

### LAS VIRGENES MUNICIPAL WATER DISTRICT

4232 Las Virgenes Road, Calabasas, CA 91302

### AGENDA REGULAR MEETING

Members of the public wishing to address the Board of Directors are advised that a statement of Public Comment Protocols is available from the Clerk of the Board. Prior to speaking, each speaker is asked to review these protocols, complete a speakers' card, and hand it to the Clerk of the Board. Speakers will be recognized in the order the cards are received. A live webcast of the meeting will be available at LVMWD.com. Also, a web-based version of the speaker card is available for those who would like to submit written comments electronically or request to make public comment by telephone during the meeting.

The <u>Public Comments</u> agenda item is presented to allow the public to address the Board on matters not on the agenda. The public may also present comments on matters on the agenda; speakers for agendized items will be recognized at the time the item is called up for discussion.

Materials prepared by the District in connection with the subject matter on the agenda are available for public inspection at 4232 Las Virgenes Road, Calabasas, CA 91302. Materials prepared by the District and distributed to the Board during this meeting are available for public inspection at the meeting or as soon thereafter as possible. Materials presented to the Board by the public will be maintained as part of the records of these proceedings and are available upon request to the Clerk of the Board.

9:00 AM August 6, 2019

### **PLEDGE OF ALLEGIANCE**

- 1 CALL TO ORDER AND ROLL CALL
- 2 **APPROVAL OF AGENDA**
- 3 **PUBLIC COMMENTS**

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2

### 4 CONSENT CALENDAR

Matters listed under the Consent Calendar are considered to be routine, non-controversial and normally approved with one motion. If discussion is requested by a member of the Board on any Consent Calendar item, or if a member of the public wishes to comment on an item, that item will be removed from the Consent Calendar for separate action.

- A List of Demands: August 6, 2019 (Pg. 5)
  Ratify
- B Minutes: Regular Meeting of July 23, 2019 (Pg. 36)
  Approve
- C Directors' Per Diem: July 2019 (Pg. 44)
  Ratify

### 5 ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

- A Legislative and Regulatory Updates
- B Water Supply Conditions Update (Pg. 50)

### 6 TREASURER

### 7 **BOARD OF DIRECTORS**

A ACWA Committee Appointment Nominations for 2020-2021 Term (Pg. 52)

Select candidates for ACWA committee appointment or re-appointment consideration, and authorize the General Manager to sign and return the completed Committee Consideration Form to ACWA no later than September 30, 2019.

### 8 FACILITIES AND OPERATIONS

A Rondell Oasis Hotel: Easement Encroachment Agreement (Pg. 57)

Authorize the General Manger to execute the Easement Encroachment Agreement with Rondell Hotel, LLC, authorizing an encroachment for construction of improvements associated with the Rondell Oasis Hotel at 26300 Rondell Road, Calabasas.

B Liberty Canyon Emergency Fire Hydrant Repair: Ratification of Emergency Declaration (Pg. 67)

Pass, approve and adopt proposed Resolution No. 2560, ratifying the General Manager's declaration of an emergency that requires immediate action without delay to perform sidewalk and asphalt pavement repair on Liberty Canyon Road.

### **RESOLUTION NO. 2560**

A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT FINDING THAT AN EMERGENCY WOULD NOT PERMIT A DELAY RESULTING FROM A COMPETITIVE SOLICITATION FOR SIDEWALK AND ASPHALT REPAIR RESULTING FROM A FIRE HYDRANT BREAK ALONG LIBERTY CANYON ROAD NEAR THE AGOURA ROAD INTERSECTION IN AGOURA HILLS

(Reference is hereby made to Resolution No. 2560 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

### 9 FINANCE AND ADMINISTRATION

A Financial Analysis and Rate Study: Award (Pg. 78)

Accept the proposal from Raftelis Financial Consultants, Inc., and authorize the General Manager to execute a professional services agreement, in the amount of \$99,171, for preparation of a financial analysis and rate study.

B Financial Advisory Services: Award (Pg. 145)

Accept the proposal from Piper Jaffray, and authorize the General Manager to execute a five-year professional services agreement, in the amount of \$100,000, with one five-year renewal option for financial advisory services.

### 10 **INFORMATION ITEMS**

A GFOA Certificate of Achievement for Excellence in Financial Reporting and Award for Popular Annual Financial Report (Pg. 206)

### 11 NON-ACTION ITEMS

- A Organization Reports
- B Director's Reports on Outside Meetings
- C General Manager Reports
  - (1) General Business
  - (2) Follow-Up Items
- **D** Director's Comments

### 12 **FUTURE AGENDA ITEMS**

### 13 **PUBLIC COMMENTS**

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by

### Subdivision (b) of Government Code Section 54954.2

### 14 **CLOSED SESSION**

### 15 **OPEN SESSION AND ADJOURNMENT**

Pursuant to Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and applicable federal rules and regulations, requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting, should be made to the Executive Assistant/Clerk of the Board in advance of the meeting to ensure availability of the requested service or accommodation. Notices, agendas, and public documents related to the Board meetings can be made available in appropriate alternative format upon request.

# LAS VIRGENES MUNICIPAL WATER DISTRICT

To: LYNDA LO-HILL, TREASURER

Payments for Board Meeting of :

August 6, 2019

Deputy Treasurer has verified that all checks and wire transfers were issued in conformance with LVMWD Administrative

Code Section 2-6.203.

Wells Fargo Bank A/C No. 4806-994448

Checks Nos. 82579 through 82707 were issued less voids/stop payments in the total amount of

1,192,885.71

₩

Payments through wire transfers as follows:

1,192,885.71 Sub-Total Wires Total Payments

(Reference is hereby to these demands on file in the District's Check-Register and by this reference the

same is incorporated herein and made a part hereof.)

# CHECK LISTING FOR BOARD MEETING 08/06/19

Check No. 82674 thru 82707

Check No. 82579 thru 82673

;		07/23/19	07/30/19	
Company Name	Company No.	Amount	Amount	Total
Potable Water Operations	101	25,885.52	4,513.35	30,398.87
Recycled Water Operations	102			•
Sanitation Operations	130	980.46	98.45	1,078.91
Potable Water Construction	201	5,153.72	8,022.85	13,176.57
Water Conservation Construction	203			1
Sani- Construction	230			
Potable Water Replacement	301	11,936.75	29,215.67	41,152,42
Reclaimed Water Replace	302			1
Sanitation Replacement	330	16,931.55		16,931.55
Internal Service	701	177,462.76	57,499.54	234,962.30
JPA Operations	751	136,440.39	9,727.45	146,167.84
JPA Construction	752			2
JPA Replacement	754	657,287.03	340,937.68	998,224.71
	Total Printed	1,032,078.18	450,014.99	1,482,093.17
Voided Checks/payment stopped:				
Check #82571	754	(289,207.46)		(289,207.46)
	Total Voids	(289,207.46)		(289,207.46)
	Net Total	742,870.72	450,014.99	1,192,885.71

07/23/19 9:58;47 Page -Las Virgenes Municipal Water A/P Auto Payment Register 273230 Batch Number -

00146807 Cash-General

Bank Account -

R04576

134983 134652 XT00141999A 4646 1500-00457979 C2748950 INT-C2748950 9999412 1500-00457978 M-0842 4-263788 9963315340 Invoice Number 52.88 51.00 754.00 638,48 385.80 6,212.50 1,200.00 65.00 65.00 2,969.49 1,179.35 390,97 Amount 385.80 390,97 1,200.00 1,443.48 6,212.50 1,179.35 3,022.37 001 00701 001 00701 001 00701 001 00101 00751 00701 001 00101 001 00751 001 00701 001 00101 001 00751 001 00701 පි è 001 8 Ē . . . Document . . . 165160 165170 165171 165172 165215 165224 165148 165174 165159 165306 165307 165254 Number ≥i ≥ ≥ ≥ 2 ₹ ₹ ≥ ₹ ≥ ≥ ₹ 2 Payment Stub Message CYLINDER RENT RPR FENCE-TWN Payment Amount LGLAD-HEALTH DISPLAY AD-NO WINDSHIELD-#8 RFND-PPC BAL 27489 AGOURA UPGRADE-5% BAL-CLOSED DSPL-TAPIA WASTE OIL WASTE OIL BAL/27489 AGOURA DSPL-RLV AD-WQR DISPLAY INT-PPC CMPST CIS V4 GOALS UN'19 RPLC RFND PASADENA CA 91109-7423 Ş LKS AIRGAS USA, LLC P. O. BOX 7423 Name ENVIRONMENTAL **ALL AMERICAN** ACTION AUTO PROPERTIES NEWSPAPER AIRGAS USA, CONCRETE ADVANCED SERVICES SYSTEMS ALL STAR FENCE & ASPHALT ASBURY UTILITY ACORN GLASS APB CLC 6658 Address Number 19043 8560 14518 17396 16224 2317 18661 3077 Alt Payee . . . Payment . . . . Number Date 82582 07/23/19 82579 07/23/19 82580 07/23/19 82581 07/23/19 82584 07/23/19 82583 07/23/19 82585 07/23/19 88586 07/23/19

Las Virgenes Municipal Water A/P Auto Payment Register

00146807 Cash-General

Bank Account -Batch Number -

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Invoice Number	1500-00456551			077367				08-11901						0051/070519		0051/070519		0051/070519			0051/070519		0051/070519		0051/070519		0051/070519		0051/070519		0051/070519	81c0/0/1c00		0051/070519		0051/070519		0051/070519		0051/070519		0051/070519		0051/070519	
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				7/5~8/4/19						
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				717~8/6/19						
				SRV	≥	165293	001 00101	01 67.07	0123/070719	
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Payment Number Date	Address Number	Name	Payment Stub Message		. Document y Number	. Key Am	Amount	Invoice Number	
			Payment Amount			165.86			ı
82596 07/23/19	18080	BOOT BARN	SFTY	≥	165168	001 00701	199.33	IVC0186156	
		INC.	F.WEAR-SJ						
			Payment Amount			199.33			
82597 07/23/19	21346	CABLESTAY	RFND DEP	۶	165250	001 00701	3,194,63	R2402550	
		INVESTMENTS,	BAL@24025 HDN						
		TLC	RDG						
			INT-DEP	δ	165251	001 00701	43.53	INT-R2402550	
			BAL@24025 HDN						
			RDG						
•			Payment Amount			3,238.16			
82598 07/23/19	18859	CALABASAS	RFND-PPC BAL	₹	165304	001 00701	4,794.60	T6048850	
		BLUE LLC	4240 LV RD						
			INT-PPC	Z	165305	001 00701	85.39	INT-T6048850	
			BAL/4240 LV						
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			Payment Amount						
82599 07/23/19	2364	CA DEPARTMENT	SALES/USE TAX	δ	165322	001 00701	3,106.00	097-817885/06	
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			Payment Amount			3,106.00			
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		CORPORATION	6/30-CORNELL						
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			P/E 6/30 DSGN	≥	165275	001 00701	5,153.72	69477	
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82601 07/23/19	1810/	CAROLLO	P/E 4/30-PURE	≥	165198	001 00701	20,723.25	0177451	
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82602 07/23/19	2786	CEDAR VALLEY	T&S	≥	165267	001 00701	146.15	. 102166	
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Las Virgenes Municipal Water A/P Auto Payment Register

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Batch Number -

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102459 85468 2130789 352807 R2631650 10626/RTN#4 \$1338448.003 5-610-70421 2815898 SIP-E101222 T4534201 NT-T4534201 Invoice Number 33,445,46-124,85 51.72 15.49 1,688.38 310.00 15,920.00 449.65 30.07 8.64 615.88 21,776.27 668,909.24 Amount 15.49 51.72 449.65 310.00 124.85 360.05 615.88 635,463.78 1,718.45 21,776.27 001 00701 001 00701 001 00701 001 00701 1001 00701 001 00701 001 00101 001 00701 001 00754 001 00701 001 00701 001 00701 001 00751 දි Ř. Ē . . . Document . . . 165200 165252 165206 165149 165240 165315 165271 165169 165199 165253 165223 165234 165225 Number ≥. ≥ ₹ ≥ . |≏| ≥ ≥ ≥ В ₹ 2 ≥ ≥ ≥ Payment Stub Message Payment Amount PKG DLVRD 7/1 FITTINGS/SOLD METER BOXES PIPE FITTINGS RTN #4-TWRF INSTALL CELL BAL@5757 LV **BKGRND CK-1** BAL@5727 LV BAL-CLOSED PMT#4-TWRF JUN'19 MTR **มบ**ู้ "19 WTR DVC MAINT COMM-BD7 RFND-DEP DEP-26316 PROC AIR PROC AIR INT-DEP **TRMNT** RFND RFND ΥC 出 Name DOHENY-VIDOVI EXPRESS CORP INTERNATIONAL CONTRACTING CORPORATION CORPORATION DIAL SECURITY CH PARTNERS JOYCE ESSEX DANGELO CO. RICH FELTKE CHEMTREAT, RELATIONS EMPLOYEE NETWORK CUSHMAN ELECSYS FEDERAL S S 00146807 Cash-General Address 21349 Number 2658 16628 17877 18111 18441 18860 21201 3238 11330 Number Date 07/23/19 82609 07/23/19 82611 07/23/19 82612 07/23/19 Bank Account -82607 07/23/19 82608 07/23/19 82610 07723/19 82603 07/23/19 82604 07/23/19 82605 07/23/19 82606

FAIRSIDE

Batch Number - 273230

Bank Account - 00146807 Cash-General

R04576

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	Invoice Number	INT-R2631650			071219			R0283450			INT-R0283450				2906965-0283-	7	2531721-0283-	2		,				10498639			077256				B34279				9208544982		9202979481			9194589678	
	Amount	41.07			2,203.68			1,070.00			19.05				712.04		581.45							318.85			103.18				525.00				19.14		584.07			122.07	
;	. Key Itm Co Am			15,961.07	001 00701		2,203.68	001 00701			001 00701			1,089.05	001 00701		001 00751							001 00701		318.85	001 00101			103.18	001 00101			525.00	001 00751		001 00751			001 00701	
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: : :	Payment Stub Message	INT-DEP/26316	FAIRSIDE	Payment Amount	EXP-ESRI CONF	717~7112119	Payment Amount	RFND DEP	BAL-2834	SEQUIT	INT-DEP	BAL/2834	SEQUIT	Payment Amount	7/19 DISP-HQ	& SHOP	6/16~6/30/19	TAPIA RAGS	DISP		4 4 000	0054-1065	Payment Amount	7/19 ARMORED	TRNSPT SRV	Payment Amount	RFND	BAL-CLOSED	AVC	Payment Amount	TREE	SRV@WARNER	P/S	Payment Amount	FLTRS-INFLNT	PMP	TRASH	CANS-RLV/TAPI	۷	18V RIGHT	ANGLE DRILL
:	Name				GARY FIELDS			MICHAEL	FRIEDMANN						G.I.	INDUSTRIES				6771 G.I. INDUSTRIES	F. C. BOX 34 1063	LOS ANGELES CAS		GARDA CL	WEST, INC.		JAN GERSTEL				GOMEZ	LANDSCAPE &	TREE CARE		GRAINGER,	INC.					
:	Address Number				15704			21347							6770					Alt Payee				20970			21340				21333				2701						
	Payment Number Date				82613 07/23/19			82614 07/23/19							82615 07/23/19									82616 07/23/19			82617 07/23/19				82618 07/23/19				82619 07/23/19	1.	2				

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Payment Amount

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SOFTWARE

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**2402** 

82624 07/23/19

2207 COLLECTIONS CENTER DR.

HACH COMPANY

15201

Alt Payee

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CHICAGO IL 60693

SENSOR

C/O PONTON INDUSTRIES

5,386.50

R04576		Las Virgenes Municipal Water A/P Auto Payment Register	07/23/19 Page -	9:58:47 8
Batch Number -	273230			
Bank Account -	00146807 Cash-General			

			22071					964-2019_6			074431				071119			017698/071519			2645/070319				2646/070319		2652/070319		2655/070319		0558/070319		0331/070319		0907/70319		0909/070319			R2650950
•	Invoice		147.83					5,389.50			137.33				1,689.55			46.23 0176			146.89 26				188.56 26		256.23		192.44		25.01 0!		25.01 0:		149.25		489.50 09			1,580.82
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	Document Tv Number		PV 165209					PV 165201			PV 165154				PV 165235			PV 165266			PV 165140				PV 165141		PV 165142		PV 165143		PV 165144		PV 165145		PV 165146		PV 165147			PV 165246
	Payment Stub Message	Payment Amount	COMPOST SIGNS				Payment Amount	IC TRAN	FEES-JUN'19	Payment Amount	RFND	BAL-CLOSED	A/C	Payment Amount	EXP-ESRI CONF	717~711119	Payment Amount	RECTIFIER	6/12~7/12/19	Payment Amount	RWPS	5/29~6/26/19			BD#8/RECL	5/29~6/26/19	BD#8/RW	5/29~6/26/19	BD#7/RW	5/29~6/26/19	IND HITTS	5/30~6/27/19	MORRSN P/S	5/30~6/27/19	WLK FLT	5/30~6/27/19	WLK FLT	5/30~6/27/19	Payment Amount	RFND DEP
	Мате		INTERNATIONAL	PRINTING &	IYPESELLING	<u>IN</u> C		INVOICE CLOUD	INC.		VLADIMIR	ISPEROV			ANDREA	KAJGANIC		LADWP			LAS VIRGENES	MUNICIPAL	WATER	DISTRICT																MICHAEL S.
00146807 Cash-General	Address		20856					20823			21341				21070			2611			3352																			21348
Bank Account - 001	Payment Number Date		82625 07/23/19					82626 07/23/19			82627 07/23/19				82628 07/23/19			82629 07/23/19			82630 07/23/19															•	14			82631 07/23/19

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R04576	Las Vrgenes Municipal Wate	nicipal Water	07/23/19 9:E	9:58:47
	A/P Auto Payment Register	nt Register	Page - 9	9
Batch Number -	273230			

Bank Account - 00146807 Cash-General

7228 073263 2192224 800211 INT-X0521750 4206-914995 4206-915054 4206-915360 R2650950/INT X0521750 4206-915008 4206-916546 CA22-645126 Number Invoice 230.59 16.08 51.46 68.95 235,00 160.39 115,29 37.27 11.15 83.32 89.41 27,240.02 5,299.38 Amount 68,95 450,69 27,240.02 83.32 5,388.79 1,591.97 160,39 001 00101 001 00701 001 00701 001 00701 001 00701 001 00101 001 00101 001 00101 001 00701 001 00701 001 00701 001 00701 001 00701 ပိ ş Ē . . . Document. . . 165205 165256 165257 165258 165259 165260 165300 165301 165216 165155 165226 165222 165247 Number <u>~</u> ≥ ≥ 3 ≥ ≥ ≥ ≥ 2 ≥ ≥ ≥ ≥ ≥ Payment Stub Message Payment Amount V BELTS-PUMP RFND-PPC BAL JUL 19 FLORAL 8,681 GAL REG JUN'19 ELECT BAL-CLOSED O2 SENSORS O2 SENSORS SPARK PLUG BAL/5217 LV PAYSTUBS BAL@26509 5217 LV RD STATIONS RADIATOR SHEAVE & UNLEAD CAP-#891 BUSHING INT-PPC INT-DEP MLHND BOOTS RFND MOTION INDUSTRIES INC. FILE 749376 LOS ANGELES CA 90074 AC 8 Name PAYMENT CORP. ENERGY GROUP MARIPOSA LLC RECREATION & INDUSTRIES, MOUNTAINS MERRIMAC AUTHORITY NAPA AUTO NATIONAL NATURAL MOTION CONSV PARTS 10317 Address Number 16754 21342 2842 20772 20973 2839 10037 Alt Payee . . . Payment . . . . Number Date 82636 07/23/19 82638 07/23/19 82632 07/23/19 82634 07/23/19 82635 07/23/19 07/23/19 82633 07/23/19 82637

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Las Virgenes Municipal Water A/P Auto Payment Register

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Batch Number -	ımber -	273230									
Bank A	Bank Account -	00146807 Cash-General	seneral Seneral								
Pay Number	Payment Number Date	Address Number	Name	Payment Stub Message	_: ⊾	Document	₹	Key Co Am	Amount	Invoice	
			SURROUNDINGS	MAINT							
				Payment Amount				235.00			
82639	07/23/19	21134	NEW EARTH	DISP	δ	165272	9	00701	23,269.14	800	
			USA, LLC	BIOSOLIDS-JUN							
				19							
				Payment Amount				23,269.14			
82640	07/23/19	13635	O. K.	RPR RLV COGEN	₹	165158	90	00751	682,50	26473	
			RADIATOR SHOP	COOLERS							
				Payment Amount				682.50			
82641	07/23/19	16372	. NITO	4,932 GAL	₹	165227	001	00701	3,973.07	2700216	
			CORPORATION -	HYPOCHLORITE							
			CHLORALKALI								
		Alt Payee	16373 OLIN CORPORATI	OLIN CORPORATION - CHLOR ALKALI							
			P.O. BOX 402766								
			ATLANTA GA 30384-2766	4-2766							
	.,			Payment Amount				3,973.07			
82642	07/23/19	20728	OLIVAREZ	LEGAL	₹	165211	001	10200	22,098.16	140/JUN*19	
			MADRUGA	SRV-JUN'19							
			LEMIEUX &								
			O'NEILL								
				LEGAL	≥	165211	002	00701	4,029.60	140/JUN'19	
				SRV-JUN'19							
				Payment Amount				26,127.76			
82643	07/23/19	18946	PACIFIC	P/E 6/30-TP	₽	165197	00	00701	1,100.00	3035	
			ADVANCED	FLOOR REHAB							
			CIVIL					,		٠	
			ENGINEERING,								
			INC.								
				Payment Amount				1,100.00			
82644	07/23/19	18116	PACIFIC	ASSIST-MCC	≥	165176	99	00751	1,995.62	5351	
			ENERGY	CLNG-RLV							
			CONSTRUCTION								
			CORPORATION								
				Payment Amount				1,995.62			
82645 1	07/23/19	12954	POLYDYNE INC.	43,160 LBS	₹	165229	001	10700	51,986.22	1364238	
6				CLARIFOC							
				Payment Amount				51,986.22			
82646	82646 07/23/19	4940	PRES-TECH	RPR VACUUM	≧	165208	6	00701	10,372,32	8626	
				TRAILER							
				Payment Amount				10,372.32			

Las Virgenes Municipal Water	A/P Auto Payment Register

R04576

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Batch Number - 273230 Bank Acrount - 00146807	30 807 - Cash-General	inneri	A/P Auto Payment Register	ster	•		Page -	6- 11	
		<u> </u>		ı	,	:			
Payment	Address	Name	Payment Stub Message	on. ≥ : ,≥	Document Tv Number	Han Co	Amount	Invoice	
82647 07/23/19	20334	PRUDENTIAL	6/19	1	165178	-	61.90	170920347	
		OVERALL	UNFRMS/MATS/T						
		SUPPLY	WLS						
			6/19	≥	165178	002 00701	61.87	170920347	
			UNFRMS/MATS/T						
			WLS						
			6/19	≥	165179	001 00701	61.90	170921883	
			UNFRMS/MATS/T		•				
			WLS						
			6/19	≥	165179	002 00701	61.87	170921883	
			UNFRMS/MATS/T						
	,		WLS						
			6/19	≥	165180	001 00701	61.90	170923364	
			UNFRMS/MATS/T						
			WLS						
			6/19	≥	165180	002 00701	61:87	170923364	
			UNFRMS/MATS/T						
			WLS					•	
			6/13	≥	165181	001 00701	61.90	170924860	
			UNFRMS/MATS/T						
			WLS						
			6/19	≧	165181	002 00701	61.87	170924860	
			UNFRMS/MATS/T						
			WLS						
			6/19	ĕ	165182	001 00701	9.80	170920342	
			UNFRMS/MATS/T						
			WLS						
			6/19	₹	165182	002 00701	21.44	170920342	
			UNFRMS/MATS/T						
			WLS						
			6/19	≥	165183	10700 100	9.80	170921878	
			UNFRMS/MATS/T						
			WLS						
			6/19	₹	165183	002 00701	21.44	170921878	
			UNFRMS/MATS/T						
17			WLS						
			6/19	≥	165184	100701	9.80	170923359	
			UNFRMS/MATS/T						

170923359

21.44

WLS 6/19 UNFRMS/MATS/T

170924859

28.40

165193 001 00701

≥

UNFRMS/MATS/T

WLS 6/19

WLS 6/19

170924859

30.83

165193 002 00701

≥

R04576		Las Virgenes Municipal Water AP Auto Payment Register
Batch Number - 273230	273230	
Bank Account -	00146807 Cash-General	ish-General

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Address	Name	Payment Stub Message		Document Tv Number	. #	Key Am	Amount	Invoice
		UNFRMS/MATS/T	- 1	150	<u></u>	3		IAULIDEI
		WLS						
		Payment Amount				1,797.58		
RAS	RASHEL ROKNI	RFND	≥	165156	00	00101	165.94	025905
		BAL-CLOSED						
		ΑC						
;	1	Payment Amount				165.94		
SDI	SDI PRESENCE LLC	P/E 6/30-ERP CONSLT SRV	₹	165273	904	00701	3,062.50	2958
20936		TC						
	29290 NETWORK PLACE CHICAGO IL 60673-1292	. PLACE 3-1292						
		Payment Amount				3,062,50		
SECORP	SECORP INDUSTRIES	TEST/RPR SCBA BOTTLES	₹	165157	001	001 00701	526,82	10064030
3203		RIES						
	P. O. BOX 687 RIDGELAND MS 39158-0687	39158-0687						
		Payment Amount				526.82		
SOL	SOUTHERN	ANNVRSY	≥	165173	9	001 00701	465.86	060303-19
CAL	CALIFORNIA	GIFTS-3 EE'S						
TRO	TROPHY							
COM	COMPANY							•
		Payment Amount				465,86		
SPO	SPOK, INC.	PAGER SRV	۶	165243	001	001 00701	71.26	C0143084S
		7/11~8/10/19						
		PAGER SRV	₹	165243	005	00701	.49	C0143084S
		7/11~8/10/19						
		PAGER SRV	≥	165243	003	10700	42.30	C0143084S
		7/11~8/10/19						
		Payment Amount				114.05		
Mil	TIM W. STAUBS	RFND	≥	165151	90	001 00101	239.22	800266-036146
		BAL-CLOSED						
		A/C						
		Payment Amount				239.22		
∀ ⊢	T & T TRUCK &	CRANE-RESET	Ρ	165231	90	10700	860.00	0142172-IN
CR	CRANE SERVICE	MOTOR-HQ						
		Payment Amount				860.00		
岜	TERRAVERDE	P/E 6/30	≥	165195	8	001 00701	7,551.13	321
ENE	ENERGY LLC	PRE-DSGN ST						

R04576			Las Virgenes Municipal Water A/P Anto Payment Register	Water				07/23/19 9:58:47 Page - 14
Batch Number - 273230	230			į				
Bank Account - 0014	00146807 Cash-General	Seneral						
Payment Number Date	Address	Name	Payment Stub Message	. 5 . 5	. Document	. Key An	Amount	Invoice
			Payment Amount	1		1		
82656 07/23/19	21137	TESLA, INC.	RW P/S-JUN'19 SOLAR	g	165214	001 00701	18,296.91	12252859
			Payment Amount			18,296.91		
82657 07/23/19	9202	TIREMAN	FLAT	✓	165255	001 00701	45.00	2080864
		AGOURA	RPR/ROTATION-					
			Payment Amount			45.00		
82658 07/23/19	17645	TORO	P/E 6/30 MAIN	≥	165196	001 00701	5,859.90	12659
		ENTERPRISES	RPR-LKSHOR					
			4			000000		
82659 07/23/19	20880	TPX	SBV	۵ ک	165296	9,833.30	492.88	118834381-0
		COMMUNICATION	7/16~8/15/19					
		S						
			SRV	≥	165296	002 00701	200.00	118834381-0
			7/16~8/15/19	i	1		,	
			SRV	₹	165296	003 00701	182.87	118834381-0
			8L/SL/9~9L/	i			!	1
			SRV 7/16~8/15/19	<u>₹</u>	165296	004 00/01	166.87	118834381-0
			SRV	2	165296	005 00701	200.00	118834381-0
			7/16~8/15/19	• •				
			SRV	≥	165296	006 00701	1,100.40	118834381-0
			7/16~8/15/19					
			SRV	≥	165296	10700 700	1,102.10	118834381-0
			7/16~8/15/19				-	
			SRV 7/16~8/15/19	₹	165296	008 00701	1,323.52	118834381-0
			SRV	8	165296	009 00701	215.70	118834381-0
			7/16~8/15/19					
			SRV	₽	165296	010 00701	200.00	118834381-0
			7/16~8/15/19					
			SRV	۸	165296	011 00701	951.00	118834381-0
4			7/16~8/15/19					
20			Payment Amount			6,135.34		
82660 07/23/19	21252	TYLER	SRV@ 6/24-ERP	≥	165218	001 00701	700.00	045-269293
		TECHNOLOGIES, INC.	IMPLTN					
		<b>3</b>	6/10~6/20-ERP	₹	165276	001 00701	13,169.05	045-268386
			IMPLTN					

R04576	Las Virgenes Municipal Water	07/23/19 9:58:47	9:58:47
	A/P Auto Payment Register	Page - 15	15
Batch Number -	273230		

Bank Account - 00146807 Cash-General

Invoice	Number		620190416			18DSBFEE3352			000025W020289	/2019		99380		99380		99380			9099				20484			LVMWD 2019-6			LVMWD 2019-6		LVMWD 2019-6			8086695934		8086805757		
Amount			478.60			200.76			12.22			8,515.53		2,395.60		196.56			750.00				8,147.99			1,035.00			2,925.00		540.00			458.91		214.22		
Key	3	13,869.05	001 00101			001 00101		679.36	001 00701		12.22	001 00701		003 00701		005 00701		11,107.69	001 00701			750.00	001 00701		8,147.99	001 00701			002 00701		004 00701		4,500.00	10700 100		001 00701		
Ξ.	MULIDE		7 165167			165245			165265			165230		165230		/ 165230			165207				165232			165297			165297		J 165297			J 165263		J 165264		
	<u>-</u> -		Ρ			≧			δ			ĕ		Α		₹			ĕ				₹			₽			δ		Ρ			₽		δ		
Payment Stub Message		Payment Amount	284	TICKETS-JUN'1	6	DIG SAFE	PERMIT FEE	Payment Amount	PKG DLVRD	5/20	Payment Amount	JANTRL	SRV-JUN'19	JANTRL	SRV-JUN'19	JANTRL	SRV-JUN'19	Payment Amount	P/E 6/30	AMR/AMI	CONSLT SRV	Payment Amount	RPR 500C	NATNL CRANE	Payment Amount	LANDSCAPE	SRV-JUN'19		LANDSCAPE	SRV-JUN'19	LANDSCAPE	SRV-JUN'19	Payment Amount	PIPETS		gos	SULFITE/2-PRO	PANOL
Nаme			UNDERGROUND	SERVICE ALERT					UNITED PARCEL	SERVICE		US METRO	GROUP, INC.						UTILIWORKS	CONSULTING,	TIC		VENTURA CRANE	INC.		VILLA	ESPERANZA	SERVICES						VWR	SCIENTIFIC			
Address	Number		3006						3429			20935			•				21154				21296			13326								3035				
Payment	Number		82661 07/23/19						82662 07/23/19			82663 07/23/19							82664 07/23/19				82665 07/23/19			82666 07/23/19								82667 07/23/19		2	21	

VWR INTERNATIONAL, INC P. O. BOX 640169 PITTSBURGH PA 15264-0169 3216

Alt Payee

Las Virgenes Municipal Water A/P Auto Payment Register

00146807 Cash-General

Bank Account -

273230

Batch Number -

R04576

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\$101267 S101268 \$101280 S101285 \$101295 \$101296 \$101298 S101299 \$101800 19037 19038 S101297 C3194350 INT-C3194350 0047382-IN 9999562 S101231 Invoice Number 650.00 45.00 118.00 125.82 160.00 155,00 107.00 1,013,44 35.00 265.00 385.00 50.00 15.71 1.53 4,460,44 3,824.81 4,369.30 Amount 127.35 673.13 8,829.74 1,013.44 1,985.71 001 00701 001 00701 001 - 00701 001 00101 00701 001 00701 001 00701 00701 001 00701 00701 00701 00701 00701 001 00701 001 00701 001 00701 001 00701 ပိ Key 90 90 90 <u>#</u> 8 90 . . . Document . . . 165310 165213 165280 165281 165282 165284 165285 165287 165288 165309 165212 165286 165289 165308 165150 165279 165283 Number ≥ ₹ 2 2 2 3 ₹ . |≃ٰ ₹ ≥ ≥ ≥ ₹ ≥ ≥ Payment Stub Message PM/FLTR-CORNE Payment Amount Payment Amount Payment Amount Payment Amount Payment Amount PM/FLTRS/BELT PM/FLTRS-BD#2 PM/FLTRS-BD#7 PM/FLTRS-WLK 31943 AGOURA PM/FLTRS-TAPI PM/FLTRS-L/S# RFND-PPC BAL 31943 AGOURA PM/FLTRS-L/S# PM/FLTRS-RLV BAL-CLOSED PM/FLTR-LV2 PARTS-BD#8 INT-DEP BAL 1900 RMBLA 6" METER@ 7/8~7/12/19 7/1~7/4/19 SPRYFLD SPRYFLD S-BD#8 RFND RPR PAC Ş Name PERFORMANCE CORPORATION CONDITIONING METERS, INC. PROPERTIES, WEST COAST WESTLAKE W. LITTEN ZENNER WARD S N Address Number 3048 21035 6248 18643 19685 S672 0723119 . . . Payment . . . Number Date 82671 07/23/19 82669 07/23/19 82670 07/23/19 82668 07/23/19

19000 ZENNER PERFORMANCE METER INC. 15280 ADDISON RD. #100

Alt Payee

R04576				Las Virgenes Municipal Water A/P Auto Payment Register	il Water jister					07/23/19 9:58:47 Page - 17	
Batch Number -	273230									•	
Bank Account -	Bank Account - 00146807 Cash-General	-General									
Payment	Address		Name	Payment Stub Message Document	:	Document		Key		Invoice	
Number Date	Number			•	Τ̈́	Number	Ę	ltm Co	Amount	Number	
		V	DDISON TX 75001								
				Payment Amount				3,824.81	81		
82673 07/23/19	21108	ZIP'S AW		STROBE	≥	165314	901	001 00701	385.01	674139	
		DIRECT		SYS-#913							
				Payment Amount				385.01	24		
				Total Amount of Payments Written	• Written	_		1,032,078.18	18		
				Total Number of Payments Written	s Writter	-	95				

R04576						Las Virgenes Municipal Water A/P Auto Payment Register	Water					07/30/19 8:44:27 Page - 1	
Batch Nt	Batch Number - Rank Account -	273432 00146807   Cash General	ach Ca									) ) ) )	
2		1000	2011-0				(			,			
Pay	Payment Number Date	* 2	Address		Name	Payment Stub Message	_ ≩	Document The Number	<u> </u>	Key Amount	+-	Invoice	
82674	82674 07/30/19	"	2869	AT&T		SRV	  } ≧	165388	6		183 80	146397	4639/071419
						7/14~8/13/19							
						Payment Amount				183.80			
82675	82675 07/30/19		0222	AUTOMATIONDIR	NDIR	TERMINAL	≥	165397	00	001 00751	110.08	6	9933906
				ECT.COM		BLOCKS/ASSRY	•						
						Payment Amount				110.08			
82676	82676 07/30/19		2425	BANK OF		VISA CHG-FIN	≥	165323	00	001 00701	78.07	1670/	1670/070719
				AMERICA		ADM-JUN'19							
						VISA CHG-FIN	≥	165323	005	00701	540.00	1670/	1670/070719
						ADM-JUN'19							
						VISA CHG-FIN	≥	165324	00	10701	260.00	9919/	9919/070719
	;					ADM2-JUN'19							
						VISA CHG-FIN	≥	165324	005	00701	300.00	9919/	9919/070719
						ADM2-JUN'19							
						VISA CHG-FIN	≥	165324	003	00701	300.00	9919/	9919/070719
						ADM2-JUN'19							
						VISA	≥	165325	001	00101	51.36	7112/	7112/070719

CHG-ALMAGUER-

JUN'19

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71.16 128.63 95.79 60.48 36.51 003 00701 001 00701 001 00701 001 00751 002 00701 165329 165327 165328 165327 165326 ۶ ≥ 2 ⋛ ≥ CHG-BOCKELMAN CHG-BOCKELMAN CHG-CASPARY-J CHG-BAIRD-JUN CHG-BAIRD-JUN -JUN'19

8102/070719

7651/070719

5151/070719

R04576			Las Virgenes Municipal Water	Water				07/30/19 8:44:27	
	432			į.					
bank Account - 0014	0014680/ Cash-General								
Payment Number Date	Address Number	Name	Payment Stub Message	⊳	. Document	. Key	Amount	Invoice	
			CHG-GIL-JUN'1				;		1
			VISA	≥	165329	002 00751	751 29.97	5151/070719	
			CHG-GIL-JUN'1 9				•		
			VISA	₹	165329	003 00751	751 238.43	5151/070719	
			CHG-GIL-JUN'1						
			VISA	≥	165329	004 00751	751 132.71	5151/070719	
			CHG-GIL-JUN'1						
			VisA	A.	165329	005 00751	751 468.82	5151/020719	
			CHG-GIL-JUN'1						
			6						
			VISA	₽	165329	000 900	00751 87.66	5151/070719	
			CHG-GIL-JUN'1 9						
			VISA	Σ	165329	007 00751	751 241.75	5151/070719	
			CHG-GIL-JUN'1						
			თ						
			VISA CHG-GII - IIIN'1	Α.	165329	008 00751	751 37.81	5151/070719	
		-	6						
			VISA	≥	165329	00 600	00751 510.12	5151/070719	
			CHG-GIL-JUN'1						
			, .	ì	1	•			
			VISA CHG-GIL-JUN'1	ž	165329	010 00/51	(51 245.42	5151/070719	
			6						
•			VISA	₹	165330	001 00701	701 75.00	6935/070719	
			CHG-GUZMAN-JU						
			N'19						
			VISA	≥	165330	002 00	00701 50.00	6935/070719	
			OL-602MAN-30						
25			VISA	₽	165330	003 00701	701 13.41	6935/070719	
			CHG-GUZMAN-JU						
			N.19						
			VISA CHG-GI7Man-III	Α.	165330	004 00701	701 232.82	6935/070719	
			01.0 01.0						

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Las Virgenes Municipal	A/P Auto Payment R

R04576			Las Virgenes Municipal Water	Water					07/30/19 8:44:27	.27	
Batch Number - 273432	32		agest meaning to the	Į.							
Bank Account - 00146807	807 Cash-General										
Payment	Address	Name	Payment Stub Message	<u>.</u>	Document	_	Key	tariomy	Invoice		
Number Date	Number			<u>_</u>	Number	<u>=</u>	ප	Amount	Number		
			61.NDC-								
			VISA	≥	165338	90	10200	883.00	900	6009/070719	
			CHG-PANIAGUA-								
			81 NOC	i	1				,		
			VisA	₹	165338	005	00701	449.00		6009/070719	
			CHG-PANIAGUA-								
			JUN'19								
			VISA	≥	165338	003	10200	345.00	900	6009/070719	
			CHG-PANIAGUA-								
			90N'19								
			VISA	≥	165338	90	00701	10,00	900	6009/070719	
			CHG-PANIAGUA-								
			1UN'19								
			VISA	≥	165338	900	00701	39.42	900	6009/070719	
			CHG-PANIAGUA-								
			3UN'19								
			VISA	δ	165339	00	10200	25.53	65	6549/070719	
			CHG-MCNUTT-JU								
			01'N								
			VISA	≥	165339	002	00701	57.49	65	6549/070719	
			CHG-MCNUTT-JU								
			N'19								
			VISA	≥	165340	00	10700	214.29	29	5953/070719	
			CHG-MEREDITH-								
			91.NUC								
			VISA	₹	165340	005	00701	82.52	59	5953/070719	
			CHG-MEREDITH-								
			JUN.19							,	
			VISA	δ	165340	003	10200	346.15	98	5953/070719	
			CHG-MEREDITH-								
			JUN'19								
			VISA	≧	165341	00	00701	84.61	19.	1924/070719	
			CHG-PEDERSEN-								
			JUN'19								
-			VISA	≥	165341	005	00701	27.95	19,	1924/070719	
27			CHG-PEDERSEN-								
			10N'19								
			VISA	₹	165341	003	00701	35.00	. 19.	1924/070719	
٠			CHG-PEDERSEN-	•							
			1UN'19								
			VISA	₹	165341	004	004 00701	700.00	19.	1924/070719	

07/30/19 8:44:27 Page- 5		Invoice	Number			1924/070719			1924/070719			1924/070719			5664/070719	٠		5664/070719	,		5664/070719			8400/070719			0615/070719			0615/070719			0615/070719	•		0615/070719			0615/070719			0615/070719		
			Amount			10.00			28.93			236.67			700.00			75.00			595.00			100,00			1,122.07			591.15			81.96			952.85			182.87			89.31		
		Key	ltm Co			005 00701			10700 900			007 00701			001 00701			002 00701			003 00701			001 00701			001 00701			002 00701			003 00701			004 00701			005 00701			006 00701		
		Document	Number			165341			165341			165341			165342			165342			165342			165343			165344			165344			165344			165344			165344			165344		
l Water ister		:	<u>_</u>			₹			₹			≥			₹			₹			≧			₹			₹			2			≥			⋛			₹			≥		
Las Virgenes Municipal Water A/P Auto Payment Register		Payment Stub Message		CHG-PEDERSEN-	91.NUC	VISA	CHG-PEDERSEN-	91,NUC	VISA	CHG-PEDERSEN-	JUN'19	VISA	CHG-PEDERSEN-	. 61'NUt	VISA	CHG-POLAN-JUN	-19	VISA	CHG-POLAN-JUN	19	VISA	CHG-POLAN-JUN	19	VISA	CHG-ROBERTS-J	UN'19	VISA	CHG-TRIPLETT-	9LNNC	VISA	CHG-TRIPLETT-	30N'19	VISA	CHG-TRIPLETT-	JUN'19	VISA	CHG-TRIPLETT-	91,NUC	VISA	CHG-TRIPLETT-	JUN'19	VISA	CHG-TRIPLETT-	
		Name																																										
	273432 00146807 Cash-General	Address	Number																																									
R04576	Batch Number - 2 Bank Account - 00	Payment	Number Date																		•																	2	28					

R04576			Las Virgenes Municipal Water A/P Auto Payment Register	Water				07/30/19 8:44:27 Page- 6	
	32								
Bank Account - 00146807	807 Cash-General								
Payment Number Date	Address Number	Name	Payment Stub Message	. 5	Document Ty Number	. Key Itm Co	Amount	Invoice	
		:	VISA		165344		119.91	0615/070719	
			CHG-TRIPLETT-						
			JUN'19						
			VISA	₹	165344	008 00701	. 21.86	0615/070719	
			CHG-TRIPLETT-						
			JUN'19						
			VISA	₹	165345	001 00751	55.03	8913/070719	
			CHG-ROBINS-JU						
			N'19				τ		
			VISA	₹	165345	002 00751	675.00	8913/070719	
			CHG-ROBINS-JU						
			N'19						
			VISA	ĕ	165346	001 00751	498.12	6703/070719	
			CHG-VARBEL-JU						
			N'19						
			VISA	₹	165346	002 00751	11.55	6703/070719	
			CHG-VARBEL-JU						
			N'19						
			VISA	₹	165347	001 00701	378.12	0751/070719	
			CHG-VOLLMAR-J						
			91.NJ						
			VISA	₹	165347	002 00701	789.05	0751/070719	
			CHG-VOLLMAR-J						
			UN'19						
			VISA	₽	165347	003 00701	47.85	0751/070719	
			CHG-VOLLMAR-J						
			UN'19						
			VISA	₹	165347	004 00701	376.69	0751/070719	
			CHG-VOLLMAR-J						
			UN'19						
			VISA	₹	165347	005 00701	820.83	0751/070719	
			CHG-VOLLMAR-J						
			UN'19						
			VISA	₹	165347	006 00701	25.73	0751/070719	
			CHG-VOLLMAR-J						
29			UN'19						
			VISA	₹	165347	10700 700	13.49	0751/070719	
			CHG-VOLLMAR-J					-	
			UN'19						
			VISA	₹	165348	10700 100	1,348.23	8239/070719	
			THE MARK OFF						

CHG-WINK-JUN'

R04576	. Las Virgenes Municipal Wate A/P Auto Payment Register	unicipal Water ent Register	07/30/19 Page -	8:44:27 7
Batch Number -	273432			
Bank Account -	00146807			

A PV 165349 001 00701 534.93  G-ZHAO-JUN'  A H65350 002 00701 499.00  A H65350 002 00701 74.95  A H65350 002 00701 74.95  A H65350 002 00701 74.95  A H65361 001 00701 292.50  B H HAB  B H H65377 002 00701 292.50  B H HAB  B H H65377 002 00701 292.50  B H H65377 007 00701 292.50  B H H65387 001 00701 293.34  B H H65387 001 00701 293.34  B H H65387 001 00701 393.74  B H H65387 001 00701 3333.45  B H H65387 001 00701 3333.45  B H H65387 001 00701 3333.45	Number	Name Name	Fayment Stub Message	1	Ty Number	<u> </u>	  Co  Co	Amount	Invaice
CHG-ZHAO-JUNY 19 19 19 19 19 19 19 19 19 19 19 19 19			19 VISA	2	165349	5	00701	534 93	6218/070710
19			CHG-ZHAO-JUN'	-	2	3	200	5.	0.101010120
VISA			19						
CHG-ZHAO-JUN'  VISA  CHG-ZHAO-JUN'  19  VISA  CHG-ZHAO-JUN'  19  VISA  CHG-ZHAO-JUN'  19  VISA  CHG-ZHAO-JUN'  VISA  CHG-ZHAO-JUN'  VISA  CHG-ZHAO-JUN'  VISA  CHG-ZHAO-JUN'  VISA  CHG-ZHAO-JUN'  VISA  CHG-PATTERSON  -JUN'19  Payment Amount  CORPORATION  AGC'19 SITE  PAY  165377  CORPORATION  AGC'19 SITE  SELAY, LLC  Payment Amount  CONEJOLAS  FUTURE  FOUNDATION  Payment Amount  CONEJOLAS  FUTURE  FOUNDATION  Payment Amount  CONEJOLAS  FUTURE  FOUNDATION  Payment Amount  CORE & MAIN  FLASSON  CORE & MAIN  FLASSON  CORPORATION  Payment Amount  Payment Amount  CORE & MAIN  FLASSON  CORP & MAIN  CONEJOLAS  FUTURE  FOUNDATION  Payment Amount  Payment Amount  CORPORATION  Payment Amount  CORPORATION  Payment Amount  CORPORATION  Payment Amount  CORP & MAIN  CONTOR & MAIN  CORP & MAIN  CO			VISA	≥	165349	005	00701	999.00	6218/070719
19		-	CHG-ZHAO-JUN'						
VISA			19						
CHG-ZHAO-JUN  VISA  VISA  CHG-PATTERSON  -JUN'19  VISA  VISA  CHG-PATTERSON  -JUN'19  VISA  CHG-PATTERSON  -JUN'19  CALFORMIA  JUL'19 SITE  PV 165361 001 00701 1,499.00  CANNON  PESJ1-CORD  CANNON  PESJ1-CORD  CORPORATION  SEDLE REHAB  PE 531-CORD  CORPORATION  SELAY, LLC  Payment Amount  COMEJOLIAS  SPONSORSHIP  VINGENES  FY19-20  FUTURE  FOUNDATION  PACCONCRETE  PACCONCRETE  VISSAR  CHG-SACORD  CORPORATION  PAGGRAC  PV 165387  O01 00701 0101  SP3.74  CORPORATION  PAGGRAC  PV 165383 001 00701  CANNON  CORPORATION  PAGGRAC  CORPORATION  PAGGRAC  PV 165383 001 00701  CANON  CORPORATION  PAGGRAC  PV 165383 001 00701  CANON  CORPORATION  PAGGRAC  CORPORATION  PAGGRAC  PV 165383 001 00701  CANON  CORPORATION  PAGGRAC  CORPORATION  PAGGRAC  P			VISA	₹	165349	003	00701	499.00	6218/070719
19  VISA  CHG-PATTERSON  JUN'19  CALIFORNIA  JUL'19 SITE  Payment Amount  CONE JOILAN  S RELAY, LLC  Payment Amount  CONE & Main  CONE & Main  PACCONE SITE  PACCONE SITE  PACCONE SITE  PACCONE & Main  CHG-PATTERSON  JUL'19 SITE  PACCONE SIT			CHG-ZHAO-JUN'						
VISA         PV         165350         001         00701         1,499.00           CHG-PATTERSON         UNY19         PV         165350         002         00701         74.95           CHG-PATTERSON         ULW19         PV         165360         001         00701         74.95           CALFORNIA         JUL'19 SITE         PV         165381         001         00701         105.00           CALFORNIA         VISIT         PRAMENTAMOUNT         PV         16537         001         00701         105.00           CORPORATION         PE 5/31-CORD         PV         16537         001         00701         292.50           CORPORATION         PE 5/31-CORD         PV         16537         001         00701         292.50           CORPORATION         PE 5/31-CORD         PV         16537         001         00701         292.50           CORPORATION         AUG'19 SITE         PV         165387         001         00701         292.50           COMMUNICATION         AUG'19 SITE         PV         165387         001         00701         2,500.00           CONEJO/LAS         SPONSORSHIP         PV         165383         001         00701         2,500.00			19						
CHG-PATTERSON -JUN'19  VISA  CHG-PATTERSON -JUN'19  CALLFORNIA JUL'19 SITE  HAZARDOUS SERVICES, INC.  Payment Amount CORPORATION SRELAY, LLC  RELY, LLC  RENT SCADA  PAyment Amount CONEJOLAS  SPONSORSHIP  CONEJOLAS  SPONSORSHIP FOUNDATION  Payment Amount CONE & MAIN  CONE & MAIN  CONE & MAIN  CONE & MAIN  LP  PAYMENT SCADA  CONE & MAIN  PAYMENT Amount PAYMENT Amount CONE & MAIN  PAYMENT Amount PA			VISA	₹	165350	00	00701	1,499.00	6347/070719
VISA			CHG-PATTERSON						
VISA         PV         165350         002         00701         74.95           CHG-PATTERSON         -UUN'19         CHG-PATTERSON         105.00         105.00           LAZARDOUS         VISIT         23,716.42         105.00           SERVICES,         VISIT         105.00         105.00           INC.         Payment Amount         105.00         292.50           CANNON         PE 5/31-CORD         PV         165377         001         00701         292.50           CORPORATION         FSDDL REHAB         PV         165377         002         00701         292.50           COMMUNICATION         AUG'19 SITE         PV         165387         001         00701         393.74           S RELAY, LLC         RENT SCADA         PAyment Amount         PV         165387         001         00701         393.74           CONEJOLIAS         SPONSORSHIP         PV         165387         001         00701         2,500.00           VIRGENES         FY19-20         PAyment Amount         PV         165383         001         00701         2,500.00           CORE & MAIN         FINGSACC         PV         165381         001         00701         3,313.45			-JUN'19						
CHG-PATTERSON         CHG-PATTERSON           JULV19         Z3,716.42           Payment Amount         PV         165381         001         00701         105.00           HAZARDOUS         VISIT         PR         FR         FR <th< td=""><td></td><td>•</td><td>VISA</td><td>≥</td><td>165350</td><td>005</td><td>00701</td><td>74.95</td><td>6347/070719</td></th<>		•	VISA	≥	165350	005	00701	74.95	6347/070719
CALIFORNIA         JUL'19 SITE         PV         165381         001         00701         105.00           HAZARDOUS         VISIT         105.00         10001         10000			CHG-PATTERSON						
CALIFORNIA         JUL'19 SITE         PV         165381         001         00701         105.00           HAZARDOUS         VISIT         105.00         105.00         105.00         105.00         105.00           SERVICES,         INC.         Payment Amount         PV         165377         0.01         00701         292.50           CANNON         PIE 5/31-CORD         PV         165377         0.02         00701         292.50           CORPORATION         FSDL REHAB         PV         165387         0.02         00701         292.50           CORMUNICATION         AUGUSITE         PV         165387         0.01         00701         393.74           S RELAY, LLC         RENT SCADA         Payment Amount         PV         165387         0.01         00701         2,500.00           VIRGENES         FV19-20         FV19-20         PV         165383         0.01         00701         2,500.00           CORE & MAIN         FLNOSAGC         PV         165381         0.01         00701         3,313.45			-JUN'19						
CALIFORNIA         JUL'19 SITE         PV         165381         001         00701         105.00           HAZARDOUS         VISIT         105.00 <td></td> <td></td> <td>Payment Amount</td> <td></td> <td></td> <td></td> <td>23,716.42</td> <td></td> <td>-</td>			Payment Amount				23,716.42		-
HAZARDOUS         VISIT         ALZARDOUS         VISIT         ALZARDOUS         PLACE         ALZONAL         ALZONAL <t< td=""><td>18739</td><td></td><td>JUL'19 SITE</td><td>₹</td><td>165381</td><td>001</td><td>00701</td><td>105.00</td><td>64575</td></t<>	18739		JUL'19 SITE	₹	165381	001	00701	105.00	64575
SERVICES, INC.         Payment Amount         105.00           CANNON         PIE 5731-CORD         PV         165377         001         00701         292.50           CORPORATION         PIE 5731-CORD         PV         165377         002         00701         292.50           CORMUNICATION         PIE 5731-CORD         PV         165377         002         00701         292.50           COMMUNICATION         PACYTOSITE         PV         165387         001         00101         983.74           S RELAY, LLC         RENT SCADA         PAYMENT Amount         PV         165387         001         00701         2,500.00           VIRGENES         FY19-20		HAZARDOUS	VISIT						
INC.         Payment Amount         105.00           CANNON         PE 5/31-CORD         PV         165.377         00.1         00701         292.50           CORPORATION         /SDDL REHAB         PV         165.377         00.2         00701         292.50           CORMUNICATION         PVE 5/31-CORD         PV         165.377         00.2         00701         292.50           COMMUNICATION         AUG19 SITE         PV         165.387         00.1         00101         983.74           S RELAY, LLC         RENT SCADA         PSyment Amount         PV         165.387         00.1         00701         2,500.00           VIRGENES         FY19-20         FY19-20         FY19-20         FY19-20         FY18-20         FY18-20 <td></td> <td>SERVICES,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		SERVICES,							
CANNON         Pre 5/31-CORD         PV         165.377         001         0701         292.50           CORPORATION         SDDL REHAB         PV         165377         002         00701         292.50           CORPORATION         PVE 5/31-CORD         PV         165377         002         00701         292.50           COMMUNICATION         AUG*19 SITE         PV         165387         001         00101         983.74           S RELAY, LLC         RENT SCADA         PV         165387         001         00701         983.74           CONEJO/LAS         SPONSORSHIP         PV         165383         001         00701         2,500.00           VIRGENES         FY19-20         FY19-20         PV         165383         001         00701         2,500.00           CORE & MAIN         FLNGS/ACC         PV         165361         001         00701         3,313.45		INC.							
CANNON         P/E 5/31-CORD         PV         165377         001         00701         292.50           CORPORATION         /SDDL REHAB         PV         165377         002         00701         292.50           SDL REHAB         PV         165377         002         00701         292.50           COMMUNICATION         AUG*19 SITE         PV         165387         001         00101         983.74           S RELAY, LLC         RENT SCADA         RENT SCAD			Payment Amount				105.00		
CORPORATION         /SDDL REHAB         PV         165377         002         00701         292.50           /SDDL REHAB         PV         165377         002         00701         292.50           /SDDL REHAB         PAyment Amount         FS.5.00         983.74         983.74           COMMUNICATION         AUG'19 SITE         PV         165387         001         00101         983.74           S RELAY, LLC         RENT SCADA         PSyment Amount         PV         165383         001         00701         2,500.00           VIRGENES         FY19-20         FY19-20         FY19-20         FUTURE         2,500.00         2,500.00           CORE & MAIN         FLNGS/ACC         PV         165361         001         00701         3,313.45	20655	CANNON	P/E 5/31-CORD	₹	16537.7	00	00701	292.50	69185
P/E 5/31-CORD		CORPORATION	/SDDL REHAB						
SDDL REHAB   SUBDL REHAB   SBS.00   SBS.00   SBS.00   SBS.00   SBS.00   SBS.00   SBS.00   SBS.00   SBS.74   SBS.00   SBS.74   SBS.00   SBS.74   SBS.00   SBS.74   S			P/E 5/31-CORD	₹	165377	002		292.50	69185
COMMUNICATION         Payment Amount         585.00           S RELAY, LLC         RENT SCADA         PV         165387         001         00101         983.74           CONEJO/LAS         SPONSORSHIP         PV         165383         001         00701         2,500.00           VIRGENES         FY19-20         FY19-20         Amount         Amount         Amount         Amount           CORE & MAIN         FLNGS/ACC         PV         165361         001         00701         2,500.00           LP         PAC/CONCRETE         PV         165361         001         00701         3,313.45			/SDDL REHAB						
COMMUNICATION         AUG'19 SITE         PV         165387         001         00101         983.74           S RELAY, LLC         RENT SCADA         - RENT SCADO									

CORE & MAIN LP P. O. BOX 28330 ST. LOUIS MO 63146 15948 Alt Payee

R04576			Las Virgenes Municipal Water A/P Auto Payment Register	07/30/19 Page -	8:44:27 8
Batch Number -	273432				
Bank Account -	00146807 Cash-Gen	Cash-General			

tuo min	Address	Name	Payment Stub Message	<u> </u>	Document	. Key			Invoice
Number Date	Number			₹	Number	Ē	Ащ	Amount	Number
82662 07/30/19	16364	D&H WATER	Payment Amount BALL BEARINGS	≧	165394	3,3 001 00751	3,313.45	191.38	1 2019-0772
		SYSTEMS INC.	Payment Amount				191.38		
82683 07/30/19	8923	EXPRESS, INC.	SPE STANDARDS	₹	165395	001 00701		546.72	1000561093
			Payment Amount				546.72		•
82684 07/30/19	. 2654	FAMCON PIPE	BALL VLVS/ANGL STPS/ADPTRS	₹	165362	001 00701		7,009.92	S100004132.00 1
			Payment Amount			7,	7,009.92		
82685 07/30/19	2650	FISHER SCIÈNTIFIC	BUFFERS	₹ .	165393	001 00701		361.41	9631293
	Alt Payee	3202 FISHER SCIENTIFIC FILF #50129	U						
		LOS ANGELES CA 90074-0129	90074-0129						
			Payment Amount				361.41		
82686 07/30/19	6770	G.I.	7/19 DISP	₹	165379	001 00701		878.80	2531678-0283-
		INDUSTRIES	TAPIA GRIT						6
			7/19 DISP	₹	165380	001 00701		987.32	2531675-0283-
			IAPIA						æ
			7/1~7/15/19 SHOP BLDG	≧	165399	001 00701		794.66	2912712-0283- 5
	Alt Payee	6771 G.I. INDUSTRIES P. O. BOX 541065							
		LOS ANGELES CA 90054-1065	90054-1065		-				
			Payment Amount			2,	2,660.78		
82687 07/30/19	21324	GLOBAL	DEMO PRJT	₹	165373	001 00701		23,850.00	555
		VISIONS &	VIDEO						,
		ASSOCIATES,							
		INC.							
			Payment Amount			23,	23,850.00		
82688 07/30/19	21367	TIMOTHY R. HEINTZ	RFND-PPC BAL 31553 LOBO	₹	165405	001 00701		1,874.87	R3155350
			CYN						
1			INT-PPC BAL	δ	165406	001 00701		46.85	INT-R3155350
			31553 LOBO						
			CYN						
	!		Payment Amount			₩.	1,921.72		
82689 07/30/19	2997	J G TUCKER &	LEL SENSORS	ĕ	165398	001 00751		270.92	11359

R04576			Las Virgenes Municipal Water A/P Auto Pavment Register	Water				07/30/19 8:44:27 Pane q	
Batch Number - 2	273432			į					
Bank Account - 00	00146807 Cash-General	Seneral							
Payment	Address	Name	Payment Stub Message	Ö .	. Document	Key	Amount	Invaice	
Malline Care		SNOS		- - - 	MURIDA			Number	
		2	Payment Amount			270.92			
82690 07/30/19	5230	KENNEDY/JENKS	P/E 6/28-TWN	≥	165375	001 00701	8,022.85	131165	
		CONSULTANTS	LKS PS DSGN						
			Payment Amount			8,022.85			
82691 07/30/19	2611	LA DWP	RECTIFIER	≥	165386	001 00101	41.35	503850/071619	
		-	6/17~7/15/19						
			Payment Amount			41.35			
82692 07/30/19	3352	LAS VIRGENES	RLV FARM	ĕ	165389	001 00751	151.96	2080/071719	
		MUNICIPAL	6/12~7/10/19						
		WATER							
		DISTRICT							
			US#1	≥	165390	001 00130	47.87	1775/071719	
			6/13~7/11/19						
			US#2	≥	165391	001 00130	50.58	0570/071719	
			6/13~7/11/19						
			JED SMTH P/S	≥	165392	001 00101	47.87	0254/071719	
			6/10~7/8/19						
			Payment Amount			298.28			
82693 07/30/19	2789	LIEBERT	P/E 6/30/19	ð	165378	001 00701	69.00	1481707	
		CASSIDY	SEIU NGTN						
		WHITMORE							
			Payment Amount			00.69			
82694 07/30/19	2814	MCMASTER-CARR	PARTS- LAKE	₹	165396	001 00101	227.49	99601653	
		SUPPLY CO	MGMNT						
			CR-99601653	<u>G</u>	165400	001 00101	15.77-	99766178	
			RELPCMNT-FILE	≥	165401	001 00101	15.77	99750884	
			HOLDERS						
	Alt Payee	3197 MC MASTER-CARR	Œ,						
		P. O. BOX 7690							
		CHICAGO IL 60680-7690	0-7690						
			Payment Amount			227.49	,		
82695 07/30/19	20858	LOU MELLMAN	RFND-PPC BAL	₹	165403	1000 001	1,064.25	R2863550	
			28635 WAGON						
3			INT-PPC	≥	165404	001 00701	16.94	INT-R2863550	
32			BAL/28635						
			WAGON						
			Payment Amount			1,081.19			
82696 07/30/19	21264	MICHAEL BAKER	P/E 6/30	≥	165376	10700 100	28,923.17	172287	
		INTERNATIONAL	GENSETS-PW						

R04576			Las Virgenes Municipal Water A/P Auto Payment Register	07/30/19 Page -	8:44:27 10
Batch Number -	273432				
Bank Account -	00146807	Cash-General			

⋤	Address	Name	Payment Stub Message	•	Document	. Key	Amount	Invoice
Number Date	Number			اٰ حر	Number	S <u>E</u>		Number
		, INC.	P/S					
			Payment Amount			58	28,923.17	
82697 07/30/19	2302	OFFICE DEPOT	CR-#332854582	9	165351	10700 100	136.10-	336374641001
			100					
			PENS	ĕ	165352	001 00701	16.55	324894869001
			PAPER/FOLDERS	₹	165353	001 00701	1 816.55	324896692001
			/MISC SPPLY					
			MOUSE/MSG	ĕ	165354	001 00701	1 77.32	327389273001
			ВООК					
			STAPLER/TAPE	δ	165355	001 00701	139.32	332854582001
			DISPSNR					
			MISC DESK	₽	165356	001 00701	1 219.08	335326450001
			SUPPLIES					
			MONITOR RISER	₹	165357	001 00701	37.21	335328847001
			FOOT REST	Ą	165358	001 00701	1 45.27	335328848001
			PAPER	₹	165359	001 00701	362.60	336371318001
			WALL SIGN-R	2	165360	001 00701	1 26.26	335328849001
			CLARK					
			Payment Amount			-	1,604.06	
82698 07/30/19	8635	ERIK RABAJA	MLG-NTRNT	2	165402	001 00701	1 47.32	071819
			TRAING 7/18					
			Payment Amount				47.32	
82699 07/30/19	20648	STANTEC	P/E .	Α	165374	001 00701		1531932
		CONSULTING	6/28-WASTE					
		SERVICES INC.	ALLOC COMP					
			Payment Amount			27	27,587.72	
82700 07/30/19	17168	SULZER PUMPS	BLOWER-DOWN	₽	165106	001 00701	76,832.00	90907059
		SOUTHONS	PMT					
		NC.						
			TAX-TRNSFRMR	₹	165107	001 00701	1,120.31	90910408
			STEP DOWN					
			TRNSFRMR STEP	ĕ	165108	001 00701	116,198.47	90910409
			DOWN					
			TAX-CNTRL	Z	165123	001 00701	1 907.58	90908127
3			SYS/PARTS					
33			CONTROL	₹	165124	001 00701	94,149.10	90908128
			SYS/PARTS					
			Payment Amount			289	289,207.46	
82701 07/30/19	19135	TRANSUNION	BAD DEBT	Z	165385	001 00701	123.00	974571/JUN'19
		RISK &	SRCH-JUN'19					

ALTERNATIVE

R04576			Las Virgenes Municipal Water	Water					07/30/19 8:44:27	
Batch Number - 273432	. 25			<u>.</u>					rage -	
	00146807 Cash-General	Seneral								
Payment Number Date	Address	Name	Payment Stub Message	00 · ≥	Document Tv Number	. Key	iey Amount Co	unt	Invoice	
		DATA SOLUT	i	ļ						
			PaymentAmount				123.00			
82702 07/30/19	18604	VENTURA PEST	PEST CNTRL	≥	165382	001	00701	100.00	682109	
		CONTROL	SRV-JUL'19							
			PEST CNTRL	۶	165382	003 0	00701	340.00	682109	
			SRV-JUL'19							
			PEST CNTRL	٦	165382	0 800	00701	135,00	682109	
			SRV-JUL'19							
			Payment Amount				575.00			
82703 07/30/19	2436	VINCE BARNES	OIL/FLTRS-#89	≥	165365	001	10700	122.10	023994	
		AUTOMOTIVE	2							
			RPLC	₽	165366	001 0	00701	133.00	023998	
			HEADLIGHT-#89							
			0							
			HEADLIGHT/OIL	≥	165367	001 0	10700	230.62	024005	
			/FLTRS-#891							
			OIL/FLTRS-#91	δ	165368	001	00701	97.62	024021	
			-							
			OIL/FLTRS-#89	≥	165369	001 0	10700	92.96	024026	
			4							
			Payment Amount				676.30			
82704 07/30/19	4707	WATER	MEMBERSHIP	≥	165384	001 0	00701	16,445.19	0004004-2019-	
		RESEARCH	AUG'19~JUL'20						1	
		FOUNDATION								
			Payment Amount				16,445.19			
82705 07/30/19	18914	WECK	TAPIA	≥	165318	001 0	00701	33.95	W9F1664-LV	
		LABORATORIES,	INFLNT-9F1107							
		INC.	0							
			TAPIA	٧	165319	001	00701	7.43	W9F1665-LV	
			GRNDWTR-9F110							
			7.1							
			RLV	ĕ	165320	001	00701	44.58	W9F1666-LV	
			GRNDWTR-9F110							
			72							
,			DIONIZED WTR	≥	165321	001	00701	26.52	W9F2071-LV	
34			-9F25044							
			WLK-9F25045	۶	165370	001	00701	41.38	W9G0014-LV	
			4	≥	165371	001 0	00701	1,984.92	W9G0034-LV	
			RIVER-9E23081							
			EFFLNT-9E2308	2	165372	001 0	00701	3,047.41	W9G0035-LV	

R04576			Las Virgenes Municipal Water A/P Auto Payment Register	Water				07/30/19 8:44:27 Pane 12
Batch Number - 273	273432			į				
Bank Account - 0014	00146807 Cash-General	eneral						
Payment	Address	Name	Payment Stub Message	Do	Document	Key	, m	Invoice
Number Date	Number			Ty Number	lumber	ᄩ	Co	Number
			Payment Amount				5,186.19	
82706 07/30/19	21365	JANE WILLARD	RFND-PPC BAL	₹	165409	001 00701	0701 1,200.00	) R2353850
			23538 BROOKS					
			INT-PPC BAL	≥	165410	10700 100	0701 19.22	INT-R2353850
•			23538 BROOKS					
			Payment Amount				1,219.22	
82707 07/30/19	21366	GIL ZAHZVI	RFND-PPC BAL	₹	165407	001 00701	0701 363.31	R0602150
			6021 COLODNY					
			INT-PPC BAL	₽	165408	001 00701	0701 6.55	INT-R0602150
		•	6021 COLODNY					
			Payment Amount				369.86	
			Total Amount of Payments Written	Written			450,014,99	
			Total Number of Payments Written	Written		34		



# LAS VIRGENES MUNICIPAL WATER DISTRICT 4232 Las Virgenes Road, Calabasas CA 91302

# MINUTES REGULAR MEETING

9:00 AM July 23, 2019

### PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by Ana Schwab.

### 1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at <u>9:00 a.m.</u> by Board President Lewitt in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road, Calabasas, CA 91302. Josie Guzman, Clerk of the Board, conducted the roll call.

Present: Directors Charles Caspary, Jay Lewitt, Lynda Lo-Hill, Len Polan, and

Lee Renger.

Absent: None

Staff Present: David Pedersen, General Manager

Joe McDermott, Director of Resource Conservation and Public Outreach

Don Patterson, Director of Finance and Administration John Zhao, Interim Director of Facilities and Operations

Josie Guzman, Clerk of the Board Keith Lemieux, District Counsel

### 2. APPROVAL OF AGENDA

<u>Director Caspary</u> moved to approve the agenda. Motion seconded by <u>Director Renger</u>. Motion carried unanimously.

### 3. PUBLIC COMMENTS

None.

### 4. CONSENT CALENDAR

Director Polan requested that Items 4B and 4C be pulled for discussion.

- A List of Demands: July 23, 2019: Ratify
- D Business H2O Water Innovation Summit: Board Member Attendance

Authorize Board Member attendance and per diem compensation for the Business H2O Water Innovation Summit on September 12, 2019, in Snowbird, Utah.

<u>Director Polan</u> moved to approve Consent Calendar Items 4A and 4D. Motion seconded by <u>Director Lo-Hill</u>. Motion carried unanimously.

### 4. CONSENT CALENDAR - SEPARATE ACTION ITEMS

B Minutes: Regular Meeting of July 9, 2019: Approve

<u>Director Polan</u> moved to approve Item 4B. Motion seconded by <u>Director Caspary</u>.

Director Polan referred to the Minutes, Item 6, Treasurer's Report, where it referenced that bees were removed and relocated from meter boxes in accordance with the District's Policy, and he inquired whether the District had such a written policy. General Manager David Pedersen confirmed that the District has a written policy related to the removal and relocation of bees from District facilities.

Motion carried unanimously.

C Monthly Cash and Investment Report: June 2019

Receive and file the Monthly Cash and Investment Report for June 2019.

Director Polan moved to approve Item 4C. Motion seconded by Director Caspary.

Director Polan inquired regarding the safety of the District's investments in governmental bond issues. Don Patterson, Director of Finance and Administration, responded that the District's investment in United States Agency bonds are backed by the United States Government and these types of investments are the safest to the District. He reviewed the composition of the District's portfolio to ensure proper diversification of the District's investments.

Motion carried unanimously.

### 5. <u>ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS</u>

### A MWD Representative Report

MWD Representative Glen Peterson reported that the MWD Board met on July 9th, where actions included approving the naming of the Lake Mathews Multiple Species Reserve in honor of former MWD Board Chairwoman Lois B. Krieger; authorized amendments to the Administrative Code regarding deliveries of member agency water supplies in the MWD system in an emergency; and authorized payment for participation in the State Water Contractors Association. He also reported that the MWD Board met in Closed Session regarding security awareness training, and the Legal and Claims Committee reviewed the settlement proposal regarding San Diego County Water Authority v. MWD. He also reported that the MWD Board presented him with an award in recognition of his participation in the Colorado River Drought Contingency Plan. He noted that the MWD Board would hold a workshop regarding transmittal of the White Paper on Implementation and Delivery of the Regional Recycled Water Program. He also noted that he asked the Special Committee on Bay-Delta for a future agenda item regarding subsidence.

Director Caspary inquired regarding designating aquifer recharge as a beneficial use. Mr. Peterson responded that there were conflicting laws in California relating to water storage and recovery, and that in his opinion it was important to recognize aquifer recharge as a beneficial use. He noted that Arizona stores upwards of four to five million gallons of water and has no way to recover the water.

Director Lo-Hill inquired regarding the reason that water storage is not recoverable in Arizona. Mr. Peterson responded that in the past California received the surplus water not being used by Arizona, and subsequently Arizona began a program to store water in its groundwater basins with no plans to retrieve it. He noted that part of the Drought Contingency Plan includes a plan to retrieve this water.

### B Review Proposal for LV Tap Campaign

Mike McNutt, Public Affairs and Communications Manager, provided a PowerPoint presentation regarding a proposal for the LV Tap campaign, promoting residents to "Drink from the Sink."

Director Polan expressed concern with the slogan "Drink from the Sink." He inquired regarding microplastics at MWD's F.E. Weymouth Treatment Plant. General Manager David Pedersen responded that he was unable to reach a representative from MWD; however, the California State Water Resources Control Board is working on regulations related to microplastics. He noted that SB 1422 (Portantino), the California Safe Drinking Water Act: Microplastics, was approved in September 2018 and would require the State Water Board to adopt a definition of microplastics in drinking water by July 1, 2020, as well as adopt a standard methodology to be used in testing drinking water for microplastics, quantitative guidelines, and certification process in laboratories by July 1, 2021. He stated that microplastics, and other items found in nature, would lead to new and updated drinking water standards.

A discussion ensued regarding support for the slogan "Drink from the Sink" and promoting the LV Tap campaign.

### C Legislative and Regulatory Updates

Syrus Devers, lobbyist representing Best Best & Krieger, presented the State Legislative Report, which included updates to AB 402 (Quirk), Funding Stabilization Program; SB 1 (Atkins), the California Environmental Public Health and Workers Defense Act; and SB 200 (Monning), establishing the Safe and Affordable Drinking Water Fund in the State Treasury.

Ana Schwab, lobbyist representing Best Best & Krieger, presented the Federal Legislative Report, which included updates to the Federal budget and appropriations, potential legislation related to per- and polyfluoroalkyl substances (PFAS), H.R. 1764 that would extend the NPDES permit period from five years to ten years, and an amendment to H.R. 1764 that would allow agencies that have received Title XVI funds to be eligible to apply for the U.S. EPA Alternative Water Source Program.

### D Water Supply Conditions Update

Joe McDermott, Director of Resource Conservation and Public Outreach, presented the report. He noted that he attended the MWD Managers' Meeting last week, where they were informed that the State Water Project allocation was increased to 75 percent. He also noted that the State and MWD are maximizing reservoir storage, and MWD is instituting a Cyclic Storage Cost Offset Program to deliver larger than typical quantities of water to local surface or groundwater storage.

### 6. TREASURER

Director Lo-Hill stated that the Treasurer's Report for the July 9th and July 23rd Board meetings were in order.

### 7. BOARD OF DIRECTORS

## A CASA Annual Business Meeting: Board of Directors Election and Dues Resolution

Designate and authorize a Board Member to cast the District's vote in favor of the four-member slate of directors and approval of the dues resolution for Fiscal Year 2020 for the California Association of Sanitation Agencies.

General Manager David Pedersen presented the report.

<u>Director Caspary</u> moved to designate and authorize Board President Jay Lewitt to cast the vote in favor of the four-member slate of directors and approval of the dues resolution for Fiscal Year 2020 for the California Association of Sanitation Agencies. Motion seconded by <u>Director Renger</u>. Motion carried unanimously.

### 8. FINANCE AND ADMINISTRATION

### A Policy for Handling Insufficient and Excess Deposits

Pass, approve and adopt proposed Resolution No. 2559, relating to insufficient and excess deposits.

### **RESOLUTION NO. 2559**

# A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT AMENDING RESOLUTION NO. 2468 (ADMINISTRATIVE CODE) AS IT RELATES TO INSUFFIENT AND EXCESS DEPOSITS

(Reference is hereby made to Resolution No. 2559 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

Don Patterson, Director of Finance and Administration, presented the report.

<u>Director Lo-Hill</u> moved to approve Item 8A. Motion seconded by <u>Director Caspary</u>. Motion carried unanimously.

### B Claim by Daniel G. Snyder

### Deny the claim by Daniel G. Snyder.

General Manager David Pedersen presented the report.

Darrell Johnson, Customer Service Manager, reviewed the billing cycle and the steps taken to discontinue water service in accordance with the District's policy.

<u>Director Renger</u> moved to deny the claim by Daniel G. Snyder. Motion seconded by <u>Director Caspary.</u>

Director Lo-Hill stated for the record that the Board has the responsibility to spend the ratepayers' money diligently, there is a cost to the District when customers pay their bills late, under certain circumstances a first notice should be taken into consideration and on a case-by-case basis, and in this case there were three notices issued in six months. She also stated that it was not fair to ask the ratepayers to subsidize customers' late fees.

Motion carried by the following vote:

AYES: Caspary, Lewitt, Lo-Hill, Renger

NOES: None ABSTAIN: Polan ABSENT: None

### 9. RESOURCE CONSERVATION AND PUBLIC OUTREACH

## A Automatic Meter Reading/Advanced Metering Infrastructure (AMR/AMI) Project: Request for Proposals

Authorize the General Manager to issue a request for proposals for the Automatic Meter Reading/Advanced Metering Infrastructure Project.

Joe McDermott, Director of Resource Conservation and Public Outreach, presented the report.

Director Caspary moved to approve Item 9A. Motion seconded by Director Renger.

Mr. McDermott responded to several questions posed by the Board regarding the number of AMR/AMI meter manufacturers, AWWA meter standards, and salvaging and recycling the old meters.

Director Caspary suggested that the RFP include an option to replace and/or retrofit the existing meters due to emerging technology.

A discussion ensued regarding financing options and the approach for deploying and installing the new meters.

Motion carried unanimously.

### 10. INFORMATION ITEMS

### A Quarterly Employee Safety Report

General Manager David Pedersen presented the report.

### 11. NON-ACTION ITEMS

### A Organization Reports

Director Caspary reported that he attended the Association of California Water Agencies (ACWA) State Legislative Committee Meeting on July 12th, where they discussed proposed legislation for per- and polyfluoroalkyl substances. He noted that there were over 5,000 PFAS; however, only 15 of the compounds have been studied for notification levels. He also noted that ACWA requested a copy of the study; however, they have not been able to obtain a copy and are considering filing a public records request. He also reported that he received an alert from ACWA recommending that districts contact their legislators during the August recess regarding the voluntary settlement agreements and solutions for species protection and water supply reliability. He also reported that he attended the Santa Monica Bay Restoration Commission Executive Committee meeting on July 18th, where they discussed the Governing Board's agenda and the Annual Work Plan. He also reported that he attended the Santa Monica Bay Restoration Authority Governing Board meeting where they received project updates and discussed the possibility of additional funding and projects.

### **B** Director's Reports on Outside Meetings

Director Lo-Hill reported that she attended the California Special Districts Association Leadership Academy for Board Members.

### C General Manager Reports

### (1) General Business

General Manager David Pedersen noted that the first round of interviews for the position of Director of Facilities and Operations would occur on July 25th, and a second round of interviews would occur at a later date. He reported that staff is proposing that the District join the Coalition for Fire Protection Accountability. He noted that Governor Gavin Newsom commissioned a panel study to look at catastrophic loss from wildfires and liability issues.

### (2) Follow-Up Items

General Manager David Pedersen noted that an item would be brought forth at the August 20th Board meeting for a discussion regarding earthquakes and safety, the Las Virgenes Reservoir Dam and the potential use of accelerometers.

### **D** Directors' Comments

Director Polan expressed an interest in the use of milkweed plants in the District's general landscaping to attract Monarch butterflies, as well as pursuing a variety of California native plans to support fauna.

### 12. FUTURE AGENDA ITEMS

<u>Director Polan</u> moved to have a future agenda item for the Board to discuss a policy to promote native plants fostering fauna at District properties. Motion seconded by <u>Director Lo-Hill</u>.

### 13. PUBLIC COMMENTS

None.

### 14. CLOSED SESSION

None.

### 15. OPEN SESSION AND ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at 11:31 a.m.

Jay Lewitt, President
Board of Directors
Las Virgenes Municipal Water District

ATTEST:

Charles Caspary, Secretary
Board of Directors
Las Virgenes Municipal Water District

(SEAL)

July 31, 2019

To:

David W. Pedersen W. W. Julium General Manager From:

RE: Per Diem Request – July 2019

Attached are the Director statements of attendance for meetings, conferences and miscellaneous functions, which are summarized in the table below. If you have any questions, please contact me. Thank you.

On April 25, 2017, the Board adopted Resolution No. 2513, amending the per diem rate to \$220.

	<u>Director</u>	No. of Meetings	Rate	<u>Total</u>
8014	Charles Caspary	5	\$220.00	\$1,100.00
19447	Jay Lewitt	4	\$220.00	\$880.00
21169	Lynda Lo-Hill	6	\$220.00	\$1,320.00
18856	Leonard Polan	4	\$220.00	\$880.00
14702	Lee Renger	3	\$220.00	\$660.00

<sup>\*</sup>LVMWD Code Section 2-2.106(a): "not exceeding a total of ten (10) days in any calendar month"

<sup>\*\*</sup>LVMWD Code Section 2-2.106(b): MWD director "not exceeding a total of ten (10) additional days in any calendar month."

# LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT

Clerk of the Board

To:

Director's Name:

Charles Caspary

Month of: July 2019

Division:

Division 1

The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended:

		# of Da	# of Days Claimed	Reimbursible	Chec	Check One	Event Title
	Event	Travel 1	Total	Expenses <sup>2</sup> (Y/N)	MWD	LVMWD	
7/1/2019	1	-		1 N	×		LV - TSD SPECIAL BOARD MTG.
7/9/2019	1			N N	×		LVMWD-REGULAR BOARD MEETING
7/23/2019	1			7 Z	×		LVMWD - REGULAR BOARD MEETING
7/12/2019	1			7	×		ACWA - STATE LEGISLATIVE COMMITTEE MTG. SACRAMENTO
7/18/2019	1			1 N	×		SMBRC - EXECUTIVE COMMITTEE MTG - LOS ANGELES
		TOTAL		5			

Ventura and Orange Counties may be paid in accordance with Board Policy. 2. Attach completed NOTES: 1. Travel the day before and/or after an authorized meeting or seminar outside of LA,

Statement of Account and Claim for Personally Incurred Expenses form.

CHARLES CASPARY (via email) Director Signature:

July 26, 2019

Date Submitted:

LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT		
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Director's Name:

Division:

Jay Lewitt

2

The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended:

July

Month of:

Date(s)	#	# of Days Claimed	imed	Reimbursible	Chec	Check One	Event Title
				Expenses <sup>2</sup>			
	Event	Travel <sup>1</sup>	Total	(Y/N)	MWD	MWD LVMWD	
7.1.19	1		1			×	JPA Board Meeting
7.9.19	1		1			×	LVMWD Board Meeting
7.22.19	1		1			×	LV Met tour and meeting
7.23.19	1		1			×	LVMWD Board Meeting
			7				
		TOTAL	4				
							Date Submitted: 7.29.19

Notes: 1. Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. 2. Attach

completed Statement of Account and Claim for Personally Incurred Expenses form.

Director Signature:

# Lynda Lo-Hill 7 Director's Name: LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT Division: Josie Guzman, Clerk of the Board Month of: 7/1/2019-7/31/2019 To:

Date(s)	#	# of Days Claimed	med	Reimbursible	Chec	Check One	Event Title
	Event	Travel 1	Total	Expenses <sup>2</sup> (Y/N)	MWD	LVMWD	
7/1/19	1		1			×	JPA Board Meeting
91/1/19-1/10/19	4		4	>		×	Special Districts Boardmember Training
7/22/19	1		1			×	LVMWD Board Meeting
		TOTAL	9				

Ventura and Orange Counties may be paid in accordance with Board Policy. 2. Attach completed NOTES: 1. Iravel the day before and/or after an authorized meeting or seminar outside of LA, Statement of Account and Claim for Personally Incurred Expenses form.

Lynda Lo-Hill submitted by email

Director Signature:

# LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT

MICIPAL	Mor	To:
	STREET DISTURIES	AS VIRGENIES

Josie Guzman, Clerk of the Board

Director's Name:

lame:

Leonard Polan

-

#4 The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended: Division: Apr-19 nth of:

Date(s)		# of Days Claimed	imed	Reimbursible	Check	Check One	Event Title
				Expenses <sup>2</sup>			
	Event	Travel 1	Total	(N/N)	MWD	MWD LVMWD	
7/1/19	1	-	1		1	>	JPA Mtg
7/9/19	1	-				>	LVMWD Board Mtg
7/11/19	1		1			<b>&gt;</b>	ACいみ Region8 Telephonic meeting
7/23/19	1	1	1	1	1	>	LVMWD Board Mtg
		1					
		TOTAL	4				

NOTES: 1. Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. 2. Attach completed Statement of Account and Claim for Personally Incurred Expenses form.

Date Submitted:

7/31/19

Director Signature:

Jeanard Co. Datan

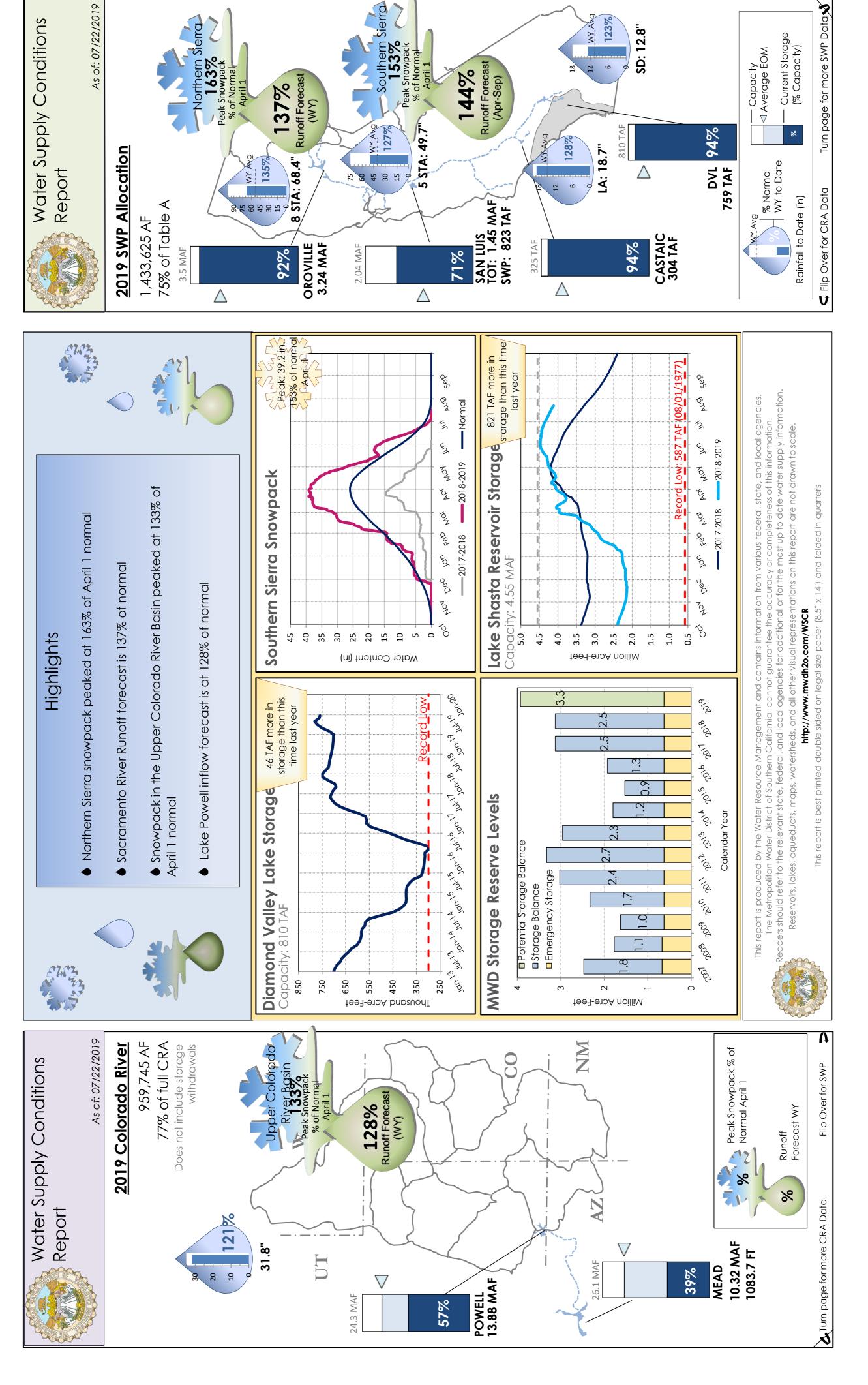
	<u>Lee Renger</u>	m
<u> Pertendina di </u>	Director's Name:	Division:
SO TASSAMEDINES KARAMERA JAKATARA DISTING EN	To: Josie Guzman, Clerk of the Board	Month of: July, 2019
	AS VIRGENIES	TOTAL DISTANCE

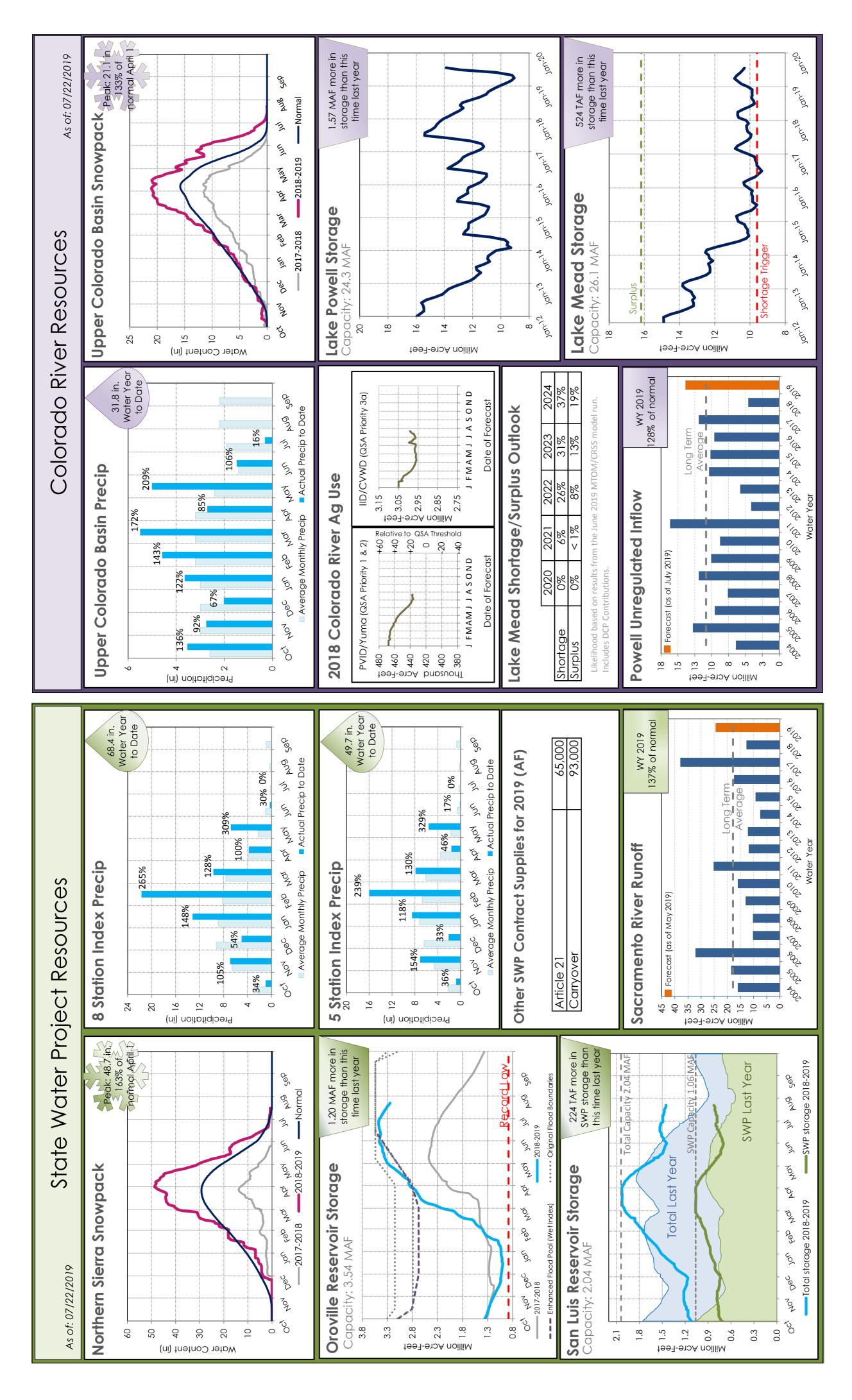
The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended:

				T	T			1				
- Kven¢fiilēt		UNI CONT	ING							27-Jul-19	~ //	Les Konge
	JPA BOARD MEETING	LVMWD BOARD MEFTING	LVMWD BOARD MEETING							Date Submitted:		Director Signature:
	×										•	
A CONTRACTOR												1
Reimborsible Expenses	Z	2	Z	·			• • • • • • • • • • • • • • • • • • •			1		
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NOTES: 1. Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. 2. Attach completed Statement of Account and Claim for Personally Incurred Expenses form.

123%







August 6, 2019 LVMWD Regular Board Meeting

TO: Board of Directors FROM: General Manager

**Subject: ACWA Committee Appointment Nominations for 2020-2021 Term** 

### **SUMMARY:**

On July 23, 2019, the District received the attached correspondence from ACWA that new officers for President and Vice President would be elected at the Fall Conference and requesting that ACWA members prepare to reconstitute all committees for the 2020-2021 term. A Committee Consideration Form must be completed and returned to ACWA no later than September 30, 2019 for the District's nominations to be eligible for consideration.

During the 2019-20 term, the following Board Members served on ACWA Committees: Director Charles Caspary (State Legislative), Director Jay Lewitt (Federal Affairs) and Director Len Polan (Water Management). In addition, former Director of Facilities and Operations David Lippman served on the Energy Committee.

### **RECOMMENDATION(S):**

Select candidates for ACWA committee appointment or re-appointment consideration, and authorize the General Manager to sign and return the completed Committee Consideration Form to ACWA no later than September 30, 2019.

### FISCAL IMPACT:

No

### **ITEM BUDGETED:**

No

### **FINANCIAL IMPACT:**

There is no financial impact associated with this item. If committee appointments are confirmed by ACWA, the District would be responsible for all costs associated with the

participation of its representatives on the committees.

Prepared by: David W. Pedersen, General Manager

### **ATTACHMENTS:**

Notification of ACWA Committee Nominations

From: Ana Javaid

Subject: ACWA 2020-2021 Committee Consideration Process

Date: Tuesday, July 23, 2019 1:00:22 PM

### **MEMORANDUM**

July 23, 2019

TO: ACWA MEMBER AGENCY BOARD PRESIDENTS
ACWA MEMBER AGENCY GENERAL MANAGERS

FROM: Brent Hastey, ACWA PRESIDENT

SUBJECT: ACWA COMMITTEE APPOINTMENT CONSIDERATIONS FOR THE 2020-2021 TERM

### PLEASE RESPOND BY SEPTEMBER 30, 2019

Thank you for your involvement with ACWA. As you know, Committees are an integral part of ACWA's activities and policy development. With the end of the current Committee term fast approaching, it is time again to request 2020-2021 Committee nominations from ACWA members. All Committees will be reconstituted following the election of new officers (ACWA's President / Vice-President) at the 2019 ACWA Fall Conference.

In submitting names for consideration, please do so with the understanding that Committees need active, involved individuals able to expend the time and provide their expertise, if appointed. Please keep in mind that the district is responsible for all costs associated with the participation of its representatives on Committees.

The following information is available at ACWA's website or by clicking on each link.

- ACWA Policy Committee Composition
- ACWA Committee Consideration Form
- ACWA Committee Consideration Process Timeline

If you would like to reference current Committee members serving on a ACWA Committee please click  $\underline{\text{here}}$ .

All correspondence and forms regarding Committee appointments must be submitted to the ACWA office no later than September 30, 2019 to be eligible for consideration. Committee appointments will be made by the incoming ACWA President in December. Please contact Interim Business Services Specialist, Petra Rice, at <a href="mailto:petrar@acwa.com">petrar@acwa.com</a> or (916) 441-4545, if you have any questions concerning the Committee appointment process.

We appreciate your timely attention to this matter.  $% \label{eq:continuous}%$ 

Thank you,

Brent Hastey, ACWA President



### **ACWA COMMITTEE COMPOSITION**

COMMITTEE LIAISON

### Agriculture Committee - Standing/Unlimited

Meetings: 2-3 times a year

The Agriculture Committee makes recommendations to the Board of Directors, State Legislative Committee, Federal Affairs Committee or other committees, as appropriate, regarding agricultural issues affecting the interests of ACWA and its members. This newly-formed committee is currently being assembled.

# Adam Borchard Regulatory Advocate adamb@acwa.com

### Business Development Committee - Standing/Unlimited

Meetings: 2 times a year

The Business Development Committee develops and recommends to the Board of Directors programs and activities to be provided or administered by the association that generate non-dues revenue and provide a service or benefit to association members.

### **Paula Currie**

Director of Business

Development & Events

paulac@acwa.com

### Communications Committee - Standing/Limited (40 maximum)

Meetings: 4 times a year

The Communications Committee develops and recommends to the Board of Directors and ACWA staff regarding communications and public affairs programs. The committee promotes sound public information and education programs and practices among member agencies. It prepares and distributes materials for use by member agencies in their local outreach efforts. It also provides input and guidance to ACWA's Communications Department.

### **Heather Engel**

Director of Communications heathere@acwa.com

### Energy Committee - Standing/Unlimited

Meetings: 2 times a year

The Energy Committee recommends policies and program to the Board of Directors, the State Legislative Committee and the Federal Affairs Committee as appropriate.

### **Chelsea Haines**

Regulatory Advocate II chelseah@acwa.com

### Federal Affairs Committee – Standing/Limited (5 Per Region)

Meetings: 2 times a year

The Federal Affairs Committee coordinates with other ACWA committees regarding input on federal issues before both Congress and the federal administrative branches.

### **David Reynolds**

Director of Federal Affairs dlreyns@sso.org

## **Finance Committee** – Standing/Limited (2 Per Region – 1 Region Chair or Vice Chair; 1 with financial experience)

experience)

Meetings: 4-5 times a year

The Finance Committee makes recommendations to the Board of Directors regarding annual budgets, investment strategies, annual audits and auditor selection, dues formula and schedule, and other financial matters.

### Fili Gonzales

Director of Finance & Business Services filig@acwa.com

### **Groundwater Committee** – Standing/Unlimited

Meetings: 4 times a year

The Groundwater Committee makes recommendations to the Board of Directors on groundwater policy issues. The committee also monitors state and federal regulations and legislation affecting the quality and management of groundwater, conducts studies and gathers data on groundwater issues, develops policies regarding groundwater management and coordinates with other committees on groundwater issues.

### **Dave Bolland**

Director of State
Regulatory Relations
daveb@acwa.com



### Legal Affairs Committee – Standing/Limited (45 Maximum)

Meetings: 2-3 times a year

The Legal Affairs Committee acts on requests for assistance on legal matters of significance to ACWA member agencies. It also reviews proposed ACWA bylaw revisions and works with staff to produce publications to assist member agencies in complying with state and federal laws. The committee files amicus curiae filing on important cases, comments on proposed regulations and guidelines of state agencies such as the Fair Political Practices Commission and monitors and engages in water rights waters of interest to member agencies.

Kris Anderson Legislative Advocate I krisa@acwa.com

\*The committee shall be composed of between 34 and 44 attorneys, each of whom shall be, or act as, counsel for a member of the Association.

### **Local Government Committee – Standing/Limited (3 Per Region)**

Meetings: 4 times a year

The Local Government Committee makes recommendations to the Board of Directors and the State Legislative Committee on local government matters affecting water agencies, including planning issues, local government organization, and finance. The committee also gathers and disseminates information on the value of special districts, and shares information promoting excellence in local government service delivery.

Adam Quiñonez
Director of State
Legislative Relations
adamq@acwa.com

### Membership Committee – Standing/unlimited

Meetings: 2 times a year

The Membership Committee makes recommendations to the Board of Directors regarding membership policies, eligibility and applications for membership. The committee assists staff in developing membership recruitment and retention programs and reviews and makes recommendations to the Finance Committee regarding an equitable dues structure.

### **Tiffany Giammona**

Director of Member Outreach & Engagement tiffanyg@acwa.com

### State Legislative Committee – Standing/Limited (4 Per Region)

Meetings: 10-12 times a year

The State Legislative Committee reviews relevant introduced and amended legislation, and develop positions and provide recommendations to the Board of Directors on ballot measures and other major statewide policy issues. The committee also works with staff amendments to bills and provides director for staff on legislative matters.

### Adam Quiñonez

Director of State Legislative Relations adamq@acwa.com

### Water Management Committee – Standing/Limited (4 Per Region)

Meetings: 4 times a year

The Water Management Committee makes recommendations to the Board of Directors on policy and programs related to water management. The committee reviews and recommendation positions on legislation and regulations as requested by other committees. The committee also assists in gathering and disseminating information regarding agricultural and urban water management, water conservation and water use efficiency, development and use of water resources, wastewater treatment and water recycling and reuse.

### **Dave Bolland**

Director of State
Regulatory Relations
daveb@acwa.com

### Water Quality Committee – Standing/Unlimited

Meetings: 4 times a year

The Water Quality Committee makes recommendations to the Board of Directors, the State Legislative Committee and the Federal Affairs Committee on policy and program regarding water quality issues. The committee promotes cost-effective state and federal water quality regulations and provides a forum for members to work together to develop and present unified comments on water quality regulations. The committee also develops and recommends positions and testimony on water quality regulatory issues.

Adam Borchard
Regulatory Advocate
adamb@acwa.com



August 6, 2019 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Facilities & Operations

Subject: Rondell Oasis Hotel: Easement Encroachment Agreement

### **SUMMARY:**

The Rondell Oasis Hotel is a project under development at 26300 Rondell Road near Las Virgenes Road at southbound on-ramp to the 101 Freeway in the City of Calabasas. The proposed project includes a 4-story hotel with up to 127 rooms, a pool and surface parking on a 4.13-acre property. A District-owned 30-inch water main passes through the proposed project site within a 20-foot-wide easement. Given the location of the easement, the property owner has requested authorization of an encroachment to allow for grading and construction of hardscape and landscape improvements within the easement area. Based on the plans, a concrete water fountain, planters, pavement, curbs and landscaping are proposed within the easement area.

Staff requests authorization to execute the attached Easement Encroachment Agreement, which has been approved as to form by District Counsel, to allow the proposed improvements within the easement area. The agreement ensures that the encroachment would not interfere with the District's operation and maintenance of the 30-inch water main and provides a broad indemnification to the District for any potential future liability associated with the encroachment.

### **RECOMMENDATION(S):**

Authorize the General Manger to execute the Easement Encroachment Agreement with Rondell Hotel, LLC, authorizing an encroachment for construction of improvements associated with the Rondell Oasis Hotel at 26300 Rondell Road, Calabasas.

### **FISCAL IMPACT:**

No

### **ITEM BUDGETED:**

No

### **FINANCIAL IMPACT:**

There is no financial impact associated with the proposed action.

### **DISCUSSION:**

The property owner for the Rondell Oasis Hotel has requested an easement encroachment to proceed with plans to grade and construct architectural landscaping above a 30-inch water main owned by the District. The water main is within a 20-foot-wide easement (see Attachment 1) that runs directly through the property. As shown on Sheet Nos. 1 to 3 of Attachment 2, the Easement Encroachment Agreement, the hotel developer proposes to build a concrete water fountain together with other hardscape and landscaping features that would encroach on the District-owned easement for the 30-inch water main. A detailed list of the elements of the proposed encroachment is included as Exhibit 1 to the agreement.

The developer agreed to execute the Easement Encroachment Agreement, which will be recorded on the property, indemnifying the District from any future liability that could be associated with the encroachment, including repair and/or restoration work that may be required for any of the encroaching improvements. The agreement ensures that the encroachment would not interfere with the District's operation and maintenance of the 30-inch water main. District Counsel has reviewed and approved the proposed agreement as to form.

### **GOALS:**

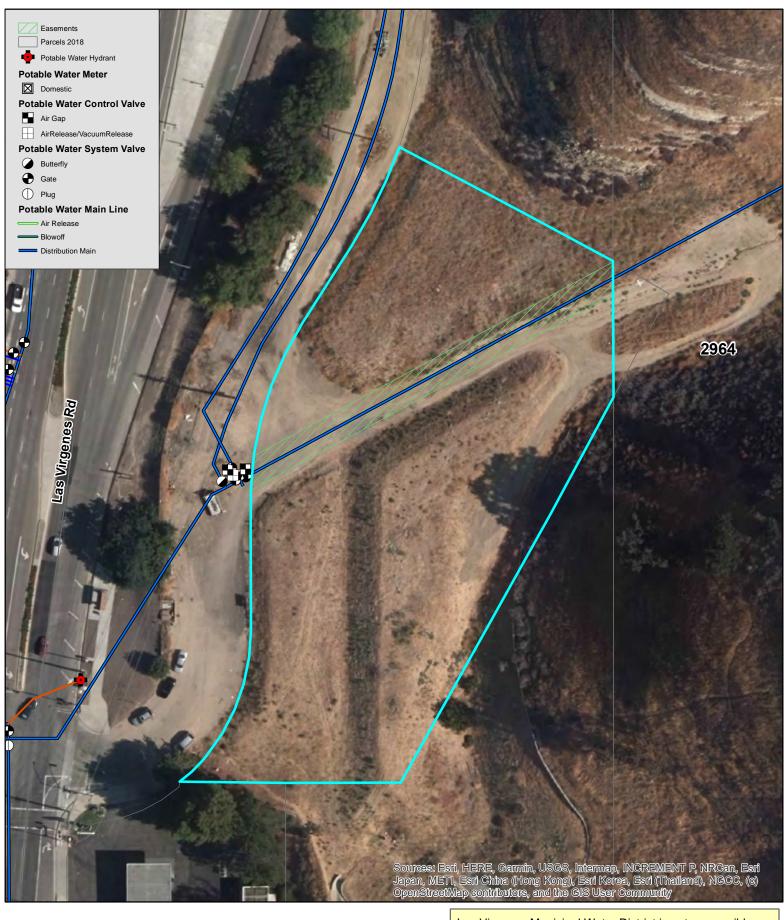
Construct, Manage and Maintain All Facilities and Provide Services to Assure System Reliability and Environmental Compatibility

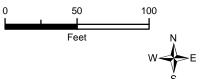
Prepared by: Veronica Hurtado, Assistant Engineer

### **ATTACHMENTS:**

Attachment 1 - Map of Utilities and Easement

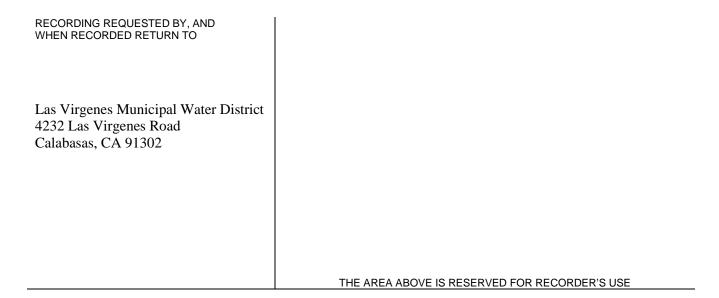
Attachment 2 - Easement Encroachment Agreement





### **ATTACHMENT 1**

Las Virgenes Municipal Water District is not responsible for the accuracy of this presentation. This presentation is for illustrative purposes only. Verify the physical location of all property lines, water lines and ancillary information prior to use.



### EASEMENT ENCROACHMENT AGREEMENT

As of August 6, 2019, LAS VIRGENES MUNICIPAL WATER DISTRICT ("District") and Rondell Hotel, LLC ("Rondell") agree as follows:

**Section 1.** Purpose and Scope. Rondell owns the property known as 26300 Rondell St, Calabasas, CA, APN 2069-078-902,904 ("Site"). There is one utility line and easement belonging to the District that passes through the Site. The District owns an easement on the Site for a 30 inch water line, set forth in the easement recorded on March 30, 1966, recordation number BKD3255PG157, in the Official Records of Los Angeles County, CA ("Easement"). This Agreement sets forth the terms on which Rondell may construct improvements on the Easement.

**Section 2.** <u>Use of the Easement.</u> Rondell may construct improvements within the Easement as shown in the attached and hereby incorporated Attachment A and Exhibit 1, ("Improvements") to the extent that such Improvements do not increase the burden on, or interfere with, the District's use of the Easement. The Improvements shall not prevent the District from obtaining access to the Easement or District improvements located within the Easement. Rondell shall repair any damages discovered from its construction activities at its own expense.

**Section 3.** <u>Indemnification.</u> To the fullest extent permitted by law, Rondell shall immediately indemnify and hold District, its directors, officials, officers, employees, volunteers, and agents free and harmless from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage, or injury of any kind, in law or equity, to property or persons, including wrongful death, in any manner arising out of, pertaining to, or incident to any alleged acts, errors, or omissions of Rondell, its officials, officers, employees, subcontractors, consultants, or agents in connection with the Improvements, Rondell's access to the Easement, or this Agreement, including without limitation the payment of all consequential damages,

attorneys' fees and costs, including expert witness fees. Rondell's obligation to indemnify shall survive expiration or termination of this Agreement, and shall not be restricted to insurance proceeds, if any, received by District, its directors, officials, officers, employees, agents, or volunteers.

In addition to the foregoing: Rondell agrees that the District will not be liable for any damages whatsoever, including direct, indirect, incidental, special, consequential, or exemplary damages and including the costs for repair, replacement, or restoration of any fixture or structure constructed or placed in the easement area (even if the District has been advised of the possibility of such damages), arising from, relating to, or connected with Rondell's access to or use of the easement, except when such damages are caused by the gross negligence or willful misconduct of the District.

### **Section 4. General Provisions.**

- (a) Except as provided herein, this Agreement shall not modify or amend the terms and condition of the Easement.
- (b) This Agreement shall bind and benefit the parties, their successors in interest, and assigns.

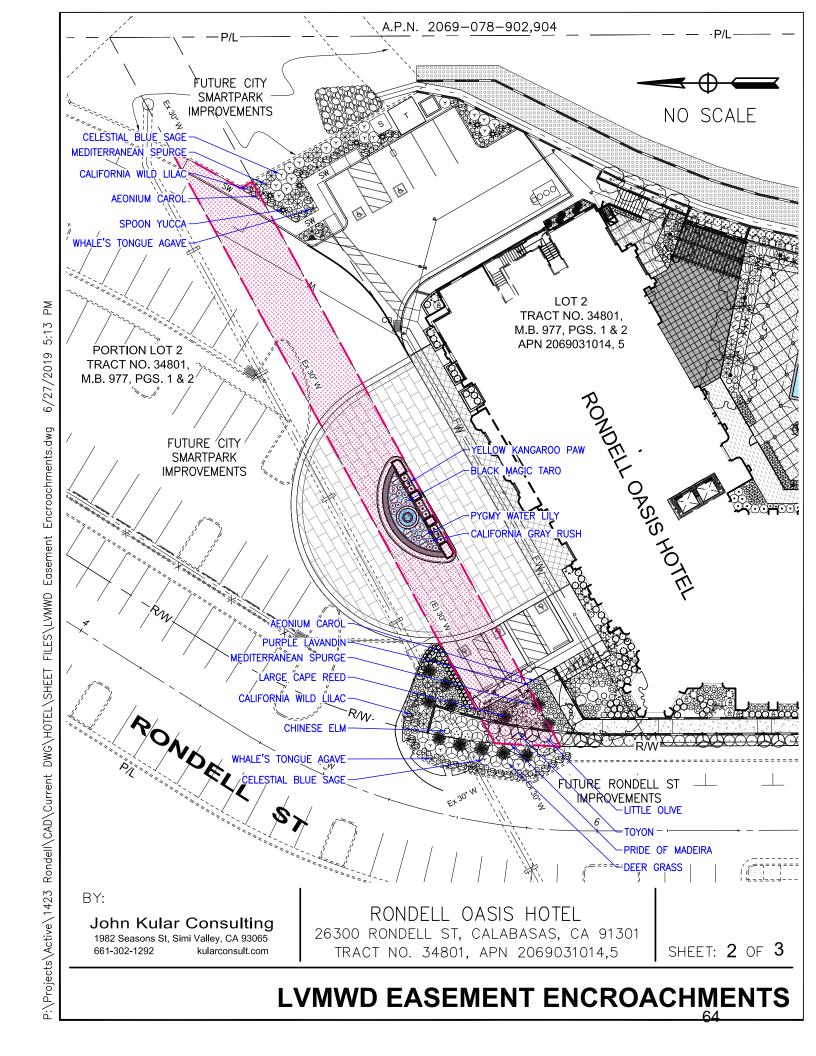
THE PARTIES HAVE EXECUTED THIS AGREEMENT AS OF THE DATE SET FORTH ABOVE.

111	
General Manager	
District Counsel:	
Rondell Hotel, LLC	

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA	)
COUNTY OF LOS ANGELES	) ss: )
On before me, _	
	(insert name and title of the officer),
basis of satisfactory evidence to b instrument and acknowledged to a authorized capacity(ies), and that the entity upon behalf of which th	, who proved to me on the be the person(s) whose name(s) is/are subscribed to the within me that he/she/they executed the same in his/her/their by his/her/their signature(s) on the instrument the person(s), or ne person(s) acted, executed the instrument.  CRJURY under the laws of the State of California that the correct.
WITNESS my hand and official s	seal.
Signature:	
[Seal]	

S:\Work\Projects\Rondell Oasis Hotel\Drawings\OASIS LVMWD



# LVMWD EASEMENT GRADING

SHEET 3 of 3

John Kular Consulting 1982 Seasons St, Simi Valley, CA 93065 661-302-1292 kularconsult.com

26300 RONDELL ST, CALABASAS, CA 91301 TRACT NO. 34801, APN 2069031014,5 RONDELL OASIS HOTEL

### Exhibit 1

### 30" WATER LINE PER LVMWD 01249,01251

### (20' WIDE EASEMENT PER O.R. D-3255-157).

### List of Encroachments:

### Sheet 1:

- 58 LF 6" CONCRETE CURB
- 253 SF 4" CONCRETE WALK
- 3. 2035 SF ASPHALT PAVEMENT (4" AC OVER 9" AB)
- 4. 1325 SF CONCRETE PAVEMENT (6" PCC OVER 6" AB)
- 2- WHEEL STOPS
- ADA SIGN, ADA PAVEMENT MARKINGS
- 1/2" PRIVATE WATER LINE CROSSING
- 1-1" IRRIGATION WATER SERVICE HOT TAP, 1" WATER METER
- 9. 1- 6" FIRE SERVICE HOT TAP, 6" DETECTOR CHECK ASSEMBLY
- 1- 3" DOMESTIC WATER SERVICE HOT TAP, 3" WATER METER

### Sheet 2:

### Landscaping:

- 1. 8-5 gal. Mediterranean Spurge
- 2. 4-5 gal. Ceanothus
- 3. 6-5 gal. Carol's Aeonium
- 4. 9-5 gal. Kangaroo Paw
- 5. 3-2 gal. Taro
- 6. 12-1 gal. California Gray Rush
- 7. 5-3-5 gal. Water Lily
- 8. 6-5 gal. Lavandin
- 9. 3-5 gal. Large Cape Reed
- 10. 2-15 gal. Toyon
- 11. 5-15 gal. Little Olive
- 12. 2-15 gal. Pride of Madeira
- 13. 5-5 gal. Deer Grass
- 14. 1-60" box Chinese Elm
- 15. Fountain 212 SF Water
- 16. Irrigation (Drip and Bubbler) 409 sf



August 6, 2019 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Facilities & Operations

Subject: Liberty Canyon Emergency Fire Hydrant Repair: Ratification of

**Emergency Declaration** 

### **SUMMARY:**

On July 11, 2019, a fire hydrant break occurred along Liberty Canyon Road near the intersection with Agoura Road (see attached vicinity map). Standby staff responded to the break and crews repaired the fire hydrant on July 15th. However, the corrosion break occurred on a buried section of the fire hydrant and caused significant damages to the surrounding sidewalk and asphalt pavement (see attached photos), which need to be removed and replaced to mitigate hazardous conditions to the public. As a result, the General Manager authorized staff to hire R.C. Becker & Sons to replace the buckled concrete sidewalk and lifted asphalt pavement on an emergency basis. The cost of the work was estimated to be more than \$35,000, which is the limit of the General Manager's authority and requires Board approval. Staff recommends that the Board ratify the General Manager's declaration of emergency for the work.

### **RECOMMENDATION(S):**

Pass, approve and adopt proposed Resolution No. 2560, ratifying the General Manager's declaration of an emergency that requires immediate action without delay to perform sidewalk and asphalt pavement repair on Liberty Canyon Road.

### **RESOLUTION NO. 2560**

A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT FINDING THAT AN EMERGENCY WOULD NOT PERMIT A DELAY RESULTING FROM A COMPETITIVE SOLICITATION FOR SIDEWALK AND ASPHALT REPAIR RESULTING FROM A FIRE HYDRANT BREAK ALONG LIBERTY CANYON ROAD NEAR THE AGOURA ROAD INTERSECTION IN AGOURA HILLS

(Reference is hereby made to Resolution No. 2560 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

### FISCAL IMPACT:

Yes

### **ITEM BUDGETED:**

Yes

### FINANCIAL IMPACT:

The total cost of the repair work is estimated to be \$38,466.40, consisting of \$20,152.40 to remove and replace the sidewalk and \$18,314.00 to remove and replace the asphalt pavement. Sufficient funding for the work is available in the adopted Fiscal Year 2019-20 Budget.

### **DISCUSSION:**

On Thursday, July 11, 2019, standby staff were alerted to a fire hydrant break on Liberty Canyon Road. The fire hydrant failure undermined the surrounding soil, which caused displacement of the existing curb, gutter, sidewalk and a section of roadway pavement. The hydrant was repaired by District staff. However, broken sidewalk, curb, and gutter extended 18 feet north of the hydrant and 122 feet south, for a total of 140 feet of concrete and pavement damaged by the broken fire hydrant.

The City of Agoura Hills and nearby residents expressed an urgency for repairs to mitigate the hazard of uneven pavement and allow for reopening of the bike lane along the stretch of Liberty Canyon Road. Staff solicited three quotes to replace the sidewalk, curb, gutter and street damaged by the broken fire hydrant. Quotes were received from Toro Enterprise and R.C. Becker & Sons, in the amounts of \$61,036.75 and \$38,466.40, respectively. A third contractor declined to bid. With approval of the General Manager, staff issued an emergency purchase order to R.C. Becker & Sons to complete the work.

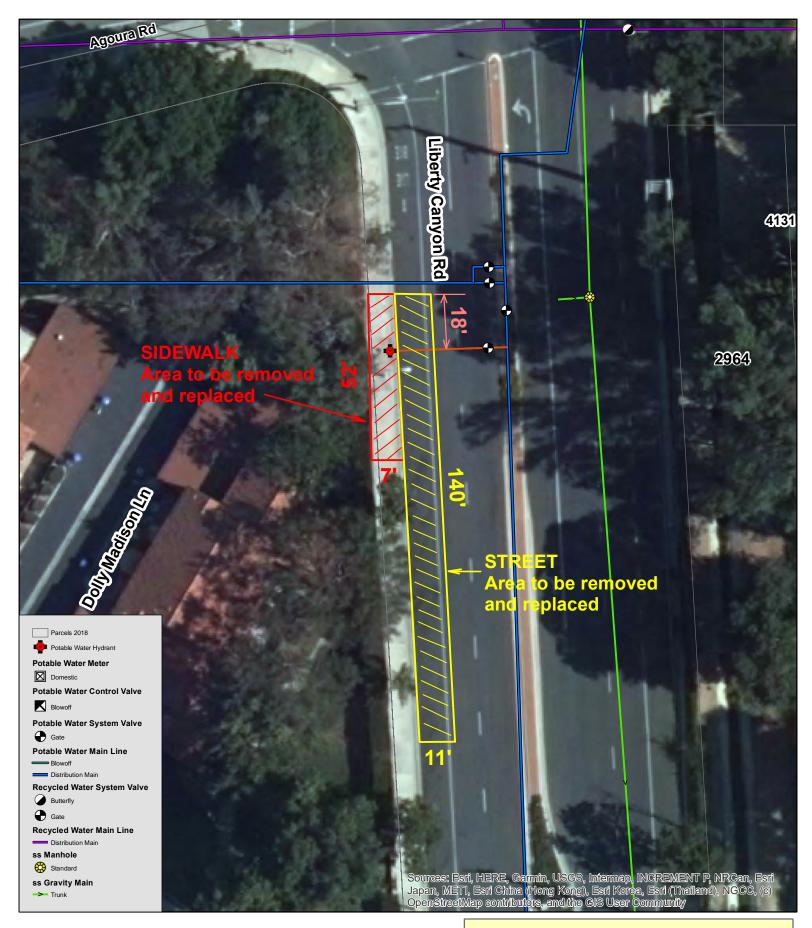
### GOALS:

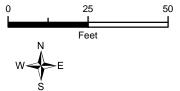
Construct, Manage and Maintain All Facilities and Provide Services to Assure System Reliability and Environmental Compatibility

Prepared by: Veronica Hurtado, Assistant Engineer

### **ATTACHMENTS:**

Vicinity Map
Photos of Damage
Emergency Purchase Order
Proposed Resolution No. 2560





Liberty Canyon Rd Fire Hydrant Break Las Virgenes Municipal Water District is not responsible for the accuracy of this presentation. This presentation is for illustrative purposes only. Verify the physical location of all property lines, water lines and ancillary information prior to use.

Photos of Liberty Canyon Rd













Requisition Date:			Requisitioned By:			Extension:		
Type of Purchase:	Requires	approva	l per departme	nt proce	ss and District p	urchasing	author	ization limits
OP=Goods Only (Default) Approval Signatures:			OK=Services Only Approval Signatures:			OO=Urgent Director or GM Signature:		
OB/OX=Blanket –Recu Approval Signatures:				OS=Emergency GM Signature:				
Sole Source/Prop Competitive Bid Proces						≥ \$35,000-Route to Purchasing Department		
Purchase Justification	on:							
Budgeted Item	Amount:		Sugge	ggested Vendor:		Pho	Phone/E-mail:	
Account Number	Quantity	MOU	JOM Descr		ption Un		Cost	Extended Cost
					S	ales Tax?		
Refer to District Purcha	asing Manual f	or detaile	d procedures. Rec	auisitions t	for purchases \$2500		nd Tota	II \$ ntered into JD Edwards,
by Department Designee and include PDF at			DF attachment of required back-					

### **RESOLUTION NO. 2560**

A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT FINDING THAT AN EMERGENCY WOULD NOT PERMIT A DELAY RESULTING FROM A COMPETITIVE SOLICITATION FOR SIDEWALK AND ASPHALT REPAIR RESULTING FROM A FIRE HYDRANT BREAK ALONG LIBERTY CANYON ROAD NEAR THE AGOURA ROAD INTERSECTION IN AGOURA HILLS

WHEREAS, on July 11, 2019, a fire hydrant break occurred along Liberty Canyon road near the Agoura Road intersection in Agoura Hills;

WHEREAS, on July 15, 2019, Las Virgenes Municipal Water District staff repaired the fire hydrant break;

WHEREAS, the corrosion break occurred on a buried section of the fire hydrant and caused significant damages to the sidewalk and asphalt pavement, which needed to be removed and replaced in order to mitigate hazardous conditions to the public;

WHEREAS, due to the immediate action required to restore the sidewalk and asphalt pavement, the General Manager authorized an emergency purchase order to complete the necessary work expeditiously and waive the need for public bidding;

WHEREAS, a competitive bidding process is normally required for construction projects involving an amount of \$35,000 or more pursuant to California Public Contract Code §20642;

WHEREAS, one exception to the requirement to give notice for bids to let such contracts is in the case of emergency;

WHEREAS, "emergency" means a sudden, unexpected occurrence that poses a clear and imminent danger, requiring immediate action to prevent or mitigate the loss or impairment of life, health, property, or essential public services (California Public Contract Code §1102);

WHEREAS, in an emergency, the District may, pursuant to California Public Contract Code §22050, repair or replace a public facility, take any directly related and immediate action required, and procure the necessary equipment, services, and supplies for those purposes without engaging in the competitive bidding process; and

WHEREAS, staff recommends that the Board ratify the General Manager's declaration of emergency to perform sidewalk and asphalt pavement repairs to mitigate hazardous conditions to the public.

### NOW, THEREFORE, BE IT RESOLVED BY THE GOVERINING BOARD OF DIRECTORS OF THE LAS VIRGENES MUNICIPAL WATER DISTRICT AS FOLLOWS:

 Substantial evidence supports a finding that the above-described circumstances constituted an emergency that would not permit a delay resulting from a competitive solicitation for bids and the above-described actions were necessary to respond to this emergency.

- 2. The Board ratifies the General Manager's declaration of emergency in response to this incident, including the issuance of a purchase order to R.C. Becker & Sons, in the amount of \$38,466.40, for sidewalk and asphalt pavement repairs on Liberty Canyon Road.
- 3. The Board shall review these emergency actions at the next Board meeting and, if those actions continue, shall terminate those actions at the earliest possible date that conditions warrant so that the remainder of the emergency actions may be completed by giving notice for bids to let contracts should sufficient time then exist to secure the necessary services.

PASSED, APPROVED, AND ADOPTED this 6th day of August 2019.

	Jay Lewitt, President	
ATTEST:		
Charles P. Caspary, Secretary		
APPROVED AS TO FORM:		
APPROVED AS TO FORM.		
W. Keith Lemieux, District Counsel		



August 6, 2019 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject: Financial Analysis and Rate Study: Award

### **SUMMARY:**

On May 16, 2019, the District circulated a Request for Proposals for five-year financial analysis and rate study. Proposals were received from the following firms: Bartle Wells Associates; Municipal & Financial Services Group; Raftelis Financial Consultants, Inc.; and RDN. Staff recommends accepting the proposal from Raftelis Financial Consultants, Inc., based on their extensive experience completing financial analyses and rate studies of similar complexity for comparable water districts.

### RECOMMENDATION(S):

Accept the proposal from Raftelis Financial Consultants, Inc., and authorize the General Manager to execute a professional services agreement, in the amount of \$99,171, for preparation of a financial analysis and rate study.

### **FISCAL IMPACT:**

Yes

### **ITEM BUDGETED:**

Yes

### FINANCIAL IMPACT:

The total cost of the work is \$99,171. Sufficient funds are available for the work in the adopted Fiscal Year 2019-20 Budget.

### **DISCUSSION:**

The District last completed a five-year financial analysis and rate study in 2015. The final rate

adjustment based on the existing study is scheduled to go into effect on January 1, 2020. A new financial analysis and rate study is recommended to establish rates for the next five-year period to ensure the District continue to appropriately recover the cost of its services in compliance with the California Constitution.

On May 16, 2019, the District circulated a Request for Proposals (RFP) for an updated fiveyear financial analysis and rate study. The scope of work included completion of a cost of services analysis, financial analysis and recommendation of updated rates for potable water, recycled water and sanitation services. The RFP also requested that firms provide recommendations to refine the current water budget setting methodology for commercial accounts, which are currently set at 90% of a three-year average. The current methodology has proved challenging given the turnover of commercial spaces, changes of use and the need to support business growth.

The RFP was sent to known firms providing rate study and financial analysis services and advertised on the California Society of Municipal Finance Officers (CSMFO) and District websites. Four proposals were reviewed and evaluated by a committee consisting of the Director of Finance and Administration, Customer Service Manager, and Finance Manager. The proposals were ranked based on experience; performance on comparable engagements; quality of the firm's professional personnel; quality of the work plan and approach; demonstrated results for projects with similar scopes and cost.

Following is a summary of the four proposals:

<u>Firm</u>	Fee Proposal
Bartle Wells Associates	\$101,600
Municipal & Financial Services Group	\$111,880
Raftelis Financial Consultants, Inc.	\$99,141
RDN	\$79,620

The evaluation committee conducted interviews with the three highest ranked firms following the initial review of the proposal: Bartle Wells Associates, Raftelis and RDN. Based on the committee's evaluation, staff recommends that the Board accept the proposal from Raftelis Financial Consultants Inc. (copy attached), and authorize the General Manager to enter into a professional services agreement for the financial analysis and rate study.

Raftelis has extensive experience in all aspects of the requested scope, including cost of service analyses, financial analyses and the development of budget-based rates. Raftelis also provided the most robust responses during the interview process in regards to an approach to potentially update the water budget setting methodology for commercial customers, which is an important element of the rate study. Raftelis successfully completed the District's 2015 Financial Analysis and Rate Study and updates to the Districts capacity and miscellaneous fees.

### **GOALS:**

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Donald Patterson, Director of Finance and Administration

### **ATTACHMENTS:**

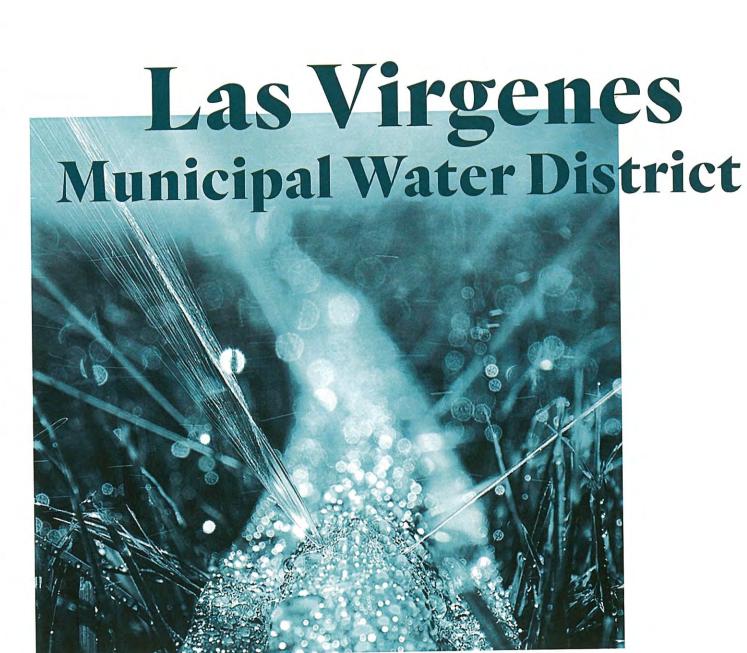
Proposal by Raftelis Financial Consultants, Inc. Updated Fee Proposal



### **Financial Analysis & Rate Study**

PROPOSAL / JUNE 17, 2019

Contact Person: Sanjay Gaur 445 S. Figueroa Sţ., Suite 2270 Los Angeles, CA, 90071 Email: sgaur@raftelis.com Phone: 213.262.9304



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Raftelis is registered with the U.S. Securities Exchange Commission (SEC) and the Municipal Securities Rulemaking Board (MSRB) as a Municipal Advisor.

Registration as a Municipal Advisor is a requirement under the Dodd-Frank Wall Street Reform and Consumer Protection Act. All firms that provide financial forecasts that include assumptions about the size, timing, and terms for possible future debt issues, as well as debt issuance support services for specific proposed bond issues, including bond feasibility studies and coverage forecasts, must be registered with the SEC and MSRB to legally provide financial opinions and advice. Raftelis' registration as a Municipal Advisor means our clients can be confident that Raftelis is fully qualified and capable of providing financial advice related to all aspects of utility financial planning in compliance with the applicable regulations of the SEC and the MSRB.

TRANSMITTAL LETTER 01



June 17, 2019

Mr. Donald Patterson Director of Finance and Administration Las Virgenes Municipal Water District 4232 Las Virgenes Road Calabasas, CA 91302

Subject: Proposal for Financial Analysis and Rate Study

Dear Mr. Patterson:

Raftelis is pleased to present this proposal to assist Las Virgenes Municipal Water District (District) in conducting a water, sanitation (wastewater), and recycled water financial analysis and rate study. Raftelis has one of the largest practices in California and the country, specializing in financial and rate consulting for water, recycled water, and wastewater utilities. We are confident in our ability to develop a sustainable financial plan and optimal rate structure for each utility that will comply with Proposition 218 and other regulatory requirements, in addition to meeting the District's goals. We have assisted numerous agencies in California and across the United States with successfully implementing rate structures that fund capital infrastructure plans, with sensitivity to agencies' other policy concerns, such as meeting revenue requirements during periods of reduced consumption. We have conducted many similar studies, including for Western Municipal Water District, El Toro Water District, the City of Camarillo, and the City of Thousand Oaks.

Raftelis has assembled an experienced team to assist the District with this project. I, Sanjay Gaur, will serve as Project Manager and will ultimately be responsible for the project's success to your satisfaction. I have 20 years of public-sector consulting experience and have worked on over 200 rate studies throughout California in all aspects. I am widely considered in the industry to be one of the leading experts in the evaluation, development, and implementation of water budget-based rate structures and have conducted numerous such studies throughout the state. I have also authored a chapter about water budget rate structures in *Manual M1: Principles of Water Rates, Fees and Charges, 7th Edition* (Manual M1) and contributed to *Water Rates, Fees, and the Legal Environment, 2nd Edition*, published by the American Water Works Association (AWWA). Kevin Kostiuk will provide a critical review of the methodology and results and serve as Technical Reviewer. Mr. Kostiuk has 11 years of professional experience with a focus is in water cost of service, drought rate modelling, water budget rate structures, and groundwater fee analysis. Charles Diamond will serve as the Lead Consultant, conducting the data analyses to build the model. Staff consultants from our Los Angeles and Murrieta offices will assist us in conducting analyses and preparing project deliverables.

I have read, understood, and agree to all statements in this request for proposals and acknowledge receipt of all addendums/ amendments as well as to the terms, conditions, and attachments referenced. Raftelis is committed to perform this study within the 18-month time period specified and understands that our proposal is a firm and irrevocable offer for 90 days.

Raftelis is proud of the team and resources we can offer the District on this important engagement. If you have any questions, please do not hesitate to contact me.

Sincerely,

Sanjay Gaur Vice President

Office: 213 262 9304 / Mobile: 213 327 4405 / Email: sgaur@raftelis.com

445 S. Figueroa Street Suite 2270 Los Angeles, CA 90071

WWW.RAFTELIS.COM

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# **Key Personnel**

WE HAVE DEVELOPED A TEAM OF CONSULTANTS WHO SPECIALIZE IN WATER BUDGER RATES THAT WILL BE CRITICAL TO THE SUCCESS OF THE DISTRICT'S PROJECT.

Our team includes senior-level professionals to provide experienced project leadership, with support from talented consulting staff. This close-knit group has frequently collaborated on similar successful projects, providing the District with confidence in our capabilities.

Here, we have included an organizational chart showing the structure of our Project Team. On the following pages, we have included brief profiles and project roles for each of our team members along with detailed resumes.

LAS VIRGENES
WATER DISTRICT

PROJECT MANAGER

Sanjay Gaur

STAFF CONSULTANTS

Charles Diamond (lead), Lauren Demine, Arisha Ashraf, & Sindhu Sundar TECHNICAL REVIEWER

**Kevin Kostiuk** 

CUSTOMER EDUCATION
AND OUTREACH

Melissa Elliott, APR Katie Knoll

# Leading the industry

Raftelis staff shape industry standards for water and wastewater utility finance and management through our active leadership in AWWA, WEF, and EPA. Raftelis' staff includes:

#### **AWWA**

- Asset Management Committee 1 member
- Benchmarking Committee 1 member
- Finance, Accounting, and Management Controls Committee
   2 members
- Management and Leadership Division Chair and Vice Chair
- Public Affairs Council Chair
- Rates and Charges Committee Chair and 7 members
- Strategic Management Practices Committee Chair
- Technical and Education Council 1 Trustee

#### WEF

- Finance and Administration Subcommittee Chair
- Technical Practices Committee 1 member
- Utility Management Committee 4 members
- WEFTEC Conference Planning Committee 1 member

#### **EPA**

Environment Financial Advisory Board - 1 member



# We wrote the book

Raftelis staff have co-authored many of the industry's leading guidebooks regarding water and wastewater financial and management issues.

- Affordability of Wastewater Service (WEF)
- Financing and Charges for Wastewater Systems, Manual of Practice 27 (WEF)
- Manual M1, Principles of Water Rates, Fees and Charges (AWWA)
- Manual M5, Water Utility Management (AWWA)
- The Effective Water Professional (WEF)
- Water and Wastewater Finance and Pricing: The Changing Landscape
- Water and Wastewater Rate Survey (conducted and published collaboratively with AWWA and Raftelis)
- Water Rates, Fees, and the Legal Environment (AWWA)
- Solid Waste Rate Setting and Financing: Guide Analyzing Cost of Services and Designing Rates for Solid Waste Agencies (AWWA)



Sanjay Gaur

Vice President



Will manage the day-to-day aspects of the project and will lead consulting staff in conducting analyses and preparing deliverables for the project. He will be available for all in-person meetings and will serve as the main point of contact.

### CAREER HIGHLIGHTS

PROJECT ROLE

- 20 years of experience
- Co-author of: AWWA's M1 Manual; AWWA's Water, Rates, Fees, and the Legal Envronment; & Water and Wastewater Finance and Pricing
- Financial/rate consulting experience with Las Virgenes Municipal Water District, East Bay Municipal Utility District, Thousand Oaks, Long Beach, Huntington Beach, & Trabuco Canyon Water District



**TECHNICAL REVIEWER** 

### Kevin Kostiuk

Manager

#### PROJECT ROLE

Will provide a critical review of the methodology and results.

### CAREER HIGHLIGHTS

- 11 years of experience
- Financial/rate consulting experience with Camarillo, Redlands, San Jose, East Valley Water District, Goleta Water District, Placer County Water Agency, Soquel Creek Water District, Summerland Sanitary District, & Mid-County Groundwater Sustainability Agency



LEAD CONSULTANT

Charles Diamond

Consultant

### PROJECT ROLE

Will serve as lead consultant in conducting analyses and preparing deliverables for the project.

### CAREER HIGHLIGHTS

- · 3 years of experience
- Financial/rate consulting experience with Brentwood, Dixon, Sonoma, Rancho California Water District, & La Cañada Irrigation District



STAFF CONSULTANT

## **Lauren Demine**

Consultant

#### PROJECT ROLE

Will work at the direction of Mr. Gaur in conducting analyses and preparing deliverables for the project.

### CAREER HIGHLIGHTS

- · 12 years of experience
- Financial/rate consulting experience with Helix Water District, Lake Hemet Municipal Water District, Leucadia Wastewater District, Monterey County Water Resources Agency, & City of Sierra Madre



STAFF CONSULTANT

### Arisha Ashraf

Consultant

### PROJECT ROLE

Will work at the direction of Mr. Gaur in conducting analyses and preparing deliverables for the project.

### CAREER HIGHLIGHTS

- 12 years of experience
- Skills: Software: R, Stata, Microsoft Excel VBA, ArcGIS, MySQL / Methods: Logistic Regression, Multi-level Analysis, Cluster Analysis, Survival Analysis
- Professional experience with California Data Collaborative, UC Riverside Environmental Sciences Department, World Resource Institute, & The Galilee Society, Shefa-Amr, Israel



STAFF CONSULTANT

### Sindhu Sundar

Associate Consultant

### PROJECT ROLE

Will work at the direction of Mr. Gaur in conducting analyses and preparing deliverables for the project.

### CAREER HIGHLIGHTS

- Background in environmental economics and business intelligence
- Developed econometric models for economic behavior and consumption patterns for UC Berkeley and LegalZoom, Inc.



CUSTOMER EDUCATION AND OUTREACH

### Melissa Elliott apr

Director of Strategic Communication Services

### PROJECT ROLE

Will assist the Project Team in crafting a strategic communication plan if needed.

### CAREER HIGHLIGHTS

- 20 years of experience
- · AWWA President-Elect; Former Public Affairs Council Chair
- Former Manager of Public Relations at Aurora Water
- Former Manager of Water Conservation and Director of Public Affairs at Denver Water



CUSTOMER EDUCATION AND OUTREACH

### Katie Knoll

Senior Consultant

### PROJECT ROLE

Will assist the Project Team in crafting a strategic communication plan if needed.

### CAREER HIGHLIGHTS

- 15 years of experience in public relations and communication
- Former Community Relations Manager for Denver Water, and former Public Involvement Unit Manager for Colorado Parks and Wildlife



### **TECHNICAL SPECIALTIES**

- · Proposition 218 rate compliance
- · Financial analysis
- · Cost of service studies
- Conservation rate structure design
- · Capacity fee studies
- · Cost benefit analysis
- · Econometric analysis

### PROFESSIONAL HISTORY

- Raftelis: Vice President (2015-present);
   Senior Manager (2012-2014); Manager (2009-2012)
- Red Oak Consulting, Division of Malcolm Pirnie (2007-2009)
- MuniFinancial (2005-2006)
- A & N Technical Services (1999–2003)
- United States Peace Corps, Bulgaria (1995-1997)

### **EDUCATION**

- Master of Public Administration,
   Public Administration/International
   Development, Kennedy School of
   Government Harvard University (2003)
- Master of Science, Applied Economics
   University of California, Santa Cruz
   (1994)
- Bachelor of Arts, Economics and Environmental Studies - University of California, Santa Cruz (1992)

### PROFESIONAL RECOGNITION

- Who's Who in America, 63rd Edition (2009)
- Finalist, National Venture Competition (2003); Goldman Sachs Foundation
- Roy Environmental Fellowship (2002), Kennedy School of Government, Harvard University
- Academic Scholarship (2001-2003), Kennedy School of Government, Harvard University
- Certificate of Outstanding Service (1997), United States Peace Corps

#### PROFESSIONAL MEMBERSHIPS

- American Water Works Association -Rates and Charges Committee
- California Society of Municipal Finance Officers

### Sanjay Gaur

### **Project Manager**

Vice President

Mr. Gaur has over 20 years of public-sector consulting experience, primarily focusing on providing financial and rate consulting services to water and wastewater utilities. His experience includes providing rate structure design, cost of service studies, financial analyses, cost benefit analysis, capacity fee studies, conservation studies, and demand forecasting for utilities spanning the west coast. He has provided consulting service to over 100 different agencies. Mr. Gaur is considered one of the leading experts in developing rates that meet Proposition 218 requirements, has exceptional public speaking skills and, due to these qualities, he is often sought out to provide assistance on rate studies that are complex and controversial. He has often provided his insight into utility rate and conservation-related matters for various publications and industry forums including: authoring articles in Journal AWWA; being quoted in various newspaper articles including the Los Angeles Times and the New York Times; participating in a forum regarding the future of water in Southern California sponsored by the Milken Institute; being quoted on National Public Radio; speaking at various industry conferences including American Water Works Association (AWWA), the Utility Management Conference, Association of California Water Agencies, and California Society of Municipal Finance Officers; and, co-authoring several industry guide books including AWWA's Manual M1 Principles of Water Rates, Fees and Charges, 7th Edition as well as AWWA's Water Rates, Fees, and the Legal Environment, Second Edition. Mr. Gaur co-authored a chapter entitled, "Understanding Conservation and Efficiency Rate Structures," for the Fourth Edition of the industry guidebook, Water and Wastewater Finance and Pricing: The Changing Landscape. Mr. Gaur is also active in a number of utility-related associations, including serving as a member of AWWA's Rates and

### RELEVANT PROJECT EXPERIENCE

Charges Committee.

### Las Virgenes Municipal Water District (CA)

Since 2008, Mr. Gaur has provided financial and rate consulting services to Las Virgenes Municipal Water District. This include assisting the District in adopting a controversial rate increase, the evaluation and implementation of a water budget rate structure, capacity fees for water and wastewater services, and other financial related matters. The District receives water from only one source, Metropolitan Water District of Southern California. With the desire to implement a water budget tiered rate, Mr. Gaur assisted the District in establishing tiered rates that meet the requirements of Proposition 218.

### Alameda County Water District (CA)

Mr. Gaur has provided financial and rate consulting experience to Alameda County Water District since 2010. During these years, Mr. Gaur has been the Project Manager on numerous studies, including the evaluation of different types of conservation rates, development of a 25-year financial model that assists the District in evaluating different financial risks, development of drought rates, and public outreach to stakeholders. During these projects, Mr. Gaur has led a series of workshops with the Executive Management and the Board of Directors in evaluating and identifying which financial/rate solutions meet their objectives.

### East Bay Municipal Utility District (CA)

Since 2013, Mr. Gaur has provided consulting services to East Bay Municipal Utility District .He successfully accomplished several objectives for the District and served as the Project Manager for a comprehensive water and wastewater cost of service study. The last comprehensive cost of service study was done in 2000. As part of the study, Raftelis thoroughly examined the District's cost structure, analyzed water and wastewater flow and customers data, and evaluated alternative rate structures to develop an equitable rate structure that meets Proposition 218 requirements and the District's goals and objectives. One of the key deliverables was the administrative record, which is a document that clearly explains how the rates are derived and is a critical document to support the requirements of Proposition 218.

### Castaic Lake Water Agency (CA)

Castaic Lake Water Agency is a wholesale water agency that is a member of the State Water Contractor. Since 2012, Mr. Gaur has provided numerous consulting services including the evaluation of different types of wholesale rates, a financial model, annexation fees, capacity fees, and other financial consulting services. Mr. Gaur has made numerous presentations to the Board of Directors and has secured their supports on critical matters.

### San Juan Capistrano (CA)

In 2012, San Juan Capistrano was in the midst of a legal lawsuit over its water rates. A group of taxpayers sued the City over its water rates, saying they did not comply with Proposition 218. The City sought out an expert rate consultant to assist them in developing new rates that will meet the stringent requirements of the taxpayer group and City Council. The City hired Raftelis and Mr. Gaur served as the Project Manager for this significant project. The project required a series of six City Council Workshops, with each one lasting over 3 hours. In addition, two members of the City Council were active in supporting the lawsuit against the City. Mr. Gaur was successful in mustering support for the new rates and developing the new standard associated with the administrative record. The rates were approved and the President of the Taxpayer association expressed his support of the new rates.

### City of Long Beach (CA)

In 2016, the City of Long Beach hired Raftelis in conducting a comprehensive rate study that meets the heightened standard associated with Proposition 218. Given the large percentage of the population at the poverty rate, the City was concerned about affordability, revenue stability due to the recent drought, and developing a strong nexus associated with its water and wastewater rates. Mr. Gaur served as the Project Manager and successfully assisted the City in adopting rates that meet their requirements. Since then, Mr. Gaur has provided financial and rate consulting services to the City, including how to fund stormwater services.

### Fallbrook Public Utility District (CA)

Fallbrook Public Utility District provides water, recycled water, and wastewater services. The District has a complex rate structure due to the fact that it provides both domestic service, special agricultural rates from the San Diego County Water Authority,

normal agricultural service, and a combination of these services to the same meter. Given the recent lawsuit associated with San Juan Capistrano, the District was interested in developing a comprehensive rate study that can fund a new source of water supply and cost of service rate study that can justify the different types of rates. In 2016, Mr. Gaur served as the Project Manager on this study and was successful in developing a 180-page administrative record that clearly explains the nexus requirement associated with Proposition 218 and the adoption of the five years of rates.

### Placer County Water Agency (CA)

Placer County Water Agency provides four major types of water services: treated retail, untreated retail, treated wholesale, and untreated wholesale. Given the complexity of the system, the agency has over 50 different types of rates. The agency has evolved over the last 60 years of existence and has acquired numerous neighboring agencies. Given the San Juan Capistrano ruling, the Agency was interested in consolidating and developing a clear rationale behind the complex services it provides. The Agency sought out Mr. Gaur to be the Project Manager on this significant study in redeveloping all the different water rates. Mr. Gaur conducted a series of workshops with Executive Management in developing a rationale and logic behind the services it provides. The 150-page administrative record was well received by the Board of Directors and they were pleased with this study. The new rates were approved in 2017.

### Santa Cruz (CA)

Since 2012, Mr. Gaur has provided financial and rate consulting services to the City of Santa Cruz. This includes developing a financial model that can evaluate different water demand factors and associated drought rates, reserve policies, a comprehensive rate study, drought rates, capacity fees and other financial/rate matters. The drought rates study was particularly complex. The City experienced a significant drought and had to allocate water. Water use was already at a historical low level and residential water use was one of the lowest in California. With the desire of refunding a debt and low commodity revenues sales, the City needed to adopt drought rates within a short time period. Mr. Gaur was successful in adopting 5 stage drought rates and was able to assist the City in at this critical time. Lastly, Mr. Gaur assisted the City in redeveloping its rate structure so that it would meet the values of the community, while remaining financially sustainable as well as meeting the requirements of Proposition 218.

### Rancho California Water District (CA)

Mr. Gaur has provided consulting services to Rancho California Water District since 2007. During this time, he has assisted the District in the development of a water budget rate structure. The project required the consultant to develop a flexible water budget model that could determine multiple blocks widths and allocations. The team was successfully able to accomplish this task and assisted the District in implementing the new water budget rate structure. The rates where successfully adopted in November 2009.

Mr. Gaur also assisted the District in the development of a New Water Demand Offset Fee. The New Water Demand Offset Program

is a form of funding for conservation measures that will help to create sustainable, zero water footprint development. New developments will pay fees called New Water Demand Offset Fees to create potable water savings in the existing system, support water demand generated by new developments. Water savings can be achieved by converting irrigation accounts to recycled water or installing high efficiency retrofits to replace inefficient fixtures for existing accounts in the District. Lastly, Mr. Gaur has provided consulting services on Capacity Fee studies and updating water rates.

### Western Municipal Water District (CA)

Since 2009, Mr. Gaur has provided consulting services to Western Municipal Water District. Mr. Gaur successfully accomplished several objectives for the District including the implementation of water budget rates, which included facilitating and leading a discussion on the policy options associated with the development of water budget rates. Based on these policy options, a water budget model was developed that evaluated different allocation factors for indoor and outdoor water use, determined rate components for the corresponding tiers, and developed the corresponding rates and customer impacts.

In addition, Mr. Gaur served as the Project Manager for the development of a financial model for the District. The model has the capability of examining the 14 different fund centers of the District, develop and save different Capital Improvement Plan scenarios, examine the financial consequences of these scenarios and compare the results. In addition, the model has the ability aggregate the fund centers by water, wastewater, or by the whole District. The model is currently being utilized by the District to examine long term health of the District.

Lastly, Mr. Gaur conducted a Capacity Fee study for the District, which included water, wastewater, and recycled water. The prior Capacity Fee was outdated and significant changes were required. This study included public outreach to the Business Industry Association. Since then, Mr. Gaur has provided assistance to the District in updating its water rates and developing the administrative record required.

### RECENT PROJECT EXPERIENCE

- American Water Company (CA) Water Rate Study
- Borrego Water District (CA) Financial Planning Study, Groundwater Sustainability Plan, Water Rate Study, and Basin Management Evaluation
- City of Calexico (CA) Water and Sewer Rate Study
- City of Camarillo (CA) Water and Wastewater Rate Study, Financial Plan Study, and Cost of Service Study,
- Carpinteria Sanitary District (CA) Sewer Rate and Fee Study
- Central Basin Municipal Water District (CA) Financial Plan
- City of Chino (CA) Water Budge Rate Design, Financial Plan Study and Cost of Service and Rate Design
- City of Chowchilla (CA) Water and Wastewater Rate Study
- Coastside County Water District (CA) Water Rate Study

- Contra Costa Water District (CA) Financial Plan Study, Water Rate Study and Drought Rates Study
- City of Corona (CA) Water Budget Rate Study, Wastewater Capacity Fees Study
- Cucamonga Valley Water District (CA) Financial Plan, Water Conservation Rate Study, and Drought Rates
- Eastern Municipal Water District (CA) Water Budget Study and Financial Plan Study
- East Orange County Water District (CA) Water Budget Study, Sewer Capacity Fees Study, and Financial Plan Study
- Elsinore Valley Municipal Water District (CA) Financial Model, Drought Rate Analysis, Water and Recycled Water Rate Study, Capacity Fee Study, and Wastewater Rate Study
- El Toro Water District (CA) Water Budget Study and Recycled Water Financial Plan Study
- City of Escondido (CA) Water and Wastewater Rate Study and Capacity Fees Study
- City of Glendora (CA) Water Budget Feasibility Study
- City of Gridley (CA) Water Rate Study
- Helix Water District (CA) Water Rate and Cost of Service Study
- Hi-Desert Water District (CA) Water Rate Study
- City of Hollister (CA) Sewer Rate and Impact Fee Study, Water Rates Study, and Capacity Fee Study
- City of Huntington Beach (CA) Sewer Rate Study, Water Budget Rate Study, and Financial Plan Study
- Imperial County Gateway County Service Area(CA) Water and Wastewater Rate Study
- Indio Water Authority (CA) User Fee Study and Water Rate Study
- Inland Empire Utilities Agency (CA) Conservation Rate Structure Workshop and Financial Plan Study
- Inyo County Water Department (CA) Water Rate Study
- Irvine Ranch Water District (CA) Conservation Study
- Jurupa Community Services District (CA) Water Budget Study
- La Habra Heights County Water District (CA) Wheeling Rate Study and Financial Plan Study
- La Puente Valley County Water District (CA) Water Rate and Fee Study
- City of Livermore (CA) Water Cost of Service Study
- City of Livingston (CA) Water Rate Study
- City of Lomita (CA) Water Rate Workshop
- Los Alamos Community Services District (CA) Water and Wastewater Rate Study
- Los Angeles Department of Water and Power (CA) Daily Demand Estimates
- City of Lynwood (CA) Cost Allocation Plan
- City of Malibu (CA) Wastewater and Recycled Water Rate Study
- Mammoth Community Water District (CA) Water Rate Study
- City of Merced (CA) Water and Sewer Rate and Impact Fee Study
- Mesa Consolidated Water District (CA) Financial Plan Study, Cost Comparison Study, Water and Recycled Water Cost of Service and Rate Design Study

- Metropolitan Water District of Southern California (CA) Drought Allocation Model, Long Range Financial Plan, and Cost of Service Evaluation
- Mill Valley Tamalpais Community Services District (CA) Financial Plan Study
- Mojave Water Agency (CA) Financial Plan Study, Financial Impact Analysis for Water Exchange and Leasing Programs and Water Reliability Rate Development
- Modesto Irrigation District (CA) Stormwater Fee Study
- Monterey Peninsula Water Management District (CA) Water Budget Study
- Municipal Water District of Orange County (CA) Conservation Potential Study and Rate Study
- City of Newport Beach (CA) Water Rate Study
- City of Palo Alto (CA) Water Cost of Service and Rate Study
- Pasadena Water and Power (CA) Water Cost-of-Service and Rate Design Study
- City of Pomona (CA) Rate Study
- City of Port Hueneme (CA) Water and Solid Waste Rate Study
- City of Orange (CA) Water and Sanitation Rate Study
- City of Reno (NV) Wastewater Rate Study
- City of Rio Vista (CA) Water and Sewer Rate and Impact Fee Study
- Salton Community Services District (CA) Sewer Rate Study
- City of San Clemente (CA) Water and Wastewater Rate Study
- San Diego County Water Authority (CA) Indexing Model and Wholesale Water Rate
- City of San Juan Capistrano (CA) Water Rate Study
- Santa Clara Valley Water District (CA) Project Evaluation -Water Conservation Project
- Santa Clarita Water District (CA) Retail Water Rate Study
- City of Santa Cruz (CA) Financial Plan, Water Budget Feasibility Analysis, Cost of Service and Rate Study, Drought Rate Study, Capacity Fees Update and Water Demand Offset Fees Analysis, and Alternative Water Supply Feasibility Analysis
- Scotts Valley Water District (CA) Water and Recycled Water Rate Study
- City of Shasta Lake (CA) Water Rate Study and Water and Wastewater Capacity Fee Study
- City of Sierra Madre (CA) Water and Sewer Rate Study
- City of Signal Hill (CA) Water Rate and Cost of Service Study
- City of Simi Valley (CA) Sewer Rate Study
- Soquel Creek Water District (CA) Water Rate Structure Study
- South Coast Water District (CA) Water Budget Assessment
- South Mesa Water Company (CA) Rate Structure and Recycled Water Rate Study
- City of South Gate (CA) Water Impact Fee
- Sunnyslope County Water District (CA) Water Rates and Capacity Fees
- Temescal Valley Water District (CA) Water and Sewer Rate Study and Capacity Fee Study
- Trabuco Canyon Water District (CA) Water Rate Study
- City of Thousand Oaks (CA) Water and Wastewater Cost of Service and Financial Plan Study
- City of Ventura (CA) Water and Wastewater Rate Study
- City of Vista (CA) Sewer Rate and Connection Fee Study
- Walnut Valley Water District (CA) Water Rate Study

- City of Watsonville (CA) Utility Enterprise Rate Study
- Yorba Linda Water District (CA) Sewer and Water Budget Rate Study, Financial Plan Study, and Cost of Service Rate Study
- Zone 7 Water Agency (CA) Cost of Services Study and Water Rate Study Update

### **PUBLICATIONS**

- Gaur, S., Magu, D. "California Water Rate Trends: Maintaining Affordable Rates in a Volatile Environment", Journal – American Water Works Association, September 2017, Volume 109, Number 9.
- Contributing Author to "M1 Principles of Water Rates, Fees and Charges" 7th Edition, American Water Works Association, 2017.
- Gaur, S., Giardina, R.D., Kiger, M.H., Zieburtz, W., "Committee Report: Ripples from the San Juan Capistrano Decision,"
   Journal American Water Works Association, September 2016,
   Volume 108, Number 9.
- Gaur, S., Alikhan, A., Kostiuk, K. "The Drought is over Now is the time to develop drought rates", CSMFO Magazine, July 1, 2016.
- Gaur, S., Alikhan, A., Crea, J. "Developing Drought Rates: Why Agencies Should Prepare for a Not-So-Rainy Day", January 2016, Volume 108, Number 1.
- Gaur, S., Isaac, Habib "There's Opportunity in the San Juan Capistrano Rates Decision", Source California-Nevada Section AWWA, Fall 2015, Volume 29, Number 4.
- Gaur, S., Atwater, D., "California Water Rate Trends," Journal
   American Water Works Association, January 2015, Volume 107, Number 1.
- Contributing Author to "Water and Wastewater Finance and Pricing: The Changing Landscape", 4th Edition, 2015, CRC Press, Editor: George Raftelis.
- Gaur, S., Atwater, D., Cruz, J., "Why do Water Agencies need Reserves?", Journal – American Water Works Association, November 2014, Volume 106, Number 11.
- Gaur, S., Atwater, D., Lee, J., "Conservation Rates Offer Options," CA/NV Section of American Water Works Association, Spring 2014, Volume 28, Number 2.
- Gaur, S., Lim, B., Phan, K., "California Water Rate Trends," Journal – American Water Works Association, March 2013, Volume 105, Number 3.
- Contributing Author to "Water Rates, Fees and the Legal Environment", 2nd Edition, American Water Works Association, 2010 Editor: C.(Kees) W. Corssmit.
- Hildebrand, M. Gaur, S. and Salt, K. "Water Conservation Made Legal: Water Budgets and California Law", Journal of American Water Works, 101:4 April 2009, p.85-89.
- Gaur, S. "Policy Objectives in Designing Water Rates", Journal of American Water Works, 99:5 May 2007, p.112-116.
- Gaur, S., "Adelman and Morris Factor Analysis of Developing Countries", The Journal of Policy Modeling, Vol. 19, Issue 4, pp. 407-415, August 1997.



### **SPECIALTIES**

- · Water and Drought rate design
- · Water budget rate structures
- · Utility cost of service
- · Data analysis
- Environmental Policy Analysis

#### PROFESSIONAL HISTORY

- Raftelis: Consultant (2014-2015);
   Senior Consultant (2014-present)
- Turner New Zealand, Inc.: Director of Operations (2009-2012); Accounting Manager (2007-2009)
- Lesley, Thomas, Schwarz & Postma, Inc.: Staff Accountant (2007)

### **EDUCATION**

- Master of Environmental Management - Duke University (2014)
- Bachelor of Arts in Business-Economics and History – University of California, Santa Barbara (2006)

### **Kevin Kostiuk**

### **Tehnical Reviewer**

Senior Consultant

Mr. Kostiuk has a background in economics and accounting and possesses extensive analytical skills. His expertise lies in water resources management, environmental economics, environmental policy, and federal water supply and flood control policy. Mr. Kostiuk is a member of the American Water Works Association (AWWA) Young Professionals and the Young Professionals Summit Committees in conjunction with the AWWA Utility Management Conference (UMC). He has authored an article on potable reuse in Journal AWWA discussing the treatment, financing structures, and pricing of treated water at advanced purification treatment plants; an article on municipal water demand pattern changes during the recent State-wide drought; and an article on proactive financial planning in times of drought for California Society of Municipal Finance Officers (CSMFO) Magazine. Most recently Mr. Kostiuk presented at the AWWA UMC discussing a recent evaluation of the conceptual CustomerSelect rate model for Soquel Creek Water District.

### RELEVANT PROJECT EXPERIENCE

### City of San Jose (CA)

Raftelis contracted with the City in 2016 to perform a cost of service and rate study for the City's water enterprise. The study included creation of a 10 year financial plan model, cost of service analysis, and redesign of the City's water rate structures. Mr. Kostiuk as Lead Analyst developed the financial plan model and worked closely with City staff to incorporate the City's budgetary information as part of the planning exercise. Additionally, Mr. Kostiuk worked with the City's water resources manager and water system engineer to identify future supply and demand in each of the City's different service areas, with differentiated water rates for each area. At the conclusion of the Study Mr. Kostiuk held a session to train staff on use of the electronic financial plan model. The project was completed in 2017.

### Santa Cruz Mid-County Groundwater Agency (CA)

Raftelis was contracted by the Agency to evaluate funding criteria for Groundwater Sustainability Agency (GSA) fees and calculate preliminary fees. Mr. Kostiuk served as the Project Manager. Raftelis conducted multiple meetings and webinars with County staff and the Advisory Committee to produce a financial budget for management activities, discuss fee structure options, and develop a pricing objectives exercise for the GSA Board. The project culminated with fee analysis and production of a White Paper to assist the Agency in navigating their financing plan as part of the GSP submittal process, as well as recovering costs of management over the long term. The project is complete as of May 2019.

### Crescenta Valley Water District (CA)

Mr. Kostiuk developed a combined water and sewer financial plan and rate model for the District in 2016. The cost of service and rate study included several workshops with the District Board which culminated in structural changes to the District's existing water and sewer rate structures. In addition to the tiered water rate structure, which was ultimately adopted, Mr. Kostiuk developed a water budget rate model for evaluation by District staff and the District Board.

Prior to the cost of service and rate study, Mr. Kostiuk performed an economic analysis for the District to determine the feasibility of offsetting imported water supply with the production of local groundwater. Mr. Kostiuk created a customized model for the District to use under different scenarios of capital requirements, lease options, and contract lengths. As part of the study, he reviewed the District's prior consultant's work, determined internal rates of returns, calculated the net present value of District savings, and determined the cost at which the District should lease water rights for groundwater production.

### East Valley Water District (CA)

Raftelis contracted with East Valley Water District in 2014 to develop budget based rates to replace the District's existing uniform rate structure. Mr. Kostiuk assisted the District with design and implementation of budget-based water rates for their 23,000 accounts including residential, commercial and irrigation customers. The study included creation of a long-term financial plan and full cost of service study for the water enterprise. Mr. Kostiuk developed the 10 year financial plan model, rate model, and water budget model for the District.

Mr. Kostiuk worked closely with the District's finance, IT, and, billing departments in the early stages to analyze customer account level data including monthly use. He also worked with the District's GIS and other outside consultants to develop the water budget model using irrigable landscape area, customer class, assessor parcel number (APN), etc. for construction of indoor and outdoor allocations, or budgets.

The project incorporated significant public outreach whereby Raftelis led meetings with ratepayers to receive input, provide Study updates, and answer questions of the public. The ratepayer meetings assisted adoption of the new rate structure and implementation. The rate structure that the Board adopted allows for the most precise, scientific and equitable design of rate structures, tailored specifically to an individual account.

### **Goleta Water District (CA)**

Mr. Kostiuk completed a full water cost of service study for the District which included design of inclining tiered rates for their single-family residential class, as well as agricultural rates for two classes. Complexities in customer classes' access to District water supplies, interruptibility during times of drought, and benefit (or lack thereof) from treatment made the analysis unique and challenging. The study included development of a long term financial plan model, rate model, and corresponding bill impacts.

To achieve the District's demand reduction targets as outlined in their Drought Management Plan, the District wished to explore drought rates/drought surcharges to curb demand. Ultimately, Mr. Kostiuk developed three options of revenue neutral drought surcharges for the Board's consideration. These various options ranged from targeted surcharges on an inter and intra-class basis, to a surcharge applied to non-drought commodity rates, to a uniform commodity surcharge irrespective of customer class or

use. The proposed rates and drought surcharges were adopted and implemented July 1, 2015.

### City of Rediands (CA)

Mr. Kostiuk updated prior financial plans developed by Raftelis for the City for their water and sewer enterprises. The update included building in more flexibility to the model for ease of use and for future updates, as well as, making the model dashboards more user friendly.

The state-wide drought in California called for a mandatory 25% reduction for all water service agencies in the state. The City's target was to reduce residential consumption by 35%. Mr. Kostiuk assisted the City in design and implementation of drought surcharges to achieve a 35% reduction and to recover lost revenue from reduced water sales.

Additional work for the City included updating the City's Storm Drain Impact Fee and miscellaneous fee for NPDES inspections as part of the MS4 permit requirement. The storm drain fee had not been reevaluated in 20 years. Additionally, the City had recently completed a Storm Drain Master Plan which called for \$83 million in improvements to system deficiencies. Mr. Kostiuk developed a methodology to retain the existing impact fee structure while updating the fee paid by different land use classes.

In 2015 and 2016 Mr. Kostiuk developed a water budget rate model for the City to evaluate a new rate structure. The model integrated with the existing water financial plan model and designed parallel water budget rates for consideration by City staff and the Council.

### City of Camarillo (CA)

Raftelis has provided rate consulting services to the City for the past seven years with Mr. Kostiuk serving as lead analyst the past three years. In the current rate cycle Mr. Kostiuk serves as Project Manager. The City adopts rates on a two-year cycle and the most recent Study included rebuilding long term financial plan models, revising the wastewater utility's rate structure, and performing a cost of service analysis for the sewer utility. Mr. Kostiuk has made presentations to the City Manager, City's Utility Committee, and City Council in consecutive years. Mr. Kostiuk successfully presented rates to City Council in December 2016, November 2017, and November 2018.

During the height of the most recent state-wide drought, the City contracted with Raftelis to evaluate emergency drought rates as a conservation and revenue recovery tool. Mr. Kostiuk adapted the existing financial plan model and developed multiple scenarios based upon the City's water supply condition stages. Mr. Kostiuk developed drought rates utilizing the City's financial plan at each stage and estimating water reductions. The rates were not adopted prior to the end of the state-wide drought however the drought tool is available for quick implementation should drought conditions return. Raftelis is currently contracted with the City for another two-year rate and capacity fee study for 2019 with Mr. Kostiuk as Project Manager.

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### City of Tustin (CA)

Raftelis contracted with the City of Tustin to develop a ten-year financial plan and evaluate a budget-based rate structure for its customers. Mr. Kostiuk worked extensively with City staff, Raftelis' data services team, and outside consultants of the City to develop the water budget allocation and rate model for the City's approximately 14,000 customer accounts. As part of the model build, data from GIS consultants had to be organized and validated for each of the City customers' parcels. Raftelis' data services team worked internally to ensure matches between assessor's data and GIS data for integration to the water budget model. Rates and customer impacts have been presented to City staff and a public outreach campaign is being devised in anticipation of the council workshop. The project is ongoing.

### Placer County Water Agency (CA)

In 2015 Placer County Water Agency (PCWA) contracted with Raftelis to evaluate its water system. PCWA provides retail and wholesale water service to treated water and raw water users throughout western Placer County. In Phase I of the project Mr. Kostiuk evaluated the current system's four service zones and numerous service classes and customer classes. Raftelis then provided recommendations to consolidate and simplify the water system organization and structure. In Phase II Raftelis performed a cost allocation study between the four proposed classes of service to identify the cost of providing service to these distinct users. Phase III consisted of performing cost of service analyses for PCWA's four service classes and developing corresponding rates. The Study was completed in October 2017 with new organization, rate structures, and associated rates implemented January 1, 2018.

### **Mammoth Community Water District (CA)**

Raftelis provided the District with a 10-year financial plan model for both the water and wastewater enterprises, and performing a cost of service analysis for the water enterprise. The district carries out operating and capital activities that are indirectly assigned to the two enterprises. Mr. Kostiuk worked with District staff to carry out a cost allocation study to distribute administrative costs appropriately. Raftelis recommended changes to the water rate structure as part of the Study to simplify the rates and make them more legally defensible.

The study took place at the height of the statewide drought and as part of the project Mr. Kostiuk developed drought rates for the District to implement in times of mandatory conservation or water supply shortage. Being an agency with a large seasonal population Raftelis worked with staff to determine the most appropriate and effective means of charging the drought rates. Mr. Kostiuk designed drought rates for each stage of the District's water conservation plan, effective on the meter-based fixed charge of a customer's bill. This ensured that every connection in the water system shared in the burden caused by the drought, irrespective of water use. Raftelis also evaluated existing capacity fees for both enterprises. This task is ongoing. The water rates, wastewater rates, and drought rates were adopted and implemented January 2016.

In 2018 the District again contracted with Raftelis to conduct a wastewater cost of service and rate study as well as a capacity fee study for both utilities. Raftelis developed updated water and wastewater capacity fees which meet the District's financial and policy objectives. Capacity fees are scheduled for adoption in Summer 2019. The cost of service study is ongoing.

### **Borrego Water District (CA)**

Raftelis contracted with the District to evaluate the impact of county growth projections as well as the Sustainable Groundwater Management Act (SGMA) of 2014. Mr. Kostiuk utilized the existing financial plan model, water supply analyses provided by other District consultants, and assumptions on land acquisitions to determine the effect of SGMA on long term water rates. The Borrego Groundwater Basin is critically over drafted and users will need to decrease water production significantly to achieve sustainable yield by 2040. This will require the District to reduce per capita water use and acquire production credits within the basin by fallowing agricultural land. Mr. Kostiuk estimated water rates in each year through 2040 incorporating assumptions on groundwater production, market values of land in the basin, debt financing, and water source alternatives.

In 2017 Mr. Kostiuk examined the affordability of water rates charged to the District's customers. The assessment analyzed both existing and future rates and affordability under the SGMA scenario identified in 2016. The affordability assessment relied upon the SGMA Impact Assessment and corresponding demand projections, basin yield assumptions, financing assumptions, and projected rates to the year 2040. The project allowed the District to understand affordability of existing rates and water allocation and to estimate the affordability impacts of SGMA compliance in the Borrego Groundwater Basin over the long term.

### Borrego Valley Groundwater Sustainability Agency (CA)

Raftelis was contracted by the Agency to develop a financial planning model and fee options for the new entity as mandated by the Sustainable Groundwater Management Act (SGMA). Tasks included working with the core Project Team to develop policy options for fee structuring and various fee recovery mechanisms. Project deliverables included a financing plan memorandum, an Excel-based financial plan Model, operating and administrative budget creation, and a user manual for the Excel Model. The deliverables were used in the submission of the Groundwater Sustainability Plan (GSP) to the State Department of Water Resources (DWR) in 2019.

### Soquel Creek Water District (CA)

The Soquel Creek Water District (SqCWD) contracted with Raftelis in 2017 to evaluate a novel rate structure for its ratepayers. Mr. Kostiuk participated in several workshops with the District's citizen Water Rates Advisory Committee and Board of Directors to develop of policy framework for the rate structure and conduct pricing objectives exercises with both groups. Mr. Kostiuk developed a report for the District which informed the rate design in 2018.

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In 2018 Raftelis contracted with the District for a long-term financing plan and rate study. Mr. Kostiuk served as the assistant project manager and oversaw the model creation for the financial plan, tiered rate model, and CustomerSelect rate model. The District adopted our recommended three years of rates in February 2019.

### **Summerland Sanitary District (CA)**

Raftelis contracted with the District in 2016 to perform a cost of service and rate study for wastewater services. The study included a 10 year financial plan model, cost of service analysis, and review of the existing equivalency definitions for the District's user classes. Additional work included adoption of a formal financial reserves policy to ensure long term fiscal health as well as updates and additions to the District's miscellaneous fee schedule. Mr. Kostiuk served as Project Manager and Lead Analyst for the project and held several meetings with District staff, the Finance Committee, and the Board of Directors. Five years of rates were adopted in December 2017.

### Monterey County Water Resources Agency - New Source Water Evaluation (CA)

In 2017 Mr. Kostiuk performed a cost analysis and evaluation of new source waters from recycled water for its coastal agricultural users. Recycled water production from the several sources will require new infrastructure, treatment, and maintenance. Mr. Kostiuk built an electronic model which incorporated different climate scenarios, costs of capital, operating, maintenance, and treatment, and the water available from all sources under different weather conditions and water rights. The project is ongoing with a series of meetings with the Agency's agricultural customers, County Board of Supervisors, and stakeholder agencies.

### City of Buenaventura (Ventura) (CA)

Raftelis developed long-range financial plans so that the water and wastewater utilities could be financially stable and save costs in the long run. Raftelis also assisted the City with developing different water and wastewater rate alternatives with various scenarios based upon estimated water sales and capital improvement plan (CIP) funding. The study is being conducted with several meetings and input from stakeholders comprised of customers within the City. Raftelis educates the Water Commission on the basics of rates, cost allocations, and rate design to obtain their buy-in using the dashboards in the rate models that were developed. This allows us to demonstrate the impacts of various revenue adjustments on the long-term financial stability of the enterprises. As of May 2019 the studies are ongoing.

### City of Riverside (CA)

Mr. Kostiuk completed a study for the City of Riverside (City) to determine the value of an elevation fee credit for present and future customers in a special district. The project required calculation of asset replacement values for infrastructure serving the special district, specific to booster capacity, and within the context of a historical assessment. The findings from the study were used to defend the City's move to assess its elevation fee schedule.

### City of Simi Valley (CA)

The City had last raised sewer rates in fiscal year 2008-2009 and was facing a backlog of sewer system improvements and repair and replacement. Mr. Kostiuk updated the existing sewer financial plan with recent data, as well as updated the cost of service analysis. As part of the study, tier definitions were changed for non-residential customers to reduce the base charge on small users without impacting revenue recovery. Working with City staff, and with presentations to City management, Raftelis assisted in getting Council authorization for proposition 218 notices of a rate increase to the City's customers.

The revenue increases will allow the City to commence the public works department's capital improvement schedule while maintaining reserve funds at target levels.

### City of Henderson (NV)

Mr. Kostiuk created water and wastewater rate and financial planning models for the City as well as updated their water and sewer system development charges. The project created a combined model for the water and sewer enterprises which incorporated finance department reporting tools. The combined model allows the utility (water and sewer) to be viewed as a one, with impacts and reporting available to the user. The models will be used over the next 10 years to calculate water and wastewater rates as well as to create annual financial statements.

### City of Corona (CA)

Mr. Kostiuk assisted the City in updating its financial plans for the water and reclaimed water enterprises. The study included performing cost of service analyses for both utilities and updating the water budget rate structure. In addition, Mr. Kostiuk developed a framework and corresponding rates for contract reclaimed water customers.

### City of Raleigh Public Utilities Department-American Rivers (NC)

Mr. Kostiuk served as project leader for a study of alternatives to meet Raleigh's long term water supply shortfall. The project examined four options in extending the life of the existing federal reservoir, thereby postponing capital expenditures on a new raw water supply. Results were delivered to city staff, their consultants and the United States Army Corps of Engineers.

### Lower Cape Fear Water Quality Trading Program - The Nature Conservancy (NC)

To reduce nutrient loading and decrease utility costs, the Nature Conservancy proposed a Water Fund to improve water quality through improved agricultural practices on private landholdings in the watershed. Mr. Kostiuk was in charge of researching comparable programs and providing options for a financial mechanism and governance approach between various stakeholders in the region including utilities, agriculture, environmental organizations and community groups.

### OTHER RELEVANT PROJECT EXPERIENCE

- Elsinore Valley Municipal Water District Drought Surcharge Study
- City of Torrance Wastewater Cost of Service and Rate Study
- Triunfo Sanitation District Water Rate Study
- La Canada Irrigation District Water Cost of Service and Rate Study
- City of Lancaster Wastewater Cost of Service Study
- Antelope Valley East Kern Water Agency
- Citrus Heights Water District Groundwater Supply Analysis
- Coastside County Water District Water Rate Study
- Montecito Basin Groundwater Sustainability Agency
- Madera County Groundwater Sustainability Agencies
- Ventura County Waterworks District No. 8 Simi Valley



### **SPECIALTIES**

- · Utility Financial Analysis
- · Data Collection and Analysis
- · Statistical Analysis

#### PROFESSIONAL HISTORY

- Raftelis: Consultant (2019-present); Associate Consultant (2017-2018)
- UC Santa Barbara Department of Economics: Teaching Assistant (2017)
- UC Santa Barbara Earth Research Institute: Graduate Student Assistant (2015-2017)
- The Nature Conservancy: Science & Stewardship Practitioner (2013-2015)

### **EDUCATION**

- Master of Environmental Science & Management (Water Resources Management) - UC Santa Barbara (2017)
- Bachelor of Science in Environmental Economics & Policy - UC Berkeley (2013)

### **Charles Diamond**

### **Lead Consultant**

Consultant

Mr. Diamond has a background in natural resource economics and water resources management. His expertise lies in financial modeling and data analysis. He joined Raftelis initially in 2017 as an associate consultant upon receiving a master's degree from UC Santa Barbara's Bren School of Environmental Science & Management. Mr. Diamond has developed financial models and conducted analyses for water and wastewater rate studies as well as capacity fee studies.

### RELEVANT PROJECT EXPERIENCE

### City of Brentwood (CA)

The City of Brentwood engaged Raftelis to conduct a water and wastewater rate study. In 2017, Raftelis helped the City evaluate the current water and wastewater utilities' cost of service and adjusted rates accordingly. Recently Mr. Diamond updated a financial plan model and performed a cost of service analysis for the City's wastewater utility. Mr. Diamond assisted with the update of existing rates as well as the development of a proposed alternative rate structure and rates.

### City of Dixon (CA)

The City of Dixon engaged Raftelis in 2018 to conduct a water rate study to develop updated water rates for the City's water utility. Mr. Diamond developed a ten-year financial plan model, performed a cost of service analysis, and developed a five-year schedule of proposed water rates. Mr. Diamond also assisted in the preparation of presentation materials for water rate workshops with the City Council.

### La Cañada Irrigation District (CA)

La Cañada Irrigation District engaged Raftelis to conduct a water rate study. Since the last rate study was performed in 2008, Raftelis helped the District evaluate the cost of service and adjusted rates accordingly. In 2017, Mr. Diamond developed a financial plan model for the District to support the financial plan development for fiscal years 2018 to 2027. Mr. Diamond also recently performed a cost of service analysis to assist with the update of the District's rates.

### Rancho California Water District (CA)

Rancho California Water District (District) engaged Raftelis in 2017 to conduct a water capacity fees study. Raftelis reviewed and updated the existing methodology for calculating the District's water capacity fees, developed a water capacity fee model for use in calculating updated capacity fees. As part of the study, Mr. Diamond developed the water capacity fee model, calculated updated water capacity fees, and drafted the study report.

The District engaged Raftelis in 2018 to conduct a two-year water, recycled water, and wastewater rate study. Raftelis developed a cost of service rate model to allocate costs and calculate rates for fiscal years 2019 and 2020. Mr. Diamond assisted with rate model revisions, prepared presentation materials for meetings with the District's Board of Directors, and drafted the rate study report.

### Santa Ana Watershed Project Authority (CA)

The Santa Ana Watershed Project Authority engaged Raftelis in 2017 to develop a rate model for the Inland Empire Brine Line, which is a pipeline used to divert non-reclaimable wastewater of high brine content from the upper Santa Ana River Basin. Raftelis reviewed and recommended changes to the Authority's reserve policies, developed a ten-year financial plan

for the Brine Line Enterprise Fund, performed a multi-year cost of service analysis, and developed a rate model for use in calculating rates assessed to the Brine Line's dischargers. Additionally, Raftelis assessed and recommended potential methodologies to be used in the development of long-term capacity leasing rates and rental charges. Mr. Diamond developed the financial plan, assisted with the cost of service analysis and rate calculation, drafted the study report, and attended multiple meeting with the Authority's staff.

### City of Sonoma (CA)

The City of Sonoma engaged Raftelis in 2018 to conduct a water rate study for the City's water utility. The Study included the development of a five-year financial plan, a cost of service analysis, and the development of proposed water rates for fiscal years 2019-2023. Mr. Diamond processed and analyzed account level billed water consumption data, assisted in development of the water rate model, and drafted the water rate study report.

### OTHER RELEVANT PROJECT EXPERIENCE

- Alameda County Water District (CA) Rate Design and Financial Advisory Services
- Borrego Water District (CA) Water Affordability Assessment
- Castaic Lake Water Agency (CA) Facility Capacity Fee Update Study
- City of Lincoln (CA) Water Rate Study
- Rancho California Water District (CA) Recycled Water Resource Plan Financial Plan Model
- Santa Rosa Plain, Sonoma Valley, & Petaluma Valley Groundwater Sustainability Agencies (CA) – Groundwater Sustainability Agency Fee Analysis and Rate Setting Services



### **SPECIALTIES**

- Financial plan development
- Cost of service
- Geophysical data analysis
- Groundwater sustainability analysis
- Excel modeling
- Database management
- Technical report writing and review

### PROFESSIONAL HISTORY

- · Raftelis: Consultant (2019-present); Associate Consultant (2017-2018)
- GEOVision Geophysical Services: Senior Staff Geophysicist (2007-2017)
- GeoConcepts, Inc.: Staff Geologist (2005-2007)

### **EDUCATION**

 Bachelors in Geology-California State University, San Bernardino (2012)

### Lauren Demine

### Staff Consultant

Consultant

Ms. Demine has a background in geology and geophysics. Her expertise includes geophysical data analysis, processing and modeling, and technical report writing and review. During her time as a geophysicist, she has worked with private firms and water districts to address capital infrastructure needs, mitigate the potential of groundwater contaminates, and evaluate the integrity of groundwater basins/well locations. Ms. Demine has developed financial models and conducted analyses for water and wastewater rate studies as well as capacity fee studies.

### RELEVANT PROJECT EXPERIENCE

### East Bay Municipal Utility District (CA)

East Bay Municipal Utility District (District) hired Raftelis in 2018 to perform a comprehensive wastewater cost of service study and to update the capacity fee for its wastewater utility. The last comprehensive cost of service study was done in 2015 for the wastewater treatment charges. As part of the study, Raftelis thoroughly examined the District's cost structure, analyzed wastewater flow and customers data, and evaluated alternative billable constituents to develop an equitable rate structure that meets Proposition 218 requirements and the District's goals and objectives. While the proposed treatment rates retain the current rate structure, the individual rates are realigned to reflect the cost of service. The Study was led by Hannah Phan, who served as the Lead Consultant for the Study. Ms. Demine assisted with data collection and model development for both the cost of service and capacity fee studies.

### City of Galt (CA)

In early 2017, the City of Galt began working on a comprehensive wastewater rate study for the City. The goal of the project was to evaluate several cost allocation and rate structures to ensure compliance with Proposition 218. The Study was led by Andrea Boehling, who served as the Lead Consultant for the Study. Additionally, the City hired Raftelis to perform annual updates of the financial plan for both water and wastewater. Ms. Demine worked with the City and Project Manager to assist with completing the 2019 annual update.

### City of Atwater (CA)

The City of Atwater commissioned Raftelis to develop financial plans and cost of service studies for their water and wastewater utilities. Located approximately eight miles northwest of Merced, CA, the City provides water service to approximately 7,600 customers and wastewater services to approximately 8,500 units. Ms. Demine assisted in updating the financial plans and developing the cost of service analysis for both utilities.

### City of Livermore (CA)

The City hired Raftelis to perform a comprehensive Cost of Service Water and Wastewater Rate Study. The City set their rates internally and wanted to receive an independent review and update to its rates from an outside firm. Mr. Isaac served as Project Manager with Ms. Boehling as lead consultant. As part of the study, Raftelis provided recommendations to the rate structure to ensure compliance with the cost of service principles of Proposition 218. The study concluded in June of 2017 with unanimous approval of the proposed rates. Ms. Demine assisted with data collection and model development for both enterprises.

### Lake Hemet Municipal Water District (CA)

The District commissioned Raftelis in 2017 to develop financial plans and cost of service studies for the water and wastewater services. The main objectives of the study were to ensure financial 102

sufficiency, meet operation and maintenance costs, and to ensure funding for both capital and reserves. Ms. Demine was responsible for gathering and analyzing data, creating the Garner Valley enterprise financial plan, developing the cost of service model and rate model, and assisted in drafting the detailed report highlighting the decisions made and the explaining the calculation of the final rates. As part of the study, Raftelis evaluated interfund loans between enterprises with varying repayment terms and modeled various rate structures.

### Helix Water District (CA)

The Helix Water District (District) hired Raftelis to conduct a comprehensive cost of service analysis and financial plan update. The last cost of service study was conducted back in 1988 and needed to be updated to be in compliance with Government Code Section 54999.7(c). Rates for a five-year period were adopted in October of 2015. Additionally, the District hired Raftelis to perform annual updates of the financial plan. Ms. Demine worked with the District and Project Manager to assist with completing the 2018 annual update.

### Leucadia Wastewater District (CA)

The district hired Raftelis to update its financial plan for both its wastewater and recycled water enterprises and to update the capacity fee for its wastewater utility. The main objectives of the study were to ensure long-term financial sufficiency, meet operation and maintenance costs, and to ensure funding for both capital and reserves over a 20-year planning period. The Study was led by Andrea Boehling, who served as the Project Manager for the Study. Ms. Demine assisted with data collection and model development for both enterprises.

### Monterey County Water Resources Agency (CA)

Ms. Demine assisted in the preparation of the 2017 new source waters study report for Monterey County Water Resources Agency. In this report, she documented the cost analysis for the operation and maintenance of new source waters as well as the capital costs of the new source waters. New source waters included additional agricultural wash, pond water, and new treated effluent from industrial users.

### Sierra Madre (CA)

Ms. Demine assisted in the preparation of the 2018 comprehensive water and wastewater cost of service study report for the City of Sierra Madre. The purpose of this study was to develop a financial plan and design rates for the City's utilities over the next five years.

### OTHER RELEVANT PROJECT EXPERIENCE

As a geophysicist for GEOVision Geophysical Services, Ms. Demine was responsible for conducting subsurface investigations. She was also involved in helping to determine the best geophysical method to meet the client's needs. Ms. Demine was responsible for efficiently managing and organizing the data collection, analysis, and processing phases of the geophysical investigation. She has worked on projects ranging from determining the depth and lateral extent of groundwater tables in various basins, gathering data on bedrock properties for the construction or repair of various infrastructure projects (e.g. dams, tunnels, and pipelines), relocating abandoned water wells, locating the depth and/or lateral extent of contamination plumes or seawater intrusion, and determining the best location for the placement of new water wells.

Related Geophysical experience:

- · Monterey Interlake Tunnel
- · Cadiz Inc. Pipeline
- · Stringfellow Acid Pits
- · Hinkley, CA Chromium Cleanup
- Catalina Seawater intrusion analysis
- Oroville Dam
- · Sierra Madre Dam
- San Vicente Dam



### **SPECIALTIES**

- Statistical Data Analysis
- Natural Resource Economics
- · Financial Modeling

### PROFESSIONAL HISTORY

- Raftelis: Consultant (2019-present)
- California Data Collaborative: Research Fellow (2018-19)
- UC Riverside Environmental Science Dept.: Graduate Researcher (2010-18)
- World Resources Institute: Africa Program Coordinator (2007-10)

### **EDUCATION**

- Doctor of Philosophy in Environmental Economics & Policy - University of California, Riverside (2018)
- Master of Arts in International Development Studies - Brown University (2005)
- Dual Major in Biology and International Relations - Boston University (2001)

### Arisha Ashraf

### **Staff Consultant**

Consultant

Arisha enjoys problem-solving to improve efficiency. This stems from her interest background in economics and natural love of learning. She has multi-disciplinary academic training, and worked in non-profit, start-up, university, and business settings. Arisha is excited about further building her excel skills, and how big data will be incorporated into our financial analyses.

### RELEVANT PROJECT EXPERIENCE

### California Data Collaborative (CA)

Arisha worked with this innovative start-up company to analyze water conservation behavior in Southern California water utility customers. This included data for over 30K single-family accounts.

### UC Riverside Environmental Sciences Department (CA)

Arisha surveyed Southern California farmers on their water management practices and the impact of climate change. She performed econometric analysis on her survey data with a team of 4 undergraduate students. She is in the process of publishing her research results. Arisha also served as a Teaching Assistant for undergraduate classes in environmental economics and environmental science classes.

### World Resources Institute (DC)

Arisha managed budgets totaling \$3M for resource conservation and poverty reduction projects in Senegal, Uganda, Cameroon, and the Democratic Republic of Congo. She also prepared evaluation reports for 3 large projects from the World Bank, Gates Foundation, and the German International Development Fund. In addition, she developed proposal and public outreach material.

### **PUBLICATIONS**

- Ashraf A, Dinar A, Gonzalez-Rivera G, Khan T, and R Amin. (Projected submission: March 2019). Water Management Decisions under Drought Conditions: Results from a Farm-Level Survey in Southern California.
- Ashraf A, Dinar A, Khan T, and J Gonzalez. (Submitted December 2018). Farm-level Ricardian Analysis of Desert and Southern Regions of California.
- Dinar A, Ashraf A, and J Reints. (2017). Farmer Adoption of Water Management Practices in Response to Recurrent Drought. American Association of Agricultural Economics Choices Magazine, 32(4).
- Ashraf A, Dinar A, Montiero E, and T Gaston. (2016). Adaptation in California Agriculture: What Have We Been Assessing for Two and a Half Decades? Climate Change Economics, 7(2).
- Ashraf A and P Veit. (2010). Assessing Sub-Saharan Africa's Water Future under Alternative Policy Scenarios. Background Report to the 2010 African Development Report.

### PRESENTATIONS

- Western Economic Association International Annual Meeting, 2018
- University of California Cooperative Extension Annual Meeting, 2018
- · Giannini Graduate Symposium, 2011-2017
- Southern California Association of Governments, May 2017
- Annual Environmental Sciences Graduate Symposium, 2011-2016

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### **SPECIALTIES**

- · Statistical Data Analysis
- Business Intelligence
- Natural Resource Economics

### **PROFESSIONAL HISTORY**

- Raftelis: Associate Consultant (2019-present)
- LegalZoom, Inc.: Business Intelligence and Data Analytics Intern (2018)
- California Global Innovation Exchange: Market Research Intern (2016)

### **EDUCATION**

 Bachelor of Science in Environmental Economics & Policy - University of California, Berkeley (2018)

### Sindhu Sundar

### **Staff Consultant**

Associate Consultant

Ms. Sundar has a background in environmental economics and business intelligence. She joined Raftelis in January 2019 as an Associate Consultant, upon receiving a bachelor's degree from UC Berkeley's College of Natural Resources in December 2018. Ms. Sundar has developed econometric models for economic behavior and consumption patterns for UC Berkeley and LegalZoom, Inc. as an undergraduate student.

### OTHER RELEVANT PROJECT EXPERIENCE

### University of California, Berkeley (CA) 2018

Ms. Sundar aided Professor Villas-Boas of the Agricultural and Resource Economics Department in a research project on the economic impacts of shock events, such as extreme pollution and crime. Ms. Sundar conducted data collection and econometric analysis, quantifying various effects on the communities across the nation through factors such as natality rates, real estate value, and education levels.

### LegalZoom, Inc. (CA) 2018

Ms. Sundar developed sales projections and market penetration models as part of her Competitive Analysis for Estate Planning products. She heavily utilized tools such as Google Analytics and Microsoft Excel to create statistical visualizations.



### **SPECIALTIES**

- · Strategic communication planning
- · Stakeholder engagement
- · Public involvement
- · Community outreach
- · Crisis and risk communication
- Reputation management
- · Coalition building and campaigns

### PROFESSIONAL HISTORY

- Raftelis: Director of Strategic Communication Services (2018-present)
- Denver Water: Director of Public Affairs (2012-2018); Manager of Water Conservation (2008-2012)
- Aurora Water: Manager of Public Relations (2000-2008)

#### **EDUCATION**

- Masters of Science in Technical Communication (Public Relations) – Colorado State University (2005)
- Bachelors of Arts in Technical Journalism (Public Relations) – Colorado State University (1991)
- Graduate, Water and Wastewater Leadership Center, University of North Carolina, Kenan-Flagler Business School (2016)

### PROFESSIONAL MEMBERSHIPS

- American Water Works Association: President-Elect; Former Public Affairs Council Chair
- Water Environment Federation
- National Association of Clean Water Agencies
- Public Relations Society of America: Accredited in Public Relations (APR)

### Melissa Elliott APR

### **Customer Education and Outreach**

**Director of Strategic Communication Services** 

Ms. Elliott has a 20+ year public relations career spent almost entirely with water and wastewater utilities and municipalities. She directs communication planning, stakeholder engagement and risk communication strategies. She also facilitates public involvement efforts and public meetings. Prior to joining Raftelis, Ms. Elliott directed the public affairs efforts at Denver Water, which included creating the public engagement strategy for massive infrastructure projects, developing a nationally recognized lead service line replacement program, and leading conservation outreach efforts through the innovative "Use Only What You Need" campaign. She has extensive experience working with elected officials, stakeholders and the public on issues as diverse as drought, water quality, potable reuse, affordability, rate structure change, impactful construction projects, customer assistance programs and demand management. She has an M.S. in technical communication and a B.A. in journalism and is Accredited in Public Relations (APR) from the Public Relations Society of America. Highly active in the water industry nationally and regionally, Ms. Elliott is the American Water Works Association president-elect and former chair of AWWA's Public Affairs Council. She has served on a variety of association committees including chairing the Strategic Planning Committee and chairing the AWWA/WEF Transformative Issues Symposium on Affordability.

### RELEVANT PROJECT EXPERIENCE

### Sweetwater Authority, CA - Rate Study Communications

Sweetwater Authority (SWA) serves drinking water to 190,000 people in southern California. The utility had not had a rate increase since 2015, and wished to build community support for the need for investment in infrastructure. SWA has public relations staff and a good communications foundation, but sought specialized assistance in messaging and community outreach specific to their rate study. Ms. Elliott provided a strategic communications plan, guidance on messaging strategy and community outreach tactics. SWA approved a five-year rate increase and the communications efforts for this project received the AWWA Public Communications Award in 2019.

### Fort Collins-Loveland Water District, CO - Rate Study Communications

Fort Collins-Loveland Water District's (FCLWD) Rate Study recommendations demonstrate the need for significant changes to both their water rates and their system development (tap) fees. The utility is investing in increasing their water supply and had not previously done public engagement work and needed a way to explain the rate study to customers while seeking customer acceptance of higher rates and developer acceptance of a new way of charging for tap fees. Ms. Elliott developed a strategic communications plan for FCLWD, guided staff through the plan implementation and developed several community outreach strategies for the utility including hosting two successful community open houses to provide context for the proposed changes.

### City of Craig, CO - Rate Study Communications

A small community in Northwestern Colorado, the City of Craig has experienced an economic downturn and struggled in the past to get support for much needed tax increases. Facing the need to determine how best to fund significant upcoming water and wastewater capital needs Craig sought community outreach and communications assistance. Ms. Elliott developed a strategic communications plan that included several community outreach tactics that the city used successfully.

### Denver Water - Lead Service Line Replacement Program

Denver Water exceeded the action level for lead in 2012, setting off the state's largest ever public health risk notification. Within just two months of that exceedance Ms. Elliott led the effort to notify every resident, pediatrician, obstetrician, school, child care facility and special population in the treated water service area—six counties in size. That risk communication plan then evolved into a much larger effort to address the looming public health and reputational threat that was posed when the utility became aware that nearly one in three homes in Denver had a lead service line. Ms. Elliott's work on this effort involved a risk communication plan and strategic communication. The program included:

- Creation of coalitions to support regulatory and legislative strategies aimed at advocating for funding and requirements for testing to encourage lead service line removal
- Direct work with executives and board commissioners to explain policy options and practical funding approaches to encourage customers to replace lead service lines.
- Spokesperson for media interviews.
- National recognition by regulatory and environmental organizations as a leading program

### **Denver Water - Gross Reservoir Expansion Project**

Expanding Gross Reservoir will help Denver Water protect its customers from negative impacts of a future drought and shortfalls in Denver Water's overall water storage system. This project will increase Gross Reservoir's capacity to 119,000 total acre feet by adding an additional 77,000 acre feet. The Gross Reservoir Expansion Project is one of the major elements of Denver Water's long-term supply plan. It will prevent future shortfalls during droughts and correct a serious imbalance in the North-South collection system. With this project, Denver Water will provide more water to customers while improving the environment surrounding the planned expansion. The project is in Boulder County, Colorado and residents living near the reservoir will not benefit from its expansion.

Ms. Elliott's work on this project included overseeing a strategic communication and public engagement program with assistance from an outside consultant and staff. The program rebranded the Gross Reservoir Expansion Project (formally called the Moffat Collection System Project) and focused efforts on the community living near the reservoir who will be directly impacted by construction. That effort has been followed by a more active outreach program with Denver Water customers who will need to know the value of this project as they see increases on their water bills. The communication program includes:

- Building goodwill and recognition of the Gross Reservoir Expansion Project by proactively engaging the Boulder County community and advocating for public construction impact mitigation.
- Using public participation tools, and designing a series of public availability sessions allowing for one-on-one discussions and decreased tension in the community.
- Development of a full suite of communication materials branded and produced to focus on the environmental enhancements innate to the project.

 Executing on a plan to develop an on-site public education space—the nation's first public information yurt—staffed at Gross Reservoir to provide personal interaction with visitors so they can learn about the project's need, benefits and progress.

### Aurora Water - Prairie Waters Potable Reuse Project

The City of Aurora's Prairie Waters Project includes 34 miles of 60-inch diameter pipeline, three pump stations, a natural purification area and the Binney Purification Facility. Designed to protect the city against drought, like the one in 2002 that left Aurora with only a 9-month supply of water, the system uses a sustainable water source by recapturing river water. The project meets the definition of an indirect potable reuse project, however doing an internet search on that term won't provide many hits—and that's purposeful. The project was branded as a drinking water project. As drought gripped the City of Aurora, engineers grappled with how to get a project in the works quickly that would require no federal permitting. Prairie Waters was borne out of necessity. Ms. Elliott led the communication program for this project with the assistance of an outside contractor that included the following:

- Branding the project name and water purification facility in a way that would build support from the public concern for this new water source.
- Securing customer and elected city council support for rate increases that were significant—four years of double digit increases—yet necessary to ensure borrowing capacity.
- Retained positive reputation during eminent domain and rightof-way negotiations over the 34-mile pipeline in three counties.
- Ensuring public acceptance for a new water source by securing third-party endorsements of the project and public engagement opportunities to leverage public interest in solving the water crisis.
- Building the community rationale for the project by pitching media, conducting 750+ media interviews over 18 months during the drought.

### City of Newport, OR - Save Our Supply Campaign

The City of Newport has two dams that have recently been found to be structurally deficient if the coastal community were to experience an earthquake. The dams are listed as the state engineer's second and third most needed dam replacements in the state. The community is small and the cost to replace this infrastructure is estimated to be \$75 million. Ms. Elliott developed a communications strategy for a campaign to build community awareness about the project to support government relations efforts seeking state and federal funding for a significant portion of the project costs.

### Washington Suburban Sanitary Commission, MD - Rate Structure Change

WSSC successfully adopted a major rate structure change in 2018 following a regulatory directive to do so. The utility spent considerable effort in 2017 engaging customers to get input into rate structure design. WSSC sought assistance with developing a communications and outreach strategy to inform stakeholders and customers of the rate change that will be implemented, along with major new customer service initiatives in July 2019. Ms. Elliott audited the utility's current rate communication efforts, developed and tested a message platform, and worked with WSSC staff to

create a communication strategy that will align with other customer service initiatives and increase customer acceptance of the rate change.

Municipal Authority of Westmoreland County, PA – Ongoing Communications Consulting

MAWC is the third largest utility in Pennsylvania but has limited staff resources for communications efforts. Recognizing the need to have strategic counsel available, MAWC contracted with Ms. Elliott to provide as-needed communications consulting for issues management and strategic planning purposes.

### Eagan Pubic Works Utilities, MN - Employee Engagement for Strategic Planning

The City of Eagan Public Works Utilities Department is preparing for their future and developing a strategic plan. Ms. Elliott prepared and facilitated two workshops with all public works utilities employees, including a Strengths, Opportunities, Aspirations and Results (SOAR) analysis and development of the organization's values statement. The work done in the workshops serves as the foundation for the utility's strategic plan.

### Louisville Water Company, LA - Internal Communications Plan

Louisville Water Company recently developed a Strategic Business Plan and wanted to ensure that employees were engaged and inspired by the plan. Ms. Elliott developed an internal communications plan to roll out the Strategic Business Plan to employees that included a "first six months" timeline and task list to keep the plan at the forefront of employee communication.

### Birmingham Water Works Board, AL -Cost of Service Study

BWWB's cost of service study ensured customers are charged only for what it costs to serve them. Part of the study reviewed the way customers are charged for water through BWWB's rate structure. BWWB prioritized revenue stability, affordability, and minimal customer impacts as the primary objectives of how it prices water service. The cost of service study made recommendations for any changes needed to recover costs to serve customers in proportion to their use of the water system. Ms. Elliott worked hand-in-hand with BWWB staff and rate consultants to implement a communications strategy that built public trust in the cost of service study decision-making process through a variety of community outreach tactics.

### Lakewood, OH - Community Engagement

The City of Lakewood is working through a regulatory response and developing an infrastructure plan to address combined sewer overflows. Ms. Elliott developed an extensive community engagement program to demonstrate that the city is advocating on behalf of their citizens in terms of an affordable plan to address regulatory concerns. The engagement efforts implemented by Ms. Elliott and City staff included facilitated round table discussions, electronic voting at a large public meeting and a community open house to gather public input. The engagement effort has touched hundreds of residents on a topic that is typically difficult to get community traction on.

### Richmond Department of Public Utilities, VA - Affordability Program Campaign

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The City of Richmond Department of Public Utilities (DPU) has done considerable work to develop the MetroCare Water Assistance Program. The program is intended to bridge the gap for at-risk customers experiencing a challenge in paying their water bill. DPU has also implemented rate structure changes to factor in affordability by creating a lifeline rate for essential water use. Although the Metro-Care Water Assistance Program appears to be funded adequately, and there is a demonstrated need in the community, the number of households receiving assistance has declined and has never met the available funding in the three years the program has been in existence. Ms. Elliott is assisting DPU with developing strategies to improve program outreach and participation.

### INDUSTRY ENGAGEMENT

- Telling Your Story Through Content Marketing, Workshop Facilitation, Utility Management Conference, March 2019
- AWWA/WEF Transformative Issues Symposium on Affordability," Chair, 2018
- "The Shape of Water," Presentation at the 2018 Engaging Local Government Leaders Annual Meeting, May 2018
- "Building Support for Rate Structure Change," Presentation at WaterNow Alliance Annual Summit, March 2018
- "Public Affairs Getting to Know Your Stakeholders in Advance of a Rate Change," Article, Journal AWWA, December 2017
- "Building Support for Rate Structure Change," Presentation at WaterNow Alliance Workshop, 2017
- "Communicating About Water Quality: Lead Case Study #1: Denver Water," Presentation at the 2017 AWWA Annual Conference and Exposition
- "Providing a Customer Outreach Program Related to Lead Service Line Replacement," Presentation at the 2017 AWWA Annual Conference and Exposition
- "The Recipe to Success in Implementing a Water Rates Campaign: Case Studies," Presentation at the 2017 AWWA Annual Conference and Exposition
- "Factoring Affordability into Rate Structure Change," Webinar for AWWA Infrastructure Finance Series: Innovative Strategies for Customer Affordability, 2017
- "What Lies Beneath: Challenges in Maintaining Water Infrastructure," Presentation at the Government Finance Officers Association Annual Conference, 2017
- "Flint and Lead: The Water-Public Health Connection," Webinar for AWWA and American Public Health Association, 2016
- AWWA Strategic Planning Committee, Chair, 2016



#### **SPECIALTIES**

- · Community Relations Planning
- Public Relations
- Facilitation
- Public Involvement
- Strategic Communication Planning

#### PROFESSIONAL HISTORY

- Raftelis: Senior Consultant (2018-present)
- Denver Water: Community Relations Manager (2012-2018)
- Colorado Parks and Wildlife: Public Involvement Unit Manager (2005-2012)

#### **EDUCATION**

- Master of Science in Environmental Policy - Bard College (2003)
- Bachelor of Science in Biology -Wittenberg University (1997)

#### **Katie Knoll**

#### **Customer Education and Outreach**

Senior Consultant

Ms. Knoll has 15+ years of experience in community, government and public relations in natural resource management and water treatment and distribution. Prior to joining Raftelis, Ms. Knoll managed the community relations efforts at Denver Water, creating public engagement strategy for large infrastructure projects and pioneering the implementation of the Good Neighbor Promise to build and maintain a positive reputation and trusted relationships in the community and help customers cope with construction impacts. Throughout her career, Ms. Knoll has been working and communicating with a variety of constituent groups ranging from leaders in in education funding to environmentalists and sportsmen to water utility ratepayers and local government officials. Ms. Knoll has a bachelor's degree in biology from Wittenberg University in Ohio and a master's degree in environmental policy from Bard College in New York. Prior to accepting her position at Denver Water, Ms. Knoll spent almost a decade as the public involvement unit manager for Colorado Parks and Wildlife.

#### RELEVANT PROJECT EXPERIENCE

#### **Denver Water, North System Renewal**

Denver Water is making a capital investment of more than \$600 million dollars over the next 6-7 years to upgrade and improve the infrastructure serving the north side of its distribution and collection system. The North System Renewal consists of a suite of projects that includes: building a new treatment plant, replacement of an 8.5-mile pipeline and the transition of an existing treatment plant to a water distribution center. Communication challenges for this project were many, the project encompasses several local government jurisdictions and a community not directly served by Denver Water. Additionally, the pipeline route crosses more than 200 residential and commercial properties resulting in significant construction impacts on or directly adjacent to each individual property. Ms. Knoll led all stakeholder engagement efforts for the project, developing a communications and outreach strategy to serve directly impacted residents, business owners, elected officials and communities through a series of community and City Council meetings, presentations and specifically tailored site visits for impacted property owners. Ms. Knoll developed all communication materials, messaging and website content, specifically a portfolio of blog posts and videos that not only explained the need for the project but provided context and visuals for the scope and scale of construction that residents could expect.

#### Denver Water, Hillcrest Water Storage Tank and Pump Station Replacement

The Hillcrest water storage facility is the "hub" of Denver Water's entire distribution system. Water is sent to this facility from all three treatment plants and from there can be sent anywhere in the system for use by Denver Water customers. In 2016, Denver Water began a multi-year effort to replace the water storage tanks and pumping station at the site. The Hillcrest facility, much like most of Denver Water's infrastructure, has seen the community build up around what was largely a rural area when the tanks were originally built in the mid-1960s. Residential homes are so close in proximity that they share the Denver Water fence line. Ms. Knoll developed the communication and outreach strategy for this community focusing on the neighbors that would see construction impacts immediately outside their backyards and implementing the first of its kind – "good neighbor promise" for a Denver Water construction project. More than halfway through the project, this promise has served as a guidepost for Denver Water and its

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contractors, removed community barriers that may have slowed the project and built Denver Water's reputation as trusted neighbor and water service provider. Ms. Knoll also pioneered the use of the neighborhood social media platform, "NextDoor," to expand communication on this project. After piloting this communication strategy on the Hillcrest project, Ms. Knoll successfully integrated this tool into Denver Water's broader social media strategy.

#### **Denver Water, Advisory Committee Oversight**

As the community relations manager for Denver Water, Ms. Knoll developed a program for the use of advisory committees as a tool for collecting customer feedback on Denver Water programs and initiatives. Ms. Knoll facilitated both short and long term advisory committees on topics ranging from recycled water usage and water conservation and efficiency to infrastructure projects and water rate increases. Ms. Knoll facilitated a year-long discussion between Denver Water, Denver Parks, Denver City Council and community members to address concerns about recycled water impacts on landscape in the Denver Parks system resulting in a consensus action plan that maintained the use of recycled water while also protecting park landscapes. Ms. Knoll also provided guidance, leadership and facilitation for the permanently established Citizens Advisory Committee (CAC) charged with advising the Denver Water Board on a variety of issues ranging from drought communication to feedback on rate structure changes and increases. Ms. Knoll developed a focus group program for the CAC that engaged the members of this committee in soliciting feedback from the communities they represented and packaged that feedback in a way that could be meaningfully incorporated into Denver Water decision making processes.

#### City of Idaho Springs, Water and Wastewater Rate Study

The City of Idaho Springs, CO is growing and the need for sig-nificant water and wastewater infrastructure to support this growth is significant. The City enlisted the assistance of Raftelis to conduct a cost of service study and provide rate adjustment rec-ommendations to help plan for future infrastructure investment, ensuring the required revenue was available and to assign costs to appropriate users so that any recommended rate increases were fair, equitable and defensible. Rate increases were recommended and were potentially significant for many residents and businesses. The City wanted to provide an opportunity for residents to learn about and understand the need to upgrade infrastructure and the rate increases recommended to support this investment. Ms. Knoll designed an open house format to provide this opportunity. She oversaw the development of presentations on both financial and engineering recommendations to ensure tone, accessibility and ease of understanding for a public not familiar with the intricacies of public financing and infrastructure engineering. Additionally, she designed infographic displays and handouts based on this information to assist residents in understanding the issues, the proposed solutions and how they might be impacted. Residents left with an understanding of the complexities of providing water and wastewater services and City staff and council members gained confidence in their decision understanding that, while residents might not like the rate increases, they supported the need and understood the benefits to the community.

#### City of Prescott, Development Impact Fee Study

The City of Prescott, AZ has is experiencing rapid growth and increasing development within the city boundaries. As a result, they identified a need to update their development impact fees to help pay for needed expansion of existing infrastructure to accom-modate new development. The process for updating development impact fees is specified in Arizona state statute and includes a public involvement requirement. The City chose to fulfill the public involvement requirement by convening an advisory com¬mittee - the Mayor's Commission on Development Impact Fees – composed of members of the development community. Increas-ing development impact fees will be impactful to this community and will impose additional costs on everyone from developers to construction firms to potential buyers. Ms. Knoll led the Mayor's Commission process on behalf of the City. She facilitated three Commission meetings, designing agendas that provided space for information sharing and encouraged productive and meaningful discussion between City staff and Commission members resulting in improved understanding and relationships. The Commission ultimately supported the final proposal to update development impact fees, both the framework for developing them and the actual fees, presented to the Prescott City Council for approval.

#### City of Lakewood, Clean Water Lakewood

The City of Lakewood, OH is working to develop a plan to address Clean Water Act compliance for its sewer and stormwater systems. The City's system is subject to overflow during extreme weather events causing pollution concerns for local rivers and lakes. As a result, the U.S. EPA and Ohio EPA are requiring the City to find a way to treat or mitigate the millions of gallons of combined sewer overflow that happen on an annual basis. Addressing this issue will require millions of dollars of investment in public infrastructure in addition to the need for improvements on private property. Waste-water bills will need to be increased and programs developed to assist homeowners with needed private property improvements. Lakewood is engaging in a public involvement process to help its citizens understand the issue and the investment needed and to solicit feedback on how the City should move forward. Ms. Knoll pioneered the use of a new public engagement technique and tech-nology as part of this process. Using onsite polling technology, Ms. Knoll developed an interactive public event that allowed more than 80 citizens to provide feedback on specific questions related to this issue and the options the City could pursue to address it. Attendees were provided with devices that allowed them to vote on options with results displayed in real time at the event. Providing real time voting results allowed staff and attendees to have more meaningful discussions that built on the feedback and preferences of the group. Staff walked away with clear feedback and support from residents for addressing this issue.

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## References

We have included descriptions of several similar projects that we have worked on within the past five years. We have included references for each of these clients and urge you to contact them to better understand our capabilities and the quality of service that we provide.

#### **Western Municipal Water District**

#### CALIFORNIA

#### **Contact Person:**

Rod LeMond, CPA
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As a member agency of MWD of Southern California, Western Municipal Water District (District) provides water and wastewater service to approximately 24,000 retail and 8 wholesale customers in western Riverside County. Raftelis assisted the District in the development and implementation of a new water budget rate structure.

First, Raftelis identified and examined three potential water budget rate structures for the Murrieta and Riverside service areas. To analyze the impacts of these potential rate structures, Raftelis developed a Microsoft Excel-based water budget rate model. The model allowed the District to change the key factors

for water allocations, provide revenue and impact analysis, and generate sample customer monthly bills under existing and proposed rates. Raftelis conducted meetings and workshops with District staff and the Board to analyze various rate structure scenarios to ensure that the new structure would meet the District's objectives. Through these meetings, a water budget rate structure was selected to effectively meet the District's needs, and this structure was successfully adopted.

Since the adoption of this water budget rate structure, the District has increased revenue stability, promoted water efficiency, and increased customer satisfaction.

In addition to developing the water budget rate structure, Raftelis also developed a customized, long-term 30-year financial plan model to help the District financially manage all 14 of its enterprises. This comprehensive yet user-friendly model is used to facilitate communication between staff and the District's Board of Directors about the financial implications of different financial policies and capital improvement projects. The model also assists with coordination and decision making between engineering and finance staff as they work to prioritize capital projects and define a capital financing plan to achieve a sustainable and achievable solution.

#### **El Toro Water District**

#### **CALIFORNIA**

#### **Contact Person:**

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Raftelis has assisted El Toro Water District (District) with the development of its rates on an ongoing basis since 2006. At that time, the District had not updated its water and wastewater rates or rate structure in more than 10 years and was operating at a deficit. Raftelis prepared a 12-year financial plan evaluating the operating and capital expenses, debt service, and reserve requirements. A cost of service analysis was conducted to review the equity of the rates and existing rate structures. The adopted rates, resulting from the cost of service study in 2006, unbundled rate components to convey the true cost of various service components and to continue to equitably pass on the cost of water, wastewater, and recycled water services to users.

In 2009, the District engaged Raftelis to design a water budget rate structure for its residential and irrigation accounts to help promote water-use efficiency. Raftelis designed a water budget rate structure which ensured revenue stability, financial sufficiency, and provided the appropriate price signal for different supply costs and conservation program funding for the District. The following outlines the methodology used to develop the water budget rate structure:

- Indoor allocations varied by the number of occupants and outdoor allocations varied based on weather data and irrigable area
- The irrigable area was determined by taking the total parcel area less the building area acquired from the Assessors' Secured Roll
- The allocation budgets considered irrigation efficiency and type of landscape

Next, Raftelis developed a water budget rate model that allowed the District to quickly view the impacts of alternative rates and budgets, to aid policy makers in making well-informed decisions in a timely manner. This tool proved invaluable when presenting the results in a graphical format to the District Board of Directors because it enabled them to easily see the impacts of different water budgets on their customers in real-time. As a result, the Board adopted the water budget rate structure in June 2010. To minimize rate shock to upper-tier users, Raftelis developed a three-phase implementation plan that slowly phased in Tier 3 and Tier 4 rates. The rate unbundling and phase-in implementation plan were found beneficial and useful for the District during public outreach and rate implementation. The findings and recommendations

resulting from the Study were summarized and documented in the Study Report.

Since the water budget rate study, each year Raftelis was retained by the District to conduct the cost of service annual study to update its water and wastewater rates. In 2012, the District engaged Raftelis to conduct a recycled water financial plan study to evaluate the impacts of the recycled water expansion on the Water and Wastewater Enterprises.

In late 2014 and early 2015, California experienced one of the most severe droughts in state history. The District purchases 100 percent of its potable water supply from the Metropolitan Water District of Orange County (MDWOC), a wholesale customer of the Metropolitan Water District of Southern California (MWD). To address water supply issues, MWD developed the Water Supply Allocation Plan (WSAP) which provides reduced allocations to wholesale customers within MWD's service area. In turn, on January 20, 2015, MWDOC adopted a methodology to determine the allocation to its member agencies. Member agencies, such as the District, can purchase water above the allocation, but such purchases are subject to severe penalties. The District engaged Raftelis to conduct a drought rate study to determine the indoor and outdoor drought factor adjustments necessary to encourage conservation among its residential and irrigation customers and to develop penalty rates for commercial customers in order to achieve the required reductions in consumption under increasing levels of drought. As part of the study, Raftelis conducted financial impact analysis on revenues, expenditures, and net revenues for each drought stage. The study analyzed the impacts if: 1) customers continued to consume at normal (non-drought) levels, or 2) customers reduced consumption by the amount required. The methodology and results of the Study were documented in the drought study report and submitted to the District to support the adoption of the District's "Water Conservation & Water Supply Shortage Ordinance" in 2015.

In 2017, the District retained Raftelis to conduct Rate Study Introduction Workshop for its employees. The District also requested Raftelis' services for its annual rate update study for water and recycled water services, and cost of service analysis for it sewer services. Raftelis presented the results of the study to District staff using the Rate Model to run rate scenarios and customer impact analysis. The results of the study were documented in the Final Report submitted to the District in April 2017 and the rates were adopted July 1, 2017.

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#### City of Camarillo

#### CALIFORNIA

Contact Person:

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In 2011, the City of Camarillo (City) engaged Raftelis to conduct a comprehensive water and wastewater rate study to independently assess and evaluate existing water and wastewater rates for compliance with industry standards and California regulations, and to develop a financial plan to ensure financial sufficiency while minimizing rate impacts to the greatest degree possible. The study included a comprehensive review of the water and wastewater enterprises' revenue requirements, a review of the City's user classification and usage patterns, a cost of service analysis, the development of water and wastewater connection fees, the design of water and wastewater rates, and the analysis of customer impacts along with a rate survey of neighboring agencies. The City had significant capital improvement projects scheduled in the immediate future (FY 2012 to FY 2014); to smooth out customer impacts while sufficiently maintaining the utility's systems, Raftelis developed water and wastewater financial plan models to evaluate different CIP scenarios, financing options, and associated financial impacts. Raftelis recommended water and wastewater rate schedules for a two-year period effective January 2012 and 2013, which were approved by the City Council in November 2011. Since then Raftelis has updated the City rates on a biennial basis and has recently revaluated the financial plan for FY 2017.

The City relies heavily upon imported water and has experienced a reduction on its groundwater allocation within the Fox Canyon Basin due to saltwater intrusion. To help mitigate the impacts from drought and increasing source costs, the City has developed a recycled water system to provide non-potable supply to irrigators and other non-residential accounts within the service area. In 2015 Raftelis developed a financial plan for the new recycled water enterprise. As part of the Study, Raftelis conducted a cost of service analysis and developed recycled water rates. Recycled water rates were adopted by City Council, in conjunction with potable rates, in July 2016.

#### **City of Thousand Oaks**

#### CALIFORNIA

Contact Person:

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The City of Thousand Oaks (City) engaged Raftelis to conduct a comprehensive water and wastewater rate study to develop a financial plan to ensure financial sufficiency, particularly with regard to the City's large upcoming replacement and refurbishment (R&R) projects and the increasing cost of its water supply from Calleguas Municipal Water District. Raftelis incorporated these requirements into the financial plan model which included the ability to pass through the increased costs of water supply to the City's customers, in accordance with AB 2020 and other regulations. This feature of the financial model was used to the decision-making process for determining how to mitigate the financial risk associated with the uncertainty of water supply costs. To address the City's future R&R requirements, Raftelis worked with the City's engineering consultant to synchronize the timing of the asset management plan as developed by the consultant with the timing of the City's rate revenue. The City was due for a cost of service analysis, and Raftelis evaluated nexus requirements for the wastewater enterprise and developed wastewater rates based on the costs associated flows, strengths (Total Suspended Solids and Biochemical Oxygen Demand), and customer service costs. The City billed its wastewater customers on a service-unit as opposed to the more common EDU basis. In setting the wastewater rates, Raftelis followed the City's preference in adhering to the service-unit format for charging rates by revising the service-unit definition as opposed to converting rates to an EDU basis.

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Raftelis provides utilities and public-sector organizations with insights and expertise to help them operate as high-performing, sustainable entities providing essential services to their citizens. We help our clients solve their finance, organizational, and technology challenges, achieve their objectives, and, ultimately, make their communities better places to live, work, and play.

THE DISTRICT & RAFTELIS

## The Right Fit

We believe that Raftelis is the right fit for this project. We provide several key factors that will benefit the District and help to make this project a success.



#### **RESOURCES & EXPERTISE**

This project will require the resources necessary to effectively staff the project, and the skillsets to complete all of the required components.

With more than 80 consultants, Raftelis has the largest water-industry financial and rate consulting practice in the nation. Our depth of resources will allow us to provide the District with the technical expertise necessary to meet your objectives. In addition to having many of the industry's leading rate consultants, we also have experts in key related areas, like stakeholder engagement and data analytics, to provide additional insights as needed.



#### **DEFENSIBLE RECOMMENDATIONS**

When your elected officials and customers are considering the validity and merit of recommended changes, they want to be confident that they were developed by experts using the latest industry standard methodology.

Our senior staff are involved in shaping industry standards by chairing various committees within the AWWA and WEF. Raftelis' staff members have also co-authored many industry standard books regarding utility financial planning and rate setting. Being so actively involved in the industry will allow us to keep the District informed of emerging trends and issues, and to be confident that our recommendations are insightful and founded on sound industry principles. In addition, with Raftelis' registration as a Municipal Advisor, you can be confident that we are fully qualified and capable of providing financial advice related to all aspects of utility financial planning in compliance with federal regulations.



#### **HISTORY OF SIMILAR SUCCESSES**

An extensive track record of past similar work will help to avoid potential pitfalls on this project and provide the know-how to bring it across the finish line.

Raftelis staff have assisted 1,000+ utilities throughout the U.S. with financial and rate consulting services, with wide-ranging needs and objectives. Our extensive experience will allow us to provide innovative and insightful recommendations to the District, and will provide validation of the Agency's long-term financial plan ensuring that industry best practices are incorporated.



#### **USER-FRIENDLY MODELING**

A modeling tool that your staff can use for scenario analysis and financial planning now and into the future will be key for the District going forward.

Raftelis has developed some of the most sophisticated yet user-friendly financial/rate models available in the industry. Our models are tools that allow us to examine different policy options and cost allocations and their financial/customer impacts in real time. Our models are non-proprietary and are developed with the expectation that they will be used by the client as a financial planning tool long after the project is complete.



#### **EXPERTS ON CALIFORNIA REGULATORY REQUIREMENTS**

This expertise will allow the District to be confident that our recommendations take into account all of these regulatory requirements.

The regulatory environment in California has become more stringent due to Proposition 218. Besides developing well thought out financial plans, Raftelis staff are very knowledgable about these regulations and have made presentations on this subject at various industry conferences. In addition, we are frequently called on to be expert witnesses regarding these regulatory matters.

## 26 years serving the utility industry

Our team includes

- consultants
  focused on utility finance/
  organization/technology
- AWWA and WEF committee and division chairs
- 1 AWWA, WEF, and NACWA utility finance and management committees

Raftelis has provided financial/organizational assistance for

1,000+ water/wastewater/stormwater utilities

which serve more than

25% of the U.S. population

and includes the utilities serving

of the nation's 50 largest cities

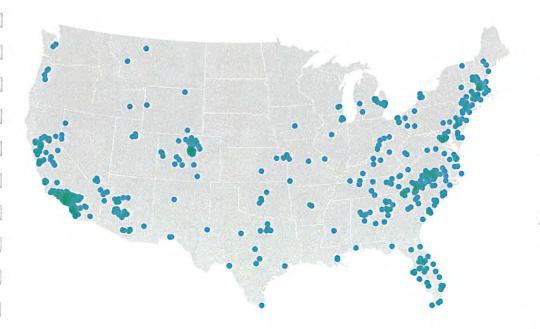
In the past year alone, we worked on

600+ projects 400+ utilities 40 states

## Experience

RAFTELIS HAS THE MOST EXPERIENCED UTILITY FINANCIAL AND MANAGEMENT CONSULTING PRACTICE IN THE NATION.

Our staff have assisted more than 1,000 utilities across the U.S., including some of the largest and most complex agencies in the nation. In the past year alone, Raftelis worked on more than 600 financial/organizational/technology consulting projects for over 400 water, wastewater, and/or stormwater utilities in 40 states, the District of Columbia, and Canada.



Raftelis has provided financial/organizational/technology assistance to utilities serving more than

25%

of the U.S. population.

This map and the matrix on the following page shows some of the utility clients that we have assisted. Description examples of our work are provided in the References section.

CALIFORNIA EXPERIENCE									ses		ion	
This table lists the California utilities that Raftelis has assisted over the	Affordability Analysis & Program Development	Debt Issuance Support		Financial and Capital Improvements Planning					Development / Impact Fees		Organizational Optimization	Water/Wastewater Utility Valuation
past five years on financial, rate, and/	naly elop	Sup	rtior	Capi	port			ď,	Ē	ility	do	ater
or management consulting projects.	ty A Dev	nce	Dispute Resolution	Financial and Capital Improvements Planni	Rate Case Support	_	Sis	Cost of Service	ent/	Stormwater Utility Develoment	onal	tew
	abillit	sual	Re	ial ai eme	ase	Rate Design	Risk Analysis	Ser	pme	Stormwater Develoment	zatio	Was
	orda	ot Is	pute	anci	Ö	e D	A	t of	/elo	rmv	ani	ter/ Jatio
Client	Aff & P	Def	Dis	II II	Rat	Rat	Risl	S	Dev	Sto	Org	Vali
Alameda County Water District												
Anaheim, City of		-										
Arroyo Grande, City of				•			•					
Atwater, City of				•	•	•		•				
Bakersfield, City of		•		•		•		•				
Benicia, City of									•			
Beverly Hills, City of		•		•		•	•		•		•	
Borrego Water District				•		•						
Brea, City of				•		•		•				
Brentwood (CA), City of				•			•	•				
CAL FIRE/San Luis Obispo								•				
Calleguas Municipal Water District		•		•		•	•	•				
Camarillo, City of		•		•		•			•			
Carlsbad Municipal Water District		•		•		•		•				
Casitas Municipal Water District						•		•				
Castaic Lake Water Agency				•		•	•	•	•			
Central Basin Municipal Water District				•			•	0				
Central Contra Costa Sanitary District				•		•						
Channel Islands Beach Community Services District				•		•		•				
Chino Hills, City of				•		•						
Chino, City of				•		•		•				
Chowchilla, City of				•		•	0	0				
Corona, City of						•			•			
County of San Diego				•				•		•		
Crescenta Valley Water District				•		•		•				
Cucamonga Valley Water District				•		•						
Del Mar Union School District		•										
Delta Diablo Sanitation District											•	
East Bay Municipal Utility District				•				•	•			
East Orange County Water District						•		•	•			
East Valley Water District						•						
Eastern Municipal Water District												
El Toro Water District  Elk Grove Water District												
Elsinore Valley Municipal Water District												
Escondido, City of												
Galt, City of												
Glendora, City of												
Goleta Water District							•	•				
Goleta West Sanitary District						•	•	•				
Helix Water District				•		•		•				
Henderson, City of				•		•		•	•			
Hollister, City of				•		•		•	•			
Holtville, City of				•				•				
Huntington Beach, City of				•		•	•	•				
Imperial County				•		•						
Inland Empire Utilities Agency				•								
										•	121	

Client	Affordability Analysis & Program Development	Debt Issuance Support	Dispute Resolution	Financial and Capital Improvements Planning	Rate Case Support	Rate Design	Risk Analysis	Cost of Service	Development / Impact Fees	Stormwater Utility Develoment	Organizational Optimization	Water/Wastewater Utility Valuation
Silent		-			_			0		0, 0	O	
Irvine Unified School District		0										
Jurupa Community Services District				•		•						
Kern County Water Agency					•							
La Canada Irrigation District				•		•		•				
La Habra Heights County Water District				•		•		•	•			
Laguna Beach, City of				•								
Lake Valley Fire Protection District				•			•					
Las Virgenes Municipal Water District				•		•						
Leucadia Wastewater District				•		•						
Livermore, City of				•		•		•	•			
Long Beach City of	•			•		0		•				
Los Alamos Community Services District		0		•		•		•	•			
Los Angeles Department of Water and Power						•		•				
Los Angeles, City of Bureau of Sanitation					•							
Madera, City of				•								
Mammoth Community Water District				•		•						
Marin Municipal Water District					•							
Merced, City of				•		•		•	•			
Mesa Water District				•				0				
Metropolitan Water District of Southern California			0									
Modesto Irrigation District						•		0		•		
Mojave Water Agency				•		•	•					
Monterey County Water Resources Agency				•		•		•				
Monterey, City of				•		•	•					
Moulton Niguel Water District									•			
Municipal Water District of Orange County					•			0				
Napa Sanitation District				•		•		•				
Ojai Valley Sanitary District				•		•		•				
Olivenhain Municipal Water District				•		•	•					
Ontario Municipal Utilities Company								•				
Ontario, City of				•		•	•	•				
Orange, City of				•		•		•				
Palo Alto, City of				•		•	•	•				
Phelan Pinon Hills Community Services District				•				•				
Placer County Water Agency												
Pleasant Hill Recreation & Park District				•				•	4			
Pomona, City of				•		•	-					
Rainbow Municipal Water District				•		•		•				
Ramona Municipal Water District												
Rancho California Water District Redlands, City of						•						
									•			
Rincon del Diablo Municipal Water District Riverside Public Utilities				•								
									-			
Roseville, City of												
Sacramento Regional County Sanitation District												
Sacramento, City of Salton Community Services District												
Salton Sommanity Services District										1	22	

Client	Affordability Analysis & Program Development	Debt Issuance Support	Dispute Resolution	Financial and Capital Improvements Planning	Rate Case Support	Rate Design	Risk Analysis	Cost of Service	Development / Impact Fees	Stormwater Utility Develoment	Organizational Optimization	Water/Wastewater Utility Valuation
San Bernardino Valley Municipal Water District		7				•		J	_	о, <u>п</u>	0	
San Bernardino, County of												
San Clemente, City of												
San Diego, City of Public Utilities Deptartment												
San Dieguito Water District												
San Elijo Joint Powers Authority							•					
San Gabriel County Water District												
San Gabriel, City of												
San Jose, City of												
San Juan Capistrano, City of												
Santa Ana, City of												
Santa Barbara, City of												
Santa Clara Valley Water District												
Santa Clarita Water District												
Santa Cruz, City of												
Santa Fe Irrigation District												
Santa Fe Springs, City of												
Santa Margarita Water District												
Santa Rosa, City Attorney's Office									•			
Scotts Valley Water District		•										
Shafter, City of												
Shasta Lake, City of												
Sierra Madre, City of	•			•			-					
Signal Hill, City of												
Simi Valley, City of						•		•				
Sonoma, City of				•		•		•				
South Mesa Water Company				•		•	•					
South Pasadena, City of				•		•						
South San Francisco, City of				•				•				
Sunnyslope County Water District				•		•	•	•				
Sweetwater Authority				•		•		•				
Temescal Valley Water District				•		•		•				
Thousand Oaks, City of				•		•	•	•	•			
Torrance, City of				•		•		•				
Trabuco Canyon Water District				•		•		•				
Triunfo Sanitation District				•		•		•				
Tustin, City of				•		•		•				
Union Sanitary District				•		•		•				
Ventura Regional Sanitation District				•		•		•				
Ventura, City of	•	•	•	•	•			•	•			
Vista, City of				•		•			•			
Walnut Valley Water District				•				•				
Watsonville, City of	•			•		•	•	•				
West Basin Municipal Water District				•		•	•	•				
Western Municipal Water District				•				•				
Yorba Linda Water District				•		•		•				
Zone 7 Water Agency				•		•		•				



In 2014, the Las Virgenes Municipal Water District (District) engaged Raftelis to conduct a cost of service study for its potable water, recycled water, and sanitation (wastewater) enterprises. The District had previously determined water-budget-based rates for both potable and recycled water use would best serve its objective of increasing water use efficiency. The District then wanted to create a complementary structure for the sanitation enterprise based on the indoor water use allocation. The District approved a five-year water-budget-based rate schedule for fiscal years (FY) 2016-2020. In the following years, Raftelis worked with

the District to develop new capacity fees and miscellaneous fees as well as completing a cost allocation plan (CAP) that re-evaluated the cost of general administrative support to each enterprise. The District would now like to integrate the results of this CAP into its long-term financial plan and cost of service for each enterprise. The District wishes to conduct a study that continues the efforts of the 2014 study by conducting new analyses by update the financial plan, cost of service, and water-budget-based rates. Additionally, the District is considering conducting an education and outreach effort to educate customers about

water budgets and provide them with a bill calculation tool.

In summary, the District wishes to:

- Conduct cost of service analyses that clearly distinguish between fixed and variable costs while establishing the nexus between the cost to serve customers and the responsibility of each customer class, per Proposition 218 requirements.
- Develop a financial plan for each enterprise fund that meets the enterprises' revenue requirements, including operations and maintenance (O&M) and the District Infrastructure Improvement Plan (IIP),

- while adequately funding reserves in accordance with industry best practices and meeting debt coverage requirements.
- Develop rates for each enterprise that continue to utilize water budgets and meet the requirements of Propositions 26 and 218 and while encourage commercial growth in the District.
- Ensure clear and adequate conveyance of the important steps and takeaways of the study to the Board of Directors and the District's customers through Board meeting presentations, public outreach materials, and community outreach events.

## Scope of Services

#### SECTION A

#### General - Project Initiation, Project Management, and Data Collection

At the beginning of the study, Raftelis will prepare a detailed data request list that will identify the information needed to complete the various analyses for all phases of the study. This includes historical and current revenues, usage, expenses, reserve policies, billing and collection procedures, customer account information, capital improvement plans, estimated growth in the District, and any projected changes in demand either through growth or through reduced water demands. Prior to the kick-off meeting, Raftelis will perform a preliminary review of the initial data.

We believe a productive kick-off meeting is the most effective way to begin a study of this nature. It provides a forum to discuss goals and objectives, policies, and methodologies, to finalize the work schedule to ensure that the project progresses as smoothly as possible. Raftelis will prepare a meeting agenda and send it to the District prior to the meeting. Following the

meeting, Raftelis will prepare detailed meeting minutes.

An important part of the kickoff meeting will be a discussion of policy objectives. Raftelis will lead a policy discussion on the different objectives identified in this study. The District has determined that it would like revenues to be resilient with fluctuations in demand, by recovering more revenue through the fixed charge as a priority. The District has also indicated that it would like commercial rates to support business growth in the area. Additionally, the District would like to discuss adequate funding of reserves and the IIP. We will also discuss the District's reserve policies and examine the health of the reserves. We will incorporate any preliminary recommendations into the models during the study. We will also discuss any other applicable objectives such as affordability for essential use, minimization of customer impacts, simplicity and customer understanding.

Our management approach stresses transparency, communication, teamwork, objectivity, and accountability to meeting project objectives. Management responsibilities extend to general administrative duties such as client correspondence, billing, project documentation, and administration of the Study control plan. Throughout the study, the Raftelis Team will schedule interim status webinars to discuss project progress, the project schedule and present preliminary results. The Project Team will also conduct face-to-face meetings as outlined in the scope.

In every project, we implement a systematic program of quality assurance to ensure consistency, accuracy, and validity. Our proposed Technical Reviewer, Kevin Kostiuk, will ensure that the cost of service and rate model developed is functioning properly and is based on sound rate-making principles and standard industry practice. Additionally, he will ensure the report is prepared to address the nexus between costs and rates that meet the requirements of the San Juan Capistrano decision. The District can be confident that all of our work products will be of the highest quality and meet or exceed the standards that our clients have come to expect from Raftelis.

**Meeting:** One on-site kick-off meeting

**Deliverables:** Data request list; Kick-off meeting agenda, presentation

materials, and meeting minutes

#### SECTION B

#### **Cost of Services**

The cost of service analysis for the water enterprises will be based on industry standards and methodologies approved by the AWWA and described in their Manual M1 for the Water Enterprise and WEF's Manual of Practice No. 27 for the Sewer Enterprise (which were both co-authored by Raftelis staff). Cost allocations among customer classes for water will likely be based on the AWWA-approved Base-Extra Capacity approach, which focuses on the different usage patterns (or peaking factors) demonstrated by each customer class.

Since the District wishes to maintain its water-budget-based rates, we will first review customer class usage patterns and determine customer classifications. Raftelis will review and analyze historical water consumption, revenue records, and billing summaries to determine water usage and peaking characteristics by customer class or subclass. We will then estimate the relative responsibility of

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each customer class for each of the functional cost elements. This updated allocation will be based on billing summary data, other locally available data which may be applicable, and Raftelis's experience with other utilities exhibiting similar usage characteristics and patterns. It will also entail an assessment of the current budgets and their efficacy, including the commercial water rates' sensitivity to business growth. It will provide the basis for equitable cost allocations to each customer class or subclass.

Based on the revenue requirement identified in the financial plan, water expenses, such as the purchase, treatment, and distribution of water, are allocated to cost causation components, including supply, delivery, capacity-related costs, commodity costs, customer costs, conservation costs, and other direct and indirect costs consistent with industry standards. Wastewater expenses are allocated based on collection, strength, infiltration and inflow, and customer costs consistent with industry standards. The goal of this task is to equitably distribute the cost components to customer classes based on the cost responsibility of each. The result is the total cost to serve each customer class and is used as the basis to develop rates.

Throughout the potable water, recycled water, and sanitation cost allocation process, Raftelis will incorporate the District's policy considerations as well as current federal, state, and local rules and regulations such as Proposition 218.

Upon completion of this task, Raftelis will conduct a meeting with the District Board to review the preliminary results of the cost of service analysis. This meeting is detailed in Section F but mentioned here as the District has indicated the first meeting must align with the cost of service task. Any feedback or changes made in this meeting will be incorporated into the cost of service analysis following this discussion.

**Meetings:** Up to four webinars with District staff; One Board meeting included in Section F

**Deliverables:** Cost of service analysis for each enterprise in Microsoft Excel

#### SECTION C Financial Analysis

This important task will ascertain the additional revenue needed to ensure the financial integrity of the utilities. It will do so by projecting the District's existing rate revenue, other operating and non-operating revenues, debt service payments, and operating and capital expenses over a ten-year period for each enterprise. We will project future yearly O&M expenses, such as annual water purchase costs, salaries and benefits, power, and materials using District-approved inflationary assumptions. Raftelis' models include a dashboard that allows for easy manipulation of water demand assumptions for comparison of revenues under different usage scenarios. We can work with District staff to examine different demand scenarios under this legislation or any other scenarios that affect demand.

Raftelis will also review reserve policies initially discussed in the kick-off meeting to recommend appropriate reserve

balances that are consistent with industry standards for prudent fiscal management as well as the District's risk tolerance. The ten-year financial plan for each utility will also model the sources and uses of funds for each reserve. For a typical capital reserve, the sources of funds include cash reserves, debt proceeds, and grant funding. Modelling the yearly ending balance in the capital reserves allows staff to determine the rate impacts of various IIP scenarios and assess the proper use of debt and reserves to fund capital projects.

Raftelis will develop a tenyear cash flow analysis for the potable water, recycled water, and sewer services to determine the revenue adjustments needed for each while minimizing sharp rate fluctuations. The dashboard will allow users to vary assumptions, so the user can display the effects of revenue adjustments, capital financing through rates or debt, and reserve balances. A snapshot of a sample dashboard is shown on the following page. Several features of the model's dashboard include the ability to show or indicate:

- Revenue adjustments needed for the next five years to meet debt coverage, fund capital projects, and reserves
- Reserve balances and reserve targets as well as debt service coverage ratios (days cash on hand, reserve funding levels)
- Projected operating costs and revenue streams
- Operating cost break down (O&M, water purchases, debt payments)
- Different capital funding sources such as PAYGO (rate funding), debt financing

District staff can review and determine the most appropriate

financial plan and rate design. We design our models to be easy to understand and show the utility's sensitivity to various assumptions. This allows both staff and the Board to make informed decisions.

As with the cost of service analysis, we will conduct a meeting with the District Board to review the financial plan, receive feedback, and incorporate any changes into the model. This task is again detailed in Section F but mentioned here to align with the District's schedule of Board meetings.

Meetings: Up to four webinars with District staff; One Board meeting included in Section F Deliverables: Financial plan models for all three enterprises in Microsoft Excel

#### SECTION D Proposed Rates

#### Section D.1: Rate Design Rates Development

Raftelis will develop potable water, recycled water, and wastewater rate models based on the potable and recycled water use budgets, which take into account household size, indoor vs. outdoor usage, and other factors which determine essential needs. Specifically, the District has asked that the commercial budget-based rate structure be reviewed to encourage business growth. We will also review the recycled water tiers to see if adjustments can be made to account for the availability of recycled water during different seasons. As indicated by the District, excess recycled water during the winter is currently discharged into Malibu Creek while shortfalls in

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Raftelis will develop a customized financial model for the District that incorporates a dashboard to allow the District to easily run scenarios and see the impacts in real time.

Shown below is a sample dashboard that we developed for another project.



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supply during the summer are supplemented by potable water. The District would also like the rates to ensure the financial capacity to increase the reliability of the recycled water system. Finally, the District wishes to maintain the current sanitation rate structure and ensuring the rates reflect customers' demand on the system. While developed rates aim to ensure fiscal sustainability, additional focus will be placed on affordability for efficient usage and conservation.

The model will be developed with the flexibility to change tier widths based on water budget allocation factors. Water supply rates in tiers 1 (indoor allocation) and 2 (outdoor allocation) are associated with low water supply costs, and higher tiers are associated with the higher cost water sources that must be utilized to accommodate excess water use and conservation programs. This build-up cost approach for deriving the rate for each tier develops the rationale for the tiered rates and meets the requirements of Proposition 218.

#### Customer Impacts and Sensitivity Analysis

Rate adjustments stem from a change in the revenue requirement, and/or a change in the rate structure. The total rate adjustment can sometimes cause "rate shock" to customers. In our impact analysis graphics, we calculate bills at each level of usage assuming the new proposed rate structure was already in place to determine the "true" impact of the new rate structure. The customer impact analysis will include a series of tables and figures that show projected rate impacts by customer class at various levels of usage. Should the District decide to move forward with the cus-



tomer education and outreach in Section E, this customer impact analysis will provide a foundation to build an interactive online tool to assess bill impacts. Understanding customer impacts and taking corrective action, if necessary, allows us to design public outreach strategies for generating customer buy-in and successful rate implementation.

Upon completion of the rate model and customer impacts analysis, Raftelis will hold a third meeting with the District Board to discuss the proposed rate structure and five-year rate schedule. In this discussion, we will review any adjustments made to the water budgets as well as the nexus of the rates and the cost to serve the customer classes in compliance with Proposition 218.

**Meetings:** Up to four webinars with District staff; one Board meeting included in Section F

**Deliverables:** Rate models and customer bill impacts for all three enterprises in Microsoft Excel

#### Section D.2: Rate Survey

Raftelis will compare the District's current and proposed rates with five neighboring and comparable water and wastewater agencies. We will include recycled water rates where recycled water is available. Raftelis

regularly conducts such surveys for our clients. We also publish the nationally recognized biennial Water and Wastewater Rate Survey, which is co-published with AWWA, and the California-Nevada Water and Wastewater Rate Survey, which is co-published with the CA-NV AWWA. While a useful benchmark, it is worth noting that such comparisons only paint a partial picture since many factors, such as water sources, age and replacement of infrastructure, service area, and other local conditions affect the total cost of providing water and wastewater services.

Using the rate survey data, Raftelis will develop an Excel model to compare the total monthly water and wastewater bill amount of a typical residential customer within each agency. The adjustable inputs of the model are water usage and meter size. The model will include the appropriate graphs and figures that display the total bill of a typical customer in each agency.

Meetings: None Deliverables: Rate survey model in Microsoft Excel

#### Section D.3: Rate Study Report

To comply with Proposition 218 requirements, Raftelis will prepare a report documenting the rate study for all three services.

A preliminary study report will include an executive summary highlighting the major issues and decisions reached during development of rates. The main body of the report will include a brief physical description of each utility system, service area description, an overview of operation and maintenance expenses, the capital improvement plan, the financial plan, and the proposed rates. The report will also contain a discussion on rate structure selection, rate design assumptions, and methodologies used to develop the rates. The methodology describing the cost of service and rate calculations will be described in detail so that the nexus between costs and rates is clearly defined and understandable. The report will also incorporate the results of the rate survey. This first version will be submitted to staff for review and comment.

The resulting revised draft study report will be submitted for District and the District Attorney comments and edits. We will then incorporate these revisions into a draft final report that will be presented during the District Board rate workshops. After incorporating any final edits from District staff and the District Board, Raftelis will provide the final report. We will also provide a summary for public consumption.

**Meetings:** Three webinars with staff to discuss comments

Deliverables: Draft and

Final Report

### Section D.4: Proposition 218 Notice and Public Hearing

Raftelis will assist District staff to develop a Proposition 218 public hearing notice for mailing within the required 45-day noticing period prior to holding the public hearing. The notice will outline the proposed rate changes, explain the right to challenge the rates, and will meet and comply with all noticing requirements of Proposition 218. Raftelis will then present the study results at a public hearing. We will address the District Board and public questions and comments. Presentation materials will be provided to District staff beforehand for review prior to the public hearing.

Meetings: One Proposition 218 Public Hearing Deliverables: Proposition 218 public hearing notice; public hearing presentation materials

#### SECTION E

#### Customer Education and Outreach (Optional)

Ensuring that the District maintains and grows public trust as it conducts its rate analysis and implements the result is critical. At a time when the public is empowered by social media and fueled by skepticism of public processes, proactive public outreach is a key component in obtaining public understanding of rate analysis recommendations.

Proactive communication

increases community acceptance of rate changes, enhances credibility with stakeholders and policymakers, and builds awareness of the value of the service and the need for utility investments on behalf of the community. Anticipating changes to a water budget rate structure is a special communication challenge that requires experience in developing a messaging platform and tactics that will explain this change.

Raftelis can assist the District by developing a strategic communication plan that includes development of collateral educational material and online tools to ensure the public is informed and provided with tools and understands the impact to their individual bills.

#### Section E.1: Strategic Communications Plan

We will initiate this task with an on-site meeting with appropriate communications staff and project managers to understand communication needs, current environment and available communication channels. The strategic communication plan will accompany the final recommendations for rates and rate structure implementation and will include:

- Situation analysis that analyzes available customer data and includes an environmental scan of current issues that may impact customer rate change acceptance
- Stakeholder identification and public participation mapping to ensure key influencers are connected to the communication process and identifies special population communication needs (e.g. translation services)
- Communication channel

identification to provide a strategy for using the District's web site, social media, printed and electronic materials, bills, direct mail, newsletters and staffing resources if/where available

- Messaging platform to provide messages about why rates are changing, how the water budgets work, how the results will be implemented, and potential impacts to customers
- Internal communication strategies to ensure District staff are aware of the rate changes and can answer questions, provide talking points and FAQ's for customer service staff who will be working with customers directly
- Community outreach tactics for key influencers such as the business community, neighborhood associations, highly impacted customer groups, etc. For example, should the District decide to implement significant changes to methodology for commercial rates to account for business growth, we will develop an approach to commercial customers and their understanding of the anticipated growth and consequential increased charges
- Media relations and social media plan to determine how best to leverage the District's media relationships and social media platforms
- Written communication development for use in such materials as FAQ's, infographics, website updates, bill inserts, etc.

Meetings: One on-site meeting

**Deliverables:** Strategic Communications Plan

Section E.2:

#### **Online Bill Calculator**

It is difficult to calculate the bill impacts of rate structure changes for individual customers when water use varies so widely. Providing an online tool to help customers calculate their individual bill will improve customer understanding and acceptance of the changes and help customers plan ahead for changes to their monthly budget. Raftelis has technology consulting staff experienced in developing customer-facing interactive tools. They will work with the District's IT team and communications staff to develop a tool compatible with the District's website that can be used to easily calculate the changes resulting from water budget and rate structure changes. Users will be able to enter water consumption amounts from current or prior bills to see a comparison of charges under current and proposed rates. The bill calculator will be developed to look and feel similar to the District's overall website and source code will be delivered so that the District's IT staff can modify it in the future if necessary.

**Meetings**: Conference calls, web-based sharing as needed

**Deliverables:** Online Bill Calculator

#### Section E.3: Collateral Materials

Visual representation of proposed changes in an easy to understand and accessible format can often significantly improve customer understanding of rate structure changes that may impact customer bills. Raftelis has a professional design team experienced in developing infographics, fact sheets, brochures, presentations, event displays, etc. to assist with communicating rate

and rates structure changes in print, online or in person.

**Meetings:** Conference calls, web-based sharing as needed

**Deliverables:** To be determined in collaboration with District staff

#### SECTION F

#### Meeting Attendance

#### Section F.1: Board Meeting Attendance

As requested by the District, Raftelis will attend three Board of Directors' meetings occurring at the completion of each of Sections B, C, and D. We have noted this in the above sections' descriptions, but the cost of these meeting will be included in Section F. For each meeting, we will provide the Board an overview of the study and the current stage of the study. We will then discuss the results and recommendations as well as any other considerations for discussion at that stage of the study. We will also address any questions the Board may have and guide them through the model to show the effects of different scenarios when necessary.

Meeting(s): Three Board of Directors' meetings, one each at the conclusion of Sections B, C, and D Deliverables: Agenda, presentation materials, and

#### (Optional) Section F.2: Community Workshop

meeting minutes

During the Strategic Communications Plan initiation meeting, we will discuss with District staff the need to conduct community workshops in May-June 2020 and the format of the workshops. For the purposes of this scope and fee schedule, we are including the cost and framework for one community workshop that

is structured as an open house. However, we can work with staff to determine if and how many workshops are needed and different workshop formats (e.g. presentation and Q&A session).

Raftelis will conduct a community workshop to accommodate the need for public input from customers and local businesses. Allowing for discussions in a low-conflict setting benefits the participant by providing time for discussion based on presenting the recommended rate changes in a way that is specific to the audience and benefits the District by allowing for feedback from a diverse audience of attendees rather than just a vocal minority. We propose that the workshop be provided in an appropriate, easily accessible location in the service area. It is important to set an appropriate community promise related to these workshops that input will be documented and considered prior to deciding on the recommendations. Feedback also provides another way to refine messages and test materials with consumers prior to implementing rate changes.

Raftelis will prepare and facilitate the workshop including:

- Developing presentations/ display boards or an infographic for use in the workshop
- Conducting a dry-run with the staff who will interact with customers and respond to questions
- Staffing and facilitating workshop in partnership with District staff
- Gathering feedback from participants and compiling a report

Meetings: One in-person community workshop Deliverables: Presentation materials, feedback report

#### Online Bill Calculator Example

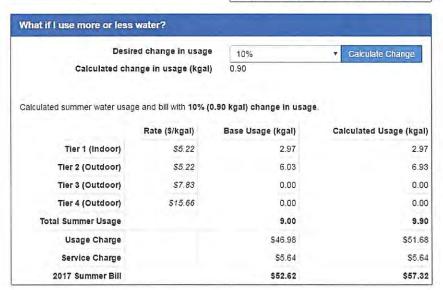
#### Average Monthly Bill Impacts for Single Family Residential - Medium User

A single family residential medium user is representative of a majority of Thornton residences and is defined by 3,500 square feet of irrigated outdoor landscape with annual water use of 133 kgal.

	2016	2017	Change	
Monthly Service Charge	\$5.64	\$5.64	\$0.00	
Average Monthly Water Costs	\$51.43	\$57.84	\$6.41	
Total Average Monthly Bill	\$57.07	\$63.48	\$6.41	

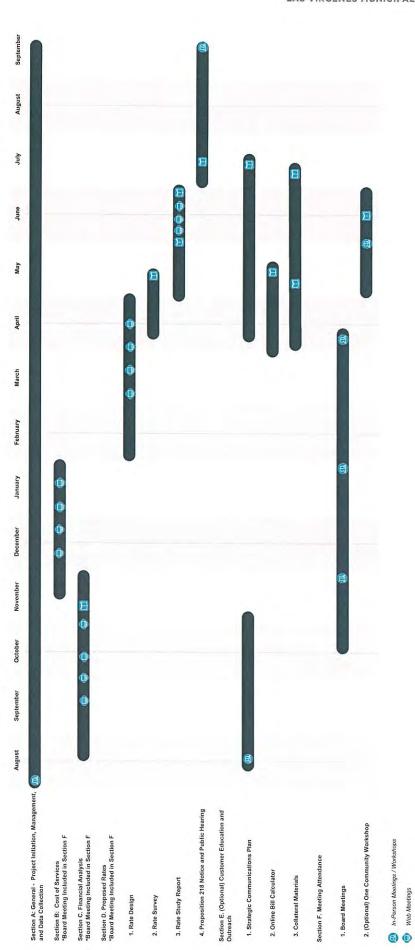
Account Inform	nation
Account Number	000001
Address	941 ASH CT, THORNTON, CO 80229-7718

Water Bill Co	mpariso	1	
	2016	2017	Change
Winter Bill	\$19.56	\$21.30	\$1.74
Summer Bill	\$47.40	\$52.62	\$5.22



# Schedule

Raftelis will complete the scope of services within the timeframe shown in the schedule below.



## Legal Issues and Potential Conflicts of Interest

Raftelis does not have any pending investigations or any enforcement, settlement, or disciplinary actions taken within the past five years against the firm or any proposed key personnel. We also do not have any conflicts of interest.

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## Costs

Raftelis proposes to complete the scope of work outlined in our work plan on a time-and-materials basis as shown below. The following cost proposal provides a breakdown of the estimated level of effort required for completing each task and the hourly billing rates for the personnel scheduled to complete the project.

				Hours									
Tasks	Webinars	Number of Meetings	РМ	TR	PR	sc	GD	Tech Services	Admin	Total	Total Fees &		
Section A: General - Project Initiation, Management, and Data Collection	0	1	12	0	0	16	0	0	6	34	\$7,407		
Section B: Cost of Services *Board Meeting Included in Section F	4	0	24	8	0	50	0	0	0	82	\$18,830		
Section C. Financial Analysis *Board Meeting Included in Section F	4	0	24	8	0	72	0	0	0	104	\$23,120		
Section D. Proposed Rates *Board Meeting Included in Section F													
1. Rate Design	4	0	24	12	0	80	0	0	0	116	\$25,560		
2. Rate Survey	0	0	4	2	0	8	0	0	0	14	\$3,220		
3. Rate Study Report	3	0	16	20	0	60	0	0	0	96	\$20,980		
4. Proposition 218 Notice and Public Hearing	0	1	12	2	2	4	0	0	0	20	\$5,442		
Section E. (Optional) Customer Education and Outreach													
1. Strategic Communications Plan	1.	0	0	32	6	0	0	0	1	39	\$8,630		
2. Online Bill Calculator	0	0	0	4	2	0	0	48	0	54	\$9,300		
3. Collateral Materials	0	0	0	8	2	0	15	0	0	25	\$4,285		
Section F. Meeting Attendance													
1. Board Meetings	0	3	36	0	0	9	0	0	0	45	\$12,921		
2. (Optional) One Community Workshop	0	1	8	16	6	0	6	0	1	37	\$9,097		
Total Estimated Meetings / Hours	16	6	160	112	18	299	21	48	8	666			
Hourly Billing Rate			\$295	\$210	\$240	\$185	\$125	\$155	\$80				
Total Professional Fees			\$47,200	\$23,520	\$4,320	\$55,315	\$2,625	\$7,440	\$640		\$141,060		

PM - Sanjay Gaur, Vice President

TR - Kevin Kostiuk, Senior Consultant

PR - Melissa Elliot, Director of Strategic

Communication Services

TR (Section E) - Katie Knoll, Senior Consultant

GD - Graphic Designer

TS - Technical Services

SC - Staff Consultants

Admin - Administrative Staff

\$141,060 **Total Expenses** \$7,733 Total Fees & Expenses \$148,793 Primary Sections/Tasks \$117,481 Optional Section E \$22,215 Optional Section F-2 \$9,097

134

**Total Fees** 

July 17, 2019

Donald Patterson
Director of Finance and Administration
Las Virgenes Municipal Water District
4232 Las Virgenes Road, Calabasas, CA 91302

Subject: Financial Analysis and Rate Study for Water, Sanitation, and Recycled Water Service Enterprise Funds

Dear Mr. Patterson:

Raftelis is pleased to present this proposal to assist Las Virgenes Municipal Water District in conducting a water, sanitation (wastewater), and recycled water financial analysis and rate study. Raftelis has the largest practice in California, and the country, specializing in financial and rate consulting for water, recycled water, and wastewater utilities. We are confident in our ability to develop a sustainable financial plan and optimal rate structure for each utility that will comply with Proposition 218 and other regulatory requirements, in addition to meeting the District's goals. We have assisted numerous agencies in California and across the United States with successfully implementing rate structures that fund capital infrastructure plans, with sensitivity to agencies' other policy concerns, such as meeting revenue requirements during periods of reduced consumption. We have conducted many similar studies including Western Municipal Water District, El Toro Water District, the City of Camarillo, and the City of Thousand Oaks.

Raftelis has assembled an experienced team to assist the District with this project. I, Sanjay Gaur, will serve as Project Manager and will ultimately be responsible for the project's success to your satisfaction. I have 20 years of public-sector consulting experience and have worked on over 200 rate studies throughout California in all aspects. I am widely considered in the industry to be one of the leading experts in the evaluation, development, and implementation of water budget-based rate structures and have conducted numerous such studies throughout the State. I have also authored a chapter about water budget rate structures in Manual M1: Principles of Water Rates, Fees and Charges, 7th Edition (Manual M1) and contributed to Water Rates, Fees, and the Legal Environment, 2nd Edition, published by the American Water Works Association (AWWA). Mr. Kevin Kostiuk will provide a critical review of the methodology and results and serve as Technical Reviewer. Mr. Kostiuk has 11 years of professional experience with a focus is in water cost of service, drought rate modelling, water budget rate structures, and groundwater fee analysis. Mr. Charles Diamond will serve as the Lead Analyst, conducting the data analysis to build the model. Staff consultants from our Los Angeles and Murrieta offices will assist us in conducting analyses and preparing project deliverables.

I have read, understood, and agree to all statements in this request for proposals and acknowledge receipt of all addendums/amendments as well as to the terms, conditions, and attachments referenced. Raftelis is committed to perform this study within the 18-month time period specified and understands that our proposal is a firm and irrevocable offer for 90 days. Raftelis is proud of the team and resources we can offer the District on this important engagement. If you have any questions, please do not hesitate to contact me.

Sincerely,

Sanjay Gaur, Vice President

Office: 213 262 9304 / Mobile: 213 327 4405 / Email: sgaur@raftelis.com

#### Project Understanding

In 2014, the Las Virgenes Municipal Water District (District) engaged Raftelis to conduct a cost of service study for its potable water, recycled water, and sanitation (wastewater) enterprises. The District had previously determined water-budget-based rates for both potable and recycled water use would best serve its objective of increasing water use efficiency. The District then wanted to create a complementary structures for sanitation enterprise based on the indoor water use allocation. The District approved a five-year rate water-budget-based schedule for fiscal years (FY) 2016-2020. In the following years, Raftelis worked with the District to develop new capacity fees and miscellaneous fees as well as completing a cost allocation plan (CAP) that re-evaluated the cost of general administrative support to each enterprise. The District would now like to integrate the results of this CAP into its long-term financial plan and cost of service for each enterprise. The District wishes to conduct a study that continues the efforts of the 2014 study by conducting new analyses that update the financial plan, cost of service, and water-budget-based rates. Additionally, the District is considering conducting an education and outreach effort to educate customers about water budgets and provide them a bill calculation tool.

#### In summary, the District wishes to:

- 1. Conduct Cost of Service analyses that clearly distinguishes between fixed and variable costs while establishing the nexus between the cost to serve customers and the responsibility of each class, per Proposition 218 requirements.
- 2. Develop a financial plan for each enterprise fund that meets the utilities' revenue requirements, including operations and maintenance (O&M) and the District Infrastructure Improvement Plan (IIP), while adequately funding reserves in accordance with industry best practices and meeting debt coverage requirements.
- 3. Develop rates for each enterprise that continue to utilize water budgets and meet the requirements of Propositions 26 and 218 and that encourage commercial growth in the District.
- 4. Ensure clear and adequate conveyance of the important steps and takeaways of the study to the Board of Directors and the District's customers through Board meeting presentations, public outreach materials, and community outreach events.

#### SECTION A: GENERAL – PROJECT INITIATION, PROJECT MANAGEMENT, AND DATA COLLECTION

At the beginning of the study, Raftelis will prepare a detailed data request list that will identify the information needed to complete the various analyses for all phases of the study. This includes historical and current revenues, usage, expenses, reserve policies, billing and collection procedures, customer account information, capital improvement plans, estimated growth in the District, and any projected changes in demand either through growth or through reduced water demands. Prior to the kick-off meeting, Raftelis will perform a preliminary review of the initial data, including the District's utility master plans and the Urban Water Management Plan.

We believe a productive kick-off meeting is the most effective way to begin a study of this nature. It provides a forum to discuss goals and objectives, policies, and methodologies, as well as finalize the work schedule to ensure that the project progresses as smoothly as possible. Raftelis will prepare a meeting agenda and send it to the District prior to the meeting. Following the meeting, Raftelis will prepare detailed meeting minutes.

An important part of the kick-off meeting will be a discussion of policy objectives. Raftelis will lead a policy discussion on the different objectives identified in this study. The District has determined that it would like revenues to be resilient with fluctuations in demand, by recovering more revenue through the fixed charge as a priority. The District has also indicated that it would like commercial rates to support business growth in the area. The Request for Proposals also indicates the District would like to discuss adequate funding of reserves and the IIP. We will also discuss the District's reserve policies and examine the health of the reserves. We will incorporate any preliminary recommendations into the models during the study. We will also discuss any other applicable objectives such as affordability for essential use, minimization of customer impacts, simplicity and customer understanding.

Our management approach stresses transparency, communication, teamwork, objectivity, and accountability to meeting project objectives. Management responsibilities extend to general administrative duties such as client correspondence, billing, project documentation, and administration of the Study control plan. Throughout the study, the Raftelis Team will schedule interim status webinars to discuss project progress, the project schedule and present preliminary results. The Project Team will also conduct face-to-face meetings as outlined in the scope.

In every project, we implement a systematic program of quality assurance to ensure consistency, accuracy, and validity. Our proposed Technical Reviewer, Kevin Kostiuk, will ensure that the cost of service and rate model developed is functioning properly and is based on sound rate-making principles and standard industry practice. Additionally, he will ensure the report is prepared to address the nexus between costs and rates that meet the requirements of the San Juan Capistrano decision. This will guarantee that all of our work products will be of the highest quality and meet or exceed the standards that our clients have come to expect from Raftelis.

**Meetings:** One on-site kick-off meeting

Deliverables: Data request list; Kick-off meeting agenda, presentation materials, and meeting minutes

#### SECTION B. COST OF SERVICES

The cost of service analysis for the water enterprises will be based on industry standards and methodologies approved by the AWWA and described in their Manual M1 for the Water Enterprise and WEF's *Manual of Practice No. 27* for the Sewer Enterprise (which were both co-authored by Raftelis staff). Cost allocations among customer classes for water will likely be based on the AWWA-approved Base-Extra Capacity approach, which focuses on the different usage patterns (or peaking factors) demonstrated by each customer class.

Since the District wishes to maintain its water-budget-based rates, we will first review customer class usage patterns and determine customer classifications. Raftelis will review and analyze historical water consumption, revenue records, and billing summaries to determine water usage and peaking characteristics by customer class or subclass. We will then estimate the relative responsibility of each customer class for each of the functional cost elements. This updated allocation will be based on billing summary data, other locally available data which may be applicable, and Raftelis's experience with other utilities exhibiting similar usage characteristics and patterns. It will also entail an assessment of the current budgets and their efficacy, including the commercial water rates' sensitivity to business growth. It will provide the basis for equitable cost allocations to each customer class or subclass.

Based on the revenue requirement identified in the financial plan, water expenses, such as the purchase, treatment, and distribution of water, are allocated to cost causation components, including supply, delivery, capacity-related costs, commodity costs, customer costs, conservation costs, and other direct and indirect costs consistent with industry standards. Wastewater expenses are allocated based on collection, strength, infiltration and inflow, and customer costs consistent with industry standards. The end goal of this task is to equitably distribute the cost components to customer classes based on the cost responsibility of each. The result is the total cost to serve each customer class and is used as the basis to develop rates.

Throughout the potable water, recycled water, and sanitation cost allocation process, Raftelis will incorporate the District's policy considerations as well as current federal, state, and local rules and regulations such as Proposition 218.

Upon completion of this task, Raftelis will conduct a meeting the District Board to review the preliminary results of the cost of service analysis. This meeting is detailed in Section F but mentioned here as the District has indicated the first meeting must align with the Cost of Service task. Any feedback or changes made in this meeting will be incorporated into the cost of service analysis following this discussion.

Meetings: Up to four webinars with District staff; One Board meeting included in Section F

**Deliverables:** Cost of service analysis for each enterprise in Microsoft Excel

#### **SECTION C. FINANCIAL ANALYSIS**

This important task will ascertain the additional revenue needed to ensure the financial integrity of the utilities. It will do so by projecting the District's existing rate revenue, other operating and non-operating revenues, debt service payments, and operating and capital expenses over a ten-year period for each enterprise. We will project future yearly O&M expenses, such as annual water purchase costs, salaries and benefits, power, and materials using District-approved inflationary assumptions. Raftelis' models include a dashboard that allows for easy manipulation of water consumption assumptions for comparison of revenues under different usage scenarios. We can work with District staff to examine different demand scenarios under this legislation or any other scenarios that affect demand.

Raftelis will also review reserve policies initially discussed in the kick-off meeting to recommend appropriate reserve balances that are consistent with industry standards for prudent fiscal management as well as the District's risk tolerance. The ten-year financial plan for each utility will also model the sources and uses of funds for each reserve. For a typical capital reserve, the sources of funds include cash reserves, debt proceeds, and grant funding. Modelling the yearly ending balance in the capital reserves allows staff to determine the rate impacts of various IIP scenarios and assess the proper use of debt and reserves to fund capital projects.

Raftelis will develop a ten-year cash flow analysis for the potable water, recycled water, and sewer services to determine the revenue adjustments needed for each while minimizing sharp rate fluctuations. The dashboard will allow users to vary assumptions, so the user can display the effects of revenue adjustments, capital financing through rates or debt, and reserve balances. A snapshot of a sample dashboard is shown on the following page. Several features of the model's dashboard include the ability to show or indicate:

1. Revenue adjustments needed for the next five years to meet debt coverage, fund capital projects, and reserves

- Reserve balances and reserve targets as well as debt service coverage ratios (days cash on hand, reserve funding levels)
- 3. Projected operating costs and revenue streams
- Operating cost break down (O&M, water purchases, debt payments)
- 5. Different capital funding sources such as PAYGO (rate funding), debt financing

District staff can review and determine the most appropriate financial plan and rate design. We design our models to be easy to understand and show the utility's sensitivity to various assumptions. This allows both staff and the Board to make informed decisions.



As with the cost of service analysis, we will conduct a meeting with the District Board to review the financial plan, receive feedback, and incorporate any changes into the model. This task is again detailed in Section F but mentioned here to align with the District's schedule of Board meetings.

Meetings: Up to four webinars with District staff; One Board meeting included in Section F

Deliverables: Financial plan models for all three enterprises in Microsoft Excel

#### **SECTION D. PROPOSED RATES**

#### Section D.1: Rate Design

#### **Rates Development**

Raftelis will develop potable water, recycled water, and wastewater rate models based on the potable and recycled water use budgets, which take into household size, indoor vs. outdoor usage, and other factors which determine essential needs. Specifically, the District has asked that the commercial budget-based rate structure be reviewed to encourage business growth. We will also review the recycled water tiers to see if adjustments can be made to take into account the availability of recycled water during different seasons. As indicated by the District, excess recycled water during the winter is currently discharged into Malibu Creek while shortfalls in supply during the summer are supplemented by potable water. The District would also like the rates to ensure the financial capacity to increase the reliability of the recycled water system. Finally, the District wishes to maintain the current sanitation rate structure and ensuring the rates reflect customers' demand on the system. While developed rates aim to ensure fiscal sustainability, additional focus will be placed on affordability for efficient usage and conservation.

The model will be developed with the flexibility to change tier widths based on water budget allocation factors. Water supply rates in tiers 1 (indoor allocation) and 2 (outdoor allocation) are associated with low water supply costs, and higher tiers are associated with the higher cost water sources that must be utilized to accommodate excess water use and conservation programs. This build-up cost approach for deriving the rate for each tier develops the rationale for the tiered rates and meets the requirements of Proposition 218.

#### **Customer Impacts and Sensitivity Analysis**

Rate adjustments stem from a change in the revenue requirement, and/or a change in the rate structure. The total rate adjustment can sometimes cause "rate shock" to customers. In our impact analysis graphics, we calculate bills at each level of usage assuming the new proposed rate structure was already in place to determine the "true" impact of the new rate structure. The customer impact analysis will include a series of tables and figures that show projected rate impacts by customer class at various levels of usage. Should the District decide to move forward with the customer education and outreach in Section E, this customer impact analysis will provide a foundation to build an interactive online tool to assess bill impacts. Understanding customer impacts and taking corrective action, if necessary, allows us to design public outreach strategies for generating customer buy-in and successful rate implementation.

Upon completion of the rate model and customer impacts analysis, Raftelis will hold a third meeting with the District Board to discuss the proposed rate structure and five-year rate schedule. The discussion will include a focus on the incorporation of water budgets to the District's rate design, as well as compliance with Propositions 26 and 218 in establishing the relationship with the cost of service analysis.

**Meetings:** Up to four webinars with District staff; One Board meeting included in Section F **Deliverables:** Rate models and customer bill impacts for all three enterprises in Microsoft Excel

#### **Section D.2: Rate Survey**

Raftelis will compare the District's current and proposed rates with five neighboring and comparable water and wastewater agencies. We will include recycled water rates where recycled water is available. While a useful benchmark, it is worth noting that such comparisons only paint a partial picture since many factors, such as water sources, age and replacement of infrastructure, service area, and other local conditions affect the total cost of providing water and wastewater services. Raftelis regularly conducts such surveys for our clients. We also publish the nationally recognized biennial *Water and Wastewater Rate Survey*, which is co-published with AWWA, and the *California-Nevada Water and Wastewater Rate Survey*, which is co-published with the CA-NV AWWA.

Using the rate survey data, Raftelis will develop an Excel model to compare the total monthly water and wastewater bill amount of a typical residential customer within each agency. The adjustable inputs of the model are water usage and meter size. The model will include the appropriate graphs and figures that display the total bill of a typical customer in each agency as illustrated above

Meetings: None

Raftelis Deliverables: Rate survey model in Microsoft Excel

#### Section D.3: Rate Study Report

To comply with Proposition 218 requirements, Raftelis will prepare a rate study report documenting the rate study for all three services. A preliminary study report will include an executive summary highlighting the major issues and decisions reached during development of rates. The main body of the report will include a brief physical description of each utility system, service area description, an overview of operation and maintenance expenses, the capital improvement plan, the financial plan, and the proposed rates. The report will also contain a discussion on rate structure selection, rate design assumptions, and methodologies used to develop the rates. The methodology describing the cost of service and rate calculations will be described in detail so that the nexus between costs and rates is clearly defined and understandable. The report will also incorporate the results of the rate survey. This first version will be submitted to staff for review and comment.

The resulting revised draft study report will be submitted for District and the District Attorney comments and edits. We will then incorporate these revisions into a draft final report that will be presented during the District Board rate workshops. After incorporating any final edits from District staff and the District Board, Raftelis will provide the final report. We will also provide a summary for public consumption.

Meetings: Three webinars with staff to discuss comments

**Deliverables:** Draft and Final Report

#### Section D.4: Proposition 218 Notice and Public Hearing

Raftelis will assist District staff to develop a Proposition 218 public hearing notice for mailing within the required 45-day noticing period prior to holding the public hearing. The notice will outline the proposed rate changes, explain the right to challenge the rates, and will meet and comply with all noticing requirements of Proposition 218. Raftelis will then present the study results at a Proposition 218 hearing. We will address the District Board and public questions and comments. Presentation materials will be provided to District staff beforehand for review prior to the public hearing.

Meetings: One Proposition 218 Public Hearing

**Deliverables:** Proposition 218 public hearing notice; public hearing presentation materials

#### **SECTION E. CUSTOMER EDUCATION AND OUTREACH (OPTIONAL)**

Ensuring that the District maintains and grows public trust as it conducts its rate analysis and implements the result is critical. At a time when the public is empowered by social media and fueled by skepticism of public processes, proactive public outreach is a key component in obtaining public understanding of rate analysis recommendations.

Proactive communication increases community acceptance of rate changes, enhances credibility with stakeholders and policymakers, and builds awareness of the value of the service and the need for utility investments on behalf of the community. The District has a strong communications foundation to work from. Anticipating changes to a water budget rate structure is a special communication challenge that requires experience in developing a messaging platform and tactics that will explain this change.

Raftelis can assist the District by developing a strategic communication plan that includes development of collateral educational material and online tools to ensure the public is informed and provided with tools to understand the impacts to their individual bills.

#### Section E.1: Strategic Communications Plan

We will initiate this task with an on-site meeting with appropriate communications staff and project managers to understand communication needs, current environment and available communication channels. The strategic communication plan will accompany the final recommendations for rates and rate structure implementation and will include:

- 1. **Situation analysis** that analyzes available customer data and includes an environmental scan of current issues that may impact customer rate change acceptance.
- 2. **Stakeholder identification and public participation mapping** to ensure key influencers are connected to the communication process and identifies special population communication needs (e.g. translation services).
- 3. **Communication channel identification** to provide a strategy for using the District's web site, social media, printed and electronic materials, bills, direct mail, newsletters and staffing resources if/where available.
- 4. **Messaging platform** to provide messages about why rates are changing, how the new rate structure and water budgets work, how the results will be implemented, and potential impacts to customers.
- 5. **Internal communication strategies** to ensure District staff are aware of the rate changes and can answer questions, provide talking points and FAQ's for customer service staff who will be working with customers directly.
- 6. **Community outreach tactics** for key influencers such as the business community, neighborhood associations, highly impacted customer groups, etc. For example, should the District decide to implement significant changes to methodology for commercial rates to account for business growth, we will develop an approach to commercial customers and their understanding of the anticipated growth and consequential increased charges.
- 7. **Media relations and social media plan** to determine how best to leverage the District's media relationships and social media platforms.
- 8. **Written communication development** for use in such materials as FAQ's, infographics, website updates, bill inserts, etc.

Meetings: One on-site meeting

**Deliverables**: Strategic Communications Plan

#### Section E.2: Online Bill Calculator

It is difficult to calculate the bill impacts of rate structure changes for individual customers when water use varies so widely. Providing an online tool to help customers calculate their individual bill will improve customer understanding and acceptance of the changes and help customers plan ahead for changes to their monthly budget. Raftelis has technology consulting staff experienced in developing customer-facing interactive tools. They will work with the District's IT team and communications staff to develop a tool compatible with the District's website that can be used to easily calculate the changes resulting from water budget and rate structure changes. Users will be able to enter water consumption amounts from current or prior bills to see a comparison of charges under current and proposed rates. The bill calculator will be developed to look and feel similar to the

District's overall website and source code will be delivered so that the District's IT staff can modify it in the future if necessary.

Meetings: Conference calls, web-based

sharing as needed

**Deliverables**: Online Bill Calculator

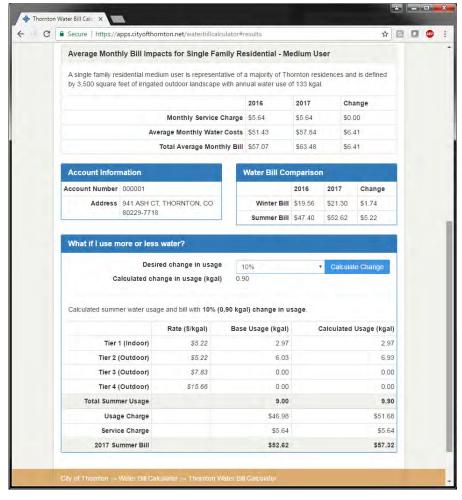
#### **Section E.3: Collateral Materials**

Visual representation of proposed changes in an easy to understand and accessible format can often significantly improve customer understanding of rate structure changes that may impact customer bills. Raftelis has professional design team experienced in developing infographics, fact sheets, brochures, presentations, event displays, etc. to assist with communicating rate and rates structure changes in print, online or in person.

Meetings: Conference calls, web-based

sharing as needed

Deliverables: To be determined in collaboration with District staff



#### SECTION F. MEETING ATTENDANCE

As requested by the District, Raftelis will attend three Board of Directors' meetings occurring at the completion of each of Sections B, C, and D. We have noted this in the above sections' descriptions, but the cost of these meeting will be included in Section F. For each meeting, we will provide the Board an overview of the study and the current stage of the study. We will then discuss the results and recommendations as well as any other considerations for discussion at that stage of the study. We will also address any questions the Board may have and guide them through the model to show the effects of different scenarios when necessary.

Meetings: Three Board of Directors' meetings, one each at the conclusion of Sections B, C, and D.

**Deliverables**: Agenda, presentation materials, and meeting minutes

#### Project Fees

Raftelis proposes to complete the scope of work outlined below on a time-and-materials basis with a not-to-exceed cost of \$99,141, not including the optional task. If the District decides to proceed with optional task Section E, Customer Education and Outreach, it is an additional \$22,215. The following work plan provides a breakdown of the estimated level of effort required for completing each task described and the hourly billing rates for the personnel scheduled to complete the project.

			Hours								
Tasks	Webinars	Number of Meetings	PM	TR	PR	sc	GD	Tech Services	Admin	Total	Total Fees & Expenses
Section A: General - Project Initiation, Management, and Data Collection	0	1	8	0	0	12	0	0	6	26	\$5,407
Section B: Cost of Services *Board Meeting Included in Section F	4	0	20	8	0	24	0	0	0	52	\$12,540
Section C. Financial Analysis *Board Meeting Included in Section F	4	0	16	8	0	50	0	0	0	74	\$16,390
Section D. Proposed Rates *Board Meeting Included in Section F											
1. Rate Design	4	0	16	8	0	80	0	0	0	104	\$22,240
2. Rate Survey	0	0	4	2	0	8	0	0	0	14	\$3,220
3. Rate Study Report	3	0	16	20	0	60	0	0	0	96	\$20,980
4. Proposition 218 Notice and Public Hearing	0	1	12	2	2	4	0	0	0	20	\$5,442
(Optional) Section E. Customer Education and Outreach											
1. Strategic Communications Plan	1	0	0	32	6	0	0	0	1	39	\$8,630
2. Online Bill Calculator	0	0	0	4	2	0	0	48	0	54	\$9,300
3. Collateral Materials	0	0	0	8	2	0	15	0	0	25	\$4,285
Section F. Meeting Attendance	0	3	36	0	0	9	0	0	0	45	\$12,921
Total Estimated Meetings / Hours	16	5	128	92	12	247	15	48	7	549	
Hourly Billing Rate  Total Professional Fees			\$295 \$37,760	\$210 \$19,320	\$240 \$2,880	\$185 \$45,695		\$155 \$7,440	\$80 \$560		\$115,530
			ψ37,700	ψ13,320	\$2,000	ψ+0,000	\$1,073	ψ1, <del>140</del>	<b>4300</b>		<b>\$113,330</b>
PM - Sanjay Gaur, Vice President TR - Kevin Kostiuk, Senior Consultant PR - Melissa Elliot, Manager										Total Fees	\$115,530
TR (Section E) - Katie Knoll, Senior Consultant GD - Graphic Designer									Tota	al Expenses	\$5,826
TS - Technical Services SC - Staff Consultants Admin - Administrative Staff									Total Fees	& Expenses	\$121,356
									Primary Sec	tions/Tasks	
									Option	nal Section E	



August 6, 2019 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject: Financial Advisory Services: Award

#### **SUMMARY:**

On May 15, 2019, the District circulated a Request for Proposals for financial advisory services. Proposals were received from the following firms: Piper Jaffray; Bartel Wells Associates; Columbia Capital Municipal Advisors; Fieldman, Rolapp & Associates, Inc.; NHA Advisors and PFM Financial Advisors LLC. Staff recommends accepting the proposal from Piper Jaffray based on their extensive experience with debt financing, expertise in providing financial advisory services, and focus on the water and wastewater industries.

## RECOMMENDATION(S):

Accept the proposal from Piper Jaffray, and authorize the General Manager to execute a fiveyear professional services agreement, in the amount of \$100,000, with one five-year renewal option for financial advisory services.

#### **FISCAL IMPACT:**

Yes

#### **ITEM BUDGETED:**

Yes

#### FINANCIAL IMPACT:

The total cost of this action is \$100,000. Sufficient funds for the work are available in the adopted Fiscal Year 2019-20. As specific financing strategies are developed, additional funding for implementation and execution of the strategies will likely be required.

#### DISCUSSION:

The District has a long-standing financial policy that favors a pay-as-you-go program for funding capital improvements. As a result, the District has only a single outstanding debt issuance with a final maturity in November 2023. These bonds have an optional redemption provision that is executable on or after November 1, 2019. Staff recommends obtaining the assistance of a financial advisor to assist in evaluating the merits of executing the redemption option.

In addition, the District has two large projects that will likely require some form of debt financing in accordance with District Financial Policy 4, Financing Alternatives: the Pure Water Project Las Virgenes-Triunfo and the Automated Meter Reading/Advanced Metering Infrastructure (AMR/AMI) Project. Staff proposes to utilize the expertise of a financial advisor to recommend the best financing strategy for these projects. The scope of work includes developing financing strategies, analyzing options to enhance the District's AA/stable credit rating; evaluating the impact of project financing options on the District's credit rating; developing and managing competitive processes to secure identified financing; providing assistance with state- and federally-subsidized loan programs; and assisting with long-term strategic financial planning.

#### Consultant Selection:

One March 15, 2019, the District circulated a Request for Proposals (RFP) for financial advisory services and advertised the RFP on the California Society of Municipal Finance Officers (CSMFO) and District websites. Six timely proposals and one late proposal were received. The six proposals received timely were evaluated by staff based on technical qualifications, experience and hourly rates. Based on the results of the evaluation, the three top ranked firms were interviewed: Piper Jaffray, NHA Advisors and PFM Financial Advisors LLC. Staff recommends accepting the proposal from Piper Jaffray (copy attached) to serve as the District's financial advisor.

Piper Jaffray and its proposed team have extensive experience with public financing for the water and wastewater industries, the State Revolving Fund Program (SRF), Water Infrastructure Finance and Innovation Act (WIFIA), debt issuance and other financial advisory services. The team has provided financial services to numerous state and local water agencies within California and throughout the U.S. In addition, the team demonstrated expertise in current financing trends and the ability to successfully accomplish the scope of work.

#### **Proposed Contract Structure:**

Due to the nature of financial advisory services, the benefits of having continuity through project planning and debt issuance and to ensure that continuing disclosures and other bond covenants are met, it is recommended that the agreement for the financial advisor be for a five-year term with one five-year renewal option. If at any time the selected firm fails to fulfill the terms of the agreement or meet the District's needs, the contract can be terminated by the District. The level-of-effort to complete the scope of work is largely dependent on the District's selection of financing strategies. As a result, the amount of the initial term of the agreement is recommended to be set at \$100,000 for budgetary reasons. As specific financing strategies are developed, additional funding for implementation and execution of the strategies will likely be required.

#### **GOALS:**

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Donald Patterson, Director of Finance and Administration

# **ATTACHMENTS:**

Proposal by Piper Jaffray

# Las Virgenes Municipal Water District

# Request for Proposals – Financial Advisory Services



June 21, 2019



LOS ANGELES | ORANGE COUNTY | SAN FRANCISCO | SAN DIEGO | SACRAMENTO | MINNEAPOLIS | NEW YORK

Tom Innis, Managing Director 50 California Street, Ste. 3100 San Francisco, CA 94111 415-616-1635 thomas.p.innis@pjc.com Greg Swartz, Senior Vice President 2525 E. Camelback Road, Ste. 925 Phoenix, AZ, 85016 602- 808-5426 greg.g.swartz@pjc.com

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Attachment A: Advisor Transaction Experience

Attachment B: CSMFO Article

Attachment C: Series 2009 Refunding Detail

Attachment D: Planning Model

#### Required Regulatory Disclosure

We are providing this material to provide you with certain regulatory disclosures as required by the Municipal Securities Rulemaking Board. As part of our services, Piper Jaffray may provide advice concerning the structure, timing, terms, and other similar matters concerning an issue of municipal securities that Piper Jaffray is underwriting or placing. However, Piper Jaffray intends to serve as an underwriter or placement agent and not as a financial advisor to you in this transaction; and the primary role of Piper Jaffray is to purchase securities for resale to investors or arrange for the placement of securities in an arm's-length commercial transaction between you and Piper Jaffray. Piper Jaffray has financial and other interests that differ from your interests.



June 21, 2019

50 California St., Suite 3100, San Francisco, CA 94111
Tel: (415) 616 1635 Fax: (415) 616 1620
Piper Jaffray & Co. Since 1895. Member SIPC and FINRA.

Donald Patterson,
Director of Finance & Administration
Las Virgenes Municipal Water District
4232 Las Virgenes Road, Calabasas, CA, 91302

#### Re: Response to Request for Proposal for Financial Advisory Services

On behalf of Piper Jaffray, we are pleased to submit our response to the Las Virgenes Municipal Water District's (District) Request for Proposal for Financial Advisory Services. We believe our firm's strengths provide significant advantages to the District, which include the following:

#### Piper Jaffray is a leading Public Finance Focused Investment Bank

In 2018, Piper Jaffray was the only firm in the U.S. to rank in the **Top Ten** as financial advisor, placement agent, and underwriter. With advising, placing, and underwriting combined, Piper Jaffray lead or participated in more public finance transactions than any other firm in 2018. Public Finance is both essential to and visible within Piper Jaffray: Public Finance is essential to our business as it accounts for more than 30% of total revenues for Piper Jaffray. It is also visible as Frank Fairman, Head of Public Finance, is a member of the firm's leadership team and reports directly to our CEO.

#### **California Presence & Expertise**

We maintain five public finance offices across California to support our advising and underwriting clients. Since 2014, we advised, placed, or underwrote 891 California issues for over \$58.2 billion. We understand local governments, their strengths and challenges, and how to structure rated bonds that meet market expectations. As is the case with other states we serve, the combination of our local presence and our Water & Wastewater Funding Group will prove beneficial to the District.

#### **Water & Wastewater Funding Group**

We serve a range of clients across the U.S. including SRFs, wholesale and retail utility providers, combined utilities, stand-alone utilities, and projects involving combinations of local, SRF, USDA and WIFIA funding.

We have been fortunate to be a leader in the WIFIA program, having served as a lead advisor/underwriter for King County, San Francisco, DeKalb County (GA), San Juan Water District, Hillsboro (OR) and continue to play a leading role as the 3<sup>rd</sup> funding round moves forward. Since 2014, we have advised, placed, and senior managed 441 utility issues for more than \$26.2 billion.

#### **Valid Proposal**

We acknowledge and accept the General Requirements outlined within Section D of the District's RFP. This proposal remains valid for 90 days. Thank you for your consideration.

Sincerely,

Tom Innis, Managing Director 50 California Street, Ste. 3100 San Francisco, CA 94111 (415) 616-1635

thomas.p.innis@pic.com

Plann

ztroubspark

Greg Swartz, Senior Vice President 2525 E. Camelback Road, Ste. 925 Phoenix, AZ 85016 (602) 808-5426 greg.g.swartz@pic.com

#### **Overview**

Our advisory team will be led by Piper Jaffray's Water & Wastewater Funding Group as led by Tom Innis and Greg Swartz. Our team is dedicated to advising, consulting, placing, planning, and underwriting water and sewer utilities across the U.S. either as the lead contacts for clients or co-lead alongside other Piper Jaffray personnel.

Tom and Greg have over 55 years of combined public finance experience. They routinely coordinate debt issues and other "assembly line"/non-bond related projects for clients. As one of several examples of our unique capabilities, prior to Piper Jaffray, Greg Swartz served as executive director for Arizona's Water Infrastructure Finance Authority, served as chief financial officer for the Indiana Finance Authority, and issued bonds for the State of Illinois – enabling him to provide unique insights and input as an advisor, banker, consultant, issuer, manager, and policy maker.

#### **Organizational Chart & Responsibilities**

In addition to our leading our Water & Wastewater Funding Group, Tom and Greg will coordinate and rely upon a range of personal and resources from across the U.S. as summarized below.

Water & Wastewater Funding Group			Corporate Support 8	Resource Allocation
Tom Innis		Greg Swartz	Frank Fairman	Mark Adler
San Francisco		Phoenix	Public Finance Director	California Manager
			Minneapolis	LA/El Segundo
Jessica Burst	Tony Rapista	Jake Smith	·	•
LA / El Segundo	LA / Él Segundo	Denver	Debt Structuring &	Marketing Support
			Chris Bessette	Joanna Brody
Rating & Credit Sup	port Inves	tments & Derivatives	California Underwriting	Variable/Short-Term
Yaffa Ratter		Tom LaFleur	San Francisco	New York
New York		Chicago		
		•	Matt Morell	John Pellicci
Pete Stettler			Placements	Special Situations
Chicago			Minneapolis	Minneapolis

#### Resumes ~ Water & Wastewater Funding Group

#### **Tom Innis, Managing Director**

Role: Co-Lead Advisor & Day-to-Day Contact

Tom has over 20 years of public finance experience focused on water/wastewater utilities. As an Army veteran, Tom takes great pride in bringing his ethics of duty and honor to his clients. Tom's senior managed experience exceeds \$12 billion, primarily in water/wastewater utilities, including serving the Contra Costa Water District, East Bay MUD, Metropolitan Water District, and Sacramento Regional County Sanitation District, to name a few. Over the past five years, Tom has led 26 California water/sewer issues for more than \$820 million. Prior to Piper Jaffray, Tom managed water/sewer finance groups at two previous firms, both of which achieved top three California rankings. Tom holds a B.S. from the United States Military Academy at West Point and an MBA from The Wharton School, University of Pennsylvania. He holds Series 7, 50 and 63 licenses.

#### Greg Swartz, Senior Vice President Role: Co-Lead Advisor & Day-to-Day Contact

With over 25 years of public finance experience, Greg focuses on water, wastewater, and SRF financings and provides unique insights as an issuer, advisor and banker. Greg's expertise includes creating or modifying structures/indentures for water/sewer utilities and SRFs in CA, AZ, IA, IL, IN, MO, MT, ND, NM, NV, and TX, among others. He has served as lead or co-lead advisor/banker/issuer on 175 utility and SRF financings worth over \$17.5 billion. Greg holds a bachelor's degree in economics, a master's in finance, and Series 7, 50, and 63 licenses.

# **Tony Rapista, Vice President**Role: Execution, Quantitative, Models, Cash Flows, Structures Tony will coordinate quantitative analysis and issue execution. He has over 25 years of experience in the municipal securities industry including 9 years in public finance. Tony has over \$3 billion water/sewer financing experience including transactions for CIEDB, California DWR, Honolulu, Davis, Woodland-Davis CWA, Morgan Hill, La Habra Utility, and Palmdale Water District. Tony holds bachelors in economics from University of California – Irvine and Series 7 and 63 licenses.

Jessica Burst, Associate Role: Execution, Quantitative, Models, Cash Flows, Structures Jessica will provide quantitative analysis and issue execution. Prior to joining Piper Jaffray in 2019, Jessica spent four years at PIMCO where she specialized in business development/strategy, marketing, and serving public pension clients. Jessica holds a bachelor's degree from the University of Southern California, has passed the CFA Level I exam, and holds Series 7 and 63 licenses.

#### Resumes ~ California Debt Struturing & Marketing Support

Chris Bessette, Managing Director Role: California Marketing, Pricing, Underwriting Support Chris manages our San Francisco-based underwriting resources and will provide insights and oversight when the District issues competitive and negotiated public offerings. Chris has served as lead underwriter for 459 California issues worth \$11.7 billion since 2014 making him one of the most active underwriters within the state, as such he understands investor preferences and market perception of California credits/issuers. Under his leadership, Piper Jaffray perennially ranks as one of the top California underwriters. The District can leverage Chris to optimize the structure, marketing, and pricing of public offerings.

#### **Resumes ~ Ratings & Credit Support**

Yaffa Rattner, Managing Director
Yaffa's primary responsibilities include assessing and reviewing municipal transactions underwritten by Piper Jaffray to ensure investor protection while obtaining the highest possible rating and lowest cost of borrowing. Yaffa also analyzes a spectrum of credits in the secondary market to optimize trading decisions and provide market feedback to clients. Yaffa will assist our team to interact with rating agencies, address water enterprise downgrades, and to optimize ratings for the stormwater enterprise.

Peter Stettler, Principal Role: Ratings Interaction & Investor Presentation

Peter brings 25 years of experience in credit research and consulting to Piper Jaffray, where he supports the firm's sales and public finance efforts by focusing on general credit issues affecting the market. Prior to Piper Jaffray, Peter worked in ratings for Fitch; in the municipal research department for BMO Capital Markets and EVEREN Securities; and the finance practice of Ricondo & Associates

Through the course of his career Peter has supported several water/sewer utility issuers including Chicago, the Metropolitan Water Reclamation District of Greater Chicago, and the Milwaukee Metropolitan Sewerage District.

Peter is a frequent speaker at industry conferences and has been recognized by his peers for his work, including the Award of Excellence from the National Federation of Municipal Analysts (NFMA) and being named as a Second Team All-American Analyst. Peter has on the boards of the National Federation of Municipal Analysts and the Chicago Municipal Analyst Society, and has been active in various industry groups including the Governmental Accounting Standards Board.

Section 2: References

LVMWD RFP III - B - 5

#### Overview

Since 2014 across the U.S., we have been engaged in providing services similar to the District's Scope of Services with state and local governments to finance 111 water/sewer projects for over \$6.6 billion – for detail see Attachment A. In addition to this debt issuing, for many of these clients, we routinely complete assignments not directly related to debt issuing including:

- Arbitrage/Rebate Coordination/Review
- Capital Project Planning/Funding Source Allocation
- Compliance/Consent Negotiations
- Policy/Procedure Development/Review
- Rate Study Coordination/Review
- State & Federal Financial Assistance Application Coordination/Review

As a subset of our clients, we have included references for recent water/sewer clients within the subsection entitled "References" below.

#### **California Water & Wastewater Financings**

To demonstrate the breadth of our knowledge in California's water/sewer sector, we have included our California water/sewer transactions since 2014 below.

Date	Amount	Issue Description
05/01/2014	\$ 21,975,000	Morgan Hill Financing Authority Revenue Bond Water System Refunding, Series 2014
12/04/2014	31,980,000	El Centro Financing Authority Water Revenue Refunding Bonds, 2014 Series A
12/04/2014	20,450,000	El Centro Financing Authority Wastewater Revenue Refunding Bonds, 2014 Series A
06/24/2015	2,863,000	City of Arcata Tax Exempt Lease Agreement, Series 2015
12/10/2015	19,495,000	Woodland-Davis Clean Water Agency Subordinate Refunding Water Revenue Bonds, Series 2015A
12/10/2015	1,881,117	Woodland-Davis Clean Water Agency Subordinate Refunding Water Revenue Bonds, Series 2015B
12/29/2015	1,040,000	City of Rio Vista Sewer Enterprise Refunding Credit Facility Bonds, Series 2015
04/12/2016	410,735,000	California Infrastructure and Economic Development Bank, Clean Water Revolving Fund, Series 2016
06/08/2016	98,945,000	San Diego County Water Authority Water Revenue Refunding bonds, Series 2016A
06/08/2016	197,395,000	San Diego County Water Authority Water Revenue Refunding bonds, Series 2016B
10/12/2016	428,130,000	State of California DWR, Water System Revenue Bonds, Series AW (2016)
10/26/2016	38,000,000	Southern Marin Sewerage Agency Revenue Bonds, Series 2016
02/28/2017	450,000,000	California Infrastructure and Economic Development Bank, Clean Water Revolving Fund, Series 2017
04/05/2017	6,780,000	Madera Co Service Area 2A/2B Wastewater Treatment and Effluent Disposal System Notes, Series 2016
05/10/2017	39,910,000	Casitas Municipal Water Dt CFD Special Tax Bonds, Series 2017AB
05/18/2017	11,455,000	City of Lathrop Refunding Revenue Refinancing Bonds, Series 2017
06/01/2017	26,125,000	San Juan Water District Water Revenue Refunding Bonds, Series 2017
08/01/2017	37,250,000	Santa Margarita Water District of CFD 99-1 Special Tax Refunding Bonds. Series 2017A
10/31/2017	2,120,000	CFD No. 2014-67 of Eastern Municipal Water District Improvement Areas A 2017 Special Tax Bonds
11/15/2017	22,870,000	Woodland-Davis Clean Water Agcy Subordinate Refunding Water Revenue Bonds, Series 2017A
11/28/2017	18,155,000	Colton Utility Authority Water Revenue Refunding Bonds, Series 2017
12/06/2017	140,825,000	State of California DWR, Water System Revenue Bonds, Series 2017 AX (Taxable)
12/06/2017	350,670,000	State of California DWR, Water System Revenue Bonds, Series 2017 AX (Tax Exempt)
12/06/2017	2,414,000	Woodland-Davis Clean Water Agcy 2nd Subordinate Revenue Bonds, Series 2017B
12/13/2017	29,145,000	Adelanto Public Utility Auth Fixed Rate Revenue Refunding Bonds, Series 2017A
12/13/2017	41,710,000	Adelanto Public Utility Auth Fixed Rate Revenue Refunding Bonds, Series 2017B
12/14/2017	7,762,794	City of Lodi Wastewater System Revenue Refunding Certificates of Participation, Series 2017
12/18/2017	350,305,000	SFPUC Water Revenue Bonds, 2017 Sub-Series D Bonds (Refunding) (Green Bonds)
12/18/2017	48,890,000	SFPUC Water Revenue Bonds, 2017 Sub-Series 2017E Bonds (Refunding)
12/18/2017	8,705,000	SFPUC Water Revenue Bonds, 2017 Sub-Series F Bonds (Refunding)
02/22/2018	449,225,000	California Infrastructure and Economic Development Bank, Clean Water Revolving Fund, Series 2018
06/19/2018	12,805,000	Palmdale Water District Public Financing Authority Water Revenue Bonds, Series 2018A
07/18/2018	179,145,000	SFPUC Wastewater Revenue Bonds, Series 2018C (Green Bonds) Put Bonds
08/14/2018	4,315,000	Central Contra Costa Sanitary District Wastewater Revenue Refunding Bonds, Series 2018B
08/14/2018	15,135,000	Central Contra Costa Sanitary District Wastewater Revenue Refunding Bonds, Series 2018A
09/11/2018	81,105,000	Beaumont Public Improvement Authority Wastewater Revenue Bonds, Series 2018A
09/25/2018	2,980,000	City of Winter Water Revenue Refunding Bonds, Series 2018
09/25/2018	3,515,000	City of Winters Sewer Revenue Refunding Bonds, Series 2018
11/15/2018	426,330,000	LADWP Water System Revenue Bonds, 2018 Series B
12/12/2018	22,260,000	Temescal Valley Water District Special Tax Bonds, Series 2018
04/24/2019	83,920,000	California Infrastructure and Economic Development Bank, Clean Water Revolving Fund, Series 2019

#### References

Our Water & Wastewater Funding Group advises, places, and underwrites water/sewer utilities across the U.S. From amongst a range of clients, we selected the following as references given that we have provided services identical to the District's Scope of Services to these clients since July 1, 2017.

#### **Adelanto**

Lily Fang, Finance Director (Former)
11600 Air Expressway Adelanto, CA 92301 | 818-970-7177 | Ifang@gmail.com

Adelanto consistently failed to manage operating expenses, raise rates, and honor cover/cash flow covenants. In 2017, Adelanto selected Piper Jaffray to restructure and refund water/sewer debt. Given the background of covenant failures and investigations and arrests of city officials, we placed the bonds through our network of commercial banks and generated savings in excess of 10% and created the underlying resolutions, policies, and procedures to facilitate future covenant compliance.



#### California Infrastructure and Economic Development Bank (IBank)

Nancee Trombley, Executive Director

1235 J Street, Suite 1823, Sacramento, CA 95814 | 916-341 6644 | nancee@ibank.ca.gov

IBank manages California's Infrastructure Revolving Fund (ISRF) for a wide range of infrastructure projects. Additionally, IBank issues Clean Water (CW) and Drinking Water (DW) SRF bonds on behalf of the State Water Resources Control Board.

We served as senior underwriter for the last three ISRF bonds including Series 2014, 2015, and 2016. Given our advising, placing, and underwriting experience, we manage many responsibilities normally managed by an advisor including local government due diligence, cash flows, rating agency presentations, and disclosure.

This experience is directly relevant to the District since the majority of the ISRF borrowers are low or non-rated entities, each series of ISRF bonds are only as strong as the weakest borrower within a pool. Therefore, each borrower benefits from IBank's expertise and the AAA/Aaa/AAA ratings (Fitch/Moody's/S&P) for the ISRF pooled finance program. Finally, more than 40% of the ISRF loan portfolio represents water/sewer projects.

#### Cental Arizona Water Conservation District (CAWCD) / Central Arizona Project (CAP)

Douglas Dunlap, Finance & Accounting Director

PO Box 43030, Phoenix, AZ 850809 | 623-869-2360 | ddunlap@cap-az.com

CAP CAWCD operates and maintains the Central Arizona Project canal, other canals, and transmission facilities to transmit water from the Colorado River to Phoenix, other communities in central Arizona, and as far south as Tucson. In our ongoing role as municipal advisor, we manage CAWCD's financings for the benefit of multiple water providers and their users across Arizona.



#### Central Contra Costa Sanitation District (CCCSD)

Philip Leiber, Finance Director

5019 Imhoff Place Martinez, CA 94553 | (925) 229 7305 | pleiber@centralsan.org

In 2018, CCCSD selected us to refund and restructure their outstanding bonds including taxable bonds with "challenging" prepayment provisions. In addition to refunding debt and restructuring bond documents, we assisted (and continue to assist) CCCSD to match their \$750 million ten year CIP to the range of funding sources – for more detail on our ongoing CCCSD efforts, see Section 4.



#### **DeKalb County, Georgia**

Diane McNabb, Chief Financial Officer
1300 Commerce Drive, Decatur, GA 30030 | 404-371-2861

DeKalb County is the regional wastewater treatment provider for the county east of Atlanta as well as parts of Atlanta. In January 2019, DeKalb County hired Piper Jaffray to assist them finance over \$500 million of consent order related compliance projects by 2021.

Our DeKalb County team includes staff from our Southeast Public Finance Group located in Atlanta and our Water & Wastewater Funding Group. Our team will orchestrate public offerings, SRF loans, and WIFIA loans to reduce debt service and manage user rates moving forward.



#### King County, Washingto ~ Wastewater/Stormwater

Ken Guy, Finance Director

King County 401 Fifth Avenue, 3rd Floor, Seattle, WA 98104 | 206-263-9254

As either Seattle Northwest or Piper Jaffray (we acquired Seattle Northwest in 2014), we have served as advisor to King County since the 1990's and advised them on the first WIFIA loan originated in April 2018. In combination with \$140,000,000 of system revenue bonds and cash flows, King County will use WIFIA proceeds to finance stormwater/wastewater improvements to manage combined sewer overflows.

King County proceeded with a senior lien given early concerns about WIFIA's ability to originate subordinated debt given the springing lien requirement in the event of a default. King County paired WIFIA with system revenue bonds and cash flows since the Washington SRF is challenging to access in meaningful amounts. In contrast to California, Washington does not "leverage" its SRF through bonds to increase the number of benefitting communities and projects.

As King County's ongoing advisor, we treated WIFIA as another source of funding for the project and charged typical transaction/advising fees of \$0.65 per \$1,000 of bonds/debt for \$87,000. In addition to traditional advising services for the WIFIA loan, we served as lead on or assisted King County with the following:

- Letter of Interest
- Loan Application ~ all sections, but with emphasis on Section D, Financing Plan
- Financial/Pro Forma Model
- SRF Discussions/Interactions
- Lien & Loan Negotiations & Documentation
- System Revenue Supplemental Indenture for Affiliated System Revenue Bonds
- Loan Origination & Reporting



Donna Silva, Finance Director

P.O. Box 2157, Granite Bay, CA 95746 | 916-791 6907 | dsilva@sjwd.org

We have served as underwriter to SJWD since the 1990's. Under another advisor's contract, we recently advised SJWD on its \$28 million reservoir project to identify and obtain financial assistance from SRF, WIFIA, and other state/federal sources.

After numerous interactions with SWRCB and WIFIA staff, we recommended that SJWD obtain 100% of its financing needs through the DW SRF. Given the comparatively small project amount (\$28 million), accelerated construction schedule (less than a year), and a preference for standard level debt service, SJWD would not optimize the benefits of a WIFIA loan – which benefit large projects with long construction schedules and borrowers needing to defer, wrap, and backload principal.



SAN JUAN WATER

#### San Francisco Public Utilities Commission (SFPUC)

Alexandra Gunnel, Funding Coordinator

544 Golden Gate Avenue, San Francisco, CA 94102 | 415-551 4505 | agunnel@sfwater.org

SFPUC asked us to serve as special advisor for SRF loans/interactions under the advisory agreement between SFPUC and Hilltop Securities. While we remain focused on obtaining as much CW SRF funding for SFPUC as possible, we were asked to contribute to the WIFIA loan application, loan review, and loan origination effort.

We view SRF and WIFIA as funding sources and agreed to transaction/advising fees of \$0.50 per \$1,000 of bonds/loans. For WIFIA, we assisted SFPUC with the following:

- Loan Application
- Review Financial/Pro Forma Model
- Loan Negotiations & Documentation
- System Revenue Supplemental Indenture for Affiliated System Revenue Bonds

For WIFIA affiliated SRF financial assistance, we continue to assist SFPUC with the following:

- Interactions with members of the State Water Resources Control Board (SWRCB)
- Interactions and negotiations with SWRCB leadership and staff
- "White Paper" on California's SRF ~ most recent version available upon request.
- Priority List Scoring Criteria ~ review and commentary
- Loan Application



#### **State Water Resource Control Board (SWRCB)**

Christopher Stephens, SRF Manager

1001 | Street, 16th Floor, Sacramento CA, 95814 | 916-341-5698 | christopher.stevens@waterboards.ca.gov

Similar to SRFs across the U.S. SWRCB can "leverage" California's SRFs by issuing bonds secured by SRF assets to increase the number of benefitting communities and projects. SWRCB originally leveraged the CW SRF once in 2003 but did not leverage again until 2013.

In 2013, we were selected to lead the effort to completely overhaul and modernize the California SRF bond indenture -- we were directed to diplomatically take the lead over SWRCB's advisor at the time. Amongst other enhancements, we eliminated the reserve requirement, cross collateralized CWRF and DWRF, streamlined the funds/accounts, and began the process to streamline access to and utilization of the SRFs by California communities and local governments.

Since 2013, we served as senior manager, joint-senior manager, or co-manager on all five of California SRF leveraged financings which have totalled over \$1.3 billion. We advise more California clients to borrow from the California SRFs than any other firm.

#### **Piper Jaffray Overview**

Piper Jaffray was founded in 1895 and remains headquartered in Minneapolis. Piper Jaffray is a full service financial services firm with over 1,200 employees serving clients within two primary business segments: (1) Public Finance, (2) Corporate Finance.

Piper Jaffray is publicly owned and traded on the New York Stock Exchange (symbol PJC) and has significant employee ownership. Piper Jaffray has no long-term debt outstanding and, therefore, has no long-term ratings.

#### **Public Finance Experience & Qualifications**

Public Finance is both essential to and visible within Piper Jaffray:

- Essential ~ Public Finance accounts for more than 30% of total revenues for Piper Jaffray.
- **Visible** ~ Frank Fairman, Head of Public Finance, is a member of the firm's leadership team and reports directly to our CEO.

Our Public Finance Group includes 138 advisors/bankers and 28 support staff in 38 offices across the U.S. that regularly advise municipal issuers and underwrite bonds. To support our public finance practices, we have 12 underwriters in five offices and 104 bond sales staff in 21 offices that provide up-to-date municipal market information to both our advisory and underwriting clients.

Piper Jaffray is the only firm in the U.S. to rank in the top ten as financial advisor, placement agent, and underwriter.

During 2018, we advised 26 transactions in California for \$568.5 million, making us the *Number 6* municipal advisor by number of issues (Source: SDC).



Also during 2018, we placed 142 transactions for \$1.3 billion, making us the **Number 1** placement agent for both number and par amount (Source: SDC.)

Finally, we senior managed 409 issues during 2018 for over \$12.1 billion, making us the *Number 6* underwriter for number of issues in the nation (Source: SDC).

With advising, placing, and underwriting combined, Piper Jaffray led or participated in more transactions than any other firm in 2018.

Our combination of advising, placing, and underwriting capability provides clients with resources that are not available at an advisory-only firm and ensures that the District will benefit from best practices, public finance expertise, and real-time market intelligence.

#### **California Presence & Expertise**

Piper Jaffray has served California clients since 1974 and has expanded its presence to include offices in Los Angeles, Orange County, Sacramento, San Diego, and San Francisco. Our California presence includes 16 public advisors/bankers. Our San Francisco Office includes underwriting and sales personnel and related facilities to support our advising and underwriting clients.

Since 2014, our California Public Finance Group has advised, placed, or underwritten 891 issues for more than \$58.2 billion ranging in size from:

- Largest ~ advising San Francisco Public Utilities Commission on its \$1.3 billion wastewater project funded by SRF, WIFIA, and revenue bonds.
- Smallest ~ senior underwriting Casitas Municipal Water District CFD for a \$100,000 special tax financing.

Piper Jaffray distinguishes itself from other California firms by our experience and qualifications as an advisor, placement agent, and underwriter. Our broad experience demonstrates our knowledge of local governments, funding sources/uses, and markets and enables us to provide unique planning, structuring, credit rating, marketing, investor targeting, pricing, and pre/post-issuance insights not available from firms limited to advising or underwriting.

While we can underwrite any amount of bonds anywhere in the U.S., we will utilize this expertise to optimize our advisory services to the District. We will also distinguish ourselves through our work with rating agencies by leveraging the expertise of our credit staff. Our credit staff's previous work at rating agencies, brings credit experience that no other municipal advisory firm can offer.

#### National Firm & Resources with a Dominant Local Public Finance Presence



 $\underline{\text{Note:}}$  Shaded counties are where we assisted clients over the past 5 years.

We will assert ourselves across the range of the District's needs from long-term planning/modeling to input on individual bond issues. With our capacity and personnel to serve as an advisor or an underwriter, we believe our pricing and marketing expertise will enable the District to market and sell bonds to a broader investor base, at the lowest possible rates, and with reduced transaction costs.

With respect to our ability to serve as an independent financial advisor, Municipal Security Rulemaking Board Rule G-42 will require us to serve as your fiduciary agent. Our underwriting and market expertise will enable us to serve as an informed and effective fiduciary agent. Other firms may claim independence since they do not have the resources to underwrite – but an effective advisor cannot be independent of market realities, trends, and rates.

#### **Water & Wastewater Expertise**

Our Water & Wastewater Funding Group is co-led by Tom Innis from our San Francisco office and Greg Swartz from our Phoenix office. Tom and Greg will co-lead our team on behalf of the District.

Our current and recent California water/sewer clients include:

- Adelanto
- Beaumont
- Colton Utility
- Eastern Municipal Water District
- Lodi
- MWD of Southern California
- Rio Vista
- San Francisco PUC
- Santa Margarita Water District

- Arcata
- Casitas Municipal Water District
- CA Department of Water Resources
- El Centro
- Los Angeles Dept. of Water & Power
- Morgan Hill
- Sacramento County Sanitation District
- San Juan Water District
- Woodland-Davis Clean Water Agency
- Bakman Water
- Central Contra Costa Sanitary District
- East Bay Municipal Utility District
- Lathrop
- Madera County
- Palmdale Water District
- San Diego
- Santa Clara Valley Water District
- State Water Resources Control Board

Since 2014 and across the U.S., Piper Jaffray has advised, placed, or underwritten 441 water/sewer/stormwater financings for more than \$26.9 billion. We are the only firm to rank in the top five for public finance services – advising, placing, and underwriting – on behalf of water/sewer clients. As a subset of our national water/sewer experience, we have advised, placed or underwritten 39 California water/sewer issues for more than \$5.3 billion since 2014.

Since 2014, our water/wastewater financing experience has ranged in complexity and size from:

- Largest ~ underwriting \$1.67 billion for the Texas Water Development Board (TWDB), State Water Implementation Fund (SWIF) Revenue Bonds, Series 2018. TWDB manages the state capitalized SWIF as a subsidized revolving loan fund on behalf of local water/wastewater projects.
- Smallest ~ placing \$95,000 of water debt on behalf of Honey Creek Conservancy District, Indiana.

Our advising expertise is distinct and relevant to the District: (1) we have a greater depth of experience compared to other advisors; and (2) we understand the advantages and disadvantages of state/federal programs including Army Corp of Engineers, Bureau of Reclamation, CoBank, SRF, USDA Rural Development (RD), and WIFIA.

Our placement expertise is relevant: (1) we assist clients with alternatives to public offerings with shorter-terms or challenging credits, and (2) we have ongoing relationships with a broader range of investors.

Our underwriting experience is relevant: (1) we understand timing and expectations; (2) we understand the motivations and strategies of underwriters; and (3) we know how to motivate co-managing underwriters to perform.

**Attachment A** details our recent water/sewer advisory clients across the U.S. Our other relevant experience includes:

- **EPA Interactions** ~ we have a long history of interacting with EPA to assist clients. In particular, Greg is very familiar with EPA's SRF, Water Quality, and WIFIA personnel having served on EPA's Environmental Finance Advisory Board and other rule/policy development teams.
- Rating Agency Interactions ~ we have a clear understanding of rating agency respective analytical methods for drinking water, stormwater, and wastewater credits.

#### **Funding Source Expertise**

Our Water & Wastewater Funding Group is motivated to create and maintain a long-term relationship with the District. We can facilitate and expedite consideration of a range of funding methods/sources. We coordinate with finance teams across the U.S. to identify and obtain water/sewer funding tailored to individual projects, individual issuers, and individual issues.

In California, there are as many as nine (9) funding methods/sources to finance water/ wastewater projects. Within three categories, the methods/sources are listed below. Below the table, we discuss each method/source for future reference and to demonstrate our comprehensive water/wastewater expertise.

Source	Grants Available	Maximum Rate	Max Final Maturity (Years)	Potential District Funding Source
Government				
Infrastructure & Economic Development Bank (IBank)	No	Subsidized AAA	30	Yes
State Water Resources Control Board (SWRCB)	Yes	50% of AA-	30	Yes
USDA Rural Development (RD)	Yes		40	No
Water Infrastructure Finance & Innovation Act (WIFIA)	No	U.S. Treasury	Useful Life/35+	Yes
Market				
Placement (Place)	No	Varies by Issuer	10	Yes
Public Offering (Public)	No	Varies by Issuer	Useful Life/30+	Yes
Other				
CoBank	No	Varies by Borrower	30	Unlikely
Public Finance Authority (PFA)	No	AA + 0.25%	30	Yes

In alphabetical order, we summarize each method/source and potential pros and cons.

**CoBank** ~ as established by Congress, CoBank has evolved into a national cooperative bank governed by a Board and supported by stockholders to provide financial services to rural industries and local governments. Given its focus on rural utilities and businesses, CoBank is unlikely to provide financing in meaningful amounts except in circumstances where the District might extend service to unserved areas.

IBank ~ Though its multi/general purpose Infrastructure State Revolving Fund (ISRF), IBank provides meaningful subsidies indexed to its AAA cost of borrowing but has periodic capacity constraints due to dependence on \$300 million of revolving equity for lending and to support ISRF bonds. The District could rely on IBank for projects up to \$50 million or subordinated/non-traditional pledges. On a scale of 1 to 9 across the 9 methods/sources and with 9 being best, IBank averages a 5.8 for six considerations: expense, timing, requirements, ongoing disclosure, non-traditional projects, and non-traditional pledges.

PFA ~ PFA is a national conduit and pooled issuer sponsored by the National League of Cities and Towns and the National Association of Counties. Piper Jaffray assisted PFA to structure an insured (AA rated) water/sewer finance program to bundle individual issuers/issues for economies of scale and savings. Piper Jaffray works alongside multiple advisors and bond counsels affiliated with pool participants. PFA intends to focus on projects or refundings up to \$30 million secured by a revenues pledge. On a scale of 1 to 9, PFA averages 4.8 for the 6 considerations first listed under IBank. In particular, PFA is well suited to expedite cofunding alongside or in anticipation of SWRCB or WIFIA funding.

Placement ~ Simply put, placements can be viewed as one issuer placing bonds with one investor. After the Tax Reform Act, placements are less attractive due to higher rates. Additionally, the trend is towards obtaining ratings and increasing disclosure as the market expresses concern about the transparency of placements. On a scale of 1 to 9, placements can average 7.5 for financings at or less than 10 years for non-traditional projects/pledges, refundings, and with reduced disclosure/reporting. Placements are less likely for "large" projects with terms in excess of 10 years.

Public ~ Public offerings can be viewed as one issuer placing bonds with multiple investors. The District can optimize public offerings for large system-wide projects in excess of \$10 million secured by traditional revenue pledges. For projects under \$10 million, ratings, costs of issuance, and disclosure motivates issuers towards other methods/sources. Additionally, public offerings work best when the "story" behind the bonds is straightforward for investors with limited time and many investment options. Generally, public offerings can average 3.7 on a scale of 1-9. However, for larger projects, public offerings are often the best option for full or partial funding alongside constrained government sources. The District can optimize public offerings for growth, development, or extension projects where beneficiaries or new users pay for the benefits through special districts/assessments.

RD ~ Rural Development (RD) is affiliated with the US Department of Agriculture and managed by a State Director and staff located in each state. While RD is mandated to benefit populations under 10,000, RD grants and loans are viable for a large utility to extend service to rural areas or for a large utility to consolidate a small utility. Subject to these limitations, RD averages 3.2 on the 1-9 scale. Simply put, while RD is a solid "maybe" as a method/ source, it "maybe" worthwhile to discuss specific "rural related" projects with RD's California State Director.

SDA ~ Amongst other services and benefits, the California Special District Association created a subsidiary conduit issuer for water/sewer financings – the CSDA Finance Corporation. Generally, SDA is best suited for small, infrequent, or inexperienced water/sewer issuers and removes much of the mystery associated with issuing bonds. SDA would likely average 4.8 on the 1-9 scale.

SWRCB ~ SWRCB manages the Clean Water SRF, the Drinking Water SRF, and other state programs funded by state "water" bonds. SWRCB offers the lowest interest rates – presently, the same subsidized rate applies regardless of term. Currently and temporarily, SWRCB has Clean Water SRF capacity constraints due to encumbering its \$6 billion+ (and growing) revolving equity to a handful of large projects including Sacramento County, San Diego, Silicon Valley Clean Water, and Sunnyvale. SWRCB also has staff constraints leading to lengthy processing times for funding. The District can optimize SWRCB as a co-funder or as a source for stormwater, groundwater recharge, or other non-traditional projects. Due to "programmatic" mandates

(prevailing wages, American iron & steel, procurement preferences, etc....), SWRCB averages 4.7 for the six considerations detailed under IBank.

WIFIA ~ Based on our experience as advisor to several WIFIA applicants with large projects including DeKalb County (GA), Hillbsoro-Tualatin Valley Water District (OR), King County (WA), San Francisco, and San Juan Water District (CA), the District should consider WIFIA for: (1) large projects, (2) 49% of project costs (WIFIA maximum), (3) extended terms to 35 years, (3) deferring, wrapping, and backloading principal payments, add (5) co-funding alongside CA's SRF's. Our principal concern is how to "mute" WIFIA springing to senior lien in the event of a default. WIFIA can average 4.5 on our considerations scale and we encourage the District to consider WIFIA for future projects.

#### **Location of Day-to-Day Contacts**

As detailed below, we will dedicate two lead advisors to meet the day-to-day needs of the District as well as coordinate other personnel and resources from our California Public Finance Group as well as other personal and resources from across the U.S.:

- Tom Innis 50 California St, San Francisco | 415-616-1635 | thomas.p.innis@pjc.com
- Greg Swartz 2525 E Camelback, Phoenix | 602-808-5426 | greg.g.swartz@pic.com

Our other day-to-day contacts will include Tony Rapista and Jessica Burst from our LA / El Segundo office and Jake Smith from our Denver Office. Section 1 includes brief resumes for each of our key personnel.

#### **Project Management Capability**

As they do now on behalf of similar clients across the U.S., Tom and Greg will lead and coordinate the personnel and resources required by the District.

Generally, the resources and time required to complete assignments will depend on the District's work/project objectives, expectations, inputs, and outputs. Generally, for bond issues with definitive starting and closing dates, we expect to schedule and manage tasks over a 60-90 day period. For assignments "deeper in the assembly line" – including overseeing rate studies, contributing to capital improvement plans, and managing financial models – we expect to schedule and manage work on an ongoing basis since the related outputs are subject to periodic updates, refinements, and enhancements.

In addition to serving the District, we have other clients with similar needs and we will recruit additional personnel or rely on outside resources to meet the needs as required on an ongoing basis.

#### **Municipal Advisor Registration**

Piper Jaffray and the co-leads of our finance team – Tom Innis land Greg Swartz – are registered with the SEC and MSRB as municipal advisors and meet all regulatory requirements to perform the duties of an advisor.

As shown by subsection below, we present our capability to provide the Distict's Scope of Services to demonstrate our understanding of the required services.

#### **Project Finance** (LVMWD RFP, Scope of Services, II – 1)

As discussed in Section 3 above, we are uniquely qualified – and motivated – to identify and tailor funding sources to the District's Triunfo Pure Water and AMR/AMI projects. Based on the evolving SRF criteria and WIFIA priorities, we are confident we can guide the District towards the optimal combination of public offerings, placements, and state/federal funding.

As another example of our funding source expertise, **Attachment B** is a recent article on water/sewer funding that we were asked to provide to the California Society of Municipal Finance Officers.

#### Market Conditions & Trends (LVMWD RFP, Scope of Services, II - 2)

Compared to other firms with resources limited to advising only, we will rely on our broader range of advising, consulting, placing, and underwriting resources to enable the district to optimize public offerings – assuming public offerrings are required in combination with financial assistance from state/federal programs.

As an example, our lead California underwriter – Chris Bessette – projected a preliminary public offering rate/yield scale for the District as shown to the right. Chris projected the scale based on:

- comparable issuers/credits,
- recent secondary market trading activity, and
- market activity as of June 20, 2019.

Given our market knowledge and expertise, the District can set the tone and expectations for public offerings through underwriters.

#### Debt Management (LVMWD RFP, Scope of Services, II - 3)

We currently monitor the District's outstanding debt and look forward to discussing options to refund Series 2009.

		"Sta	ndard" 5%	Coupon	s, 2020-20	39
Year	MMD	Coupon	Yield	Spread	YTM	Kick
2020	1.310%	5.000%	1.080%	-0.23%		
2021	1.330%	5.000%	1.100%	-0.23%		
2022	1.340%	5.000%	1.110%	-0.23%		
2023	1.350%	5.000%	1.120%	-0.23%		
2024	1.370%	5.000%	1.170%	-0.20%		
2025	1.420%	5.000%	1.240%	-0.18%		
2026	1.480%	5.000%	1.320%	-0.16%	Matu	rities
2027	1.550%	5.000%	1.430%	-0.12%	after	2029
2028	1.620%	5.000%	1.540%	-0.08%	Calla	ıble
2029	1.690%	5.000%	1.660%	-0.03%	11/1/	2029
2030	1.760%	5.000%	1.760%	0.00%	1.984%	0.22%
2031	1.800%	5.000%	1.840%	0.04%	2.240%	0.44%
2032	1.860%	5.000%	1.920%	0.06%	2.461%	0.60%
2033	1.900%	5.000%	1.980%	0.08%	2.636%	0.74%
2034	1.950%	5.000%	2.050%	0.10%	2.798%	0.85%
2035	1.990%	5.000%	2.090%	0.10%	2.919%	0.93%
2036	2.030%	5.000%	2.130%	0.10%	3.027%	1.00%
2037	2.070%	5.000%	2.170%	0.10%	3.125%	1.06%
2038	2.110%	5.000%	2.210%	0.10%	3.212%	1.10%
2039	2.150%	5.000%	2.250%	0.10%	3.292%	1.14%

Amongst other structural enhacements, we look forward to reducing or eliminating reserve requirements and restructuring underlying legal documents to accommodate future public offerings, State Water Resources Control Board grants/loans, and WIFIA loans.

**Attachment C** details our initial analysis of refunding Series 2009 using a combination of the bond funded debt service reserve and refunding bond proceeds to redeem/refund Series 2009 to optimize savings, increase cash flow/coverage, and increase retained earnings.

Calleguas-Las Virgenes Public Financing Authority: 2019 New Money Assumes \$122M Project Proceeds (No DSRF) Market Conditions as of June 20, 2019 (AA Underlying)						
	Base	Base +1 bps	Base +5 bps	Base +10 bps		
Par Amount	\$98,920,000	\$98,990,000	\$99,275,000	\$99,625,000		
True Interest Cost (TIC)	2.63%	2.64%	2.70%	2.70%		
Maximum Annual Debt Service	\$7,939,500	\$7,945,750	\$7,968,750	\$7,996,500		
Average Annual Debt Service	\$7,937,563	\$7,943,113	\$7,965,875	\$7,994,125		
Total Debt Service	\$158,751,250	\$158,862,250	\$159,317,500	\$159,882,500		
Difference	\$0	\$111,000	\$566,250	\$1,131,250		

We have found that the sense of urgency behind issuing a series of bonds can lead to incremental enhancements as time and the receptiveness of the transaction finance team allows. However, this sense of urgency to issue bonds clouds the necessity to periodically review structure and implement enhancements. Accordingly, we encourage the District, its bond counsel, and its local government partners to participate in an annual on-site planning session to review goals/objectives, capacity models, outstanding debt, projected financial assistance needs/ demand, and other program features.

#### Finance Options & Financial Planning/Modeling (LVMWD RFP, Scope of Services, II - 4, II - 5, and II - 7)

Based on our ongoing experience with public offerings, SRF, and WIFIA, water/sewer utilities must maintain a financial planning model that projects capacity and integrates users, rates/revenues, operating expenses, capital investments/financings, water sources/uses, regulatory impacts, and drought impacts.

For public offerings, rating agencies and, increasingly, individual investors, rely on such planning models to assess the long-term viability of the utility given climate change, water source sustainability, economic conditions, and, amongst other considerations, rate pressures. While they are evolving towards a more streamlined approach, our experience with WIFIA indicates that accessing meaningful federal and state subsidies depends on demonstrating managerial, technical, and financial viability over a multi-year planning horizon.

**Attachment D** includes an example of a model we recently created on behalf of a client seeking to co-fund a set of projects with public offerings, SRF, and WIFIA.

As an example of our capability to facilitate capital planning, in August 2018 we senior managed a refunding for Central Contra Costa Sanitary District (CCCSD). In addition to refunding bonds and restructuring bond documents, we assisted (and continue to assist) CCCSD to match their \$750 million, ten year CIP to the range of funding sources.



Amongst other outcomes, CCCSD deferred submitting a letter of interest for WIFIA Round 3 in favor of pursuing other funding sources. CCCSD can not optimize the benefits available from WIFIA based on CCCSD's current projects, CCCSD's low cost of borrowing via public offerings, and projected needs – however, CCCSD will continue to consider WIFIA in the future.

#### Financing Strategies ~ Public Offerings & State/Federal Programs (LVMWD RFP, Scope of Services, II - 6)

We look forward to coordinating and facilitating the selection of other finance team members as we do now on behalf of clients across the U.S. To facilitate the process and to reduce burdens on our clients, we solicit finance team members through mini-RFPs approved by the client and circulated by Piper Jaffray. We understand and appreciate the subtle motivations and objectives of the various members of the finance team and can dimplomatically, but firmly, manage the process to achieve the District's objectives with as little game playing and "theater" as possible.

The following recommendations are an introduction in best practices to market individual bond issues, expand the investor base, and reduce interest expense.

- Manage Spread to Municipal Market Data ~ Issuers judge bond sale performance compared to a daily market index Municipal Market Data (MMD). Rate/yields close to or below MMD translate into lower interest expense and better performance the lower the spread to MMD, the better. In contrast, higher spreads above MMD means higher interest expense.
  - As part of individual bond sales, the industry norm is to have a brief "spread" and "comps" discussion the week prior to pricing bonds. We recommend that the District require the underwriting team not just the senior manager discuss spread and comps multiple times 3-4 weeks prior to pricing. The District can and should set the tone and expectations for pricing weeks prior to pricing.
- Investor Outreach ~ As the District's advisor, we will encourage underwriters to aggressively price the District's bonds by:

- 1. Circulating the Preliminary Official Statement (POS) 2-3 weeks earlier than the industry standard of posting the POS the week prior to pricing;
- 2. Posting an investor presentation earlier and requiring co-manager sales staff to review it;
- 3. Hosting 1-on-1 calls with investors;
- 4. Participating in an annual investor open house alongside other California water/sewer issuers; and
- 5. Organizing an annual investor outreach events at regional and national conferences.

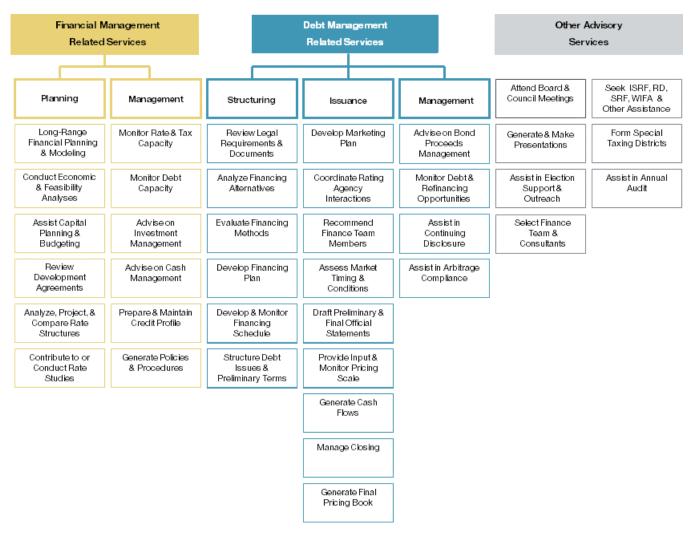
#### Interactions with District Board, Project Partners, and Public (LVMWD RFP, Scope of Services, II - 8)

We routinely interact with board members, project partners and the public/users of our clients. Given our ongoing experience, we understand how to translate detail into presentations and handouts that a variety of audiences can understand.

As one of several examples, we routinely assist school district clients to justify bond elections to board members and the voting public. The common theme is that presentations to elected/appointed officials and the public have to be tailored to a motivated audience that often does not understand all the nuanced details.

#### Wide Range of Services (LVMWD RFP, Scope of Services, II - 9)

The table below summarizes the breadth of services we offer our water/sewer financial advisory clients. Although some of the services may not be currently applicable to the District's needs, they are available to the District if future needs require such services



#### Targeting Investors (LVMWD RFP, Scope of Services, II - 6)

Piper Jaffray, as a firm uniquely capable to advise and underwrite, has the unique insight and capability to target known investors for District's publicly offered or placed bonds. The first place to look would be the current holders of the District's debt, however the District's limited outstanding bonds have few reported holders. In response, we

The Vanguard Group BlackRock Advisors Charles Schwab Franklin Advisers Nuveen Asset Mgmt **PIMCO** TIAA-CREF New York Life Guggenheim Partners

New England Asset Mamt Goldman Sachs Metlife Investment Advisors Hartford Investment Mgmt Principal Global Investors Protective Life Co State Street Global Advisors **Asset Preservation Advisors Dimensional Fund Advisors** DWS Investment Mgmt Nationwide Asset Mgmt

Pacific Life Fund Advisors American Equity Advisors **GSAM Stable Value** Chubb Asset Mgmt J.P. Morgan Fidelity Money Mgmt Eaton Vance Segall Bryant & Hamill American Century AllianceBernstein

reated a peer group of water/sewer issuers similar to the District.

The top thirty bondholders for this peer group are listed below to demonstrate the quality and variety of the investor base we will target while overseeing underwriters.

The District's peer group includes Contra Costa Water District, East Bay Municipal Utility District, and the San Francisco Public Utilities Commission. Within this group are 204 reported investors, each of which are familiar and comfortable with purchasing higher rated California water/sewer credits.

#### Conclusion

Many of the advisory services we can provide enable clients to develop and implement finance alternatives, which avoid or reduce the size of bond issues. Such alternatives include impact fees, developer contributions, special taxing districts, and/or interfund lending.

If the best alternative is to finance public infrastructure or amenities with bonds, we will assert ourselves across the range of advisory services detailed in the Scope of Services within the District's RFP. As a firm with capacity and resources to serve as an advisor or an underwriter, our bond pricing and marketing expertise will enable the District to market and sell bonds to a broader investor base, at lower rates, and with reasonable transaction costs.

In contrast to firms with fewer resources and limited to advising only, we can offer more expertise, resources, and experience across the range of required services. In contrast to firms limited to underwriting only, our balance sheet is not leveraged or encumbered and we are not entangled in a myriad of financial products or services that often conflict or even "bet against" the objectives of issuers - with such conflicts evidenced by the lingering effects of the 2008-2009 financial crisis.

#### Regulator/Legal Issues

It is essential to note that none our key personnel assigned to serve the District have been the	Date	Agency	Finding	Action Taken
•	7/7/2016	FINRA	Untimely document submission	Fine/Censure
subject of a regulatory proceeding or litigation.	6/18/2015	SEC	Inadequate due diligence	Fine/Censure
The following table to the right lists three findings	2/2/2015	FINRA	Inadequate MSRB reporting	Fine/Censure
related to Piper Jaffray public finance and action take	ken by the i	regulatory	/ agencies since 2015.	

If regulatory investigations result in a disciplinary action, fines, suspensions or other significant undertakings or limitations, we are Requited to post/submit the results to the Financial Industry Regulatory Authority (FINRA). Please refer to our Form BD filed at http://www.finra.org/via FINRA Broker Check.

We have no reason to believe that current and post regulatory matters or litigation will affect our ability to aggressively market, sell, and distribute the District's bonds.

#### **Conflicts of Interest**

Each quarter, all public finance staff respond to inquiries about client interactions, political contributions/activity, and affiliations with public associations, boards, and commissions. Compliance review the responses and followup as required to identify, address, and resolve any potential conflicts of interest.

Given our California public finance presence, we have relationships with bond counsels, underwriters, financial advisors, rating agencies, trustees, investment providers, liquidity providers, auditors, verification agents, and other finance authorities associated with the District. Currently, these relationships do not present conflicts. Accordingly, we hereby certify:

- 1. Piper Jaffray has no conflicts of interest with the District and others who represent the District.
- 2. Oper Jaffray has no current knowledge of facts or circumstances that might create the appearance of a conflict of interest with the District and others who represent the District.
- 3. If actual or potential conflicts arise, we will consult with the District to address/resolve any conflicts.

Section 6: Costs LVMWDRFPIII-3-6

#### Overview

Prior to summarizing our proposed fees, it is essential to note that municipal advisor fees represent one of the smallest components of borrowing costs. More significant impacts on borrowing costs include project costs, interest rates, rate spreads to market rates (Municipal Market Data or MMD), legal structure, ratings, underwriter fees, bond-funded reserves, investor outreach, and other costs of issuance.

While we are not advocating that the District ignore the cost of municipal advisor fees, we are advocating that the value of our contributions be considered. We believe we will add more value than any other firm will and that our fees will be several times less than the value and the savings we will generate through lower interest rates.

Our objective to achieve lower costs of borrowing will be attributable to a better legal structure, higher ratings, alternatives to bond funded reserves, assertive investor outreach, and narrower spreads (differences) to market rates and comparable issues/issuers. We want your business and your trust and we encourage the District to focus on the value we will add.

Given our advising, consulting, placing, and underwriting expertise, for public offerings we will focus on comparable issuers, comparable issues, and the spread to Municipal Market Data for public offerings. It is reasonable for us to claim that our expertise will lower the District's cost of borrowing.

To quantify the unquie value we can add, we summarize the savings/benefits to the District if we guide underwriters to reduce the yields detailed in our scale in Section 4 by 1 basis point (bp = 0.01% and 100 bps = 1.00%), 5 bps, and 10 bps.

Project Finance: \$122 Million Market Conditions: June 20, 2019					
	Base	Base - 1 bps	Base - 5 bps	Base - 10 bps	
Par Amount	\$98,920,000	\$98,850,000	\$98,565,000	\$98,215,000	
Premium	\$23,790,716	\$23,860,858	\$24,141,396	\$24,490,236	
True Interest Cost (TIC)	2.63%	2.62%	2.59%	2.55%	
Maximum Annual Debt Service	\$7,939,500	\$7,934,500	\$7,912,250	\$7,883,250	
Average Annual Debt Service	\$7,937,563	\$7,931,975	\$7,909,313	\$7,881,163	
Total Debt Service	\$158,751,250	\$158,639,500	\$158,186,000	\$157,623,250	
Savings	\$0	-\$111,750	-\$565,250	-\$1,128,000	

#### **Proposed Fees ~ Hourly Rates & Retainer**

All of the proposed fees are subject to negotiation and are presented on a "not to exceed" basis. For the modeling/planning phase of the engagement, we would propose the following hourly rates, which are not related to a specific financing.

•	Managing Director/ Senior Vice President	\$250/hour
•	Vice President	\$200/hour
•	Associate/ Analyst	\$100/hour

We propose to negotiate a retainer fee of five thousand dollars (\$5,000) at the end of each quarter during the term of the engagement. Actual compensation/expenses can be deducted or compensated from this retainer.

Alternatively, we can negotiate not-to-exceed by project or task; e.g. a fixed fee to oversee and provide input on rate studies.

Invoices for the above general advisory service shall be submitted monthly, and shall include a breakdown of tasks, hours, and other allowable charges.

#### **Proposed Fees ~ Transactions**

We propose transaction compensation at closing from debt proceeds using the guidelines shown below. For financings involving additional complexity and/or an increased time commitment, we propose to negotiate a fee be higher than the guidelines. In contrast, other financings including financial assistance from state and federal program may be less complex and require less time and effort and we could negotiate lower fees.

#### **Transaction Fee Guideline**

Amount	Base Fee	+ Fee per \$1,000	Not to Exceed
\$10,000,000 or less:	\$10,000		\$20,000
\$10,000,001 to \$20,000,000	\$20,000		\$30,000
\$20,000,001 to \$30,000,000	\$30,000		\$40,000
\$30,000,001 to \$40,000,000	\$40,000		\$50,000
\$40,000,001 to \$50,000,000	\$50,000		\$50,000
\$50,000,001 or greater	\$50,000	\$0.50	\$80,000

We can negotiate a final transaction fee in writing prior to the marketing, pricing, and closing of financings.

#### **Reimbursable Expenses**

Reimbursable expenses include, but are not necessarily limited to, copying, printing, postage, local mileage, out of town travel and living expenses, and courier expenses subject to actual receipts or District requirements:

Copying, External	At Cost per Receipt
opying, Internal	Conform to District Rates/Charges
Printing, External	At Cost per Receipt
Printing, Internal	Conform to District Rates/Charges
Postage	At Cost per Receipt
Local Mileage	Conform to District Rates/Charges
Out-of-Town Travel & Living Expenses	At Cost & Conform to District Per Diem
Courier	At Cost per Receipt

# Attachment A: Advisor Transaction Experience

Advisory Client & Transaction	Amount	Date
City of Rolla, Missouri, Sewerage System Revenue Bonds, Series 2019	1,520,000	5/13/2019
LeGrand, Iowa, Sewer Revenue Loan Agreement, Series 2019	2,100,000	4/26/2019
City of Independence, Polk County, Oregon, Full Faith and Credit Bonds (Water Rights Purchase) Series 2019	800,000	4/10/2019
San Juan Water District, WIFIA & SRF	28,000,000	03/01/19
City of Jackson, Missouri Combined Waterworks and Sewerage System Revenue Bonds, Series 2019	4,000,000	2/5/2019
City of Centralia, Missouri, Waterworks and Sewerage System Revenue Bonds, Series 2018	755,000	12/20/2018
King County, Washington, 2018 Remarketing of 2011 and 2012 Junior Lien Sewer Revenue Bonds	200,000,000	11/14/2018
City of Tacoma, Washington, Sewer Revenue Bonds, 2018	100,945,000	11/6/2018
King County, Washington, Sewer Revenue Bonds, 2018, Series B	124,455,000	11/5/2018
City of Tacoma, Washington, Defeasance of 2006 and 2011 Sewer Revenue Bonds, 2018	34,163,803	10/22/2018
City of Raymore, Missouri, Special Obligation Bonds, Series 2018	1,190,000	8/30/2018
Metropolitan Utilities District of Omaha, Nebraska, Water System Revenue Bonds, Series 2018	37,390,000	8/23/2018
City of Smithville, Missouri Refunding and Improvement Certificates of Participation, Series 2018	8,635,000	8/7/2018
San Francisco Public Utilities Commission, WIFIA & SRF	1,300,000,000	7/18/2018
City of Kearney, Missouri, Certificates of Participation, Series 2018	7,360,000	7/12/2018
City of Tucson, Arizona, Water System Revenue Obligations, Series 2018	23,935,000	6/12/2018
City of Boulder, Colorado, Water and Sewer Revenue Bonds, Series 2018	38,260,000	5/15/2018
Water Infrastructure Finance Authority of Arizona, Rev 2018-B Defeasance	81,625,000	5/10/2018
City of Gresham, Oregon, Full Faith and Credit Facility, Series 2018	30,000,000	5/10/2018
City of St. Joseph, Missouri Sewerage System Revenue Bonds, Series 2018	15,905,000	3/26/2018
City of Willard, Missouri, Certificates of Participation (Combined Waterworks and Sewerage System Project) Series 2018	3,600,000	3/26/2018
Calvey Creek Sewer District, Missouri, Sewage System Refunding Revenue Bonds, Series 2018	995,000	3/14/2018
Water Infrastructure Finance Authority of Arizona, Defeasance, 2018	46,110,000	1/17/2018
Dominion Water and Sanitation District, Douglas County, Colorado, Junior Limited Revenue Promissory Note, Series 2017A	23,382,000	12/27/2017
Dominion Water and Sanitation District, Colorado, Water Rights Note, Series 2017C	3,920,000	12/20/2017
King County, Washington, Junior Lien Sewer Revenue Bonds, Series 2017		12/19/2017
Sioux Center, Iowa, Sewer Revenue Capital Loan Notes, Series 2017	9,242,000	12/14/2017
Sioux Center, Iowa, Taxable Sewer Revenue Capital Loan Notes, Series 2017		12/14/2017
City of Kent, Washington, Combined Utility System Revenue Refunding Bonds, 2017	13,180,000	12/14/2017
City of Monmouth, Polk County, Oregon, Full Faith and Credit Refunding Bonds, Series 2017A (Sewer-Tax-Exempt)	1,120,000	12/7/2017
City of Chandler, Arizona, Excise Tax Revenue Obligations, Series 2017	36,220,000	12/5/2017
City of Grants Pass, Josephine County, Oregon, Wastewater Revenue Bonds, Series 2018	7,985,000	12/5/2017
City of Moscow, Idaho, Wastewater Revenue Refunding Bonds, Series 2018	3,560,000	12/4/2017
King County, Washington, Sewer Revenue Refunding Bonds, 2017	149,485,000	12/4/2017
City of Grants Pass, Josephine County, Oregon, Wastewater Revenue Bonds, Series 2017	9,035,000	10/25/2017
Water District No. 1 of Johnson County, Kansas, Water Revenue Refunding Bonds, Series 2017A	110,205,000	10/10/2017
Water District No. 1 of Johnson County, Kansas, Water Revenue Bonds, Series 2017B	40,105,000	10/10/2017
King County, Washington, Limited Tax General Obligation Refunding Bonds (Payable from Sewer Revenues)  Series 2017	154,560,000	10/2/2017
Asbury, Iowa, Water Revenue Bonds (State Revolving Fund Project) Series 2017	1,719,000	9/8/2017
City of Renton, Washington, Water and Sewer Revenue Refunding Bonds, Series 2017	6,283,168	9/6/2017
Desoto, Iowa, Sewer Revenue Capital Loan Notes (SRF Program) Series 2017	1,967,000	9/1/2017
City of St. Joseph, Missouri, Sewerage System Revenue Bonds (State of Missouri - Direct Loan Program), Series 2017	66,850,000	8/23/2017



Advisory Client & Transaction	Amount	Date
Dominion Water and Sanitation District, Douglas County, Colorado, Subordinate Limited Revenue Promissory	2,340,000	8/2/2017
Water Note, Series 2017B	2,340,000	0/2/2017
City of Salem, Marion and Polk Counties, Oregon; Water and Sewer Revenue Refunding Bonds, Series 2017	55,990,000	6/29/2017
City of Tucson, Arizona, Water System Revenue and Revenue Refunding Obligations, Series 2017	106,970,000	6/15/2017
Water Infrastructure Finance Authority of Arizona, Defeasance, 2017	12,385,000	6/15/2017
City of Seattle, Washington, Drainage and Wastewater Improvement and Refunding Revenue Bonds, Series	234,125,000	6/6/2017
2017 City of Lathrop, California, Refunding Revenue Refinancing Bonds (Lathrop Financing Authority) Series 2017	11,455,000	5/18/2017
City of Scottsdale Municipal Property Corporation, Excise Tax Revenue Bonds (Water Improvements Project) Series 2017A	39,065,000	5/9/2017
Superstition Mountain Community Facilities District No. 1, Arizona, Refunding Revenue Bonds, Series 2017	19,282,000	4/12/2017
City of O'Fallon, Missouri, Special Obligation Bonds, Series 2017	19,515,000	4/5/2017
Aqua Pennsylvania, Inc., First Mortgage Bonds, Series of 2017C-D	50,000,000	1/31/2017
City of Seattle, Washington, Water System Improvement and Refunding Revenue Bonds, Series 2017	194,685,000	1/11/2017
City of Ellensburg, Washington, Water and Sewer Revenue Refunding Bonds, Series 2016	6,990,000	12/19/2016
Dominion Water and Sanitation District, Douglas County, Colorado, Tap Fee Revenue Bonds, Series 2016	85,025,000	12/15/2016
Aqua Pennsylvania, Inc., First Mortgage Bonds, Series of 2016A-B	85,000,000	12/15/2016
Walker County Water and Sewerage Authority, Georgia, Revenue Refunding Bond, Series 2016	8,750,000	12/2/2016
Duckett Creek Sanitary District, St. Charles County, Missouri, Lease Financing (Treatment Plant Projects)	7,061,000	11/23/2016
Little Blue Valley Sewer District, Missouri, Sewer Revenue Bonds, Series 2016	19,710,000	11/15/2016
City of Aurora, Colorado, acting by and through its Utility Enterprise, First-Lien Sewer Revenue Refunding Bonds, Series 2016	28,900,000	11/2/2016
King County, Washington, Sewer Improvement and Refunding Revenue Bonds, 2016, Series B	499,655,000	9/12/2016
Clackamas County Service District No. 1, Oregon, Sewer Revenue and Refunding Bonds, Series 2016	83,250,000	8/16/2016
City of Fountain, in El Paso County, Colorado, Water and Wastewater Utility Enterprise, Water Revenue Refunding Bonds, Series 2016	7,150,000	8/3/2016
City of Aurora, Colorado, acting by and through its Utility Enterprise, First-Lien Water Refunding Revenue Bonds, Series 2016 (Green Bonds)	437,025,000	7/19/2016
City of Seattle, Washington, Solid Waste System Improvement and Refunding Revenue Bonds, Series 2016	35,335,000	6/21/2016
City of Tucson, Arizona, Water System Revenue Obligations, Series 2016	17,215,000	6/8/2016
City of Seattle, Washington, Drainage and Wastewater System Improvement and Refunding Revenue Bonds, Series 2016	160,910,000	6/8/2016
City of Jefferson City, Missouri, Sewerage System Revenue Bonds, Series 2016	9,380,000	6/6/2016
City of Tacoma, Washington, Sewer Revenue Refunding Bonds, Series 2016A	31,855,000	5/4/2016
City of Tacoma, Washington, Sewer Revenue Refunding Bonds, Series 2016B	11,865,000	5/4/2016
City of Boulder, Colorado (Acting Through its Water Utility Enterprise and its Wastewater Utility Enterprise) Water and Sewer Revenue Bonds, Series 2016	34,145,000	5/3/2016
Eugene Water and Electric Board (EWEB), Oregon, Water Utility System Revenue and Refunding Bonds, Series 2016	39,180,000	4/26/2016
City of Jackson, Missouri, Combined Waterworks and Sewerage System Revenue Bonds, Series 2016	4,000,000	4/12/2016
Public Water Supply District No.5 of Cass County, Missouri, Refunding Certificates of Participation, Series 2016	355,000	4/7/2016
City of Tucson, Arizona, Water System Revenue Refunding Bonds, Series 2016-A	71,805,000	3/15/2016
City of Kirksville, Missouri, Combined Waterworks and Sewerage System Revenue Bonds, Series 2016 (State of Missouri - Direct Loan Program)	18,000,000	2/22/2016
City of Rio Vista, California, Sewer Enterprise Refunding Credit Facility Bonds, Series 2015	1,040,000	12/29/2015
City of Fulton, Missouri, Sewer Revenue Bonds (Direct Loan Program) State of Missouri State Revolving Fund Loan Program, Series 2015	13,000,000	12/3/2015
Aqua Pennsylvania, First Mortgage Bonds, Series of 2015	210,000,000	12/3/2015
City of Fountain, in El Paso County, Colorado, Acting by and through the City of Fountain Electric, Water and Wastewater Utility Enterprise, Water Revenue Bonds, Series 2015	3,965,000	11/17/2015
Metropolitan Utility District, Nebraska, Water Revenue Refunding and Improvement Bonds, Series 2015	188,895,000	11/17/2015



Advisory Client & Transaction	Amount	Date
King County, Washington, Junior Lien Variable Rate Demand Sewer Revenue Bonds, Series 2001B (LOC	50,000,000	11/16/2015
Substitution) (2015)		
King County, Washington, Junior Lien Variable Rate Demand Sewer Revenue Bonds, Series 2001A (LOC Substitution) (2015)	50,000,000	11/16/2015
City of Liberty, Missouri, Sewer System Refunding Revenue Bonds, Series 2015B	2,765,000	10/28/2015
Storm Lake, Iowa, Storm Water Revenue Capital Loan Notes, Series 2015	750,000	9/18/2015
City of Boulder, Colorado (Acting through its Water Utility Enterprise and its Wastewater Utility Enterprise) Water and Sewer Revenue Bonds, Series 2015	10,075,000	9/1/2015
Clayton County Solid Waste Management Authority, Georgia, Refunding Revenue Bonds, Series 2015	8,965,000	8/28/2015
City of Boulder, Colorado, Storm Water and Flood Management Revenue Bonds, Series 2015	22,845,000	6/16/2015
City of Seattle, Washington, Solid Waste Revenue Bonds, 2015	35,830,000	6/3/2015
State of Montana, General Obligation Bonds (Water Pollution Control State Revolving Fund Program) Series 2015C	24,365,000	5/27/2015
City of Seattle, Washington, Water System Improvement and Refunding Revenue Bonds, Series 2015	340,840,000	5/20/2015
Industrial Development Authority of the City of St. Joseph, Missouri, Sewer System Improvement and Refunding Bonds, Series 2015B	19,215,000	4/29/2015
Industrial Development Authority of the City of St. Joseph, Missouri, Sewer System Improvement and Refunding Bonds, Series 2015A	10,255,000	4/29/2015
City of Lebanon, Tennessee, Water and Sewer Revenue and Tax Bonds, Series 2015 (Qualified Energy Conservation Bonds - Direct Payment - Federally Taxable)	3,500,000	4/14/2015
College Park Business and Industrial Development Authority, Georgia, Revenue Bonds (Water and Sewer Project) Series 2015	8,720,000	3/11/2015
City of Tacoma, Washington, Sewer Revenue and Refunding Bonds, Series 2015	109,300,000	2/11/2015
City of Sequim, Washington, Water and Sewer Revenue Bonds, Series 2014	3,145,000	12/18/2014
City of Newport, Oregon, Water Revenue Loan Agreement, Series 2014	4,556,800	12/16/2014
Iowa Great Lakes Sanitary District, Iowa, General Obligation Capital Loan Notes, Series 2014B	6,800,000	12/15/2014
City of Kirksville, Missouri Combined Waterworks and Sewerage System Rev Bonds, Series 2014	1,485,000	12/10/2014
City of St. Joseph, Missouri Sewerage System Revenue Bonds, Series 2014B	5,755,000	12/8/2014
City of Greeley, Colorado, Water Revenue Refunding Bonds, Series 2014	9,145,000	12/2/2014
Aqua Pennsylvania, First Mortgage Bonds, Series of 2014	65,000,000	11/20/2014
Idaho Bond Bank Authority, Revenue Bonds, Series 2014C	12,805,000	11/6/2014
City of Willard, Missouri Refunding Certificates of Participation (Combined Waterworks & Sewerage Systems Project), Series 2014	2,295,000	11/4/2014
City and County of Denver, Colorado, Acting By and Through Its Board of Water Commissioners, Master Resolution Water Revenue Bonds, Series 2014A	48,670,000	9/16/2014
Sunrise Water Authority, Oregon. Water Revenue Refunding Bonds, Series 2014	14,490,000	6/25/2014
City of Jefferson, Missouri, Sewerage System Revenue Bonds, Series 2014	9,940,000	5/5/2014
Coralville, Iowa, Sewer Revenue Capital Loan Notes, Series 2014E	2,773,000	5/2/2014
City of Hermiston, Oregon, Water and Sewer System Revenue Bonds, Series 2014	4,715,000	4/23/2014
Water District No. 1 of Johnson County, Kansas, Water Revenue Bonds, Series 2014	86,350,000	1/14/2014



#### **FEATURED ARTICLE**

# Funding Sources for Water and Wastewater Projects - Part II



Greg Swartz, Piper Jaffray



Tom Innis, Piper Jaffray

# Written By Greg Swartz and Tom Innis

California's local governments can access a wide range of funding sources for water and wastewater projects. This article is intended to enable local governments to focus on the most likely sources for specific needs.

There are nine funding sources commonly used by California local governments to finance water and wastewater projects categorized into three broad sources:

- Government ~ Includes state and federal sources that provide grants and loans at below market rates.
- Market ~ With assistance from a financial advisor, placement agent, or underwriter, local governments sell debt to a wide range of investors ("public offering") or place debt to a single investor or a limited number of investors ("placement").
- Other ~ The third category includes lenders affiliated with national boards or national/state associations to provide easier and less expensive access to capital markets.

Each of the funding sources share the following characteristics:

- fund a wide range of water and wastewater projects;
- require final maturities equal to the useful life of the project or the typical final maturity noted;
- limit debt to a ratio of pledged annual revenues to annual debt service; and
- document debt as bonds, installment agreements, certificates of participation, or loans.

#### **System Wide Benefits**

Generally, projects with system wide benefits are secured and repaid by water, wastewater, or combined revenues. Local governments should expect to borrow or issue above a "practical" minimum given expenses associated with reviewing, rating, documenting, originating, closing, and/or servicing the debt. Generally, the minimums serve as a guide and are not fixed – see Table 2 as a guide.

Local governments should also expect a maximum borrowing amount subject to:

- borrower limits based on "debt coverage" or a ratio of annual net revenues divided annual debt service ranging from a standard 1.2 to 1 to a less common low of 1 to 1; and
- source limits driven by investor/market expectations (placements) or capacity issues (government sources).

As an example, a local government may be able to borrow \$100,000,000 based on its "debt coverage" but a funding source may have capacity to fund only \$50,000,000. In particular, government sources may limit funding to individual recipients. In this circumstance, the local government should rely on multiple funding sources to fully fund the project.

As a general guideline, local governments should focus on public offerings on WIFIA to co-fund projects in excess of \$50 million. For smaller projects under \$5 million where programmatic requirements (prevailing wages, procurement preferences, environmental assessments, etc...) can be disproportionately challenging, local governments should focus on IBank, PFA, and SDA.

#### **Rural and Disadvantaged Communities**

Three sources provide all or target a portion of funding to rural or financially disadvantaged local governments as noted in Table 3.

#### **Growth or Development**

Growth or development projects are likely to be funded by one or a combination of developer contributions, impact fees, or debt secured/repaid with assessments subject to the value of the benefitting property. In these circumstances, local governments should focus on funding through IBank, placements, or public offerings.

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Table 1: Overview of Sources Source	Grants Available	Meximum Rate	Maximum Final Maturity (Years)
Government			
Infrastructure & Economic Development Bank (IBank)	No	AAA	30
State Water Resources Control Board (SWRCB)	Yes	50% of AA-	30
USDA Rural Development (RD)	Yes		40
Water Infrastructure Finance & Innovation Act (WIFIA)	No	U.S. Trezsury	30
Market			
Placement	No	Varies by Issuer	10
Public Offering	No	Varies by Issuer	30
Other			
CA Special District Association Finance Corporation (SDA)	No	Varies by Borrower	30
CoBank	No	Varies by Borrower	30
Public Finance Authority (PFA)	No	AA + 0.25%	30

Table 2: Minimum & Maximum Debt			
	"Practical"	Maxim	um Debt
Source	Minimum Debt	Borrower Limits	Source Limits
CoBank	\$250,000	Debt Coverage	CoBank Capacity
IBank	\$500,000	Debt Coverage	Available Funding
PFA.	\$1,000,000	Debt Coverage	\$30,000,000
Placement	\$250,000	Debt Coverage	Varies by Investors
Public Offering	\$1,000,000	Debt Coverage	
RD	\$250,000	Debt Coverage	Available Funding
SDA	\$1,000,000	Debt Coverage	
SWRCB	\$250,000	Debt Coverage	Available Funding
WIFIA	\$25,000,000	Debt Coverage	Available Funding

Table 3: Source	es for Rural Areas or Disadvantaged Co	mmunities
Source	Required Recipients	Targeted Recipients
CoBank	Rusal Areas	
RD	Population of 10,000 or Less	Disadvantaged Communities
SWRCB		Portion of Funding to Disadvantaged Communities

## Stormwater Projects

Depending on security/repayment source, local governments should focus on placements, public offerings, SWRCB, and WIFIA to fund stormwater projects. Generally, the simpler the security/repayment source, local governments could obtain grants and subsidized loans from SWRCB.

#### **Water Source Remediation**

If a local government intends to remediate groundwater sources, likely funding sources depend on security/ repayment and the end users of remediated water. If secured/repaid with revenues, focus on CoBank, IBank, PFA, placements, public offerings, SWRCB, and WIFIA. If secured/repaid by assessments or other security or if the project benefits private interests, focus on CoBank, placements, or public offerings.

## Water Source Acquisition or Development

If a local government intends to acquire water sources or construct dams, reservoirs, or transmission lines within undisturbed areas, it should focus on CoBank, IBank, PFA, placements, public offerings, and SDA. Invariably, such projects involve water rights or environmental impacts that government sources find challenging to support.

# Non-Point Source Pollution Projects

If a local government sponsors a non-point source pollution project - like on-site treatment of animal wastes at a feeding operation, likely funding sources include CoBank, placements, public offerings, and SWRCB. If a private party secures debt, focus on CoBank, and placements.



Author Greg Swartz coordinates Piper Jaffray's Utility/SRF Finance practice nationally with co-author Tom Innis who manages Piper Jaffray's Water and Wastewater practice in California. Most recently they served as joint senior manager for the State of California Clean Water State Revolving Fund Revenue Bonds and are working as special advisor to the San Francisco Public Utility Commission's SRF/WIFIA program.

#### SOURCES AND USES OF FUNDS

Calleguas-Las Virgenes Public Financing Authority 2019 Sanitation System Refunding Revenue Bonds Market Conditions as of June 20, 2019 \*\*\*Preliminary; Subject to Change\*\*\* Assumes AA Underlying Rating No DSRF

Dated Date 08/03/2019 Delivery Date 08/03/2019

#### Sources:

Bond Proceeds:	
Par Amount	9,160,000.00
Premium	980,545.65
	10,140,545.65
Other Sources of Funds:	
Prior Bonds DSRF Release*	2,766,678.00
	12,907,223.65
Uses:	
Refunding Escrow Deposits:	
Cash Deposit	0.56
SLGS Purchases	12,679,666.00
	12,679,666.56
Delivery Date Expenses:	
Cost of Issuance	164,160.00
Underwriter's Discount	61,279.20
	225,439.20
Other Uses of Funds:	
Additional Proceeds	2,117.89
	12,907,223.65

Note: \*From 2018 CD Report.



#### SUMMARY OF REFUNDING RESULTS

Calleguas-Las Virgenes Public Financing Authority 2019 Sanitation System Refunding Revenue Bonds Market Conditions as of June 20, 2019 \*\*\*Preliminary; Subject to Change\*\*\* Assumes AA Underlying Rating No DSRF

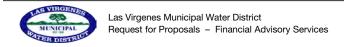
Dated Date	08/03/2019
Delivery Date	08/03/2019
Arbitrage yield	1.110595%
Escrow yield	1.110500%
Value of Negative Arbitrage	2.95
Bond Par Amount	9,160,000.00
True Interest Cost	1.338424%
Net Interest Cost	1.427829%
Average Coupon	5.000000%
Average Life	2.809
Par amount of refunded bonds	12,460,000.00
Average coupon of refunded bonds	4.079393%
Average life of refunded bonds	2.321
PV of prior debt to 08/03/2019 @ 1.110595%	13,430,583.38
Net PV Savings	525,477.62
Percentage savings of refunded bonds	4.217316%
Percentage savings of refunding bonds	5.736655%

#### SUMMARY OF BONDS REFUNDED

Calleguas-Las Virgenes Public Financing Authority 2019 Sanitation System Refunding Revenue Bonds Market Conditions as of June 20, 2019 \*\*\*Preliminary; Subject to Change\*\*\* Assumes AA Underlying Rating No DSRF

	Maturity	Interest	Par	Call	Call
Bond	Date	Rate	Amount	Date	Price
2009 Sanitation Syst	tem Refunding Reve	enue Bonds:			
SERIAL	11/01/2019	5.000%	2,305,000.00		
	11/01/2020	3.250%	2,400,000.00	11/01/2019	100.000
	11/01/2021	3.375%	2,480,000.00	11/01/2019	100.000
	11/01/2022	4.000%	400,000.00	11/01/2019	100.000
	11/01/2022	4.500%	2,180,000.00	11/01/2019	100.000
	11/01/2023	4.000%	850,000.00	11/01/2019	100.000
	11/01/2023	4.500%	1,845,000.00	11/01/2019	100.000
			12,460,000.00		

Note: Assumes 30-day call notice.



#### PRIOR BOND DEBT SERVICE

Calleguas-Las Virgenes Public Financing Authority 2019 Sanitation System Refunding Revenue Bonds Market Conditions as of June 20, 2019 \*\*\*Preliminary; Subject to Change\*\*\* Assumes AA Underlying Rating No DSRF

Period Ending	Principal	Coupon	Interest	Debt Service
11/01/2019	2,305,000	5.000%	254,037.50	2,559,037.50
11/01/2020 11/01/2021	2,400,000 2,480,000	3.250% 3.375%	392,825.00 314,825.00	2,792,825.00 2,794,825.00
11/01/2022	2,580,000	** %	231,125.00	2,811,125.00
11/01/2023	2,695,000	** %	117,025.00	2,812,025.00
	12,460,000		1,309,837.50	13,769,837.50

#### SAVINGS

Calleguas-Las Virgenes Public Financing Authority 2019 Sanitation System Refunding Revenue Bonds Market Conditions as of June 20, 2019 \*\*\*Preliminary; Subject to Change\*\*\* Assumes AA Underlying Rating No DSRF

Date	Prior Debt Service	Refunding Debt Service	Savings	Present Value to 08/03/2019 @ 1.1105952%
11/01/2019	2,559,037.50	111,955.56	2,447,081.94	2,440,465.97
11/01/2020	2,792,825.00	2,573,000.00	219,825.00	216,637.56
11/01/2021	2,794,825.00	2,577,250.00	217,575.00	212,131.89
11/01/2022	2,811,125.00	2,591,000.00	220,125.00	212,329.23
11/01/2023	2,812,025.00	2,593,500.00	218,525.00	208,473.09
	13,769,837.50	10,446,705.56	3,323,131.94	3,290,037.73

#### Savings Summary

PV of savings from cash flow	3,290,037.73
Less: Prior funds on hand	-2,766,678.00
Plus: Refunding funds on hand	2,117.89
Net PV Savings	525,477.62



#### BOND SUMMARY STATISTICS

Calleguas-Las Virgenes Public Financing Authority 2019 Sanitation System Refunding Revenue Bonds Market Conditions as of June 20, 2019 \*\*\*Preliminary; Subject to Change\*\*\* Assumes AA Underlying Rating No DSRF

Dated Date	08/03/2019
Delivery Date	08/03/2019
First Coupon	11/01/2019
Last Maturity	11/01/2023
Arbitrage Yield	1.110595%
True Interest Cost (TIC)	1.338424%
Net Interest Cost (NIC)	1.427829%
All-In TIC	1.958253%
Average Coupon	5.000000%
Average Life (years)	2.809
Duration of Issue (years)	2.675
Par Amount	9,160,000.00
Bond Proceeds	10,140,545.65
Total Interest	1,286,705.56
Net Interest	367,439.11
Total Debt Service	10,446,705.56
Maximum Annual Debt Service	2,593,500.00
Average Annual Debt Service	2,461,265.71
Underwriter's Fees (per \$1000)	
Average Takedown	3.000000
Other Fee	3.689869
Total Underwriter's Discount	6.689869
Bid Price	110.035660

Bond Component	Par Value	Price	Average Coupon	Average Life
Serial Bond	9,160,000.00	110.705	5.000%	2.809
	9,160,000.00		2.809	
	TIC	All-In TIC		Arbitrage Yield
Par Value + Accrued Interest	9,160,000.00	9,160,000.00		9,160,000.00
+ Premium (Discount) - Underwriter's Discount - Cost of Issuance Expense - Other Amounts	980,545.65 -61,279.20	980,545.65 -61,279.20 -164,160.00		980,545.65
Target Value	10,079,266.45	9,915,106.45		10,140,545.65
Target Date Yield	08/03/2019 1.338424%	08/03/2019 1.958253%		08/03/2019 1.110595%



#### BOND PRICING

Bond Componer	Maturity nt Date	Amount	Rate	Yield	Price
Serial Bond:					
	11/01/2020	2,115,000	5.000%	1.080%	104.830
	11/01/2021	2,225,000	5.000%	1.100%	108.621
	11/01/2022	2,350,000	5.000%	1.110%	112.360
	11/01/2023	2,470,000	5.000%	1.120%	116.037
		9,160,000			
1	Dated Date	0	8/03/2019		
	Delivery Date	-	8/03/2019		
	First Coupon		1/01/2019		
]	Par Amount	9.1	60,000.00		
]	Premium		080,545.65		
]	Production	10,1	40,545.65	110.704647%	
1	Underwriter's Discount		61,279.20	-0.668987%	
	Purchase Price Accrued Interest	10,0	079,266.45	110.035660%	
]	Net Proceeds	10,0	79,266.45		

#### BOND DEBT SERVICE

Period Ending	Principal	Coupon	Interest	Debt Service
11/01/2019			111,955.56	111,955.56
11/01/2020	2,115,000	5.000%	458,000.00	2,573,000.00
11/01/2021	2,225,000	5.000%	352,250.00	2,577,250.00
11/01/2022	2,350,000	5.000%	241,000.00	2,591,000.00
11/01/2023	2,470,000	5.000%	123,500.00	2,593,500.00
	9,160,000		1,286,705.56	10,446,705.56

#### ESCROW CASH FLOW

Calleguas-Las Virgenes Public Financing Authority 2019 Sanitation System Refunding Revenue Bonds Market Conditions as of June 20, 2019 \*\*\*Preliminary; Subject to Change\*\*\* Assumes AA Underlying Rating No DSRF

Date	Principal	Interest	Net Escrow Receipts	Present Value to 08/03/2019 @ 1.1104996%
11/01/2019	12,679,666.00	34,370.94	12,714,036.94	12,679,666.00
	12,679,666.00	34,370.94	12,714,036.94	12,679,666.00

#### Escrow Cost Summary

Purchase date	08/03/2019
Purchase cost of securities	12,679,666.00
Target for yield calculation	12,679,666.00



#### ESCROW COST

Type of Security	Maturity Date	Par Amount	Rate	Total Cost
SLGS SLGS	11/01/2019 11/01/2019	6,531,549 6,148,117		,531,549.00 ,148,117.00
		12,679,666	12,	,679,666.00
Purchase Date	Cost of Securities	Cash Deposit	Total Escrow Cost	Yield
08/03/2019	12,679,666	0.56	12,679,666.56	1.110500%
	12,679,666	0.56	12,679,666.56	

#### **ESCROW DESCRIPTIONS**

Calleguas-Las Virgenes Public Financing Authority 2019 Sanitation System Refunding Revenue Bonds Market Conditions as of June 20, 2019 \*\*\*Preliminary; Subject to Change\*\*\* Assumes AA Underlying Rating No DSRF

	Type of Security	Type of SLGS	Maturity Date	First Int Pmt Date	Par Amount	Rate	Max Rate
Aug 3, 20	19:						
<i>C</i> ,	SLGS	Certificate	11/01/2019	11/01/2019	6,531,549	2.140%	2.140%
	SLGS	Certificate	11/01/2019		6,148,117		2.140%
					12,679,666		

#### **SLGS Summary**

SLGS Rates File Total Certificates of Indebtedness 20JUN19 12,679,666.00



#### ESCROW REQUIREMENTS

Period Ending	Principal	Interest	Principal Redeemed	Total
11/01/2019	2,305,000.00	254,037.50	10,155,000.00	12,714,037.50
	2,305,000.00	254,037.50	10,155,000.00	12,714,037.50

#### ESCROW STATISTICS

Calleguas-Las Virgenes Public Financing Authority 2019 Sanitation System Refunding Revenue Bonds Market Conditions as of June 20, 2019 \*\*\*Preliminary; Subject to Change\*\*\* Assumes AA Underlying Rating No DSRF

Total Escrow Cost	Modified Duration (years)	Yield to Receipt Date	Yield to Disbursement Date	Perfect Escrow Cost	Value of Negative Arbitrage	Cost of Dead Time
Global Proceeds Escrow: 12,679,666.56	0.243	1.110500%	1.110500%	12,679,663.61	2.95	
12,679,666.56				12,679,663.61	2.95	0.00

Delivery date 08/03/2019 Arbitrage yield 1.110595%

#### ESCROW SUFFICIENCY

Date	Escrow Requirement	Net Escrow Receipts	Excess Receipts	Excess Balance
08/03/2019 11/01/2019	12,714,037.50	0.56 12,714,036.94	0.56 -0.56	0.56
	12,714,037.50	12,714,037.50	0.00	

#### COST OF ISSUANCE

Cost of Issuance	\$/1000	Amount
Bond Counsel	10.91703	100,000.00
Ratings (S&P)	2.18341	20,000.00
Ratings (Moody's)	1.91048	17,500.00
Trustee	0.54585	5,000.00
Municipal Advisor	1.00000	9,160.00
POS/OS Printer	0.27293	2,500.00
Contingency	1.09170	10,000.00
	17.92140	164,160.00

#### UNDERWRITER'S DISCOUNT

Underwriter's Discount	\$/1000	Amount
Average Takedown	3.00000	27,480.00
DTC	0.08734	800.00
CUSIP	0.07096	650.00
Day Loan	0.02000	183.20
iPREO Syndicate	0.10000	916.00
DAC Continuing Disclosure Review	0.10917	1,000.00
Underwriter's Counsel	2.72926	25,000.00
Pershing	0.02729	250.00
CDIAC	0.54585	5,000.00
	6.68987	61,279.20

#### DISCLAIMER

Calleguas-Las Virgenes Public Financing Authority 2019 Sanitation System Refunding Revenue Bonds Market Conditions as of June 20, 2019 \*\*\*Preliminary; Subject to Change\*\*\* Assumes AA Underlying Rating No DSRF

We are providing this material to provide you with certain regulatory disclosures as required by the Municipal Securities Rulemaking Board. As part of our services, Piper Jaffray may provide advice concerning the structure, timing, terms, and other similar matters concerning an issue of municipal securities that Piper Jaffray is underwriting or placing. However, Piper Jaffray intends to serve as an underwriter or placement agent and not as a financial advisor to you in this transaction; and the primary role of Piper Jaffray is to purchase securities for resale to investors or arrange for the placement of securities in an arm's-length commercial transaction between you and Piper Jaffray. Piper Jaffray has financial and other interests that differ from your interests.

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Section 1 Sources & Uses						
Phases	1	2	3	4	w	Total
Sourcees						
Bonds	1	62,336,728	52,031,237	16,550,496	1	130,918,460
Revenue	94,562,517		2,792,096	6,602,117	10,412,138	114,368,869
SRF	127,100,227	100,000,000		100,000,000		327,100,227
WIFIA	ı	155,970,582		118,323,099		274,293,681
Total	221,662,744	318,307,310	54,823,333	241,475,712	10,412,138	846,681,237
Uses						
Project	190,961,237	274,220,000	47,230,000	208,030,000	8,970,000	729,411,237
Management	30,701,507	44,087,310	7,593,333	33,445,712	1,442,138	117,270,000
Total	221,662,744	318,307,310	54,823,333	241,475,712	10,412,138	846,681,237



Section 2 Users											
Year Ending, June 30	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Connections											
Residential - Single Family	25,621	25,934	24,900	24,871	26,504	26,748	27,082	27,760	28,870	30,025	31,226
Residential - Multi Family or Mobile Homes	1,663	1,683	1,616	1,614	1,720	1,736	1,758	1,801	1,874	1,948	2,026
Industrial	38	38	37	37	39	39	40	41	42	4	46
Commercial	1,632	1,652	1,586	1,584	1,688	1,704	1,725	1,768	1,839	1,912	1,989
Other	09	61	58	58	62	63	63	65	89	70	73
Total	29,013	29,368	28,197	28,164	30,013	30,289	30,668	31,435	32,692	34,000	35,360
Connections Growth %		1.22%	-3.99%	-0.12%	6.57%	0.92%	1.25%	2.50%	4.00%	4.00%	4.00%

Connection Allocations	
Residential - Single Family	88.31%
Residential - Multi Family or Mobile Homes	5.73%
Industrial	0.13%
Commercial	5.62%
Other	0.21%



2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
10	32,475 33,774 3	35,125	35,125 36,530 37,991	37,991	39,510	41,091	42,735	44,444	46,222	48,071	49,993	51,993	54,073	56,236
_	2,192	2,279	2,371	2,465	2,564	2,667	2,773	2,884	3,000	3,120	3,244	3,374	3,509	3,649
48	50	52	54	26	58	09	63	65	89	71	74	77	80	83
2,068	2,151	2,237	2,327	2,420	2,516	2,617	2,722	2,831	2,944	3,062	3,184	3,311	3,444	3,582
9/	79	82	85	68	92	96	100	104	108	112	117	122	126	132
4	38,245	36,774 38,245 39,775 41,366 43,021	41,366	43,021	44,741	46,531	48,392	50,328	52,341	54,435	56,612	58,877	61,232	63,681
_	4.00%	4.00% 4.00% 4.00% 4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%



Rate Structure  Monthly Flat Rates by User Type Residential - Single Family Residential - Multi Family or Mobile Homes Monthly Volume Rates by User Type & 100 cf Water Used/Discharged Commercial - Standard Load Strength	2018							
Monthly Flat Rates by User Type Residential - Single Family Residential - Multi Family or Mobile Homes Monthly Volume Rates by User Type & 100 cf Water Used/Discharged Commercial - Standard Load Strength	0107	2019	2020	2021	2022	2023	2024	2025
Monthly Flat Rates by User Type Residential - Single Family Residential - Multi Family or Mobile Homes Monthly Volume Rates by User Type & 100 cf Water Used/Discharged Commercial - Standard Load Strength								
Residential - Single Family Residential - Multi Family or Mobile Homes Monthly Volume Rates by User Type & 100 cf Water Used/Discharged Commercial - Standard Load Strength								
Residential - Multi Family or Mobile Homes Monthly Volume Rates by User Type & 100 cf Water Used/Discharged Commercial - Standard Load Strength	47.18	49.36	52.82	55.98	59.34	62.31	65.43	62.39
Monthly Volume Rates by User Type & 100 cf Water Used/Discharged Commercial - Standard Load Strength	30.45	34.17	36.56	38.76	41.08	43.13	45.29	46.65
Commercial - Standard Load Strength								
•	4.20	4.74	5.07	5.38	5.70	5.98	6.28	6.47
Commercial - Low Load Strength	4.65	5.24	5.61	5.94	6.30	6.61	6.95	7.15
Commercial - High Load Strength	7.96	90.6	69.6	10.28	10.89	11.44	12.01	12.37
Annual Discharge Rates by Industrial User								
per 1 Million Gals Discharge	4,399.69	4,929.51	5,274.58	5,591.05	5,926.51	6,222.84	6,533.98	6,730.00
per 1,000 lbs of Suspended Solids	1,601.19	1,776.50	1,900.86	2,014.91	2,135.80	2,242.59	2,354.72	2,425.36
per 1,000 lbs of Organic Carbon	2,076.50	2,339.76	2,503.54	2,653.76	2,812.98	2,953.63	3,101.31	3,194.35
per 1,000 lbs of Ammonia Nitrogren	6,318.62	7,036.84	7,529.42	7,981.18	8,460.05	8,883.06	9,327.21	9,607.03
Rate Increases								
Monthly Hat Rates by User Type								
Residential - Single Family	%19.6	10.00%	7.00%	%00.9	%00.9	5.00%	2.00%	3.00%
Residential - Multi Family or Mobile Homes		12.22%	7.00%	%00.9	%00.9	2.00%	2.00%	3.00%
Monthly Volume Rates by User Type & 100 cf Water Used/Discharged								
Commercial - Standard Load Strength		12.86%	7.00%	%00.9	%00'9	2.00%	2.00%	3.00%
Commercial - Low Load Strength		12.69%	7.00%	%00.9	%00.9	2.00%	2.00%	3.00%
Commercial - High Load Strength		13.82%	7.00%	%00.9	%00.9	2.00%	2.00%	3.00%
Annual Discharge Rates by Industrial User								
per 1 Million Gals Discharge		12.04%	7.00%	%00.9	%00'9	2.00%	2.00%	3.00%
per 1,000 lbs of Suspended Solids		10.95%	7.00%	%00.9	%00.9	5.00%	2.00%	3.00%
per 1,000 lbs of Organic Carbon		12.68%	7.00%	%00.9	%00.9	2.00%	2.00%	3.00%
per 1,000 lbs of Ammonia Nitrogren		11.37%	7.00%	%00.9	%00.9	5.00%	5.00%	3.00%



2038	93.46	64.70	8.97	9.92	17.15	9,333.60	3,363.65	4,430.13	13,323.64	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
2037	92.53	64.06	8.89	9.82	16.98	9,241.18	3,330.34	4,386.27	13,191.72	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
2036	71.16	63.11	8.75	89.6	16.73	9,104.61	3,281.13	4,321.45	12,996.77	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
2035	× × × × × × × × × × × × × × × × × × ×	61.27	8.50	9.40	16.25	8,839.43	3,185.56	4,195.58	12,618.23	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%
2034	81 95	56.73	7.87	8.70	15.04	8,184.66	2,949.59	3,884.80	11,683.54	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%
2033	75 88	52.53	7.29	8.06	13.93	7,578.39	2,731.10	3,597.03	10,818.09	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
2032	79 <i>CT</i>	50.51	7.01	7.75	13.39	7,286.91	2,626.06	3,458.69	10,402.01	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
2031	4C CT	50.01	6.94	7.67	13.26	7,214.76	2,600.06	3,424.44	10,299.02	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
2030	71.53	49.52	6.87	7.59	13.13	7,143.33	2,574.32	3,390.54	10,197.05	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
2029	70.82	49.03	6.80	7.52	13.00	7,072.60	2,548.83	3,356.97	10,096.09	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
2028	70 12	48.54	6.73	7.44	12.87	7,002.58	2,523.59	3,323.73	9,996.13	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
2027	69 42		6.67		12.74	6,933.25	2,498.61	3,290.82	9,897.16	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
2026	68 74	47.58	09.9	7.30	12.62	6,864.60	2,473.87	3,258.24	9,799.17	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%



Section 4 Sources								
Year Ending, June 30	2017	2018	2019	2020	2021	2022	2023	2024
Service Fees								
Sewer Fees - City	33,175,456	36,361,629	39,997,792	42,797,637	45,365,495	48,087,425	50,491,797	53,016,387
Sewer Fees - Non-City	1,015,123	1,126,197	1,238,817	1,325,534	1,405,066	1,489,370	1,563,838	1,642,030
CAFR Adjustment	(6,682)	1		1	1	1		1
Subtotal	34,183,897	37,487,826	41,236,609	44,123,171	46,770,561	49,576,795	52,055,635	54,658,417
Connection & Development Fees Sewer Connection Fees	3,362,244	3,579,098	1,789,549	894,774	912,670	930,924	949,542	968,533
Storm Drain Fees		1,530	1,561	1,592	1,624	1,656	1,689	1,723
Subtotal	3,362,244	3,580,628	1,791,110	896,366	914,294	932,580	951,231	970,256
Interest Income	197,817	244,836	454,519	811,543	1,067,261	991,132	999,565	926,780
Other Revenues Other Agencies - Reimbursements	58.594	50.000	ı	ı	1	ı	ı	
SF Bay Water Quality Grant		380,000	ı	ı	ı	1	ı	1
Miscellaneous Grants	699,946	169,303	410,209	ı	ı	1	1	ı
Permit - Water Discharge	11,972	15,606	15,918	16,236	16,561	16,892	17,230	17,575
Late Payment Penalties	75,294	82,473	90,721	97,071	102,895	109,069	114,522	120,249
Sales from PGE Electricity	20,965	50,768	51,783	52,819	53,875	54,953	56,052	57,173
Miscellaneous	57,109	1	ı	ı	ı	ı	1	ı
Subtotal	923,880	748,150	568,631	166,126	173,331	180,914	187,804	194,997
Transfers General Fund (Storm Sewer)	ı	3 146 100	ı	,	ı		,	ı
Solid Waste Management Fund	405,503	416,805	404,744	404,744	404,744	243,614	1	ı
Water Fund	172,611	659,829	ı	ı		. 1	ı	ı
Subtotal	578,114	4,222,734	404,744	404,744	404,744	243,614	1	1
Bond & Loan Proceeds								
Bond	ı	ı	ı	31,168,364	31,168,364	26,015,618	26,015,618	ı
SRF 2017	3,826,736	66,374,104	31,157,395	23,020,996	2,720,996	1	1	ı
SRF 2020	•	1	•	25,000,000	25,000,000	25,000,000	25,000,000	1
SRF 2028	1	ı	1	ı	ı	ı	1	ı
WIFIA 2020	1	ı	1	38,992,645	38,992,645	38,992,645	38,992,645	1
WIFIA 2028	1	1	1	1	I	1	ı	1
Subtotal	3,826,736	66,374,104	31,157,395	118,182,006	97,882,006	90,008,264	90,008,264	ı
Total Sources	43,072,688	112,658,278	75,613,008	164,583,956	147,212,197	141,933,299	144,202,499	56,750,450



2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
54,606,878	55,698,187	56,255,169	56,817,721	57,385,898	57,959,757	58,539,354	59,124,748	61,489,738	66,408,917
1,691,291	1,725,946	1,743,205	1,760,637	1,778,243	1,796,026	1,813,986	1,832,126	1,905,411	2,057,844
-	-	-	-	ı	-	-	1	-	ı
56,298,169	57,424,133	57,998,374	58,578,358	59,164,141	59,755,783	60,353,340	60,956,874	63,395,149	68,466,761
987,904	1,007,661	1,027,815	1,048,371	1,079,822	1,112,216	1,145,583	1,179,951	1,215,349	1,251,810
1,757	1,793	1,828	1,865	1,921	1,979	2,038	2,099	2,162	2,227
989,661	1,009,454	1,029,643	1,050,236	1,081,743	1,114,195	1,147,621	1,182,050	1,217,511	1,254,037
930,437	1,008,334	1,119,217	1,188,011	1,733,913	1,383,969	1,452,715	1,514,778	1,292,605	769,177
			1						
1	1	•	ı	ı	1	ı	1	1	ı
ı	ı	ı	ı	ı	ı	ı	ı	1	ı
17,926	18,285	18,651	19,024	19,795	20,149	20,512	20,883	21,633	22,923
123,856	126,394	127,658	128,934	130,850	133,193	135,592	138,046	143,002	151,530
58,316	990,09	61,868	63,724	64,809	62,969	67,157	68,373	70,828	75,051
ı	1	1	1	ı	1	1	ı	ı	1
200,098	204,745	208,177	211,682	215,453	219,312	223,261	227,302	235,463	249,504
•	•	ı			1	1	1	•	1
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ı	ı	16,550,496	ı	ı	1	1	ı	ı	1
I	I	•	•	•	ı	1	•	ı	ı
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ı	ı	1	25,000,000	25,000,000	25,000,000	25,000,000	ı	1	1
1	1	1	ı	i	1				
ı	ı	ı	29,580,775	29,580,775	29,580,775	29,580,775	ı	ı	ı
1 0	1 1	16,550,496	54,580,775	54,580,775	54,580,775	54,580,775	1 0	1 1	
58,418,365	59,646,666	76,905,907	115,609,061	116,776,025	117,054,033	117,757,712	63,881,004	66,140,728	70,739,479



11	2	7		l o	4	9	lo	7				9	<b>∞</b>	2		ام			j							l
2038	75,731,192	2,346,717	-	78,077,910	1,408,924	2,506	1,411,430	1,119,567	ı	1	1	26,006	171,908	85,145	1	283,059	ı	1	-	ı	ı	1	ı	ı	1	1
2037	74,981,378	2,323,483	-	77,304,861	1,367,887	2,433	1,370,320	993,029	ı	ı	1	25,552	168,908	83,659	1	278,119	ı	1	-	ı	1	1	ı	ı	ı	
2036	73,873,279	2,289,145	ı	76,162,425	1,328,045	2,363	1,330,408	904,264	1	1	1	25,032	165,471	81,956	1	272,460	ı	ı	1	ı	•	1	I	ı	1	ı
2035	71,721,630	2,222,471	-	73,944,102	1,289,364	2,294	1,291,658	881,583	ı	ı	ı	24,303	160,652	79,569	ı	264,524	ı	ı	1	1	ı	ı	ı		ı	
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Section 5 Uses							
Year Ending, June 30	2017	2018	2019	2020	2021	2022	2023
Reserve/Fund Balance, July 1	25,781,949	16,301,059	11,592,804	6,307,412	861,098	18,459,859	27,203,014
Operating Expenses Operations In-Lieu Charges and Fund Transfers Project Operating Total Operating Expenses	16,693,768 4,228,307 - 20,922,075	19,043,809 4,857,226 45,900 23,946,935	18,658,388 4,043,970 30,939 22,733,297	19,190,562 4,111,526 35,938 23,338,026	20,000,672 3,795,460 36,356 23,832,488	20,519,522 3,572,706 36,783 24,129,011	20,550,321 3,643,873 37,219 24,231,413
Debt Service Series 2017 & SRF 2017 Bonds SRF 2020 SRF 2020 WIFIA 2020	2,899,759	2,088,426	2,050,641	2,053,175 1,829,439	2,058,058 3,337,471 487,500 - 1,072,298	7,317,231 4,874,332 975,000 - 2,144,596	7,332,251 6,142,864 1,462,500 - 3,216,893
Total Debt Service	2,899,759	2,088,426	2,050,641	3,882,614	6,955,327	15,311,158	18,154,509
Interfund Loan Repayment	1,264,379	1,316,438	1,316,438	980,995	949,615	949,615	949,615
Bond & Loan Proceed Funded Projects	3,826,736	66,374,104	31,157,395	118,182,006	97,882,006	90,008,264	90,008,264
Revenue & Reserve Funded Projects	23,640,629	23,640,629	23,640,629	23,640,629		2,792,096	
Reserve Funded Debt Service				ı		ı	ı
Reserves  Debt Service Contingencies (25% Op Uses) Capital & Infrastructure (10% Service Fees) Rate Stabilization Total Reserves	3,668,200 4,173,442 3,418,390 5,041,027 16,301,059	5,270,934 4,760,952 3,748,783 (2,187,864) 11,592,804	5,270,934 4,664,597 4,123,661 (7,751,780) 6,307,412	10,210,721 4,797,641 4,412,317 (18,553,581) 867,098	10,210,721 5,000,168 4,677,056 (1,428,086) 18,459,859	10,210,721 5,129,881 4,957,680 6,904,733 27,203,014	10,210,721 5,137,580 5,205,563 17,507,848 38,061,712



2033	67,260,133	25,846,100 4,718,808 43,999	30,608,907	6,431,934	7,133,695	4,939,787	8,475,623	38,350,640	ı	ı		10,600,000	15 150 500	13,130,300	6,461,525	6,339,515	25,889,766	53,841,314
2032	69,872,733	25,158,729 4,500,658 43,155	29,702,542	6,437,184	7,134,583	1,950,000	8,475,623	32,191,062	ı	ı		4,600,000	15 150 500	12,120,200	6,289,682	6,095,687	39,724,256	67,260,133
2031	71,591,499	25,419,877 4,491,483 42,335	29,953,695	6,491,654	7,132,030	1,462,500	8,475,623	30,942,008	ı	54,580,775		4,000,000	15 150 500	13,130,300	6,354,969	6,035,334	42,331,922	69,872,733
2030	72,314,797	24,722,276 4,301,130 41,538	29,064,944	6,487,763	7,125,792	975,000	8,475,623	1,626,943 29,630,907	1	54,580,775	2,200,706	2,300,000	15 150 500	12,120,200	6,180,569	5,975,578	44,284,844	71,591,499
2029	68,713,961	24,006,880 4,021,104 40,766	28,068,750	6,492,299	7,116,279	487,500	8,475,623	28,324,959	ı	54,580,775	2,200,706	1	15 150 500	12,120,200	6,001,720	5,916,414	45,246,155	72,314,797
2028	64,389,076	23,271,182 4,062,946 40,015	27,374,143	6,490,011	6,706,086 4,939,787	. 1	8,475,623	26,611,507	517,046	54,580,775	2,200,706	ı	15 150 500	000,001,01	5,817,796	5,857,836	41,887,822	68,713,961
2027	58,955,492	22,724,368 4,048,637 39,287	26,812,292	7,336,399	6,208,110 4,939,787		8,475,623	26,959,919	949,615	16,550,496		200,000	107 010 01	10,710,721	5,681,092	5,799,837	42,697,426	64,389,076
2026	53,529,124	22,139,042 3,948,486 38,579	26,126,107	7,335,497	6,193,669 4,939,787	. 1	8,475,623	26,944,576	949,615	ı		200,000	107 010 01	10,710,721	5,534,761	5,742,413	37,467,597	58,955,492
2025	49,228,353	21,570,138 3,835,256 38,117	25,443,511	7,331,335	6,177,724 4,939,787		8,475,623	26,924,469	949,615	1		800,000	10701001	10,710,721	5,392,535	5,629,817	32,296,052	53,529,124
2024	38,061,712	21,069,728 3,796,735 37,663	24,904,126	7,330,354	6,160,522 1,950,000		4,289,191	19,730,067	949,615	1		ı	10701001	10,710,721	5,267,432	5,465,842	28,284,359	49,228,353



2038	55,308,842	29,369,419 5,241,838 48,619	34,659,876	5,399,934	4,939,787	4,939,787	8,475,623 6,429,815	37,261,354	1	ı		1	15,150,508	7,342,355	7,807,791	33,978,924 64,279,577
2037	52,635,816 5	28,586,436 2 5,117,883 47,639	33,751,958 3	6,434,734			8,475,623 6,429,815	38,315,276 3	1	ı	5,206,069	1	15,150,508	7,146,609		25,281,239 3 55,308,842 6
2036	50,904,883 5	27,903,404 2 4,954,304 46,689		6,432,934	4,939,787	4,939,787	8,475,623 6,429,815		ı	ı	5,206,069	500,000	15,150,508	6,975,851		22,893,215 2 52,635,816 5
2035	47,127,417	27,215,074 5,001,845 45,766		6,434,734	4,939,787	4,939,787	8,475,623 6,429,815		1	ı		2,000,000	15,150,508	6,803,769		21,556,197 50,904,883
2034	53,841,314	26,550,813 5,113,487 44,870	31,709,170	6,429,934	4,939,787	4,939,787	8,475,623 6,429,815	38,344,206	ı	ı		7,400,000	15,150,508	6,637,703	6,846,676	18,492,530 47,127,417



Section 6 Cash Flow & Coverage										
Year Ending, June 30	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Rate Stabilization Fund	ı	1	ı	ı	ı	1	1	ı	800,000	200,000
Gross Revenues	37,743,958	37,743,958 41,313,290	43,482,238	45,831,080	48,752,116	51,500,507	54,006,431	56,555,453	58,218,267	59,441,921
Operating Expenditures	20,922,075	20,922,075 23,946,935	22,733,297	23,338,026	23,832,488	24,129,011	24,231,413	24,904,126	25,443,511	26,126,107
Net Revenues	16,821,883	17,366,355	20,748,941	22,493,054	24,919,628	27,371,496	29,775,018	31,651,327	33,574,756	33,515,814
Debt Service	4,164,138	3,404,864	3,367,079	4,863,609	7,904,942	16,260,773	19,104,124	20,679,682	27,874,084	27,894,191
Coverage	4.04	5.10	6.16	4.62	3.15	1.68	1.56	1.53	1.20	1.20
Other Revenues & Transfers 1,501,994	1,501,994	4,970,884	973,375	570,870	578,075	424,528	187,804	194,997	200,098	204,745
Excess or (Shortfall)	14,159,739	4,970,884	973,375	570,870	578,075	424,528	187,804	194,997	1,000,098	404,745



2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
200,000	•	ı	2,300,000	4,000,000	4,600,000	4,600,000 10,600,000	7,400,000	2,000,000	500,000	1	•
60,147,234	60,147,234 60,816,605 61,979,797	61,979,797	62,253,947	62,953,676	62,953,676 63,653,702	65,905,265		76,117,343	70,489,975 76,117,343 78,397,097 79,668,210 80,608,907	79,668,210	80,608,907
26,812,292	26,812,292 27,374,143 28,068,750 29,064,944	28,068,750	29,064,944	29,953,695	29,702,542	30,608,907	29,953,695 29,702,542 30,608,907 31,709,170 32,262,685 32,904,397 33,751,958 34,659,876	32,262,685	32,904,397	33,751,958	34,659,876
33,534,942	33,534,942 33,442,462 33,911,047 35,489,003	33,911,047	35,489,003	36,999,981	38,551,160	45,896,358	36,999,981 38,551,160 45,896,358 46,180,805 45,854,658 45,992,700 45,916,252 45,949,031	45,854,658	45,992,700	45,916,252	45,949,031
27,909,534	27,909,534 27,128,553 28,324,959 29,630,907	28,324,959	29,630,907	30,942,008	32,191,062	38,350,640	30,942,008 32,191,062 38,350,640 38,344,206 38,341,715 38,328,157 38,315,276 37,261,354	38,341,715	38,328,157	38,315,276	37,261,354
1.20	1.23	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.23
208,177	211,682	215,453	219,312	223,261	227,302	235,463	249,504	264,524	272,460	278,119	283,059
408,177	211,682	215,453	2,519,312	4,223,261	4,827,302	10,835,463	7,649,504	2,264,524	772,460	278,119	283,059



#### **INFORMATION ONLY**



August 6, 2019 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject: GFOA Certificate of Achievement for Excellence in Financial Reporting

and Award for Popular Annual Financial Report

#### **SUMMARY:**

The Government Finance Officers Association of the United States and Canada (GFOA) presented the District with a Certificate of Achievement for Excellence in Financial Reporting for its fiscal year ending on June 30, 2018. The certificate is provided to agencies that fulfill the requirements of the programs and demonstrate a commitment to the highest standards of government finance. In addition, the Government Finance Officers Association of the United States and Canada (GFOA) presented the District with an Award for Outstanding Achievement in Popular Annual Financial Reporting for its fiscal year ending on June 30, 2018. The certificate represents a significant accomplishment by a governmental agency and its management.

#### **FISCAL IMPACT:**

No

#### **ITEM BUDGETED:**

No

#### **DISCUSSION:**

#### Comprehensive Annual Financial Report:

The District's Comprehensive Annual Financial Report (CAFR) for the fiscal year ending on June 30, 2018 was awarded the Certificate of Achievement for Excellence in Financial Reporting by the GFOA. This represents the 20th straight year the District has received the award. The Certificate of Achievement for Excellence in Financial Reporting is the highest form of recognition for excellence in state and local government financial reporting. In order to

be awarded a Certificate of Achievement, a governmental agency must publish an easily readable and efficiently organized comprehensive annual financial report. The report must satisfy both Generally Accepted Accounting Principles and applicable legal requirements.

The GFOA established the Certificate of Achievement for Excellence in Financial Reporting (CAFR Program) in 1945 to encourage and assist state and local governments to go beyond the minimum requirements of Generally Accepted Accounting Principles and prepare CAFRs that evidence the spirit of transparency and full disclosure.

#### Popular Annual Financial Report:

The District first issued a Popular Annual Financial Report for Fiscal Year 2013-14. The GFOA has given the District an Award for Outstanding Achievement in Popular Annual Financial Reporting for the year ending on June 30, 2018. The Award for Outstanding Achievement in Popular Annual Financial Reporting is a prestigious national award recognizing conformance with the highest standards for preparation of state and local government popular reports.

#### **GOALS:**

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Angela Saccareccia, Finance Manager

#### **ATTACHMENTS:**

CAFR Award PAFR Award



Government Finance Officers Association

## Certificate of Achievement for Excellence in Financial Reporting

Presented to

# Las Virgenes Municipal Water District California

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

June 30, 2018

Christophu P. Morrill

**Executive Director/CEO** 



Government Finance Officers Association

# Award for Outstanding Achievement in Popular Annual Financial Reporting

Presented to

# Las Virgenes Municipal Water District California

For its Annual
Financial Report
for the Fiscal Year Ended

June 30, 2018

Christopher P. Morrill

Executive Director/CEO