD Northfork rights that is diverted by Northfork and then sent for spreading either at the ConservationDistrict facility or in Plunge Creek. Data from the Exchange Plan Daily Flow Report and EVWD Northfork Parshall flume meter.

WVWD - Water delivered for spreading from Lytle Creek per calculations performed by WVWD

2/9/2022

A	B C D E F G		M N O P Q R	S T U V W X Y	Z AA AB AC AD AE
	Verified Total Extra		Pumping Adjustments	Other Distribution Verified Extractions	Credits for Water to the Basin
<u>.</u>	and Nonfiled) in the SBBA by Non-Plaintiffs for use in SB County (BV	urce: 2020 Watermaster Report Volume 1 Table 3 VMWC Volume 1 Table 1, Volume 1A Table 1, BBWM Report)	Source: Performed by SBVMWD	Source: 2020 Watermaster Report Volume 1 Change in Ownership from Base Period	Recycled Water (Cats provided by Agencies) Base period (Dotal Water and Office Water for Recharge (Dotal Water matter) Values 2 Tables 5 and Office) (Dotal Water matter) Values 2 Tables 5 and Office) (Dotal Water Matter)
Agency	1959 1960 1961 1962 1963 201		2016 2017 2018 2019 2020	1959 1960 1961 1962 1963 AVG	2020 1959-63 2020 2020
Bear Valley Mutual Water Company City of Colton		341 16,396 11,550 14,414 18,526 044 3,842 3,695 2,943 2,624		1,012 974 882 574 	2,618 2,618 
City of Loma Linda City of Redlands	4,7	708 5,070 5,158 4,725 5,182 319 24,216 21,710 25,739 28,424		1,827 1,840 1,991 1,729 1,290 1,735 7,202 6,245 8,554 7,022 6,439 7,092	- 235 6,589 2,068 4,336 8,857
City of Rialto		291 3,885 4,413 3,560 3,897	1,727 1,692 1,998 2,372 1,720	959 827 875 1,033 470 833	8 8
City of San Bernardino  D East Valley Water District	17,268 16,099 18,448 17,575 16,456 36,5	519 38,478 40,158 37,875 40,504 791 15,214 14,545 12,276 15,169	(216) (139) (635) (669) (682)	4,111         3,704         3,633         3,070         2,821         3,468           7,003         7,044         8,519         8,352         7,621         7,562	11 11 3,404 3,404
1 Fontana Union Water Company		650 4,112 5,147 6,045 6,424		7,003 7,044 8,319 8,332 7,021 7,302	3,404
2 Loma Linda University 3 Mountain View Power Co.		019 990 986 961 1,030 013 1,889 863 1,251 1,674			
4 Muscoy Mutual Water Company No. 1		534 1,652 1,649 1,571 1,739			
5 San Bernardino County - Facility Management 6 San Bernardino Valley M.W.D.		458 841 846 770 1,093 643 4,921 6,421 6,321 6,100	(5,643) (4,921) (5,972) (6,320) (6,099)	1,045 733 823 871 655 825	
7 Terrace Water Company	1,318 921 1,077 1,012 899 4	420 464 343 205 141			
8 West Valley Water District 9 Yucaipa Valley Water District		862 7,108 6,966 9,361 10,066 162 110 178 92 133	4,132 3,368 4,040 4,065 4,713		18 18
Other Inside SBVWCD	67,682 64,704 70,511 65,354 60,528 6,4	413 5,473 5,915 5,836 5,203		(18,509) (17,282) (22,440) (19,856) (17,735) (19,164)	
1 Other Outside SBVWCD Santa Ana River Recharge Balance (difference	T I	820 1,323 995 922 843 405 17,472 3,422 492 2,561		(3,638) (3,111) (2,967) (3,195) (2,443) (2,925)	
2 between BVMWC diversion and use of SAR water) 3 San Bernardino Entities Total:		412 153,456 134,960 135,359 151,333	(121) (550) (347)	(0)	
5 City of Riverside		341 21,829 18,995 15,752 21,730	: : (): (000): (04)	; ; ; - 1 (9)1	-,, 20,000 14,010
6 City of Riverside - Gage Canal	31,805 29,019 30,670 28,440 26,999 30,2	291 28,627 30,893 26,775 27,780			
7 Meeks & Daley Water Compnay 8 Regents of University of California		220 7,218 7,217 7,444 6,537 554 554 554 554 554			
9 Riverside Highland Water Co.	4,745 4,241 5,535 4,147 3,326 3,0	040 1,903 2,072 2,326 2,947			
0 Western Entities Total:	70,373 64,867 70,944 65,102 60,983 57,4				
2 Total:	260,616 238,974 251,981 240,205 218,712 174,8	858   213,587   194,691   188,210   210,881			
4	SWP Spreading Delivery	SWP Direct Delivery	TOTAL SWP Water		
5 6 Agency	Source: SBVMWD SWP Orders and Accounting 2016 2017 2018 2019 2020	Source: SBVMWD SWP Orders and Accounting     2016   2017   2018   2019   2020	Source: SBVMWD SWP Orders and Accounting 2016 2017 2018 2019 2020		
Bear Valley Mutual Water Company		5,209 466 144 101 518	5,209 466 144 101 518		
3 City of Colton 3 City of Loma Linda	500		500		
City of Redlands	550	781 129 290	1,331 129 290		
1 City of Rialto 2 City of San Bernardino	1,590 2,428 - 526 526 12,715 9,185	5,966 5,816	1,590 2,428 - 526 526 18,681 15,001		
3 East Valley Water District	6,068 1,704	927 297 522 2,219 852	6,995 2,001 522 2,219 852		
Fontana Union Water Company Loma Linda University					
Mountain View Power Co.					
7 Muscoy Mutual Water Company No. 1 B San Bernardino County - Facility Management					
San Bernardino Valley M.W.D.					
Terrace Water Company  West Valley Water District			2,245 1,250 - 1,210 904		
2 Yucaipa Valley Water District					
3 Other Inside SBVWCD 4 Other Outside SBVWCD		- 941 632 29 32 	- 941 632 29 32 		
5 San Bernardino Entities Total:	23,667 14,567 - 1,736 1,430	12,883 7,649 1,298 2,349 1,692	36,550 22,216 1,298 4,085 3,122		
5 7	<u> </u>				
3	Lytle Creek Source: See surface water tab for	: ladhidual courses	Mill Creek	adhibitud courses	
) Agency	1959 1960 1961 1962 1963 201		Source: See surface water tab for inc. 1959 1960 1961 1962 1963 2016	2017 2018 2019 2020	
Bear Valley Mutual Water Company City of Colton					
City of Loma Linda					
City of Redlands City of Rialto			7,047 6,913 3,615 8,973 4,451 2,300	6,635 2,762 5,319 4,871	
City of San Bernardino	1,069 994 1,286 1,403 1,279				
East Valley Water District Fontana Union Water Company	-   -   -   -				
Loma Linda University					
Mountain View Power Co. Muscoy Mutual Water Company No. 1					
San Bernardino County - Facility Management					
"					
San Bernardino Valley M.W.D. Terrace Water Company					
San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District					
San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Yucaipa Valley Water District Other Inside SBVWCD					
San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Yucaja Valley Water District Other Inside SBVWCD Other Outside SBVWCD	1,259 2,766 2,424 4,393 4,097 1,6 				
3 San Bernardino Valley M.W.D. 1 Terrace Water Company West Valley Water District 5 Yucaja Valley Water District 7 Other Inside SBWVCD 8 Other Outside SBWVCD 9 San Bernardino Entitles Total:	1,259 2,766 2,424 4,393 4,097 1,6 				
3 San Bernardino Valley M.W.D. 4 Terrace Water Company 5 West Valley Water District 6 Yucalpa Valley Water District 7 Ucalpa Valley Water District 7 Other Outside SBVWCD 8 Other Outside SBVWCD 9 San Bernardino Entities Total:				8,417 3,114 6,650 5,225	Base Period Santa Ana River Diversion
San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Yucaja Valley Water District Other Inside SBWVCD Other Inside SBWVCD San Bernardino Entities Total:	4,259 2,766 2,424 4,393 4,097 1,6		7,047 6,913 3,615 8,973 4,451 3,075	8,417 3,114 6,650 5,225  Bear Valley Santa Ana River  See surface water tab for individual sources	Base Period Santa Ana River Diversion Source: Watermaster and BVMWC
San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Yucaipa Valley Water District Other Inside SBVWCD Other Ousside SBVWCD San Bernardino Entities Total:	4,259 2,766 2,424 4,393 4,097 1,6		7,047 6,913 3,615 8,973 4,451 3,075 Source: 2016	8,417 3,114 6,650 5,225  Bear Valley Santa Ana River  See surface water tob for individual sources  2017 2018 2019 2020	Source: Watermaster and BVMWC 1959 1960 1961 1962 1963
San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Yucaipa Valley Water District Other Inside SBW/CD Other Outside SBW/CD San Bernardino Entities Total:  Agency Bear Valley Mutual Water Company City of Colton	4,259   2,766   2,424   4,393   4,097   1,6 	583 595 755 622 711 694 7,697 5,849 11,524 13,324 er individual sources 16 2017 2018 2019 2020 912 10,320 10,181 6,841 12,175 	7,047 6,913 3,615 8,973 4,451 3,075  Source: 2016  Total Bear Valley Santa Ana River 8,912	Bear Valley Santa Ana River  See surface water too for individual sources  2017 2018 2019 2020  10,320 10,181 6,841 12,175  City of Rec	Source: Watermaster and BVHWC   1959   1960   1961   1962   1963   1964   1962   1963   1964   196
San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Yucaja Valley Water District Other Inside SBVWCD Other Outside SBVWCD San Bernardino Entities Total:  Agency Bear Valley Mutual Water Company City of Colton City of Colton City of Lona Linda	4,259 2,766 2,424 4,393 4,097 1,6	S83 595 755 622 711 694 7,697 5,849 11,524 13,324  er -individual sources 16 2017 2018 2019 2020 912 10,320 10,181 6,841 12,175	7,047 6,913 3,615 8,973 4,451 3,075    Source: Source: Source: SevMWD In-Lieu   Source: SBVMWD In-Lieu	See surface water tab for individual sources   2017   2018   2019   2020   2032   2019   2020   2032   2032   2032   2033   20,181   6,841   12,175   2033   2034   2034   2034   2035	Source: Watermoster and BVMUC   1959   1960   1961   1962   1963   1964   1962   1963   1964   1964   1965   1963   1964   1965   1963   1964   1965   196
3 San Bernardino Valley M.W.D. 4 Terrace Water Company 5 West Valley Water District 6 Yucaipa Valley Water District 7 Other Inside SBVWCD 8 Other Outside SBVWCD 9 San Bernardino Entities Total: 1 1 2 3 4 Agency 8 Gear Valley Mutual Water Company 9 City of Colton 1 City of Colton 1 City of Fedlands 1 City of Fedlands 1 City of Fedlands 1 City of Fedlands 1 City of Giston 1 City of Giston 2 City of Fedlands 2 City of Redlands 3 City of Redlands 3 City of Redlands 5 City of Giston	4,259 2,766 2,424 4,393 4,097 1,6	583 595 755 622 711 694 7,697 5,849 11,524 13,324 er individual sources 16 2017 2018 2019 2020 912 10,320 10,181 6,841 12,175 	7,047 6,913 3,615 8,973 4,451 3,075  Source: 2016  Total Bear Valley Santa Ana River 8,912	See surface water tab for individual sources   2017   2018   2019   2020   2032   2019   2020   2032   2032   2032   2033   20,181   6,841   12,175   2033   2034   2034   2034   2035	Source: Watermaster and 8VMWC   1959   1960   1961   1962   1963   1964   1965   1963   1964   1965   1963   1964   1965   1963   1964   1965   196
San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Yucaipa Valley Water District Other Inside SBWWCD Other Outside SBWWCD San Bernardino Entities Total:  Agency Bear Valley Mutual Water Company City of Colton City of Fooma Linda City of Redlands City of Redlands City of Reiland City of Rialto City of Sialto City of Sialto City of Sialto City of Sialto	4,259   2,766   2,424   4,393   4,097   1,6	S83 595 755 622 711 694 7,697 5,849 11,524 13,324  er -individual sources 16 2017 2018 2019 2020 912 10,320 10,181 6,841 12,175	7,047 6,913 3,615 8,973 4,451 3,075    Source: SelvMwo In-Lieu C All In Lieu Water 8,500     Source: Watermaster Vo	Sear Valley Santa Ana River	Source: Watermaster and BVMWC   1959   1960   1961   1962   1963   1964   1962   1963   1964   1965   1963   1964   1965   1963   1964   1965   196
San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Yucaipa Valley Water District Other Inside SRWWCD Other Outside SRWWCD San Bernardino Entities Total:  Agency Bear Valley Mutual Water Company City of Colton City of Loma Linda City of Redlands City of Redlands City of San Bernardino East Valley Water District Fontana Union Water Company	4,259   2,766   2,424   4,393   4,097   1,6	1	7,047 6,913 3,615 8,973 4,451 3,075  Source: S	Sear Valley Santa Ana River	Source: Watermaster and BVMWC   1959   1960   1961   1962   1963   1963   1964   1962   1963   1964   1965   1963   1964   1965   1963   1964   1965   196
San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Yucaipa Valley Water District Other Inside SBWVCD Other Outside SBWVCD San Bernardino Entities Total:  Agency Bear Valley Mutual Water Company City of Colton City of Forma Linda City of Redlands City of Rialto City of San Bernardino East Valley Water District Fontana Union Water Company Lord Valley Water District Fontana Union Water Company Lord Valley Water District Fontana Union Water Company Lorna Linda University	4,259   2,766   2,424   4,393   4,097   1,6	ser	7,047 6,913 3,615 8,973 4,451 3,075    Source: SelVMVD In-Lieu	Bear Valley Santa Ana River  See surface water tab for individual sources  2017 2018 2019 2020  10,320 10,181 6,841 12,175  Colcustion Table  4,147 7,066 216 3,080  Diume 1 Table 1  12 39 15 208  Bear Valle  Bear Valle  Bear Valle  Bear Valle  Bear Valle	Source: Watermoster and BVMWC   1963   1969   1960   1961   1962   1963   1964   1964   1965   1963   1965   196
3 San Bernardino Valley M.W.D. 4 Terrace Water Company 5 West Valley Water District 6 Yucaipa Valley Water District 7 Other Inside SBVWCD 8 Other Outside SBVWCD 9 San Bernardino Entities Total: 0 1 1 2 2 3 4 Agency 5 Bear Valley Mutual Water Company 6 City of Colton 7 City of Loma Linda 8 City of Reallands 9 City of San Bernardino 1 East Valley Water District 2 Fontana Union Water Company 3 Loma Linda Union Water Company 4 Loma Linda University 5 Loma Linda Union Water Company 6 City of Rialto 7 City of San Bernardino 8 City of Real Linda Union Water Company 9 Loma Linda University 9 Loma Linda University 9 Loma Linda University 9 Mountain View Power Co.	1,000   1,00	S83 595 755 622 711 694 7,697 5,849 11,524 13,324   Per  Individual sources 16 2017 2018 2019 2020 912 10,320 10,181 6,841 12,175	7,047 6,913 3,615 8,973 4,451 3,075    Source: Source: Source: SelVMWD In-Lieu All In Lieu Water   8,500    Source: Watermoster Vo   Bear Valley Wils   16	Bear Valley Santa Ana River  See surface water tab for individual sources  2017 2018 2019 2020  10,320 10,181 6,841 12,175  Colcustion Table  4,147 7,066 216 3,080  Diume 1 Table 1  12 39 15 208  Bear Valle  Bear Valle  Bear Valle  Bear Valle  Bear Valle	Source: Watermaster and BVMWC   1959   1960   1961   1962   1963   1969   1960   1961   1962   1963   1963   1963   1964   1965   1963   1965   196
3 San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Vucaipa Valley Water District Other Inside SBWVCD 3 Other Outside SBWVCD 5 Other Outside SBWVCD 5 San Bernardino Entities Total:  Agency Bear Valley Mutual Water Company 5 City of Colton City of Roditon City of Redlands City of Redlands City of Rialto City of Rialto City of Rialto East Valley Water District Fontana Union Water Company 5 Loma Linda University Mountain View Power Co. Muscoy Mutual Water Company Mountain View Power Co. Muscoy Mutual Water Company No. 1 Mass Bernardinic County - Facility Management	4,259   2,766   2,424   4,393   4,097   1,6	ser	7,047 6,913 3,615 8,973 4,451 3,075    Source: SelVMIVO In-Lieu	See ar Valley Santa Ana River	Source: Watermoster and BVMWC   1959   1960   1961   1962   1963
3 San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Vucaipa Valley Water District Other Inside SBWVCD 3 Other Outside SBWVCD 3 Other Outside SBWVCD 5 San Bernardino Entities Total:  Agency 5 Bear Valley Mutual Water Company City of Colton City of Loma Linda 5 City of Reallands City of San Bernardino City of San Bernardino East Valley Water District Fontana Union Water Company Loma Linda University Mountain View Power Co. 5 Muscoy Mutual Water Conpany No. 1 San Bernardino County - Facility Management San Bernardino County - Facility Management	4,259   2,766   2,424   4,393   4,097   1,6	er	7,047 6,913 3,615 8,973 4,451 3,075    Source:	Sear Valley Santa Ana River	Source: Watermaster and BVMWC   1959   1960   1961   1962   1963   1969   1960   1961   1962   1963   1963   1963   1964   1965   1963   1965   196
3 San Bernardino Valley M.W.D. 4 Terrace Water Company 5 West Valley Water District 6 Yucalpa Valley Water District 7 Other Inside SBWVCD 8 Other Outside SBWVCD 9 The Province of Company 1 Agency 1 Agency 2 Bear Valley Mutual Water Company 6 City of Cotton 7 City of Loma Linda 8 City of Redlands 9 City of San Bernardino 1 East Valley Water District 2 Fontana Union Water Company 4 Mountain View Power Co. 5 Muscoy Mutual Water Company 5 Loma Linda University 6 Mountain View Power Co. 5 Muscoy Mutual Water Company 6 City of San Bernardino 7 San Bernardino County - Facility Management 8 Terrace Water Company 9 West Valley Water District	4,259   2,766   2,424   4,393   4,097   1,6	1.583   595   755   622   711	7,047 6,913 3,615 8,973 4,451 3,075    Source:	Bear Valley Santa Ana River	Source: Watermaster and BVMWC   1959   1960   1961   1962   1963   1969   1960   1961   1962   1963   1963   1963   1964   1965   1963   1965   196
3 San Bernardino Valley M.W.D. 4 Terrace Water Company 5 West Valley Water District 6 Yucaipa Valley Water District 7 Other Inside SBWWCD 8 Other Outside SBWWCD 9 San Bernardino Entitles Total: 0 1 1 2 3 3 4 Agency 5 Bear Valley Mutual Water Company 6 City of Colton 7 City of Loma Linda 8 City of Reallands 9 City of Rialto 0 City of San Bernardino 0 City of San Bernardino 1 East Valley Water District 2 Fontana Union Water Company 3 Loma Linda Union Water Company 4 Mountain View Power Co. 5 Muscoy Mutual Water Company No. 1 6 San Bernardino County - Facility Management 7 San Bernardino Valley M.W.D. 8 Terrace Water Company 9 West Valley Water District 10 Yucaipa Valley Water District 10 Yucaipa Valley Water District	1,000   1,00	er	7,047 6,913 3,615 8,973 4,451 3,075    Source: SelVMVD In-Lieu	Bear Valley Santa Ana River	Source: Watermaster and BVMWC   1959   1960   1961   1962   1963   1960   1961   1962   1963   1963   1964   1964   1965   1963   1964   1965   1963   1965   196
3 San Bernardino Valley M.W.D. 4 Terrace Water Company 5 West Valley Water District 6 Yucaipa Valley Water District 7 Other Inside SBVWCD 8 Other Outside SBVWCD 9 San Bernardino Entities Total: 0 1 1 2 2 3 4 Agency 5 Bear Valley Mutual Water Company 6 City of Colton 7 City of Loma Linda 8 City of Reallands 9 City of San Bernardino 1 East Valley Water District 2 Fontana Union Water Company 8 Loma Linda Union Water Company 9 Loma Linda Union Water Company 1 City of San Bernardino 1 East Valley Water District 9 Fontana Union Water Company 1 Loma Linda University 4 Mountain View Power Co. 5 Muscoy Mutual Water Company No. 1 6 San Bernardino County - Facility Management 7 San Bernardino County - Facility Management 8 Terrace Water Company 9 West Valley Water District 10 Yucaipa Valley Water District 10 Uncaipa Valley Water District 10 Uncaipa Valley Water District	1,000   1,00		7,047 6,913 3,615 8,973 4,451 3,075    Source: SelVMVD In-Lieu	Bear Valley Santa Ana River	Source: Watermaster and BVMWC   1959   1960   1951   1962   1963   1959   1960   1951   1962   1963   1962   1963   1964   1962   1963   1964   196
San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Yucajpa Valley Water District Other Insides SBWWCD Other Gutside SBWWCD San Bernardino Entities Total:  Agency Bear Valley Mutual Water Company City of Colton City of Colton City of Form Linda City of Redlands City of Rialto City of Rialto City of Rialto City of Inside Company Loma Linda Union Water Company Loma Linda Union Water Company Water District Fontana Union Nater Company Muscoy Mutual Water Company Muscoy Mutual Water Company Loma Linda Union Facility Management San Bernardino County - Facility Management San Bernardino Valley M.W.D. Terrace Water Company West Valley Water District Yucajpa Valley Water District Vucajpa Valley Water District Utder Inside SBWWCD	1,000   1,00	er	7,047 6,913 3,615 8,973 4,451 3,075    Source: SelVMVD In-Lieu	Bear Valley Santa Ana River	Source: Watermaster and BVMWC   1959   1960   1961   1962   1963   1960   1961   1962   1963   1960   1961   1962   1963   1962   1963   1962   1963   1962   1963   1962   1963   196

SBB GC Water Charge	FY2022-23	
	FY22-23	FY22-23
GC Parties	Water Cost	Water Cost
	(\$)	(AF)
Bear Valley Mutual Water Company	\$ -	0
City of Colton	\$ 50,733	428
City of Loma Linda	\$ 231,107	1952
City of Redlands	\$ 22,439	190
City of Rialto	\$ 227,936	1925
City of San Bernardino	\$ 1,337,086	11293
East Valley Water District	\$ -	0
Fontana Union Water Company	\$ 75,752	640
Loma Linda University	\$ 15,600	132
San Bernardino Valley M.W.D.	\$ 1,340	11
West Valley Water District	\$ 309,992	2618
Yucaipa Valley Water District	\$ 8,319	70
Total GC Parties:	\$2,280,303	19259

SBB GC O&M Charge FY202	2-2	3
GC Parties	_	Y22-23 &M Cost (AF)
Bear Valley Mutual Water Company	\$	1,493
City of Colton	\$	18,835
City of Loma Linda	\$	37,196
City of Redlands	\$	169,067
City of Rialto	\$	28,956
City of San Bernardino	\$	285,837
East Valley Water District	\$	108,881
Fontana Union Water Company	\$	3,632
Loma Linda University	\$	7,393
San Bernardino Valley M.W.D.	\$	7
West Valley Water District	\$	69,388
Yucaipa Valley Water District	\$	955
Total GC Parties:	\$	731,640



### REDLANDS

JOHN R. HARRIS Director

Incorporated 1888

Municipal Utilities & Engineering Department

35 Cajon Street, Suite 15A

Redlands, CA 92373

909-798-7698

To:

Tom Crowley, San Bernardino Basin Groundwater Council President

From:

John Harris, MUED Director

Date:

February 8, 2022

Re:

Groundwater Recharge Credit Request

The City of Redlands became a member of the San Bernardino Basin Groundwater Council (SBBGC) in 2021 when, on March 2<sup>nd</sup>, our City Council approved language in the Framework Agreement, appropriated additional funding, and authorized staff to take the steps necessary to finalize our membership. We are excited to partner with other local groundwater producers to sustain our valuable water source, and look forward to actively participating on the SBBGC.

As a condition of membership, Redlands was required to remit "catch-up" membership fees for Fiscal Years 2018/19 and 2019/2020, as well as our annual membership fee for Fiscal Year 2021/22. We have done so, and will remit annual membership fees promptly in the future. Now, Redlands wishes to maximize the value of our SBBGC membership by receiving appropriate credit for our basin recharging efforts, just as the West Valley Water District and East Valley Water District have.

Redlands has actively contributed to the replenishment of the basin by applying water diverted pursuant to Redlands' water rights and water provided to Redlands pursuant to the Redlands' direct and indirect ownership of shares of Bear Valley Mutual Water Company and Crafton Water Company to local spreading basins. This effort meets the Framework Agreement definition for "Water Provided For Basin Benefit" since this water is "controlled by that agency and intentionally delivered for groundwater recharge into the SBBA" (Framework Agreement Exhibit B, Section II).

In December 2021, the City of Redlands requested credit for groundwater recharge, retroactive to formation of the SBBGC, following the West Valley Water District and East Valley Water District models. This request was submitted based on Redlands' ownership of facilities and water rights in Mill Creek and direct and indirect ownership of numerous shares in Bear Valley Mutual Water Company and Crafton Water Company. A historic water recharge tabulation for each facility was provided, and our request was discussed with the Groundwater Council Budget Committee on January 27, 2022.



The general consensus of the committee was to recommend approval of our request, although the committee did request a revised annual groundwater recharge worksheet based on Redlands' share ownership in various water companies. A revised worksheet is attached, and Katelyn Scholte has reviewed the methodology used to calculate the Mill Creek recharge credit. Additional supporting data, based on Redlands' thirty-six percent (36%) share ownership in Bear Valley Mutual Water Company, is provided to substantiate the methodology used to calculate the Santa Ana River recharge credit.

Additionally, the committee requested the installation of more accurate metering/monitoring equipment at the Cooley Hat diversion in the near future. During the discussion, I mentioned that this site is already scheduled for a SCADA system upgrade in 2022. After the meeting, I asked my staff to prioritize this installation ahead of other SCADA system upgrade sites. Redlands is committed to accelerating this portion of the larger SCADA system upgrade project.

I respectfully request this item be included on the February 14, 2022 Groundwater Council meeting agenda for discussion and action.

Feel free to contact me if additional information is needed.

Thank You.

John R. Harris

City of Redlands Municipal Utilities and Engineering Department Director

(909) 798-7658

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Cc: Katelyn Scholte, SBVWCD Assistant Engineer;

Matt Howard, SBVMWD Water Resources Senior Planner;

George Hanson, Bear Valley Mutual Water Company/Crafton Water Company General

Manager



	ızı	Recharge from Mill Creek Diversions	ill Creek Div	versions		Rec	harge from	Recharge from Santa Ana River Redlands Aqueduct Diversions	Redlands A.	queduct Diversio	sui			Recharge fr	om Santa	Recharge from Santa Ana River Highline Diversions	Diversions		
-eclipter	, O C	East Weir Discharge to MIII Crk	m \$≥	East Weir to Zanja West Weir		Redlands Aqueduct Sandbox	_	Lower Mill Creek Ponds	2 &	Mentone Reservoir		Airport Ponds		Highline Upper Mill Creek		Gun's Ponds	E . 0	Fifth Ave Sand Canvon	TOTAL Amount Recharged
	į.	(AF)		(AF)	· ·	3		(AF)	·	(AF)		(AF)	ı	(AF)	·	(AF)	,	(AF)	(AF)
	Gross	Rediands Net		Gross Rediands Net	Gross	Kedlands Net	Gross	Hediands Net	Gross	Kedlands Net	Gross	Redlands Net	Gross	Redlands Net	Gross	Rediands Net	Gross	Rediands Net	Redlands Net
2017 Total	3299	2119	647	110	0	0	0	0	0	0	1517	552	184	29	ın	2	2	2	2852
2018 Total	1130	1064	419	363	09	22	0	0	0	0	607	258	84	31	9	2	1	0	1740
2019 Total	2263	1265	1328	186	1013	368	0	0	22	80	2867	1042	134	49	19	7	377	137	3062
2020 Total	3871	2781	571	61	59	21	1582	575	0	0	2379	865	59	21	56	6	7	m	4336
2021 Total	1305	929	874	643	75	27	687	250	0	0	1082	393	89	32	21	00	0	0	2282

See separate analysis for determination
of City of Reclands MIII Creek recharge
as ranamatrited by email of Katelyn Scholte,
stransmitted by email of Katelyn Scholte,
The "Gross
Wednesday February 2, 2022, 103.9 PM

City of Reclands reports that City of Reclands owns 90,952 shares of Bear Valley Mutual Water Company
Bear Valley Mutual Water Company reports this Bear Valley Mutual Water Company has 250,137 shares outstanding.
The "Cross" quantities shown as from record of Bear Valley Mutual Water Company. The "Cross" quantities shown as from record of Bear Valley Mutual Water Company.
The "Net" recharge quantities have been proportioned based on City of Reclands ouvership of Bear Valley Mutual Water Company shares.

### Introduction to Following Table

### Mill Creek -

Mill Creek is diverted by Southern California Edison Company near Forest Falls and at the Highway 38 bridge. Southern California Edison Company has no water rights. Mill Creek Owners hold the water rights. Southern California Edison Company returns possession of the water to the Mill Creek Owners at the afterbay of Southern California Edison Company Mill Creek Powerhouse Number 1. Mill Creek Owners operate and maintain the conveyance facilities from Southern California Edison Company Mill Creek Powerhouse Number 1 to the Cooley Hat and Henry Tate Water Treatment Plant and the East Weir.

The City of Redlands (City) and Crafton Water Company (CWC) are partners in the Mill Creek Owners. The City also owns CWC shares directly and indirectly. CWC delivers water to meet the needs of its shareholders, and the City becomes the possessor of water requested from CWC. The City can elect to direct water from the Mill Creek Diversion works through the East Weir to Mill Creek for recharge, and may also direct water from the Mill Creek diversion works through the East Weir to the Zanja where water percolates into the ground and becomes recharge unless the water is re-diverted into the Crafton Canal at the West Weir on the Zanja by CWC.

### Santa Ana River —

The City owns numerous water company shares including prior right companies, Redlands Water Company and Lugonia Water Company. The City also owns numerous shares of Bear Valley Mutual Water Company. The City is also the beneficiary of shares of companies with which the City has delivery agreements. These water companies deliver water to meet the needs of their shareholders.

Southern California Edison Company diverts the waters of the Santa Ana River at numerous locations. Southern California Edison Company does not own the water rights and returns the diverted Santa Ana River water to Bear Valley Mutual Water Company. Bear Valley Mutual Water Company operates diversion and conveyance works on the Santa Ana River. The City may request that water diverted from the Santa Ana River be delivered into numerous ground water recharge facilities from the Santa Ana River diversion and conveyance facilities.

The attached data illustrates the deliveries of water diverted for groundwater recharge by the City and by mutual water companies as requested by the City.



### NOTES:

### Cooley Hat Flow

This column contains daily flow copied from the DFR Coliumn T3

### Mill Creek Users

This column contains the determination of the 44.7 percent ownership of the diverted flow of Mill Creek that City of Redlands owns as a Mill Creek User

### Crafton Water Company

This column contains the daily equivalent flow of 156 shares of Crafton Water Company that is delivered to City of Redlands Tate Treatment

### Redlands Heights

Redlands owns 982.5 shares of Redlands Heights and provides service to 296 shares of Redlands Heights Water Company

Mill Creek water is delivered to Tate Treatment Plant for 1278.5 shares of Redlands Heights Water Company

## Total Flow Available to Redlands

This quantity is the total daily flow allocated to City of Redlands from the diverted flows of Mill Creek The data in this column is the sum of the flow rates in the preceding three columns. Mill Creek Users, Crafton Water Company and Redlands Heights Water Company

# subtract flow delivered to Tate Treatment

The values in this column are extracted from the Daily Flow Report item P3

Flow delivered to Henry Tate Water Treatment Plant is purified and flows into the City of Redlands drinking water distribution system for consumptive use

# leaves allocation deliverable for recharge

subtraction of deliveries to Tate Water Treatment Plant leaves a numeric value of the water resources of Mill Creek that City of Redlands can continue to claim as its water resource that City of Redlands may divert to the East Weir for groundwater recharge.

# allocation deliverable greater than zero

infrequently City of Redlands takes more than its allocated flow to the Henry Tate Water Treatment Plant. When this event occurs, City of Redlands no longer has water resource claim to water that might be diverted to the East Weir for groundwater recharge uses. The method used in preceding columns generates a negative number value when City of Redlands takes more water than its allocation. The subsequent columns do not work with negative numeric values.

## East Weir delivery to Mill Creek

The data in this column are copied from Daily Flow Report Column P3

## Redlands allocation remaining

The dntry is the quantity of allocation that City of Redlands has not yet received but may recover from recharge in the Zanja The data in this column contains a simple subtraction: Allocation deliverable greater than zero column entries minus East Weir delivery to Mill Creek entries

# Recharge equals lesser of allocation or actual flow

The data is the lesser amount of the Allocation deliverable greater than zero or the east Weir delivery to Mill Creek

## Redlands Unmet allocation portion

City of Redlands my have unused allocation after deliveries to Tate Treatment Plant and East Weir to Mill Creek. The data in this column are the same as in the above column labeled Redlands allocation remaining

### East Weir to Zanja

The values in this column are extracted from the Daily Flow Report item S3

# West Weir diversion to Crafton Water Company

The values in this column are extracted from the Daily Flow Report item V3

## apparent recharge in Zanja

The values in this column are East Weir to Zanja minus West Weir diversion to Crafton Water Company

The values can be negative when more water is diverted at West Weir that did not flow from the East Weir(when SWP is delivered at Unger Lane)

## Zanja available recharge

These data are the same as the apparent recharge in Zanja with negative numbers being corrected to zero

## Remaining unmet allocation

These data are determined by subtracting the Zanja available recharge from the Redlands unmet allocation portion

Recharge equals lesser of allocation or actual flow