#### MEETING OF THE BOARD OF DIRECTORS OF THE MUNICIPAL WATER DISTRICT OF ORANGE COUNTY Jointly with the ADMINISTRATION & FINANCE COMMITTEE October 10, 2018, 8:30 a.m. MWDOC Conference Room 101

#### Committee

Director Thomas, Chair Director Dick Director Finnegan Staff: R. Hunter, K. Seckel, C. Harris, K. Davanaugh, H. Chumpitazi

Ex Officio Member: Director Barbre

MWDOC Committee meetings are noticed and held as joint meetings of the Committee and the entire Board of Directors and all members of the Board of Directors may attend and participate in the discussion. Each Committee has designated Committee members, and other members of the Board are designated alternate committee members. If less than a quorum of the full Board is in attendance, the Board meeting will be adjourned for lack of a quorum and the meeting will proceed as a meeting of the Committee with those Committee members and alternate members in attendance acting as the Committee.

**PUBLIC COMMENTS -** Public comments on agenda items and items under the jurisdiction of the Committee should be made at this time.

**ITEMS RECEIVED TOO LATE TO BE AGENDIZED** - Determine there is a need to take immediate action on item(s) and that the need for action came to the attention of the District subsequent to the posting of the Agenda. (Requires a unanimous vote of the Committee)

#### ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING --

Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection in the lobby of the District's business office located at 18700 Ward Street, Fountain Valley, California 92708, during regular business hours. When practical, these public records will also be made available on the District's Internet Web site, accessible at <a href="http://www.mwdoc.com">http://www.mwdoc.com</a>.

## PROPOSED BOARD CONSENT CALENDAR ITEMS

- 1. TREASURER'S REPORT
  - a. Revenue/Cash Receipt Report September 2018
  - b. Disbursement Approval Report for the month of October 2018
  - c. Disbursement Ratification Report for the month of September 2018
  - d. GM Approved Disbursement Report for the month of September 2018
  - e. Water Use Efficiency Projects Cash Flow September 30, 2018
  - f. Consolidated Summary of Cash and Investment August 2018
  - g. OPEB Trust Fund monthly statement
- 2. FINANCIAL REPORT
  - a. Combined Financial Statements and Budget Comparative for the Period ending August 31, 2018

#### 3. HEALTH SAVINGS ACCOUNT ELECTIONS FOR 2019

**INFORMATION ITEMS –** (THE FOLLOWING ITEMS ARE FOR INFORMATIONAL PURPOSES ONLY – BACKGROUND INFORMATION IS INCLUDED IN THE PACKET. DISCUSSION IS NOT NECESSARY UNLESS REQUESTED BY A DIRECTOR.)

- 4. HEALTH BENEFIT RATES FOR 2019
- 5. DISPOSAL OF FIXED ASSETS
- 6. CALPERS ANNUAL VALUATION REPORT AS OF JUNE 30, 2017
- 7. DEPARTMENT ACTIVITIES REPORTS
  - a. Administration
  - b. Finance and Information Technology
- 8. MONTHLY WATER USAGE DATA, TIER 2 PROJECTION, AND WATER SUPPLY INFORMATION

#### **OTHER ITEMS**

9. REVIEW ISSUES REGARDING DISTRICT ORGANIZATION, PERSONNEL MATTERS, EMPLOYEE BENEFITS FINANCE AND INSURANCE

#### ADJOURNMENT

**NOTE:** At the discretion of the Committee, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated, and may be subject to action by the Committee. On those items designated for Board action, the Committee reviews the items and makes a recommendation for final action to the full Board of Directors; final action will be taken by the Board of Directors. Agendas for Committee and Board meetings may be obtained from the District Secretary. Members of the public are advised that the Board consideration process includes consideration of each agenda item by one or more Committees indicated on the Board Action Sheet. Attendance at Committee meetings and the Board meeting considering an item consequently is advised.

<u>Accommodations for the Disabled.</u> Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning Maribeth Goldsby, District Secretary, at (714) 963-3058, or writing to Municipal Water District of Orange County at P.O. Box 20895, Fountain Valley, CA 92728. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

# Item 1a

#### Municipal Water District of Orange County REVENUE / CASH RECEIPT REPORT September 2018

#### WATER REVENUES

Date	From	Description	Amount
09/04/18	City of La Palma	July 2018 Water deliveries	4,280.03
09/04/18	City of Garden Grove	July 2018 Water deliveries	698,792.35
09/07/18	City of Buena Park	July 2018 Water deliveries	275,803.36
09/07/18	City of San Clemente	July 2018 Water deliveries	769,466.38
09/10/18	City of La Habra	July 2018 Water deliveries	11,607.90
09/10/18	El Toro Water District	July 2018 Water deliveries	709,635.84
09/10/18	Santa Margarita Water District	July 2018 Water deliveries	2,496,502.75
09/10/18	South Coast Water District	July 2018 Water deliveries	534,293.80
09/10/18	City of Seal Beach	July 2018 Water deliveries	206,279.43
09/11/18	Laguna Beach County Water District	July 2018 Water deliveries	233,208.20
09/13/18	City of San Juan Capistrano	July 2018 Water deliveries	658,353.08
09/13/18	City of Westminster	July 2018 Water deliveries	220,940.52
09/13/18	City of Orange	July 2018 Water deliveries	631,927.44
09/14/18	East Orange County Water District	July 2018 Water deliveries	508,926.45
09/14/18	Orange County Water District	July 2018 Water deliveries	5,476,291.22
09/14/18	Moulton Niguel Water District	July 2018 Water deliveries	2,605,431.44
09/14/18	Yorba Linda Water District	July 2018 Water deliveries	755,245.24
09/14/18	Irvine Ranch Water District	July 2018 Water deliveries	1,216,588.35
09/14/18	Golden State Water Company	July 2018 Water deliveries	603,396.86
09/21/18	City of La Habra	August 2018 Water deliveries	31,603.40
09/27/18	Trabuco Canyon Water District	August 2018 Water deliveries	246,100.06
09/27/18	City of Fountain Valley	August 2018 Water deliveries	12,392.14

TOTAL REVENUES \$ 18,907,066.24

#### Municipal Water District of Orange County REVENUE / CASH RECEIPT REPORT September 2018

#### **MISCELLANEOUS REVENUES**

Date	From	Description	Amount
09/07/18	Orange County Water District	1/2 of 8/3/18 WACO meeting speaker's travel and expenses	417.85
09/04/18	Pat Meszsaros	April & October 2018 Retiree health insurance	81.00
09/21/18	Stan Sprague	October 2018 Retiree Health insurance	243.00
09/27/18	Judy Pfister	Oct-Dec 2018 Retiree Health insurance	121.50
09/14/18	US Bank	Reimbursement for implementation cost	620.10
09/18/18	US Bank	August 2018 Interest income	247.59
09/12/18	Laguna Beach County Water District	Project funds for Service Connection CM-12	52,000.00
09/27/18	Stewart Case	Water Professionals for future fund	35.00
09/17/18	Mesa Water	July 2018 Smartimer rebate program	170.00
09/20/18	City of Westminster	July 2018 Turf Removal rebate program	555.00
09/21/18	City of Orange	July 2018 Turf Removal rebate program	913.75
09/17/18	Moulton Niguel Water District	July 2018 Smartimer and Turf Removal rebate program	10,281.98
09/13/18	City of Fountain Valley	July 2018 Turf Removal and Spray to Drip rebate program	1,376.29
09/04/18	City of Newport Beach	FY 18-19 Choice Programs Billing Invoice	38,622.04
09/04/18	Golden State Water Company	FY 18-19 Choice Programs Billing Invoice	4,371.76
09/06/18	City of Westminster	FY 18-19 Choice Programs Billing Invoice	28,053.00
09/07/18	City of Brea	FY 18-19 Choice Programs Billing Invoice	30,173.37
09/07/18	City of Orange	FY 18-19 Choice Programs Billing Invoice	34,687.36
09/10/18	South Coast Water District	FY 18-19 Choice Programs Billing Invoice	32,553.76
09/12/18	Laguna Beach County Water District	FY 18-19 Choice Programs Billing Invoice	3,159.90
09/13/18	Moulton Niguel Water District	FY 18-19 Choice Programs Billing Invoice	92,141.98
09/13/18	Serrano Water District	FY 18-19 Choice Programs Billing Invoice	401.68
09/14/18	East Orange County Water District	FY 18-19 Choice Programs Billing Invoice	5,490.42
09/14/18	El Toro Water District	FY 18-19 Choice Programs Billing Invoice	17,748.85
09/17/18	City of San Juan Capistrano	FY 18-19 Choice Programs Billing Invoice	3,715.96
09/17/18	City of Seal Beach	FY 18-19 Choice Programs Billing Invoice	786.21
09/17/18	Santa Margarita Water District	FY 18-19 Choice Programs Billing Invoice	94,838.08
09/17/18	Trabuco Canyon Water District	FY 18-19 Choice Programs Billing Invoice	6,678.72
09/20/18	Mesa Water	FY 18-19 Choice Programs Billing Invoice	40,701.83
09/21/18	City of Fullerton	FY 18-19 Choice Programs Billing Invoice	1,111.89
09/21/18	City of Tustin	FY 18-19 Choice Programs Billing Invoice	31,127.81
09/24/18	City of La Habra	FY 18-19 Choice Programs Billing Invoice	8,104.50
09/27/18	Yorba Linda Water District	FY 18-19 Choice Programs Billing Invoice	28,072.14
09/28/18	City of San Clemente	FY 18-19 Choice Programs Billing Invoice	17,237.23
09/07/18	City of Buena Park	Water Loss Control technical assistance - WSO, Inc	11,932.00
09/17/18	City of Orange	Water Loss Control technical assistance - WSO, Inc	26,132.00
09/17/18	Mesa Water	Water Loss Control technical assistance - WSO, Inc	2,270.00
			<u></u>

TOTAL MISCELLANEOUS REVENUES \$ 627,175.55 TOTAL REVENUES \$ 19,534,241.79

J

Robert J. Hunter, General Manager

Hilary Chumpitazi, Treasure

## Item 1b

Invoice#	Vendor / Description	Amount to Pay
Core Expenditu	res:	
	Richard C. Ackerman	
1199	September 2018 Consulting on legal and regulatory matters	1,350.00
	*** Total ***	1,350.00
	ACWA Joint Powers	
M005-2018LIAB	10/1/18-10/1/19 Auto and General Liability insurance	87,649.00
	*** Total ***	87,649.00
	Aleshire & Wynder LLP	
48155	August 2018 Legal services	660.14
48332	September 2018 Legal services	749.14
	*** Total ***	1,409.28
	Alta FoodCraft	
51817884	9/6/18 Coffee & tea supplies	164.64
	*** Total ***	164.64
	Association of California Cities	
2320	FY18-19 Annual membership dues	5,150.00
	*** Total ***	5,150.00
	Bergelectric	
119717-01-1	September 2018 Services to map existing electrical system and determine	13,393.68
	current energy demand for MWDOC building	
	*** Total ***	13,393.68
	Best Best and Krieger LLP	
831033	August 2018 State legislative advocacy services	8,234.94
55401-AUG18	August 2018 Legal services	9,322.93
	*** Total ***	17,557.87
	Black & Veatch Corporation	
1277421	July-August 2018 Local Water Supply workshop preparation, participation and	14,798.00
	follow-up	
	*** Total ***	14,798.00
	Blue Watchdog Conservation, Inc.	
1452	8/22-9/26/18 Services to provide training and testing for Qualified Water Efficient	2,627.70
	Landscaper Training program	
	*** Total ***	2,627.70
	Bolsa Chica Conservancy	
072518	7/14/18 & 7/20/18 Merit badge clinics for 80 scouts	640.00
	*** Total ***	640.00

Invoice#	Vendor / Description	Amount to Pay
	Costco Wholesale	
07283343	2018 Membership renewal	120.00
07203343	*** Total ***	120.00
	Dudek	
0185633	7/28/18-8/31/18 Planning level reliability for South County Interconnection	25, <del>9</del> 02.03
	*** Total ***	25,902.03
	Fry's Electronics	
2564649	9/17/18 Computer components	277.07
2567635	9/20/18 Computer components and supplies	266.29
	*** Total ***	543.36
	Girl Scouts of Orange County	
61128	Sponsorship for Water Patch program	5,000.00
	*** Total ***	5,000.00
	GovConnection, Inc.	
6118522	40 Licenses for Exchange 2016 Server Enterprise software	4,690.54
5135352	8/15/18-11/27/19 Annual Cisco firewall support	1,395.52
5140014	Microsoft Server 2016 license for new virtual server	5,213.90
6148278	New in-house server to host virtual servers	13,514.43
	*** Total ***	24,814.39
	Hashtag Pinpoint Corporation	
166	September 2018 Social Media consultation and services	7,917.00
	*** Total ***	7,917.00
	James C. Barker, P.C.	
05-0918	September 2018 Federal legislative advocacy services	8,000.00
	*** Total ***	8,000.00
	Jill Promotions	
0346	MWDOC Name tag for R. Davis	20.59
	*** Total ***	20.59
	Lawnscape Systems, Inc.	
97207	8/31/18 Landscape maintenance for atrium	295.00
97299	9/14/18 Landscape maintenance for atrium	295.00
97300	9/28/18 Landscape maintenance for atrium	295.00
	*** Total ***	885.00
	Lewis Consulting Group, LLC	
018-168	September 2018 Consulting services	2,937.50
	*** Total ***	2,937.50

Invoice#	Vendor / Description	Amount to Pay
	Keith Lyon	
JUL-SEP2018	July-September 2018 Retiree medical premium	402.00
	*** Total ***	402.00
	Edward G. Means III	
MWDOC-1063	September 2018 Consulting on MET issues and guidance to engineering staff	2,381.00
	*** Total ***	2,381.00
	NDS	
715714	9/14/18 Delivery charges for Board packets	169.36
	*** Total ***	169.36
	Orange County Business Council	F 000 00
0009158-IN	2018 Annual membership renewal	5,000.00
	*** Total ***	5,000.00
	Orange County Fast Print, Inc.	50.00
56846	Business cards for R. Davis	58.88
	*** Total ***	58.88
	Orange County Water District	200.00
2018-01	2018 Health & Wellness Expo sponsorship	200.00
19437	August 2018 50% share of WACO expense	8,383.89
19449	August 2018 Postage, shared office & maintenance expense *** Total ***	8,831.39
	Office Solutions	
I-01440313	9 Traffic cones for Director parking	185.86
1-01440405	Sit/stand monitor & keyboard set-up for T. Dubuque	593.66
1-01445211	9/20/18 Office supplies	299.32
1-01449648	Credenza for J. Berg	1,397.45
	*** Total ***	2,476.29
	Patricia Kennedy Inc.	
10536	October 2018 Plant maintenance	214.00
	*** Total ***	214.00
	Petty Cash	
SEP2018	Petty Cash reimbursement	185.18
	*** Total ***	185.18
	Joey C. Soto	
MWDOC#004	August 2018 Grant Research and Acquisition assistance	2,999.30
	*** Total ***	2,999.30
	Staples Advantage	<b>3</b> 6 66
8051417786	9/15/18 Office supplies	79.30
	*** Total ***	79.30

Invoice#	Vendor / Description	Amount to Pay
	Top Hat Productions	
94432	9/20/18 Breakfast for OC Reliability Study meeting	445.01
	*** Total ***	445.01
	U. S. HealthWorks Medical Group	
3386811-CA	8/21/18 & 8/27/18 Pre-employment exams	416.00
3390192-CA	8/29/18 Pre-employment exams	374.00
	*** Total ***	790.00
	USAFact Inc.	
8090833	8/27/18 Pre-employment background check	47.53
	*** Tota! ***	47.53
	WageWorks, Inc.	
INV950403	August 2018 Cafeteria plan administration	185.25
	*** Total ***	185.25
	Water Systems Optimization, Inc.	
1437	September 2018 Water Loss Audit Validation research	18,000.00
1438	September 2018 Services to develop a Water Loss Control Business Plan	10,740.00
1439	September 2018 Water Loss Control program	9,320.07
	*** Total ***	38,060.07
	Pauline D. Wennerstrom	220.00
OCT-DEC2018	October-December 2018 Retiree medical premium *** Total ***	339.00 339.00
	Iota	
	Total Core Expenditures	283,543.60
Choice Expendi	tures:	
	Mission RCD	
2546A	August 2018 Field verifications for Water Use Efficiency rebate programs	4,089.48
	*** Total ***	4,089.48
	Office Solutions	
1-01448094	15 Binders for Qualified Water Efficient Landscaper Training classes	212.06
1-01448501	10 Calculators for Qualified Water Efficient Landscaper Training classes	53.83
1-01452089	6 Binders for Qualified Water Efficient Landscaper Training classes	84.83
	*** Total ***	350.72
	Orange County Water District	
19449	August 2018 Postage for Water Use Efficiency rebate programs *** Total ***	33.97 33.97

Invoice#	Vendor / Description	Amount to Pay
	Top Hat Productions	
94384	9/6/18 Lunch for Water Use Efficiency Workgroup meeting	528.30
94393	9/13/18 Lunch for Water Loss Control Workgroup meeting	365.00
94458	9/26/18 Lunch for Qualified Water Efficient Landscaper Training class	324.76
54450	*** Total ***	689.76
	Total Choice Expenditures	5,428.08
Other Funds Ex	penditures:	
	McCall's Meter Sales & Service	
30917	August 2018 Meter Accuracy Testing program for South Coast Water District	1,645.00
	*** Total ***	1,645.00
	Mega Maids Cleaning Service	
9850	9/7/18 WEROC S. EOC cleaning services	85.00
9860	9/13/18 WEROC N. EOC cleaning services	85.00
	*** Total ***	170.00
	Michael Baker International	
1025520	7/30/18-9/2/18 OC Regional Water/Wastewater Multijurisdictional Hazard Mitigation Plan update	3,820.61
	*** Total ***	3,820.61
	Mission RCD	
2546	August 2018 Field verifications for Water Use Efficiency rebate programs	8,206.70
2567	September 2018 Field verifications for Water Use Efficiency rebate programs	7,984.21
2307	*** Total ***	16,190.91
	Office Solutions	
1-01439061	9/11/18 Office supplies for WEROC	31.46
1-01439001	*** Total ***	31.46
	Raftelis Financial Consultants, Inc.	
40762	August 2018 Five year monitoring for Budget Based Tiered Rate grant	11,960.00
10762	*** Total ***	11,960.00
	Total	,
	Water Systems Optimization, Inc.	13,600.00
1439	September 2018 Water Loss Control program *** Total ***	13,600.00
	Total Other Funds Expenditures	47,417.98
	Total Expenditures	336,389.66

# Item 1c

Check #	Date	Vendor # Invoice/CM #	Name / Description	Net Amount
ACH003502	9/14/18	FAHLBE	Beth Fahl	
A611000002	5, 2 , , =0	083118	August 2018 Business expense	39.24
			***Total ***	39.24
ACH003506	9/14/18	FINNEG	Joan Finnegan	
		083118	August 2018 Business expense	100.33
			***Total ***	100.33
ACH003507	9/14/18	HUBBAR	Kelly Hubbard	
		073118	July 2018 Business expense	18.50
			***Total ***	18.50
ACH003509	9/14/18	RICOHMA	Ricoh USA, Inc.	
		5054366391	June-August 2018 Reproduction costs	1,069.79
			***Total ***	1,069.79
ACH003528	9/14/18	ROBERT	Bryce Roberto	
		083118	August 2018 Business expense	42.29
			***Total ***	42.29
ACH003529	9/14/18	TAMARI	Satoru Tamaribuchi	400.04
		083118	August 2018 Business expense	180.94 180.94
			***Total ***	180.94
ACH003530	9/14/18	THOMAS	Jeffery Thomas	227.04
		083118	August 2018 Business expense	227.81 227.81
			***Total ***	227.81
ACH003532	9/14/18	WAGEWO	WageWorks, Inc.	405.25
		INV892217	August 2018 Cafeteria plan administration ***Total ***	185.25 185.25
				165.25
ACH003535	9/28/18		Hilary Chumpitazi	46.05
		083118	August 2018 Business expense	16.95
			***Total ***	16.95
ACH003537	9/28/18	HOSTER	Kevin Hostert	400 OF
		091518	August 2018 Business expense ***Total ***	122.95 122.95
			OTA	122.95
ACH003543	9/28/18		Megan Yoo Schneider	400 FF
		083118	August 2018 Business expense ***Total ***	406.55 406.55
				400.55

Check #	Date	Vendor # Invoice/CM #	Name / Description	Net Amount
Core Disburse	ements:			
138273	9/6/18	SPECTB	Spectrum Business	
		0375210082018	September 2018 Telephone and internet expense ***Total ***	1,100.28 1,100.28
138274	9/6/18	VERIZO	Verizon Wireless	
		9813377585	August 2018 4G Mobile broadband unlimited service ***Total ***	114.03 114.03
EFT180912GASB	9/12/18	CALPER	CALPERS	
		1-15403367	Fees for FY 17-18 GASB-68 Reports and schedules ***Total ***	700.00 700.00
138284	9/14/18	IRONMO	Iron Mountain	
		AFCW760	September 2018 Archived document storage fees ***Total ***	209.70 209.70
138295	9/14/18	SPECTB	Spectrum Business	
		0343564090118	September 2018 Telephone expense for 3 analog fax lines	107.99
			***Total ***	107.99
138297	9/14/18	USBANK	U.S. Bank	
		0403/4140/5443-AUG18	7/23/18-8/22/18 Cal Card charges ***Total ***	14,119.37 14,119.37
			(See attached sheet for details)	2 (,220107
ACH003488	9/14/18	ACKEEX	Linda Ackerman	
		083118	August 2018 Business expense ***Total ***	30.52 30.52
		BAEZHE	Heather Baez	
ACH003494	9/14/18		July 2018 Business expense	46.74
ACH003495	9/14/18	083118	August 2018 Business expense ***Total ***	203.92 250.66
ACH003496	9/14/18	BARBRE	Brett Barbre	
		083118	August 2018 Business expense ***Total ***	204.92 204.92
				201122
ACH003497	9/14/18		<i>Melissa Baum-Haley</i> August 2018 Business expense	280.88
		083118	***Total ***	280.88
ACH003500	9/14/18		Larry Dick	
		083118	August 2018 Business expense	101.39
			***Tota! ***	101.39

Check #	Date	Vendor # Invoice/CM #	Name / Description	Net Amount
ACH003547	9/28/18	WAITER	Rachel Waite	
	5720720	091918	August-September 2018 Business expense ***Total ***	57.12 57.12
			– Total Core Disbursements	19,687.46
Choice Disbu	ırsements	:		
138297	9/14/18	USBANK	U.S. Bank	
		4140-AUG18	7/23/18-8/22/18 Cal Card charges ***Total ***	9.95 9.95
			(See attached sheet for details)	5.55
ACH003502	9/14/18	FAHLBE	Beth Fahl	
	-,-,	083118	August 2018 Business expense	146.28
			***Total ***	146.28
			Total Choice Disbursements	156.23
Other Funds	Disburse	ments:		
138274	9/6/18	VERIZO	Verizon Wireless	
		9813377585	August 2018 4G Mobile broadband unlimited service ***Total ***	76.02 76.02
138276	9/14/18	ATTUVEOC	AT&T	
		8599-SEP18	September 2018 U-verse internet service for WEROC	60.00
			N.EOC ***Total ***	60.00
138277	9/14/18	ATTCALN	AT&T	
2002//	-,,	000011824290	August 2018 WEROC N. & S. EOC telephone expense	210.38
		000011824291	August 2018 WEROC N. EOC telephone expense ***Total ***	110.06 320.44
138287	0/11/19	MFHETD	Multi Family HET Direct	
138207	3/14/10	083018TAT	PUR Tustin LLC - Terra at Tustin Apartments	4,800.00
			***Total ***	4,800.00
138297	9/14/18	USBANK	U.S. Bank	
		4140-AUG18	7/23/18-8/22/18 Cal Card charges ***Total ***	124.69 124.69
			(See attached sheet for details)	## <b>~</b> (00
ACH003507	9/14/18	HUBBAR	Kelly Hubbard	
	_, _ ,	073118	July 2018 Business expense	19.89
			***Total ***	19.89

Check #	Date	Vendor # Invoice/CM #	Name / Description	Net Amount
ACH003512	9/14/18	MESAWA	Mesa Water District	
	-, - ,	9602A	July 2018 Credit for Local Resources program	35,436.44
			***Total ***	35,436.44
138303	9/28/18	SANTI1	Santiago Aqueduct Commission	
	-,,	JUL2018	July 2018 SAC Pipeline operation surcharge	3,192.12
			***Total ***	3,192.12
		600 MW		
138304	9/28/18	SCHUNK	Janine Schunk	50.00
		092118	August-September 2018 Business expense ***Total ***	50.69 50.69
		DRIPPR	Spray to Drip Program	
138305	9/28/18	S2D1-R-O-20981-13060	N. Jordan	350.00
138306	9/28/18		M. Mark	1,221.60
138307		S2D1-R-TUST-26750-13193	J. Gabelsberg	525.00
138308		S2D1-C-IRWD-26739-13207	Irvine Unified School District	1,354.84
138309 138310		S2D1-C-IRWD-26739-13209 S2D1-R-IRWD-26856-13216	Irvine Unified School District L. Jazi Burke	912.32
138310		S2D1-R-TUST-26778-13218	K. Fisher	350.00 525.00
138312		S2D1-R-MESA-26872-13219	B. Tangeland	70.00
130312	5/20/10	5201-N-WESA-20072-15215		5,308.76
				-,
		TURFRP	Turf Removal Program	
138313	9/28/18	TR11-C-FV-4928-4851	City of Fountain Valley	23,285.20
138314		TR10-R-TC-17711-17661	J. Salverson	191.00
138315		TR11-R-O-18903-18819	N. Jordan	342.00
138316		TR11-R-MNT-22213-22129	D. Hayden	1,272.00
138317	9/28/18	TR11-C-FV-23302-23212	Donahue Schriber Realty Group (Fountain Valley)	29,545.80
138318 138319	9/28/18 9/28/18	TR11-C-FV-23302-23217	Donahue Schriber Realty Group (Fountain Valley)	5,547.60
138319	9/28/18 9/28/18	TR11-R-ETWD-13322-23223 TR11-R-SM-23322-23233	B. Yessayian S. Anand	2,496.00 1,971.00
138321	9/28/18 9/28/18	TR11-R-SM-23322-23235	R. Lytal	647.00
138322	9/28/18	TR11-R-MNT-23371-23274	T. Reilly	2,166.00
138323	9/28/18	TR11-R-HB-23379-23282	D. Rusu	566.15
138324	9/28/18	TR11-R-MNT-23390-23295	B. Bull	290.63
138325	9/28/18	TR11-R-MNT-5040-24312	J. Mellotti	1,956.00
138326	9/28/18	TR11-R-SC-24431-24333	L. Lewis	888.00
138327	9/28/18	TR11-R-MNT-25471-25390	A. Fiore	722.00
138328	9/28/18	TR11-R-MNT-25476-25395	J. Carozza	2,738.00
138329	9/28/18	TR11-R-HB-26495-26413	S. Prasad	775.00
138330	9/28/18	TR11-R-TC-26532-26449	M. Bryant	839.00
138331	9/28/18	TR11-R-O-26564-26477	C. Daitch	487.00
138332	9/28/18	TR11-R-MNT-26574-26486	H. Smith	1,350.00
138333	9/28/18	TR11-R-IRWD-26575-26487	J. Lam	1,154.00
138334	9/28/18	TR11-R-MNT-26583-26496	J. Eckhardt	306.00
138335	9/28/18	TR11-R-MNT-26589-26501	S. Crivelli	550.00
138336	9/28/18	TR11-R-O-26601-26513	A. Duong	2,000.00
138337	9/28/18	TR11-R-IRWD-26610-26522	K. Bui Wang	1,666.00

Check #	Date	Vendor # Invoice/CM #	Name / Description	Net Amount
		······································		1 202 00
138338	9/28/18	TR11-R-WEST-26618-26530	T. Do	1,202.00 993.20
138339	9/28/18	TR11-R-MNT-26622-26534	C. Perret	1,642.00
138340	9/28/18	TR11-R-MNT-26630-26542	C. Fortmann	506.00
138341	9/28/18	TR11-R-TC-26634-26546	J. Broomfield	513.00
138342	9/28/18	TR11-R-MNT-26640-26552	J. North	2,000.00
138343	9/28/18	TR11-R-SWD-26660-26572	D. Wood	1,608.00
138344	9/28/18	TR11-R-MNT-26661-26573	M. Thelin-Ponti	706.00
138345	9/28/18	TR11-R-O-26665-26578	K. Mendoza	2,246.00
138346	9/28/18	TR11-R-MNT-26694-26608	L. Werner	25,000.00
138347	9/28/18	TR11-C-NWPT-26697-26611	Big Canyon Country Club (Newport Beach)	918.03
138348	9/28/18	TR11-R-TUST-26704-26617	D. Spinoglio	476.00
138349	9/28/18	TR11-R-SM-26716-26630	S. Lutch J. Cuffaro	1,152.72
138350	9/28/18	TR11-R-MNT-26746-26661	J. Gabelsberg	2,000.00
138351	9/28/18	TR11-R-TUST-26750-26665	J. Diaz	2,000.00
138352	9/28/18	TR11-R-O-26753-26668	M. Dickson	2,000.00
138353	9/28/18	TR11-R-SOCO-26763-26683 TR11-R-TUST-26778-26698	K. Fisher	2,000.00
138354	9/28/18	TR11-R-IRWD-20966-26717	S. Patsenhann	1,014.00
138355	9/28/18	TR11-R-MNT-26795-26718	J. Huang	544.55
138356 138357	9/28/18 9/28/18	TR11-R-MNT-26797-26719	T. Storino	340.00
138357	9/28/18 9/28/18	TR11-R-SM-26800-26721	N. Gerges	835.00
138358	9/28/18	TR11-R-HB-26805-26725	V. Rufener	1,378.00
138355	9/28/18 9/28/18	TR11-R-MNT-26809-26729	P. Bergman	2,158.00
138361	9/28/18 9/28/18	TR11-R-HB-26813-26731	L. Reynolds	12.93
138361	9/28/18	TR11-R-MNT-26818-26735	S. Chan	1,248.00
138363	9/28/18	TR11-R-IRWD-26823-26739	J. Ebert	756.00
138364	9/28/18	TR11-R-SM-26825-26741	M. Zapotny	1,029.00
138365	9/28/18	TR11-R-MNT-26831-26747	S. Shah	372.00
138366	9/28/18	TR11-R-IRWD-26837-26753	M. Kleis	948.00
138367	9/28/18		R. Mezher	355.00
138368	9/28/18		C. Goodwin	1,142.00
138369	9/28/18		B. Huh	1,445.00
138370	9/28/18		N. Hsu	684.00
138371	9/28/18	TR11-R-MNT-26861-26779	V. Garcia	878.00
138372	9/28/18	TR11-R-SM-26862-26780	М. Те	499.00
138373	9/28/18	TR11-R-MNT-26863-26781	A. Briones	1,238.00
138374	9/28/18	TR11-R-MNT-26864-26783	J. Cairo	599.00
138375	9/28/18		C. Nguyen	850.00
138376	9/28/18	TR11-R-MNT-26874-26792	J. Butlett	1,080.00
138377	9/28/18		J. Reynolds	1,560.00
138378	9/28/18		R. Garcia	1,404.00
138379	9/28/18	TR11-R-MNT-26893-26818	M. Elson	1,040.00
138380	9/28/18		R. Casey	1,181.00
138381	9/28/18		S. Lee	599.00
138382	9/28/18		D. Hsiao	395.00
138383	9/28/18		S. Pourbabak	294.00 1,484.00
138384	9/28/18		J. Girard	1,484.00
138385	9/28/18	TR11-R-IRWD-26910-26836	T. Liu	00.066

Check #	Date	Vendor # Invoice/CM #	Name / Description	٨	let Amount
138386	9/28/18	TR11-R-MNT-26917-26842	J. Ventimiglia		374.00
138387	9/28/18	TR11-R-IRWD-26921-26847	M. Cornelius		2,534.00
138388	9/28/18	TR11-R-SC-26922-26848	B. Irvin		1,500.00
138389	9/28/18	TR11-R-MNT-26924-26849	J. Blumberg		574.00
138390	9/28/18	TR11-R-HB-26928-26854	P. Rizzo		274.00
138391	9/28/18	TR11-R-MNT-26929-26855	M. Brown		648.00
138392	9/28/18	TR11-R-ETWD-26935-26861	J. Folkers		1,162.00
138393	9/28/18	TR11-R-BREA-26939-26865	M. Corral		346.00
138394	9/28/18	TR11-R-IRWD-26940-26866	Q. Tran		652.00
138395	9/28/18	TR12-R-MNT-26952-26877	A. Blenkle		1,350.00
138396	9/28/18	TR12-R-IRWD-26960-26887	A. Miller		649.00
138397	9/28/18	TR12-R-HB-26968-26894	J. Kasparek		1,936.30
138398	9/28/18	TR12-R-MNT-26976-26902	C. Wallace		2,010.00
138399	9/28/18	TR12-R-MNT-26980-26905	S. Cochran		1,532.00
138400	9/28/18	TR12-R-IRWD-26992-26916	E. Luwiharto		587.00
138401	9/28/18	TR12-R-IRWD-27000-26922	E. Wong		468.00
138402	9/28/18	TR12-R-IRWD-27006-26928	J. Indelicato		267.00
138403	9/28/18	TR12-R-MNT-27018-26940	G. Horvath		550.00
138404	9/28/18	TR12-R-IRWD-27031-26955	K. Nguyen		624.00
138405	9/28/18	TR12-R-IRWD-27034-26959	S. Liggins		735.00
			***Total ***		177,399.11
		RWOSRP	Recycled Water Program		
138407	9/28/18	RTF4093	City of San Juan Capistrano		6,639.75
138408	9/28/18	RTF4095	City of San Juan Capistrano		2,819.58
138409	9/28/18	RTF4103	Evergreen Ridge HOA (Mission Viejo)		1,640.17
	unita en cancionen en la ficial constitu		***Total ***		11,099.50
ACH003544	0/20/40	SANTAM	Conto Managrita Mator District		
ACH003544	9/28/18		Santa Margarita Water District		24 04 4 27
		JUL2018	July 2018 SCP Pipeline operation surcharge		31,814.37
			***Total ***		31,814.37
WIRE-180928	9/28/18	METWAT	Metropolitan Water District		
		9446	July 2018 Water deliveries	21,	021,605.47
			***Total ***	21,	021,605.47
			Total Other Funds Disbursements	21,	291,307.50
	X		Total Disbursements	21,	311,151.19

RUPA

Robert J. Hunter, General Manager

Hilary Chumpitazi, Treasurer

## Statement Date: August 22, 2018 Payment Date: September 14, 2018

Date	Description		Amount
Public Affairs			
07/27/18	Lunch for Public Affairs department meeting	\$	42.53
07/27/18	Orange County Public Relations Society of America 2018 PROTOS awards entry fee	·	200.65
07/31/18	California Association of Public Information Officials, Branding webinar on Aug. 1, 2018 - Registration for T. Baca		20.00
07/31/18	California Association of Public Information Officials, Branding webinar on Aug. 1, 2018 - Registration for S. Wilson		20.00
08/01/18	4 BeltBlaster waistband amplifiers with microphones		588.81
08/02/18	Lunch for Public Affairs department meeting		61.02
08/10/18	20 Download credits for images from 123RF		21.00
08/16/18	Orange County Business Council 2018 Turning Red Tape Into Red Carpet Awards submission fee		125.00
08/16/18	California Association of Public Information Officials, Crisis Communications webinar on Sep. 18, 2018 - Registration for T. Baca		20.00
08/16/18	California Association of Public Information Officials, Crisis Communications webinar on Sep. 18, 2018 - Registration for S. Wilson		20.00
	Total	\$	1,119.01
07/23/18	Urban Water Institute conference in San Diego, CA from Aug. 22-24,	\$	525.00
07/24/18	2018 - Registration for D. Micalizzi Lunch for MET Directors' meeting		196.73
07/24/18	6/24/18-7/23/18 Web hosting service for MWDOC website		15.65
07/24/18	Lunch for Orange County MET Managers' meeting		141.44
07/24/18	2 Lenovo ThinkPad laptops		2,978.75
07/30/18	Color and black drum unit sets for Ricoh color copier		650.55
07/30/18	UPS delivery charges for Board packets on Jul. 27, 2018		11.98
07/30/18	ACWA State Legislative Committee meeting in Sacramento, CA on Aug. 10, 2018 - Airfare for H. Baez		415.96
07/30/18	AB401 Workgroup meeting in Sacramento, CA on Aug. 6, 2018 - Airfare for H. Baez		440.96
07/31/18	Lunch for first aid training		390.45
07/31/18	4 Toner cartridges		75.03
08/02/18	8/1/18-8/31/18 E-mail service for California Sprinkler Adjustment Notification System		9.95
08/03/18	Dinner for WACO Speaker P. Parriera		282.11 1
08/06/18	UPS delivery charges for Board packets on Jul. 27, 2018 and MET on Jul. 30, 2018		74.49
08/07/18	3 Keys for WEROC EOC cabinet		20.85
08/07/18	Supplies for desk emergency kits		407.41
08/09/18	Office supplies from Costco		353.71
08/10/18	California Special District Association Annual conference in Indian Wells, CA		600.00

from Sep. 24-27, 2018 - Registration for H. Baez

## Statement Date: August 22, 2018 Payment Date: September 14, 2018

Date	Description	Amount
08/10/18	Food for staff development meeting	32.50
08/10/18	California Society of Municipal Finance Officers Orange County Chapter meeting in Orange, CA on Aug. 16, 2018 - Registration for H. Chumpitazi and L. Gunawan	60.00
08/10/18	Conservation Legislative Implementation Workgroup meeting in Sacramento, CA on Aug. 15, 2018 - Airfare for H. Baez	503.20
08/15/18	2 Cases for laptops	49.88
08/16/18	Lunch for Manager's meeting	514.51
08/20/18	Monthly fee for Hulu television streaming service for WEROC	54.98
08/20/18	13 Hard Hats for desk emergency kits	83.80
08/20/18	2 Toner cartridges	153.55
08/21/18	Government Finance Officers Association Annual Governmental GAAP Update webinar on Nov. 1, 2018 - Registration for H. Chumpitazi	135.00
08/21/18	2 ShakeOut logo T-shirts for WEROC staff	44.61
	Total	\$ 9,223.05

1 OCWD reimbursed MWDOC for \$141.05

## R. Hunter Card

7/24/18-8/22/18	Meals for R. Hunter's meetings	\$ 96.83
08/03/18	Legislative Activities in Washington, DC from Nov. 14-16, 2018 - Airfare for Director Barbre	950.41 2
08/07/18	Association of Metropolitan Water Agencies 2018 Executive Management conference in San Francisco, CA from Oct. 14-17, 2018 - Registration for R. Hunter	895.00
08/09/18	Urban Water Institute conference in San Diego, CA from Aug. 22-24, 2018 - Registration for Director Tamaribuchi	525.00
08/13/18	Urban Water Institute conference in San Diego, CA from Aug. 22-24, 2018 - Registration for Director Yoo Schneider	525.00
08/14/18	Orange County Water Association meeting in Irvine, CA on Aug. 15, 2018 - Membership and registration for Director Barbre	100.00
08/17/18	Urban Water Institute conference in San Diego, CA from Aug. 22-24, 2018 - Registration for R. Hunter	525.00
08/20/18	Urban Water Institute conference in San Diego, CA from Aug. 23-24, 2018 - Accommodations deposit for M. Yoo Schneider	294.71
	Total	\$ 3,911.95

2 Dire

Director Barbre to reimburse MWDOC \$607.01

# Item 1d

## Municipal Water District of Orange County GM Approved Disbursement Report <sup>(1)</sup> For the month of September 2018

Check #	Date	Vendor # Invoice/CM #	Name / Description	Net Amount
Core Disbu	rsements	•		
138272	9/6/18	ACWAJP	ACWA Joint Powers	
		M005-PROP2018A	7/1/18-4/1/19 Property insurance amendment to cover building	1,516.00
			***Total ***	1,516.00
138299	9/24/18	CRYSTAL	Crystal Coast Moving Company, Inc.	
		CAL T-191250	9/21/18 & 9/24/18 Services to move furniture to	1,199.75
			expose electrical outlets	
			***Total ***	1,199.75
138406	9/28/18	MISCEL	Paul Parreira	
÷		WACO080318	Reimburse 8/3/18 WACO Speaker for hotel room	192.63
			charged to his personal credit card	
			***Total ***	192.63
138410	9/28/18	WESTIN	Westin South Coast Plaza	
		QUOTE500-BL7078I	Banquet facility deposit for 10/11/18 Water Policy Dinner	5,000.00
			***Total ***	5,000.00
ACH003545	9/28/18	SPECIAL	Special Dist. Risk Mgmt. Auth.	
	•,,	65002	FY 17-18 Year end audit balance for Workers' Comp	168.07
			insurance	
			***Total ***	168.07
			– Total Core Disbursements	8,076.45

Choice Disbursements:

**Total Choice Disbursements** 

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## Municipal Water District of Orange County GM Approved Disbursement Report<sup>(1)</sup> For the month of September 2018

Check #	Date	Vendor # Invoice/CM #	Name / Description	Net Amount
Other Fund	ds Disburser	ments:		
			Total Other Funds Disbursements	
			Total Disbursements	8,076.45
	RU			
Robert J. Hun	ter, General M	anager		
Hilan	Church	itari		

(1) For disbursements that did not make the cut-off of previous month's Disbursement Approval report. Disbursements are approved by GM for payment and need A & F Committee ratification.

1

Hilary Chumpitazi, Treasurer

# Municipal Water District of Orange County WATER USE EFFICIENCY PROJECTS Cash Flow as of 9/30/18

d			AU	ñ	5	N	en ,	Jan 2019	9	W	Apr 2019	May 2019	'n	IUIALS
Cas	Cash - Beginning Balance	\$ 280,031.97 \$	2/3,554.92	\$ 401,387.74	\$ 1/6,456.22	\$ 1/6,456.22	\$ 1/6,456.22	\$ 1/6,456.22	\$ 1/6,456.22	\$ 1/6,456.22	\$ 1/6,456.22	\$ 1/6,456.22	\$ 1/6,456.22	
-	BUREC	4.605.00	111.00											\$ 4,716.00
	City of Brea													
	City of Buena Park		222.00	_										222.00
	City of Fountain Valley	222.00		1,376.29										1,598.29
	City of Fullerton													
	City of Garden Grove													
	City of Huntington Beach	598.99												598.99
	City of La Habra	222.00												222.00
	City of San Clemente	3,244.99	9,442.99											12,687.98
	City of San Juan Capistrano			_										
	City of Santa Ana			_										
	City of Tustin													
	City of Newport Beach		3,343.80											3,343.80
	City of Orange	444.00		913.75										1,357.75
<u> </u>	City of Westminster	333.00	539.00	555.00										1,427.00
	County of Orange													
	Department of Water Resources	32.990.80												32.990.80
	East Orange County Water District													•
	El Toro Water District		774.00											774.00
	Irvine Ranch Water District	8.271.11	47.878.73											56.149.84
	Laguna Beach County Water District		15.00											15.00
	Mesa Water District	66.82	197.98	170.00										434.80
	Metropolitan Water District		191,093.43											191,093.43
	Moulton Niguel Water District	38,341.68	7,726.23	10,281.98										56,349.89
	Orange County Water District			_										
	Santa Margarita Water District													
	Trabuco Canyon Water District		605.76	_										605.76
	Yorba Linda Water District		284.07											284.07
Σ	Miscellaneous Revenues													
	Miscellaneous													
	Interest Revenue	2,228.14												
	Total Revenues	91,568.53	262,233.99	13,297.02	•		•					•	•	\$ 367,099.54
ű	EXPENDITURES:													
	Budget Based Tiered Rates, Raftelis	2,220.00	1,050.00	1,800.00										5,070.00
	Droplet													
	IRWD													
	Golden State Water Company													
	City of Huntington Beach													
	Laguna Beach CWD													
	Metropolitan Water District	28,091.13		25,193.39										53,284.52
	Mission RCD		20,060.11	18,627.78										38,687.89
	Multi Family HET Direct			4,800.00										4,800.00
	Pollard Water		44,516.38											44,516.38
	Recycled Water On Site Retrofit program			11,099.50										11,099.50
	Spray to Drip program	690.45	4,310.08	5,308.76										10,309.29
	SMWD	34,905.00												34,905.00
	Turf Removal	32,139.00	58,464.60	177,399.11										268,002.71
	Water Savings Incentive Program													
≊ 1	Miscellaneous Expenses													
	Salary & Benefit													
	Total Expenditures	98,045.58												\$ 470,675.29
Cas	Cash - Ending Balance	\$ 273,554.92 \$	407,387.74	\$ 176,456.22	\$ 176,456.22	\$ 176,456.22	\$ 176,456.22	\$ 176,456.22	\$ 176,456.22	\$ 176,456.22	\$ 176,456.22	\$ 176,456.22 \$	\$ 176,456.22	

Item 1e

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Item 1f

## Municipal Water District of Orange County Consolidated Summary of Cash and Investment

August 31, 2018

Street Address: 18700 Ward Street Fountain Valley, California 92708

Mailing Address: P.O. Box 20895 Fountain Valley, CA 92728-0895

> (714) 963-3058 Fax: (714) 964-9389 www.mwdoc.com

> > Brett R. Barbre President

Joan C. Finnegan Vice President

> Larry D. Dick Director

Wayne S. Osborne Director

Megan Yoo Schneider Director

> Sat Tamaribuchi Director

Jeffery M. Thomas Director

Robert J. Hunter General Manager

#### MEMBER AGENCIES

City of Brea City of Buena Park East Orange County Water District El Toro Water District **Emerald Bay Service District** City of Fountain Valley City of Garden Grove Golden State Water Co. City of Huntington Beach Irvine Ranch Water District Laguna Beach County Water District City of La Habra City of La Palma Mesa Water District Moulton Niguel Water District City of Newport Beach City of Orange **Orange County Water District** City of San Clemente City of San Juan Capistrano Santa Margarita Water District City of Seal Beach Serrano Water District South Coast Water District Trabuco Canyon Water District City of Tustin City of Westminster Yorba Linda Water District District investments and cash balances are held in various funds designated for certain purposes as follows:

Fund	Book Value	% of Portfolio
Designated Reserves		
General Operations	\$3,156,569	15.50%
Grant & Project Cash Flow	1,500,000	7.37%
Election Expense	304,000	1.49%
Building Repair	350,407	1.72%
OPEB	209,006	1.03%
Total Designated Reserves	5,519,982	27.11%
General Fund	10,511,609	51.63%
Water Fund	3,433,787	16.87%
Conservation Fund	407,388	2.00%
Desalination Feasibility Study Fund	(145,267)	(0.71%)
WEROC Fund	603,515	2.96%
Trustee Activities	28,775	0.14%
Total	\$20,359,789	100.00%

The funds are invested as follows:

Term of Investment	% of Portfolio	Book Value	Market Value
Cash	0.53%	\$107,720	\$107,720
Short-term investment			
LAIF	64.85%	\$13,202,677	\$13,202,677
OCIP	19.38%	3,946,396	3,946,396
Long-term investment			
<ul> <li>Corporate Bond</li> </ul>	5.66%	1,152,996	1,127,435
Certificates of Deposit	9.58%	1,950,000	1,933,167
Total	100.00%	\$20,359,789	\$20,317,395

The average number of days to maturity/call as of August 31, 2018 equaled 145 and the average yield to maturity is 1.984%. During the month, the District's average daily balance was \$26,846,076.95. Funds were invested in Federal Agency Issues, Certificates of Deposit, Negotiable CD's, Miscellaneous Securities, the Local Agency Investment Funds (LAIF) and the Orange County Investment Pool (OCIP) during the month of August 2018.

The (\$42,394) difference between the book value and the market value on August 31, 2018 represents the exchange difference if all investments had been liquidated on that date. Since it is the District's practice to "buy and hold" investments until maturity, the market values are a point of reference, not an indication of actual loss or gain. There are no current plans or cash flow requirements identified in the near future that would require the sale of these securities prior to maturity.

Robert J. Hunter General Manager

Hilary Chumpitazi Treasurer

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

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Portfolio Management - Portfolio Summary           August 31, 2018           \$	MWDoo		MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	TER DISTRIC	T OF ORAN	NGE COL	λTV
August 31, August 31, Par Value         Par Value         Market Value         August 31, Par Value         August 31, Par Value         August 31, Par Value         Par Value         Portfolio $Par Value$				Portfolio Man	agement - Po	rtfolio Sun	ımary
						August 31	, 2018
Index         1,950,000.00         1,933,167,00         1,930,000.00         9.63         981           restment Funds         1,120,000.00         1,127,355.50         1,122,295.55         5.68         877           restment Funds         1,3,202,677,40         1,3,202,677,40         1,3,202,677,40         1,3         1,3         1,3           restment Funds         2,0,246,735.57         3,946,355.87         3,946,355.87         1,94         1           restment Funds         20,249,073.27         20,209,675.77         20,252,069.22         100,00         145         1           ints         20,246,705.87         20,317,395.37         20,335,778         100,00         145         1           ints         Month Ending August         Fiscal Vear to Date         107/719.60         107/719.60         145         1           introestments         20,356,792.87         20,317,395.37         20,3359,786.82         145         1           introestments         Nonth Ending August         Fiscal Vear to Date         107/719.60         145         145           introestments         20,356,792.87         20,3359,786.82         20,3359,786.82         145         145           introestments         20,356,792.87         20,3359,786.82	81	Par Value	Market Value	Book Value	% of Portfolio	Days to Mat/Call	YTM @ Cost
meatment Funds         1,150,000.00         1,127,435.50         1,152,995.35         5.68         877           meatment Funds         1,3202,677,40         6.5.20         1,132,095.61         1,122,435.50         1,132,002,677,40         6.5.20         1           meatment Funds         2,946,395.87         2,946,395.87         2,946,395.87         1,949         1           investment Foxol         2,946,395.87         20,249,073.27         20,249,073.27         20,249,073.27         100.00         1,152,955.87         100         145         1           investments         107,719.60         107,719.60         107,719.60         107,719.60         145         1           investments         20,356,792.87         20,317,395.37         20,336,793.882         145         1           investments         20,356,792.87         20,317,395.37         20,359,788.82         145         1           investments         3,46,395.63         5,768.16         107,719.60         107         1           investments         3,49,325.37         20,339,788.82         20,339,788.82         100.00         145           investments         3,49,459         5,368.16         20,339,738.82         20,313,936.82         145           investment	Certificate Of Deposit	1,950,000.00	1,933,167.00	1,950,000.00	9.63	981	2.504
estment funds         13,202,677.40         13,202,677.40         53,262,677.40         55.20         1           Investment funds         3,946,395.87         3,946,395.87         3,946,395.87         19,49         1           Investment funds         20,249,073.27         20,239,675.57         2,0,235,069.22         100,00         145         1           Investment bold         107,719.60         107,719.60         107,719.60         107,719.60         107,719.60         174         1           Investments         20,356,792.87         20,355,792.87         20,355,792.87         20,355,792.87         145         1           Investments         20,356,792.87         20,317,395.37         20,355,798.82         20,355,798.82         145         1           Investments         20,356,792.87         20,317,395.37         20,355,798.82         145         1           Investments         1.964         5.035,792.87         20,355,798.82         2         145         1           Investments         1.964         1.97,395.37         20,355,798.82         145         1           Investment         49,920.65         87,698.16         5         20,355,798.82         145         1           Investment         1.964	Bond	1,150,000.00	1,127,435.50	1,152,995.95	5.68	877	2.290
Investment Pool $3,96,35587$ $3,946,395.87$ $3,946,395.87$ $3,946,395.87$ $19,49$ $1$ ints $20,249,073.27$ $20,249,073.27$ $20,249,073.27$ $20,295,75.77$ $20,395,882$ $100,00$ $145$ $1$ intvestments $107,719.60$ $107,719.60$ $107,719.60$ $107,719.60$ $107,719.60$ $107,719.60$ $107,719.60$ $107,719.60$ $145$ $1$ investments $20,356,792.87$ $20,317,395.37$ $20,359,98.82$ $145$ $1$ investments $20,356,792.87$ $20,317,395.37$ $20,359,788.82$ $145$ $110,7719.60$ $145$ investments $20,356,792.83$ $87,688.16$ $80,7559,88.82$ $145$ $110,7719.60$ $145$ investment $81,996,076.95$ $87,688.16$ $81,759,88.82$ $145$ $110,7719.60$ $120,600,000$ $120,600,000$ $120,600,000$ $120,600,000$ $120,600,000$ $120,600,000$ $120,600,000,000$ $120,600,000,000,000$ $120,600,000,000,000,000,000,000,000,000,0$	icy Investment Funds	13,202,677.40	13,202,677.40	13,202,677.40	65.20	г	1.989
mts         20,249,073.37         20,209,675.37         20,525,069.22         100.00         145         1           Investments $107/19.60$ $102/10.60$ <t< td=""><td>Orange County Investment Pool</td><td>3,946,395.87</td><td>3,946,395.87</td><td>3,946,395.87</td><td>19.49</td><td>H</td><td>1.620</td></t<>	Orange County Investment Pool	3,946,395.87	3,946,395.87	3,946,395.87	19.49	H	1.620
Investments $107,719.60$ $107,719.60$ $107,719.60$ $107,719.60$ $1$ Investments $20,356,792.87$ $20,317,395.37$ $20,359,788.82$ $145$ $1$ Month Ending AugustFiscal Year to Date $90,317,395.37$ $20,359,788.82$ $145$ $145$ Month Ending AugustFiscal Year to Date $9,929,63$ $87,698.16$ $87,698.16$ $149,929,63$ $87,698.16$ Balance $26,846,076,95$ $87,698.16$ $87,698.16$ $19,929,63$ $19,929,63$ $87,698.16$ Balance $26,846,076,95$ $87,698.16$ $10,940$ $10,940$ Return $1,9840$ $1,9840$ $10,9240$ $10,940$ Athreat Policy and Guidalines in effect at the meet of Investment Togram herein shown provides sufficient case afflow liquidity to meet the nextMutter, Adneral Manger $10,940$ $10,-10,-16$ Mutter, Adneral Manger $10,-10,-16$ Mutter, MutterDateMutter, TreasurerDateMutter, TreasurerDateMutterDateMutterDateMutterDateMutterDateMutterDateMutterDate	Total Investments	20,249,073.27	20,209,675.77	20,252,069.22	100.00	145	1.984
Investments20,356,792.8720,317,395.3720,359,788.82145InvestmentsMonth Ending AugustFiscal Year to DataMonth Ending AugustFiscal Year to DataMonth Ending August $Fiscal Year to Data9,923.6387,698.1649,923.6337,698.16Balance26,846,076.9537,698.169,923.6387,698.1649,923.6387,698.16Balance26,846,076.9587,698.1619,923.6387,698.1649,923.6387,698.16Balance26,846,076.9587,698.1687,698.1610,942.64100,646.64Return1,934.961.984.961.984.96100,646.64Return1.984.961.984.961.984.961.984.96Return1.984.961.984.961.984.961.964.64Anther Return1.984.961.984.961.964.64Anther Return1.984.961.964.641.964.64Mutter, Guldelines in effect at the time of Investment. The Investment. The Investment. The Investment. The Investment. The Return Route exceptions to report.Mutter, Guldelines in effect at the time of Investment. The Investment. Pogram here are no compliance exceptions to report.Mutter, Guldelines in effect at the time of Investment. The Investment. Investment. The Investment. The Invest$		107.719.60	107.719.60	107.719.60		-	00.0
Investments       20,356,792.87       20,317,395.37       20,339,788.82       145         Month Ending August       Fiscal Year to Date       Month Ending August       Fiscal Year to Date $49,929.63$ $87,698.16$ $81,600$ <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td>						•	
mgs Morth Ending August Fiscal Year to Date ear 49,929.63 87,698.16 Daily Balance 26,846,076.95 Rate of Return 49,929.63 87,698.16 Daily Falance 26,846,076.95 Rate of Return 1.984% Intert Investments and Investments of the Municipal Water District of Orange County and is in conformity with the Government Code requirements and strict Investment Policy and Guidelines in effect at the time of Investment. The Investment Program herein shown provides sufficient cash flow ilquidity to meet the next intrict Investment of August District of Orange County and is in conformity with the Government Code requirements and intrins estimated expenditure. The source for the market values are from Union Dank. Per Resolution 2059 there are no compliance exceptions to report. Inc. I. Hunter, Tedheral Manager Date Moury Murry Mark Date Date V Chumbitazi, Treasurer Date	ih and Investments	20,356,792.87	20,317,395.37	20,359,788.82		145	1.984
ear       49,929.63       87,698.16         Daily Balance $26,846,076.95$ S7,698.16         Daily Balance $26,846,076.95$ S7,698.16         Daily that this report reflects $26,846,076.95$ S7,698.16         Rate of Return $2,846,076.95$ S7,698.16         rify that this report reflects the cash and investments of the Municipal Water District of Orange County and is in conformity with the Government Code requirements and isricit. Investment Policy and Guidelines in effect at the time of investment. The Investment Policy and Guidelines in effect at the time of investment. The Investment Policy and Guidelines in effect at the time of investment. The Investment Policy there are no compliance exceptions to report.         Dail       Ibery - R         Mart Mum Mum       Date         Volumbitazi, Treasurer       Date	nings	Month Ending August	FISCAI YEAR TO DATE				
Daily Balance       26,846,076.95         Rate of Return       1.984%         Rate of Return       1.984%         Rith this report reflects the cash and investments of the Municipal Water District of Orange County and Is in conformity with the Government Code requirements and investment Policy and Guidelines in effect at the time of Investment. The Investment Program herein shown provides sufficient cash flow ilguidity to meet the next onthis estimated expenditure. The source for the market values are from Union Bank. Per Resolution 2059 there are no compliance exceptions to report.         Date       Ibery-Ig       Date         Mum Mam       Ibery Ig       Date         V chumDitazi, Treasurer       Date       Date         V chumDitazi, Treasurer       Date       Date	Current Year	49,929.63	87,698.16				
Rate of Return1.984%AndInvestment of the Municipal Water District of Orange County and is in conformity with the Government Code requirements and strict. Investment: The Investment. Inter Adhene Information 2059 there are no compliance exceptions to report.Inter Adhene Information Inter Adhene Information Info	Daily Balance	26,846,076.95					
this report reflects the cash and investments of the Municipal Water District of Orange County and is in conformity with the Government Code requirements and strict Investment Policy and Guidelines in effect at the time of investment. The Investment Program herein shown provides sufficient cash flow liquidity to meet the next antibility estimated expenditure. The source for the market values are from Union Bank. Per Resolution 2059 there are no compliance exceptions to report. <b>16-4-8 16-4</b>	Rate of Return	1.984%					
The report reflects the cash and investments of the Municipal Water District of Orange County and is in conformity with the Government Code requirements and istrict Investment Policy and Guidelines in effect at the time of investment. The Investment Program herein shown provides sufficient cash flow liquidity to meet the next onth's estimated expenditure. The source for the market values are from Union Bank. Per Resolution 2059 there are no compliance exceptions to report. Thus, Thurter, Tedheral Manager To J. Hunter, T							
anager Date	artify that this report reflects the c istrict Investment Policy and Guids onth's estimated expenditure. Th	cash and investments of the Muni lelines in effect at the time of inve e source for the market values ar	sipal Water District of Orange Count stment. The Investment Program H e from Union Bank. Per Resolution 2	y and is in conformity with the nerein shown provides sufficier 2059 there are no compliance	e Government Code re it cash flow liquidity to exceptions to report.	quirements and meet the next	
anager Date Date			01 11 11				
anager Da							
Da La La La La La La La La La La La La La	7	lager	Date				
Da	Jaw Www. Man	ť k	end 101				
	v Chumpitazi. Treasurer		Date				

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY Portfolio Management Long-Term Portfolio Details - Investments August 31, 2018

Issuer	CUSIP/Ticker	Settlement Date	Par Value	Market Value	Book Value	Coupon Rate	YTM @ Cost	Days To Call/Maturity	Maturity Date
Negotiable Certificate Of Deposit									
Barclays Bank	D6740KKY2	9/27/2017	250,000.00	241,512.50	250,000.00	2.250	2.250	1,488	9/27/2022
Capital One Bank	14042E6C9	9/2/2015	250,000.00	249,150.00	250,000.00	1.950	1.950	368	9/3/2019
Comenity Capital	20033AUX2	7/25/2017	200,000.00	194,602.00	200,000.00	2.000	2.000	1,050	7/16/2021
Discover Bank	254673RV0	7/25/2018	250,000.00	249,995.00	250,000.00	3.300	3.300	1,789	7/25/2023
Goldman Sachs Bank	38148PT98	8/8/2018	250,000.00	250,482.50	250,000.00	3.350	3.350	1,803	8/8/2023
HSBC Bank	40434AK65	1/21/2016	250,000.00	250,307.50	250,000.00	2.250	2.534	143	1/21/2021
Morgan Stanley Bank	61747MJ36	2/1/2018	250,000.00	247,727.50	250,000.00	2,500	2.500	885	2/1/2021
Synchrony Bank	87164XBY1	7/25/2014	250,000.00	249,390.00	250,000.00	2.050	2.050	333	7/30/2019
Sub Total			1,950,000.00	1,933,167.00	1,950,000.00	2.468	2.504	981	
Corporate Bond									
JP Morgan Chase	46625HKA7	11/2/2015	500,000,00	494,975.00	500,649.48	2.250	2.152	479	1/23/2020
National Rural Util Coop	63743FE51	7/27/2017	200,000.00	192,380.00	200,000.00	2.500	2.500	1,414	7/15/2022
Wells Fargo	94974BGR5	1/13/2016	250,000.00	246,932.50	250,746.79	2.550	2.409	829	12/7/2020
Westpac Banking Corp	961214DQ3	7/25/2017	200,000.00	193,148.00	201,599.68	2.500	2.278	1,397	6/28/2022
Sub Total			1,150,000.00	1,127,435.50	1,152,995.95	2.402	2.290	877	
Total Investments			3,100,000.00	3,060,602.50	3,102,995.95	2.444	2.425	942	
Total Faminus		M	Month Ending August		Fiscal Year To Nate				
Current Year			6,172.81		11,872.70				

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY Portfolio Management Short-Term Portfolio Details - Cash and Investments August 31, 2018

investments	CUSIP/Ticker	Settlement Date	Par Value	Market Value	Book Value	Coupon Rate	YTM @ Cost	Days To Call/Maturity	Maturity Date
Local Agency Investment Funds LAIF LGIP	LAIF	6/30/2010	13,202,677.40	13,202,677.40	13,202,677.40	1.989	1.989		NIA
Sub Total			13,202,677.40	13,202,677.40	13,202,677.40	1.989	1.989	1	
Orange County Investment Pool County of Orange LGIP	OCIP	6/29/2005	3,946,395.87	3,946,395.87	3,946,395.87	1.620	1.620	÷	N/A
Sub Total			3,946,395.87	3,946,395.87	3,946,395.87	1.620	1.620	1	
Total Investments			17,149,073.27	17,149,073.27	17,149,073.27	1.904	1.904		
Cash									
Petty Cash Cash	CASH		500.00	500.00	500.00	0.000	0.000	- ·	N/A
US Bank Cash	CASHUSBANK	7/25/2018	107,219.60	107,219.60	107,219.60	0.000	0.000	<del></del>	N/A
Total Cash			107,719.60	107,719.60	107,719.60	0.000	0.000	1	
Total Cash and Investments		-	17,256,792.87	17,256,792.87	17,256,792.87	1.904	1.904	£	
Total Examinate			Month Ending August		Cieral Yaar To Nata				

Fiscal Year To Date	75,825.46	
Month Ending August	43,756.82	
Total Earnings	Current Year	

# Municipal Water District of Orange County Cash and Investments at August 31, 2018

							WEROC Trustee Funds		
						-	Desalination Desalination Feasibility Study		
							Conservation		
							Water		
							General		
				_			Reserves		
12,000,000.00	10,000,000.00	8,000,000	6,000,000.00	4,000,000.00	2,000,000.00		,	(2,000,000.00)	
%	15.50%	7.37% 1.49% 1.72% 1.03%	27.11%	51.63% 16.87% 2.00%	2.00% -0.71% 2.96%	99.86%	0.14%	0.14%	100.00%
AMOUNT	3,156,569	1,500,000 304,000 350,407 209,006	5,519,982	10,511,609 3,433,787 407 200	407,300 (145,267) 603,515	\$ 20,331,014	28,775	28,775	\$ 20,359,789
AN	بې بې	~	сэ <u>с</u> э	5 0		\$ 20	¢	S	\$ 20
ALLOCATION	MVDOC Designated Reserves General	Grant & Project Cash Flow Election Expense Building Repair OPEB	Total Designated Reserves	General Water	Conservation Desalination Feasibility Study WEROC	TOTAL MWDOC	TRUSTEE ACTIVITIES AMP Sales Admin	TOTAL TRUSTEE ACTIVITIES	Testments De 25 of 110



# Item 1g

#### MUNICIPAL WATER DIST OF ORANGE COUNTY PARS Post-Employment Benefits Trust

Rob Hunter General Manager Municipal Water Dist of Orange County 18700 Ward Street Fountain Valley, CA 92708 Account Report for the Period 8/1/2018 to 8/31/2018

Account Summary							
Source	Beginning Balance as of 8/1/2018	Contributions	Earnings	Expenses	Distributions	Transfers	Ending Balance as of 8/31/2018
OPEB	\$2,106,822.83	\$0.00	\$27,774.12	\$395.03	\$0.00	-\$560.71	\$2,133,641.21
PENSION	\$207,000.00	\$0.00	\$2,728.94	\$38.81	\$0.00	\$0.00	\$209,690.13
Totals	\$2,313,822.83	\$0.00	\$30,503.06	\$433.84	\$0.00	-\$560.71	\$2,343,331.34

	Investment Selection
Source	
OPEB	Moderate HighMark PLUS
PENSION	Moderate HighMark PLUS
	Investment Objective
Source	
OPEB	The dual goals of the Moderate Strategy are growth of principal and income. It is expected that dividend and interest income will comprise a significant portion of total return, although growth through capital appreciation is equally important. The portfolio will be allocated between equity and fixed income investments.
PENSION	The dual goals of the Moderate Strategy are growth of principal and income. It is expected that dividend and interest income will comprise a significant portion of total return, although growth through capital appreciation is equally important. The portfolio will be allocated between equity and fixed income investments.
	Investment Return

				Annualized Return			
Source	1-Month	3-Months	1-Year	3-Years	5-Years	10-Years	Plan's Inception Date
OPEB	1.32%	2.93%	7.27%	7.63%	7.01%	-	10/26/2011
PENSION	1.32%	-	-	-	-	-	7/31/2018

Information as provided by US Bank, Trustee for PARS; Not FDIC Insured; No Bank Guarantee; May Lose Value

Past performance does not guarantee future results. Performance returns may not reflect the deduction of applicable fees, which could reduce returns. Information is deemed reliable but may be subject to change. Investment Return: Annualized rate of return is the return on an investment over a period other than one year multiplied or divided to give a comparable one-year return. Account balances are inclusive of Trust Administration, Trustee and Investment Management fees

Headquarters - 4350 Von Karman Ave., Suite 100, Newport Beach, CA 92660 800.540.6369 Fax 949.250.1250 www.pars.org

## Item 2

## MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

## **COMBINED FINANCIAL STATEMENTS**

## AND

## **BUDGET COMPARATIVE**

## JULY 1, 2018 THRU AUGUST 31, 2018

#### Municipal Water District of Orange County Combined Balance Sheet As of August 31, 2018

ASSETS Cash in Bank Investments Accounts Receivable Accounts Receivable - Other Accrued Interest Receivable Prepaids/Deposits Leasehold Improvements Furniture, Fixtures & Equipment Less: Accum Depreciation	Amount 107,719.60 20,252,069.22 41,654,285.52 194,056.77 93,148.52 328,959.56 3,735,829.68 563,307.34 (2,952,928.22)
TOTAL ASSETS	\$63,976,447.99
LIABILITIES AND FUND BALANCES Liabilities Accounts Payable Accounts Payable - Other Accrued Salaries and Benefits Payable Other Liabilities Unearned Revenue Total Liabilities	43,629,588.50 326.23 348,676.55 179,267.95 954,311.68 45,112,170.91
<b>Fund Balances</b> Restricted Fund Balances Water Fund - T2C Total Restricted Fund Balances	986,714.65 986,714.65
Unrestricted Fund Balances Designated Reserves General Operations Grant & Project Cash Flow Election Expense Building Repair OPEB Total Designated Reserves	3,156,569.42 1,500,000.00 304,000.00 350,407.45 209,006.00 5,519,982.87
GENERAL FUND WEROC Capital WEROC Total Unrestricted Fund Balances	4,209,440.74 25,338.00 273,656.70 10,028,418.31
Excess Revenue over Expenditures Operating Fund Other Funds Total Fund Balance TOTAL LIABILITIES AND FUND BALANCES	7,884,885.55 (35,741.43) 18,864,277.08 \$63,976,447.99
	,,

#### Municipal Water District of Orange County Revenues and Expenditures Budget Comparative Report General Fund From July thru August 2018

	Month to Date	Year to Date	Annual Budget	% Used	Encumbrance	Budget Remaining
<u>REVENUES</u>						
Retail Connection Charge Ground Water Customer Charge	0.00 0.00	7,697,005.75 499,012.00	7,697,006.00 499,012.00	100.00% 100.00%	0.00 0.00	0.25 0.00
Water rate revenues	0.00	8,196,017.75	8,196,018.00	100.00%	0.00	0.25
Water rate revenues	0.00	8,190,017.75	8,190,018.00	100.00%	0.00	0.23
Interest Revenue	47,870.26	83,918.77	390,000.00	21.52%	0.00	306,081.23
Subtotal	47,870.26	8,279,936.52	8,586,018.00	96.44%	0.00	306,081.48
Choice Programs	1,083,819.46	1,083,819.46	1,174,750.00	92.26%	0.00	90,930.54
Miscellaneous Income School Contracts	590.87 0.00	667.83 0.00	3,000.00 102,031.00	22.26% 0.00%	0.00 0.00	2,332.17 102,031.00
Transfer-In From Reserve	0.00	0.00	5,276.00	0.00%	0.00	5,276.00
Subtotal	1,084,410.33	1,084,487.29	1,285,057.00	84.39%	0.00	200,569.71
TOTAL REVENUES	1,132,280.59	9,364,423.81	9,871,075.00	94.87%	0.00	506,651.19

#### Municipal Water District of Orange County Revenues and Expenditures Budget Comparative Report General Fund From July thru August 2018

EXERNES         Salaries & Wages         297,130.42         587,382.89         3,522,982.00         16.67%         0.00         2,935,599.12           Salaries & Wages         50,000         0.00         6,630.00         0.00%         0.00         6,630.00         0.00%         0.00         6,630.00         0.00%         0.00         225,546.00         11.75%         0.00         225,724.68           MVD Representation         0.04         20,000.00         20,000.00         20,000.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00         0.00         5.000.00		Month to Date	Year to Date	Annual Budget	% Used	Encumbrance	Budget Remaining
statics & Wages         297,130.42         587,382.39         5,522,982.00         16.67%         0.00         2,935,599.12           Statics & Wages - Grant Recovery         0.00         0.00         (6,500.00)         0.000         (6,500.00)         0.000         (6,500.00)         0.000         (6,500.00)         0.000         (5,500.00)         1.775%         0.00         1.5724.68           WVD Representation         10,346.65         20,155.27         1.108,564.00         16.04%         0.00         90,077.133           OPEA Armud Caritikution         0.00         2,079.80         20,000.00         10.00%         0.00         60,077.135           Training Expense         0.00         5,000.00         1.04%         0.00         5,000.00         0.00%         5,000.00           Personnel Expense         0.00         5,000.00         0.00%         0.00         5,000.00         0.00%         5,000.00         0.00%         5,000.00         0.00         5,000.00         0.00         5,000.00         0.00         5,000.00         0.00         5,000.00         0.00         5,000.00         0.00         5,000.00         0.00         5,000.00         0.00         5,000.00         0.00         5,000.00         0.00         5,000.00         0.00	EXPENSES						
Shartes & Væges - Grant Recovery         0.00         (6.300.00)         0.00%         0.00         (5.300.00)           Director's Compensation         10.394.65         29.95.93.0         11.75%         0.00         125.724.68           Imployee Benefits         94.662.54         145.920.00         13.84%         0.00         125.724.68           Imployee Benefits         77.723.67         145.920.00         13.84%         0.00         930.771.33           OPEE Annual Contribution         0.00         207.000.00         100.00%         0.00         80.053.64           Training Expense         4.065.70         9.477.44         70.519.00         14.113         0.00         2.45.400.68           Training Expense         80.00         459.41         72.500.00         1.047.467.21         5.433.612.00         1.026%         0.00         5.000.00           Temporary help Expense         42.9045.67         1.047.467.21         5.433.612.00         1.026%         0.00         4.386.514.40           Legal Expense         9.983.07         7.000.00         2.104%         1.285.506.80         5.454.984.48         5.571.60           Professional Fees         125.775.66         125.970.00         10.53%         0.00         3.476.65           Professi		297 130 42	587 382 89	3 522 982 00	16 67%	0.00	2 935 599 12
Director's Compensation         15,43.48         29,995.99         255,80.00         11.75%         0.00         12.25,46.01           MVD Representation         10,394.65         20,195.32         155,20.00         11.84%         0.00         125,724.68           PDFE3 Annual Contribution         0.00         20,7000.00         15.03%         0.00         0.00           Dreta Annual Contribution         0.00         27,900.00         14.13%         0.00         60,711.64           Health Insurance for Retires         4,036.70         9,947.84         70,519.00         14.13%         0.00         60,711.64           Training Expense         40,00         0.00         5,000.00         0.00%         0.00         5,000.00         0.00%         5,000.00         13.84%         0.00         42,50.351           Training Expense         44,573.51         69,433.22         13.28%         0.00         43.86,234.80         52,71.60           Legal Expense         9,93.07         7,075.1         25,000.00         10.63%         27,902.49         0.00           Professional Services         70,619.02         111,913.21         1,430,788.00         7.82%         0.00         35,176.00           Conference-Staff         2,740.00         3,5176.00	5	,					
MVD Representation         10.38.465         20.155.32         145.920.00         13.84%         0.00         125.724.68           Employee Benefits         94.662.54         1.005.64.00         100.00%         0.00         930.771.33           OPEB Annual Contribution         0.00         207.000.00         100.00%         0.00         930.771.33           OPEB Annual Contribution         0.00         207.000.01         15.53%         0.00         80.052.64           Health Insurance for Retirees         4.036.70         1.947.84         25.000.00         1.84%         0.00         25.000.00           Tution Reimburstement         0.00         0.00         5.000.00         0.00%         0.00         5.000.00           Personnel Expense         0.00         5.000.00         0.00%         0.00         5.000.00           Professional Services         9.983.07         7.097.51         2.104%, 752.9484.48         5.757.665           Professional Fees         125.175.60         215.482.75         2.044.788.00         12.54%         7.92.98         542.756.85           Conference-Directors         1.080.00         3.79.00         2.41.44         1.286.506.80         542.756.85           Conference-Directors         1.28.00         7.97.97.00	с ,			,			,
Employee Benefits         94,662,54         177,724,67         1,108,564,00         16,04%         0.00         930,771,33           OPEB Annual Contribution         0.00         207,000,00         10,000%         0.00         0.00           Interactor's Benefits         7,237,28         14,713,36         94,767,00         15,53%         0.00         60,571,16           Training Expense         40,867,0         9,547,84         70,519,00         18,44%         0.00         2,500,00           Temporary Heigh Expense         40,573,51         69,443,22         0.00         5,000,00         0.00%         0.00         4,386,324,80           Itagin Expense         42,504,567         1,047,467,11         5,433,22         0.10,47,448,48         5,571,60           Legal Expense         9,983,07         22,900,00         10,63%         22,902,44         5,571,60           Legal Expense         9,983,07         22,900,00         10,63%         22,902,44         5,571,60           Conference Staff         2,740,00         7,704,00         42,480,00         17,97%         0.00         25,175,60           Conference Staff         1,240,073,11         1,430,738,00         15,53%         0.00         24,992,24         27,978,45           Confere	•	•		•			•
OPEB Annual Contribution         0.00         207,000.00         100.00%         0.00         0.00           Director's Benefits         7,297,88         14,713,34         79,7519,00         14,11%         0.00         60,571,16           Training Expense         0.00         5,000,00         0.00%         0.00         5,000,00         0.00%         0.00         5,000,00         0.00%         0.00         5,000,00         0.00%         0.00         5,000,00         0.00%         0.00         5,000,00         0.00%         0.00         5,000,00         0.00%         0.00         5,000,00         0.00%         0.00         5,000,00         0.00%         0.00         5,000,00         0.00%         0.00         4,363,24.80         Personnel Expense         429,045.67         1,047,487.21         5,743,812.00         0.00         4,363,24.80         Personal Services         70,619,02         111,941.32         123,050,00         0.03%         227,902.49         0.00         4,383,24.80         Personal Services         70,619,02         1,430,780,00         71,874         71,238,03         527,576.85         Personal Services         542,768,45         Conference-Staff         1,251,756         215,482,75         2,044,758,00         10,544         1,286,506.80         542,768,45	-	•		•			•
Health Insurance for Retirees         4.036.70         9.947.84         70,519.00         14.11%         0.00         60,571.16           Training Expense         0.00         0.00         5,000.00         0.00%         0.00         5,000.00           Personnel Expense         0.00         0.00         5,000.00         0.00%         0.00         4,540.86           Legal Expense         0.00         7,047.817.11         5,433.812.00         0.0342.82         0.00         4,366.324.80           Legal Expense         9,83.07         7,067.51         25,000.00         21.04%         224,945.67         0.00         4,362.248.00         9,620.00           Audit Expense         0.00         7,061.02         11,941.32         1,430,758.00         7,825         721,238.03         527,756.85           Conference-Staff         2,740.00         7,744.00         4,2880.00         1,797%         0.00         22,975.22           Travel & Accom-Staff         1,523.96         2,782.01         9,660.00         2,73%         0.00         22,975.23           Travel & Accom-Staff         1,523.96         2,782.01         9,560.00         2,73%         0.00         22,975.22           Membership/Sponsorship         70.00         56,926.36         141,		0.00			100.00%	0.00	0.00
Training Expense         80.00         459.14         25,000.00         1.44%         0.00         24,540.86           Tution Reimbursment         0.00         0.00         5,000.00         0.00%         0.00         5,000.00           Personnel Expense         429,045.67         1,047,487.21         5,433,812.00         19,28%         0.00         4,386,324.80           Legial Expense         9,983.07         27,097.51         25,500.00         10.44%         254,984.48         5,571.60           Audit Expense         0.00         7,000.00         21,04%         254,984.48         5,571.60           Audit Expense         0.00         7,000.00         22,000.00         24,14%         1,230.00         9,520.00           Professional Services         70,619.02         111,941.32         1,430.788.00         7,82%         791,239.83         527,257.68.57           Conference-Directors         1,880.00         3,872.00         24,393.00         1,236,576.00         213,956.70         738%         0.00         24,376.49           Travel & Conference         6,043.69         16,184.78         219,160.00         7.38%         0.00         48,275.40           Dues & Memberships         70.00         556,226.36         141,662.00         40.18% <td>Director's Benefits</td> <td>7,297.88</td> <td>14,713.36</td> <td>94,767.00</td> <td>15.53%</td> <td>0.00</td> <td>80,053.64</td>	Director's Benefits	7,297.88	14,713.36	94,767.00	15.53%	0.00	80,053.64
Tution Reimbursement         0.00         0.00         5,000.00         0.00%         0.00         5,000.00           Personnel Expense         429,045.67         1,047,487.21         5,433,812.00         19.28%         0.00         4,386,324.80           Engineering Expense         49,873.51         69,443.92         330,000.00         21.04%         524,984.48         5,571.60           Legal Expense         9,983.07         27,097.51         255,000.00         10.63%         225,902.49         0.00           Audit Expense         0.00         7,000.00         29,000.00         24.14%         1.380.00         9,620.00           Professional Services         70,619.02         1111941.32         1,430,758.00         10.54%         1,265,068.00         542,768.45           Conference-Staff         2,740.00         3,7704.00         4,280.00         15,73%         0.00         49,923.23           Travel & Accom-Staff         1,523.86         2,782.01         9,960.00         7.38%         0.00         49,923.23           Membership/Sponsorship         70.00         55,926.36         141,662.00         40.18%         0.00         84,735.54           Dusis & Memberships         70.00         65,926.37         188,706.00         35,283.19	Health Insurance for Retirees	4,036.70	9,947.84	70,519.00	14.11%	0.00	60,571.16
Temporary Help Expense Personnel Expense         0.00         0.00         5,000.00         0.00%         0.00         4,386,324.80           Engineering Expense         429,045.67         1,047,487.21         5,433,812.00         10.26%         0.00         4,386,324.80           Engineering Expense         9,983.07         27,097.51         25,000.00         10.63%         227,902.49         0.00           Audit Expense         0.00         7,000.00         25,000.00         14.14%         1,380.00         9,620.00           Professional Fees         125,175.60         2114,942.75         2,044.758.00         7.82%         791,239.83         527,576.85           Conference-Staff         2,740.00         7,040.00         42,880.01         1.79%         0.00         24,937.00         24,938.00         12,058.00         35,176.00         35,176.00         35,176.00         21,958.00         7.79%         0.00         26,927.34         0.00         22,975.22         Membership/Sponsorship         70.00         56,926.36         14,622.00         40.18%         0.00         22,975.22           Membership/Sponsorship         70.00         66,687.43         188,706.00         35,40%         35,283.19         84,735.54         (0.26)         0.00         55,05%         35,283.	Training Expense	80.00	459.14	25,000.00	1.84%	0.00	24,540.86
Personnel Expense         429,045.67         1,047,487.21         5,433,812.00         19.28%         0.00         4,386,324.80           Engineering Expense         49,573.51         69,443.92         330,000.00         10.04%         254,984.48         5,571.60           Legal Expense         9.983.07         72,095.751         255,000.00         10.63%         225,902.49         0.00           Audit Expense         0.00         7,000.00         23,000.00         11.341.32         1,430,050.00         11,286,000         9,722,902.49         0.00           Professional Fees         125,175.60         215,482.75         2,044,758.00         10.54%         1,286,506.80         542,768.84           Conference-Staff         2,740.00         7,704.00         4,280.00         17.97%         0.00         5,175.60           Travel & Accon-Straff         1,523.96         2,782.01         9,960.00         2.02,975.22           Membership/Sponorship         70.00         5,592.63         141,662.00         40.18%         0.00         49,735.31           Dues & Memberships         70.00         5,592.63         141,662.00         40.18%         0.00         48,735.31           Business Expense         334.73         566.21         5,600.00         10.11% <td>Tuition Reimbursement</td> <td>0.00</td> <td>0.00</td> <td>5,000.00</td> <td>0.00%</td> <td>0.00</td> <td>5,000.00</td>	Tuition Reimbursement	0.00	0.00	5,000.00	0.00%	0.00	5,000.00
Engineering Expense         44,573.51         69,43.92         330,000.00         21.04%         254,984.48         5.571.60           Legal Expense         9,983.07         27,097.51         255,000.00         24.14%         12,380.09         9,000.09         9,000.00         24.14%         12,380.00         9,620.00         3,517.60         10,63%         1,286,506.80         542,768.45           Conference-Directors         1,080.00         3,872.00         24,930.00         12,79%         0.00         24,178.35         0.00         24,178.35         0.00         24,932.32         0.00         20,975.21         3,78%         0.00         24,198.00         0.00         14,735.64         0.00         14,735.64         0.00         14,735.64         0.00         14,735.64         0.00         14,735.64         0.00         14,745.38         0.00         55,03.23.19         60,02.61         0.00         0.01.11%							
Legal Expense         9,983.07         27,097.51         255,000.00         24,14%         12,380.00         9,620.00           Audit Expense         0.00         7,000.00         29,000.00         24,14%         12,380.00         9,620.00           Professional Services         70,619.00         111,941.32         1,430,758.00         7,222.39.38         527,576.85           Conference-Directors         1,080.00         3,872.00         42,930.00         15,53%         0.00         24,058.00           Travel & AccomDirectors         1,080.00         3,872.00         2,493.00         7,577         0,00         96,681.79           Travel & Conference         6,043.69         16,184.78         219,160.00         7.38%         0.00         44,735.84           CDR Support         0.00         11,761.07         47,404.00         25.00%         35,283.19         (0,26)           Dues & Memberships         70.00         66,687.43         188,706.00         36.40%         35,283.19         (0,26)           Dues & Memberships         70.00         66,687.43         188,706.00         36.40%         35,283.19         (0,26)           Dues & Memberships         70.00         66,687.43         188,706.00         36.40%         35,283.19         (0,	Personnel Expenses	429,045.67	1,047,487.21	5,433,812.00	19.28%	0.00	4,386,324.80
Audit Expense         0.00         7,000.00         29,000.00         24,14%         12,380.00         9,620.00           Professional Services         70,619.02         111,941.32         1,430,758.00         7.82%         791,239.83         527,576.85           Conference-Staff         2,740.00         7,704.00         42,880.00         12,97%         0.00         35,176.00           Conference-Directors         1,080.00         3,872.00         24,930.00         15,53%         0.00         21,058.00           Travel & Accom-Staff         1,523.96         2,782.01         99,600.00         2,79%         0.00         22,975.22           Membership/Sponsorship         70.00         66,943.69         16,184.78         219,160.00         7.38%         0.00         202,975.22           Membership/Sponsorship         70.00         66,867.43         188,706.00         36.40%         35,283.19         84,735.38           Business Expense         334.73         566.21         5,600.00         10.11%         0.00         5,033.79           Maintenance Office         8,007.49         14,361.64         132,796.00         10.81%         113,843.45         4,600.00           Builing Repair & Maintenance         694.76         1,712.39         2,000.00	Engineering Expense	44,573.51	69,443.92	330,000.00	21.04%	254,984.48	5,571.60
Professional Services Professional Fees         70,619.02 125,175.60         111,941.32 215,482.75         1,430,758.00 2,44,758.00         7.82% 791,239.83         527,576.85 542,768.45           Conference-Staff         125,175.60         215,482.75         2,044,758.00         17.97%         0.00         35,176.00           Conference-Directors         1,080.00         3,872.00         24,930.00         15.53%         0.00         21,058.00           Travel & Accom-Staff         1,523.96         2,782.01         9,600.00         3.53%         0.00         49,923.23           Travel & Accom-Directors         6,043.69         16,184.78         219,160.00         7.38%         0.00         84,735.54           CDR Support         0.00         11,761.07         47,044.00         25.00%         35,283.19         0.26)           Dues & Memberships         70.00         68,687.43         188,706.00         36.40%         35,283.19         84,735.84           Building Repair & Maintenance         694.76         1,712.39         20,000.00         85,668.18,827.61         0.00           Office Supplies         2,895.94         4,557.35         36,000.00         12.06%         3,352.41         28,000.24           Postage/Mail Delivery         819.16         1,243.36         9,000.00	Legal Expense	9,983.07	27,097.51	255,000.00	10.63%	227,902.49	0.00
Professional Fees         125,175.60         215,482.75         2,044,758.00         10.54%         1,286,506.80         542,768.45           Conference-Staff         2,740.00         7,704.00         42,880.00         17.97%         0.00         35,176.00           Conference-Directors         1,080.00         3.872.00         24,930.00         15.53%         0.00         21,058.00           Travel & Accom-Directors         1,080.00         3.872.00         21,950.00         7.38%         0.00         49,923.23           Membership/Sponsorship         70.00         56,926.36         141,662.00         40.18%         0.00         49,923.23           Dues & Memberships         70.00         66,687.43         188,706.00         36.40%         35,283.19         40.25,38           Business Expense         334.73         566.21         5,600.00         10.11%         0.00         5,033.79           Maintenance         694.76         1,712.39         20,000.00         8.56%         18,287.61         0.00           Office supplies         2,895.94         4,557.33         3,600.00         12.66%         3,352.41         28,000.24           Postage/Mail Renance         9,007.36         9,000.00         13.82%         3,353.37         4,403.27 <td>Audit Expense</td> <td>0.00</td> <td>7,000.00</td> <td>29,000.00</td> <td>24.14%</td> <td>12,380.00</td> <td>9,620.00</td>	Audit Expense	0.00	7,000.00	29,000.00	24.14%	12,380.00	9,620.00
Conference-Staff         2,740.00         7,704.00         42,880.00         17.97%         0.00         35,176.00           Conference-Directors         1,080.00         3,872.00         24,930.00         15.53%         0.00         21,058.00           Travel & Accom-Staff         1,523.96         2,782.01         99,600.00         2.79%         0.00         49,923.23           Travel & Conference         6,043.69         16,184.78         219,160.00         7.38%         0.00         49,923.23           Membership/Sponsorship         70.00         56,926.36         141,662.00         40.18%         0.00         84,735.64           CDR Support         0.00         11,761.07         47,044.00         25,00%         35,283.19         62,733.8           Business Expense         334.73         566.21         5,600.00         10.11%         0.00         5,033.79           Maintenance Office         8,007.49         14,361.64         132,796.00         10.81%         113,834.36         4,600.00           Building Repair & Maintenance         694.76         1,712.39         20,000.00         8.56%         18,287.61         0.00           Office Supplies         2,895.94         4,557.35         36,000.00         12.66%         3,352.41	Professional Services	70,619.02	111,941.32	1,430,758.00	7.82%	791,239.83	
Conference-Directors         1,080.00         3,872.00         24,930.00         15.53%         0.00         21,058.00           Travel & AccomStaff         1,523.96         2,782.01         99,600.00         2.79%         0.00         96,817.99           Travel & Conference         6,043.69         16,184.78         219,160.00         7.38%         0.00         49,922.32           Membership/Sponsorship         70.00         56,926.36         141,662.00         40.18%         0.00         84,735.54           Dues & Memberships         70.00         66,867.43         188,706.00         36,40%         35,283.19         60.26)           Business Expense         334.73         566.21         5,600.00         10.11%         0.00         5,033.79           Maintenance Office         8,007.49         14,361.64         132,796.00         10.81%         113,834.36         4,600.00           Building Repair & Maintenance         694.76         1,712.39         20,000.00         8.56%         18,287.61         0.00           Office Supplies         2,895.94         4,557.35         36,000.00         12.66%         3,353.37         4,403.27           Subscriptions & Books         0.00         155.66         8,0000.00         13,882%         3,353.	Professional Fees	125,175.60	215,482.75	2,044,758.00	10.54%	1,286,506.80	542,768.45
Travel & AccomStaff         1,523.96         2,782.01         99,600.00         2.79%         0.00         96,817.99           Travel & AccomDirectors         6,043.69         16,184.78         219,160.00         7.38%         0.00         49,923.23           Membership/Sponsorship         70.00         56,926.36         141,662.00         40.18%         0.00         84,735.64           CDR Support         0.00         11.761.07         47,044.00         25.00%         35,283.19         84,735.38           Business Expense         334,73         566.21         5,600.00         10.11%         0.00         5,033.79           Maintenance Office         8,007.49         14,361.64         132,796.00         18,287.61         0.00           Storage Rental & Equipment Lease         209.70         417.30         3,600.00         12.66%         3,352.41         28,090.24           Postage/Mail Delivery         819.16         1,243.36         9,000.00         13.82%         3,403.27         5,056.24           Software Support         11,941.40         16,229.13         3,600.00         12.66%         3,352.41         28,090.24           Postage/Mail Delivery         819.16         1,243.36         9,000.00         13.82%         3,403.27 <t< td=""><td>Conference-Staff</td><td>2,740.00</td><td>7,704.00</td><td>42,880.00</td><td>17.97%</td><td>0.00</td><td>35,176.00</td></t<>	Conference-Staff	2,740.00	7,704.00	42,880.00	17.97%	0.00	35,176.00
Travel & AccomDirectors Travel & Conference         699.73 6,043.69         1,826.77 16,184.78         51,750.00 219,160.00         3.53% 7.38%         0.00 0.00         49,923.23 202,975.22           Membership/Sponsorship CDR Support         70.00         56,926.36         141,662.00         40.18%         0.00         84,735.64           Dues & Memberships         70.00         66,687.43         188,706.00         36.40%         35,283.19         84,735.38           Business Expense         334.73         566.21         5,600.00         10.11%         0.00         5,033.79           Maintenance Office         8,007.49         14,361.64         132,796.00         10.81%         113,834.36         4,600.00           Building Repair & Maintenance         694.76         1,712.39         20,000.00         8.56%         18,287.61         0.00           Storage Final & Equipment Lease         209.70         417.30         3,460.00         12.06%         3,352.41         28,090.24           Postage/Mail Delivery         819.16         1,243.36         9,000.00         13.82%         3,353.37         4,403.27           Subscriptions & Books         0.00         135.66         15,00.00         10.38%         0.00         1,443.44           Reproduction Expense         3,707.36 </td <td>Conference-Directors</td> <td>1,080.00</td> <td>3,872.00</td> <td>24,930.00</td> <td>15.53%</td> <td>0.00</td> <td>21,058.00</td>	Conference-Directors	1,080.00	3,872.00	24,930.00	15.53%	0.00	21,058.00
Travel & Conference         6,043.69         16,184.78         219,160.00         7.38%         0.00         202,975.22           Membership/Sponsorship CDR Support         70.00         56,926.36         141,662.00         40.18%         0.00         84,735.64           Dues & Memberships         70.00         66,87.43         188,706.00         35,283.19         84,735.84           Business Expense         334.73         566.21         5,600.00         10.11%         0.00         5,033.79           Maintenance Office         84,074.9         14,361.64         132,796.00         18.81%         113,834.36         4,600.00           Building Repair & Maintenance         694.76         1,712.39         20,000.00         8.56%         18,287.61         0.00           Storage Rental & Equipment Lease         209.70         417.30         3,460.00         12.66%         3,352.41         28,090.24           Postage/Mail Delivery         819.16         1,243.36         9,000.00         13.82%         3,353.37         4,403.27           Subscriptions & Books         0.00         155.66         1,500.00         10.38%         0.00         1,344.34           Maintenance-Computers         173.76         766.86         8,500.00         20.73%         4,535.28	Travel & AccomStaff	1,523.96	2,782.01	99,600.00	2.79%	0.00	96,817.99
Membership/Sponsorship         70.00         56,926.36         141,662.00         40.18%         0.00         84,735.64           CDR Support         0.00         11,761.07         47,044.00         25.00%         35,283.19         (0.26)           Dues & Memberships         70.00         68,687.43         188,706.00         36.40%         35,283.19         (0.26)           Business Expense         334.73         566.21         5,600.00         10.11%         0.00         5,033.79           Maintenance Office         8,007.49         14,361.64         132,796.00         18.18         113,834.36         4,600.00           Building Repair & Maintenance         694.76         1,712.39         20,000.00         8.56%         18,287.61         0.00           Ostrage Mental & Equipment Lease         2.09.70         417.30         3,460.00         12.66%         3,352.41         28,090.24           Postage/Mail Delivery         819.16         1,243.36         9,000.00         13.82%         3,353.37         4,403.27           Subscriptions & Books         0.00         155.66         1,500.01         10.38%         0.00         1,344.34           Reproduction Expense         1,737.6         766.86         8,000.00         9.59%         1,876.12 </td <td>Travel &amp; AccomDirectors</td> <td>699.73</td> <td>1,826.77</td> <td>51,750.00</td> <td>3.53%</td> <td>0.00</td> <td>49,923.23</td>	Travel & AccomDirectors	699.73	1,826.77	51,750.00	3.53%	0.00	49,923.23
CDR Support         0.00         11,761.07         47,044.00         25.00%         35,283.19         (0.26)           Dues & Memberships         70.00         68,687.43         188,706.00         36.40%         35,283.19         84,735.38           Business Expense         334.73         566.21         5,600.00         10.11%         0.00         5,033.79           Maintenance Office         8,007.49         14,361.64         132,796.00         10.81%         113,834.36         4,600.00           Building Repair & Maintenance         694.76         1,712.39         20,000.00         8,56%         18,287.61         0.00           Office Supplies         2,895.94         4,557.35         36,000.00         12,66%         3,352.41         28,090.24           Postage/Mail Delivery         819.16         1,243.36         9,000.00         13.82%         3,353.37         4,403.27           Subscriptions & Books         0.00         15.66         1,500.00         10.38%         0.00         1,344.34           Reproduction Expense         3,108.95         3,108.95         3,073.00         9,40%         3,431.817.36           Software Purchase         9,507.36         9,507.36         45,861.00         20.73%         4,536.28         31,817.36	Travel & Conference	6,043.69	16,184.78	219,160.00	7.38%	0.00	202,975.22
CDR Support         0.00         11,761.07         47,044.00         25.00%         35,283.19         (0.26)           Dues & Memberships         70.00         68,687.43         188,706.00         36.40%         35,283.19         84,735.38           Business Expense         334.73         566.21         5,600.00         10.11%         0.00         5,033.79           Maintenance Office         8,007.49         14,361.64         132,796.00         10.81%         113,834.36         4,600.00           Building Repair & Maintenance         694.76         1,712.39         20,000.00         8,56%         18,287.61         0.00           Office Supplies         2,895.94         4,557.35         36,000.00         12,66%         3,352.41         28,090.24           Postage/Mail Delivery         819.16         1,243.36         9,000.00         13.82%         3,353.37         4,403.27           Subscriptions & Books         0.00         15.66         1,500.00         10.38%         0.00         1,344.34           Reproduction Expense         3,108.95         3,108.95         3,073.00         9,40%         3,431.817.36           Software Purchase         9,507.36         9,507.36         45,861.00         20.73%         4,536.28         31,817.36	Membership/Sponsorship	70.00	56.926.36	141.662.00	40.18%	0.00	84.735.64
Dues & Memberships         70.00         68,687.43         188,706.00         36.40%         35,283.19         84,735.38           Business Expense         334.73         566.21         5,600.00         10.11%         0.00         5,033.79           Maintenance Office         8,007.49         14,361.64         132,796.00         10.81%         113,834.36         4,600.00           Building Repair & Maintenance         694.76         1,712.39         20,000.00         8.56%         18,287.61         0.00           Office Supplies         2,895.94         4,557.35         36,000.00         12.66%         3,352.41         28,002.44           Postage/Mail Delivery         819.16         1,243.36         9,000.00         13.82%         3,353.37         4,403.27           Subscriptions & Books         0.00         155.66         1,500.00         10.38%         0.00         1,344.34           Reproduction Expense         3,108.95         3,108.95         3,107.00         9.40%         3,403.21         25,550.84           Maintenance-Computers         173.76         766.86         8,000.00         25.14%         0.00         1,394.99           Computers and Equipment         2,978.75         2,198.50         1,850.00         25.14%         0.00 </td <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td>				•			
Maintenance Office8,007.4914,361.64132,796.0010.81%113,834.364,600.00Building Repair & Maintenance694.761,712.3920,000.008.56%18,287.610.00Storage Rental & Equipment Lease209.70417.303,460.0012.06%2,042.701,000.00Office Supplies2,895.944,557.3536,000.0013.82%3,352.4128,090.24Postage/Mail Delivery819.161,243.369,000.0013.82%3,353.374,403.27Subscriptions & Books0.00155.661,500.0010.38%0.001,344.34Reproduction Expense3,108.953,108.9533,073.0094.0%3,403.2126,560.84Maintenance-Computers17.37766.866,800.009.59%1,876.125,357.02Software Purchase9,507.369,507.3645,861.0020.73%4,536.2831,817.36Software Support11,941.4016,229.0151,934.0031.25%2,400.0033,304.99Computers and Equipment2,978.752,978.7511,850.0021.46%0.008,871.25Automotive Expense9,087.3819,522.66138,500.0114.10%0.00118,977.34Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,269.24119,205.007.31%(470.31)110,962.02MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.71%0.00	Dues & Memberships	70.00	68,687.43	188,706.00	36.40%	35,283.19	84,735.38
Maintenance Office8,007.4914,361.64132,796.0010.81%113,834.364,600.00Building Repair & Maintenance694.761,712.3920,000.008.56%18,287.610.00Storage Rental & Equipment Lease209.70417.303,460.0012.06%2,042.701,000.00Office Supplies2,895.944,557.3536,000.0013.82%3,352.4128,090.24Postage/Mail Delivery819.161,243.369,000.0013.82%3,353.374,403.27Subscriptions & Books0.00155.661,500.0010.38%0.001,344.34Reproduction Expense3,108.953,108.9533,073.0094.0%3,403.2126,560.84Maintenance-Computers17.37766.866,800.009.59%1,876.125,357.02Software Purchase9,507.369,507.3645,861.0020.73%4,536.2831,817.36Software Support11,941.4016,229.0151,934.0031.25%2,400.0033,304.99Computers and Equipment2,978.752,978.7511,850.0021.46%0.008,871.25Automotive Expense9,087.3819,522.66138,500.0114.10%0.00118,977.34Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,269.24119,205.007.31%(470.31)110,962.02MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.71%0.00	Business Expense	334.73	566.21	5.600.00	10,11%	0.00	5,033,79
Building Repair & Maintenance694.761,712.3920,000.008.56%18,287.610.00Storage Rental & Equipment Lease209.70417.303,460.0012.06%2,042.701,000.00Office Supplies2,895.944,557.3536,000.0012.66%3,352.4128,090.24Postage/Mail Delivery819.161,243.369,000.0013.82%3,353.374,403.27Subscriptions & Books0.00155.661,500.0010.38%0.001,344.34Reproduction Expense3,108.953,108.9533,073.009.40%3,403.2126,560.84Maintenance-Computers173.76766.868,000.009.59%1,876.125,357.02Software Purchase9,507.369,507.3645,861.0020.73%4,536.2831,817.36Software Support11,941.4016,229.0151,934.0031.25%2,400.003,304.99Computers and Equipment2,978.752,978.7511,850.0025.14%0.0018,977.34Insurance Expense1,636.223,293.0717,262.0019.08%0.00118,977.34Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,606.3921,225.0016.99%0.0017,618.61Miscellaneous Expense5,554.928,713.29119,205.007.31%(470.31)110,962.02MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.17%0.00<	•						•
Storage Rental & Equipment Lease         209.70         417.30         3,460.00         12.06%         2,042.70         1,000.00           Office Supplies         2,895.94         4,557.35         36,000.00         12.66%         3,352.41         28,090.24           Postage/Mail Delivery         819.16         1,243.36         9,000.00         13.82%         3,353.37         4,403.27           Subscriptions & Books         0.00         155.66         1,500.00         10.38%         0.00         1,344.34           Reproduction Expense         3,108.95         3,108.95         3,073.00         9.40%         3,403.21         26,560.84           Maintenance-Computers         173.76         766.86         8,000.00         9.59%         1,876.12         5,357.02           Software Purchase         9,507.36         9,507.36         45,861.00         20.73%         4,536.28         31,817.36           Software Support         11,941.40         16,229.01         51,934.00         31.25%         2,400.00         8,871.25           Automotive Expense         1,636.22         3,293.07         17,262.00         19.08%         0.00         113,968.93           Toll Road Charges         77.43         134.89         1,0000.00         13.49%         0.00<			•				
Office Supplies         2,895.94         4,557.35         36,000.00         12.66%         3,352.41         28,090.24           Postage/Mail Delivery         819.16         1,243.36         9,000.00         13.82%         3,353.37         4,403.27           Subscriptions & Books         0.00         155.66         1,500.00         10.38%         0.00         1,344.34           Reproduction Expense         3,108.95         3,073.00         9.40%         3,403.21         26,560.84           Maintenance-Computers         173.76         766.86         8,000.00         9.59%         1,876.12         5,557.02           Software Purchase         9,507.36         9,507.36         45,861.00         20.73%         4,536.28         31,817.36           Software Support         11,941.40         16,229.01         51,934.00         31.25%         2,400.00         33,304.99           Computers and Equipment         2,978.75         2,978.75         11,850.00         25.14%         0.00         8,871.25           Automotive Expense         1,636.22         3,293.07         17,262.00         19.08%         0.00         18,997.34           Utilities - Telephone         1,902.34         3,279.58         20,178.00         16.25%         1,260.97         15,6	0						
Postage/Mail Delivery819.161,243.369,000.0013.82%3,353.374,403.27Subscriptions & Books0.00155.661,500.0010.38%0.001,344.34Reproduction Expense3,108.9533,073.009.40%3,403.2126,560.84Maintenance-Computers173.76766.868,000.009.59%1,876.125,357.02Software Purchase9,507.369,507.3645,861.0020.73%4,536.2831,817.36Software Support11,941.4016,229.0151,934.0031.25%2,400.0033,304.99Computers and Equipment2,978.752,978.7511,850.0025.14%0.008,871.25Automotive Expense1,636.223293.0717,262.0019.08%0.00118,977.34Toll Road Charges77.43134.891,000.0013.49%0.00118,977.34Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,606.3921,225.0016.99%0.0017,618.61Miscellaneous Expense5,554.928,713.29119,205.007.31%(470.31)110,962.02MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.71%0.00184,971.30Depreciation Expense0.000.00304,000.000.00%304,000.0060,7739.19Election Expense0.000.00531,827.000.00%37,622.00494,205.00Capital Acquisit							•
Subscriptions & Books0.00155.661,500.0010.38%0.001,344.34Reproduction Expense3,108.953,108.9533,073.009.40%3,403.2126,560.84Maintenance-Computers173.76766.868,000.009.59%1,876.125,357.02Software Purchase9,507.369,507.3645,861.0020.73%4,536.2831,817.36Software Support11,941.4016,229.0151,934.0031.25%2,400.0033,04.99Computers and Equipment2,978.752,978.7511,850.0025.14%0.008,871.25Automotive Expense1,636.223,293.0717,262.0019.08%0.0013,968.93Toll Road Charges77.43134.891,000.0013.49%0.00865.11Insurance Expense9,087.3819,522.66138,500.0014.10%0.00118,977.34Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,606.3921,225.0016.99%0.0017,618.61MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.71%0.00184,971.30Depreciation Expense0.000.00304,000.000.00%0.00(5,644.67)Other Expense0.000.00304,000.000.00%37,622.00494,205.00Gapital Acquisition0.000.00255,500.000.00%13,514.43241,985.57TOTAL EXPENSES		•					•
Maintenance-Computers173.76766.868,000.009.59%1,876.125,357.02Software Purchase9,507.369,507.3645,861.0020.73%4,536.2831,817.36Software Support11,941.4016,229.0151,934.0031.25%2,400.0033,304.99Computers and Equipment2,978.752,978.7511,850.0025.14%0.008,871.25Automotive Expense1,636.223,293.0717,262.0019.08%0.0013,968.93Toll Road Charges77.43134.891,000.0013.49%0.00865.11Insurance Expense9,087.3819,522.66138,500.0014.10%0.00118,977.34Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,606.3921,225.0016.99%0.0017,618.61Miscellaneous Expense5,554.928,713.29119,205.007.31%(470.31)110,962.02MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.71%0.00184,971.30Depreciation Expense2,822.335,644.670.000.00%0.00(5,644.67)Other Expense0.000.00304,000.000.00%37,622.00494,205.00Capital Acquisition0.000.00255,500.000.00%37,622.00494,205.00Capital Acquisition0.000.00255,500.000.00%13,514.43241,985.57TOTAL EXPENSE		0.00	155.66	1,500.00	10.38%		1,344.34
Software Purchase9,507.369,507.3645,861.0020.73%4,536.2831,817.36Software Support11,941.4016,229.0151,934.0031.25%2,400.0033,304.99Computers and Equipment2,978.752,978.7511,850.0025.14%0.008,871.25Automotive Expense1,636.223,293.0717,262.0019.08%0.0013,968.93Toll Road Charges77.43134.891,000.0013.49%0.00865.11Insurance Expense9,087.3819,522.66138,500.0014.10%0.00118,977.34Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,606.3921,225.0016.99%0.0017,618.61Miscellaneous Expense5,554.928,713.29119,205.007.31%(470.31)110,962.02MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.71%0.00184,971.30Depreciation Expense2,822.335,644.670.000.00%0.00(5,644.67)Other Expenses0.000.00304,000.000.00%304,000.00304,000.00Building Expense0.000.00531,827.000.00%37,622.00494,205.00Capital Acquisition0.000.00255,500.000.00%13,514.43241,985.57TOTAL EXPENSES639,897.901,479,538.269,871,075.0014.99%1,526,803.146,864,733.61 <td>Reproduction Expense</td> <td>3,108.95</td> <td>3,108.95</td> <td>33,073.00</td> <td>9.40%</td> <td>3,403.21</td> <td>26,560.84</td>	Reproduction Expense	3,108.95	3,108.95	33,073.00	9.40%	3,403.21	26,560.84
Software Support11,941.4016,229.0151,934.0031.25%2,400.0033,304.99Computers and Equipment2,978.752,978.7511,850.0025.14%0.008,871.25Automotive Expense1,636.223,293.0717,262.0019.08%0.0013,968.93Toll Road Charges77.43134.891,000.0013.49%0.00865.11Insurance Expense9,087.3819,522.66138,500.0014.10%0.00118,977.34Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,606.3921,225.0016.99%0.0017,618.61Miscellaneous Expense5,554.928,713.29119,205.007.31%(470.31)110,962.02MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.71%0.00184,971.30Depreciation Expense2,822.335,644.670.000.00%0.00(5,644.67)Other Expenses0.000.00304,000.0014.74%153,876.72607,739.19Election Expense0.000.00304,000.000.00%37,622.00494,205.00Gaj,897.901,479,538.269,871,075.0014.99%1,526,803.146,864,733.61TOTAL EXPENSES639,897.901,479,538.269,871,075.0014.99%1,526,803.146,864,733.61	Maintenance-Computers	173.76	766.86	8,000.00	9.59%	1,876.12	5,357.02
Computers and Equipment2,978.752,978.7511,850.0025.14%0.008,871.25Automotive Expense1,636.223,293.0717,262.0019.08%0.0013,968.93Toll Road Charges77.43134.891,000.0013.49%0.00865.11Insurance Expense9,087.3819,522.66138,500.0014.10%0.00118,977.34Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,606.3921,225.0016.99%0.0017,618.61Miscellaneous Expense5,554.928,713.29119,205.007.31%(470.31)110,962.02MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.71%0.00184,971.30Depreciation Expense2,822.335,644.670.000.00%0.00(5,644.67)Other Expense0.000.00304,000.000.00%304,000.00304,000.00Building Expense0.000.00531,827.000.00%37,622.00494,205.00Capital Acquisition0.000.00255,500.000.00%13,514.43241,985.57TOTAL EXPENSES639,897.901,479,538.269,871,075.0014.99%1,526,803.146,864,733.61	Software Purchase	9,507.36	9,507.36	45,861.00	20.73%		31,817.36
Automotive Expense1,636.223,293.0717,262.0019.08%0.0013,968.93Toll Road Charges77.43134.891,000.0013.49%0.00865.11Insurance Expense9,087.3819,522.66138,500.0014.10%0.00118,977.34Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,606.3921,225.0016.99%0.0017,618.61Miscellaneous Expense5,554.928,713.29119,205.007.31%(470.31)110,962.02MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.71%0.00184,971.30Depreciation Expense2,822.335,644.670.000.00%0.00(5,644.67)Other Expense0.000.00304,000.000.00%304,000.00304,000.00Building Expense0.000.00255,500.000.00%13,514.43241,985.57TOTAL EXPENSES639,897.901,479,538.269,871,075.0014.99%1,526,803.146,864,733.61	Software Support	11,941.40	16,229.01	51,934.00	31.25%	2,400.00	33,304.99
Toll Road Charges77.43134.891,000.0013.49%0.00865.11Insurance Expense9,087.3819,522.66138,500.0014.10%0.00118,977.34Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,606.3921,225.0016.99%0.0017,618.61Miscellaneous Expense5,554.928,713.29119,205.007.31%(470.31)110,962.02MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.71%0.00184,971.30Depreciation Expense2,822.335,644.670.000.00%0.00(5,644.67)Other Expenses79,562.94131,696.09893,312.0014.74%153,876.72607,739.19Election Expense0.000.00304,000.000.00%304,000.00304,000.00Building Expense0.000.00255,500.000.00%13,514.43241,985.57TOTAL EXPENSES639,897.901,479,538.269,871,075.0014.99%1,526,803.146,864,733.61		2,978.75	2,978.75		25.14%		8,871.25
Insurance Expense9,087.3819,522.66138,500.0014.10%0.00118,977.34Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,606.3921,225.0016.99%0.0017,618.61Miscellaneous Expense5,554.928,713.29119,205.007.31%(470.31)110,962.02MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.71%0.00184,971.30Depreciation Expense2,822.335,644.670.000.00%0.00(5,644.67)Other Expenses79,562.94131,696.09893,312.0014.74%153,876.72607,739.19Election Expense0.000.00304,000.000.00%304,000.00304,000.00Building Expense0.000.00255,500.000.00%13,514.43241,985.57TOTAL EXPENSES639,897.901,479,538.269,871,075.0014.99%1,526,803.146,864,733.61	•				19.08%		
Utilities - Telephone1,902.343,279.5820,178.0016.25%1,260.9715,637.45Bank Fees1,861.993,606.3921,225.0016.99%0.0017,618.61Miscellaneous Expense5,554.928,713.29119,205.007.31%(470.31)110,962.02MWDOC's Contrb. to WEROC15,948.3331,896.70216,868.0014.71%0.00184,971.30Depreciation Expense2,822.335,644.670.000.00%0.00(5,644.67)Other Expenses79,562.94131,696.09893,312.0014.74%153,876.72607,739.19Election Expense0.000.00304,000.000.00%304,000.00304,000.00Building Expense0.000.00255,500.000.00%13,514.43241,985.57TOTAL EXPENSES639,897.901,479,538.269,871,075.0014.99%1,526,803.146,864,733.61	-						
Bank Fees         1,861.99         3,606.39         21,225.00         16.99%         0.00         17,618.61           Miscellaneous Expense         5,554.92         8,713.29         119,205.00         7.31%         (470.31)         110,962.02           MWDOC's Contrb. to WEROC         15,948.33         31,896.70         216,868.00         14.71%         0.00         184,971.30           Depreciation Expense         2,822.33         5,644.67         0.00         0.00%         0.00         (5,644.67)           Other Expenses         79,562.94         131,696.09         893,312.00         14.74%         153,876.72         607,739.19           Election Expense         0.00         0.00         304,000.00         0.00%         304,000.00           Building Expense         0.00         0.00         255,500.00         0.00%         13,514.43         241,985.57           TOTAL EXPENSES         639,897.90         1,479,538.26         9,871,075.00         14.99%         1,526,803.14         6,864,733.61							
Miscellaneous Expense         5,554.92         8,713.29         119,205.00         7.31%         (470.31)         110,962.02           MWDOC's Contrb. to WEROC         15,948.33         31,896.70         216,868.00         14.71%         0.00         184,971.30           Depreciation Expense         2,822.33         5,644.67         0.00         0.00%         0.00         (5,644.67)           Other Expenses         79,562.94         131,696.09         893,312.00         14.74%         153,876.72         607,739.19           Election Expense         0.00         0.00         304,000.00         0.00%         0.00         304,000.00           Building Expense         0.00         0.00         255,500.00         0.00%         13,514.43         241,985.57           TOTAL EXPENSES         639,897.90         1,479,538.26         9,871,075.00         14.99%         1,526,803.14         6,864,733.61	•						
MWDOC's Contrb. to WEROC         15,948.33         31,896.70         216,868.00         14.71%         0.00         184,971.30           Depreciation Expense         2,822.33         5,644.67         0.00         0.00%         0.00         (5,644.67)           Other Expenses         79,562.94         131,696.09         893,312.00         14.74%         153,876.72         607,739.19           Election Expense         0.00         0.00         304,000.00         0.00%         304,000.00           Building Expense         0.00         0.00         255,500.00         0.00%         13,514.43         241,985.57           TOTAL EXPENSES         639,897.90         1,479,538.26         9,871,075.00         14.99%         1,526,803.14         6,864,733.61							
Depreciation Expense         2,822.33         5,644.67         0.00         0.00%         0.00         (5,644.67)           Other Expenses         79,562.94         131,696.09         893,312.00         14.74%         153,876.72         607,739.19           Election Expense         0.00         0.00         304,000.00         0.00%         0.00         304,000.00           Building Expense         0.00         0.00         531,827.00         0.00%         37,622.00         494,205.00           Capital Acquisition         0.00         0.00         255,500.00         0.00%         13,514.43         241,985.57           TOTAL EXPENSES         639,897.90         1,479,538.26         9,871,075.00         14.99%         1,526,803.14         6,864,733.61							
Other Expenses         79,562.94         131,696.09         893,312.00         14.74%         153,876.72         607,739.19           Election Expense         0.00         0.00         304,000.00         0.00%         0.00         304,000.00           Building Expense         0.00         0.00         531,827.00         0.00%         37,622.00         494,205.00           Capital Acquisition         0.00         0.00         255,500.00         0.00%         13,514.43         241,985.57           TOTAL EXPENSES         639,897.90         1,479,538.26         9,871,075.00         14.99%         1,526,803.14         6,864,733.61							
Election Expense0.000.00304,000.000.00%0.00304,000.00Building Expense0.000.00531,827.000.00%37,622.00494,205.00Capital Acquisition0.000.00255,500.000.00%13,514.43241,985.57TOTAL EXPENSES639,897.901,479,538.269,871,075.0014.99%1,526,803.146,864,733.61							
Building Expense         0.00         0.00         531,827.00         0.00%         37,622.00         494,205.00           Capital Acquisition         0.00         0.00         255,500.00         0.00%         13,514.43         241,985.57           TOTAL EXPENSES         639,897.90         1,479,538.26         9,871,075.00         14.99%         1,526,803.14         6,864,733.61							
Capital Acquisition         0.00         0.00         255,500.00         0.00%         13,514.43         241,985.57           TOTAL EXPENSES         639,897.90         1,479,538.26         9,871,075.00         14.99%         1,526,803.14         6,864,733.61							
TOTAL EXPENSES         639,897.90         1,479,538.26         9,871,075.00         14.99%         1,526,803.14         6,864,733.61							
						13,514.43	241,985.57
NET INCOME (LOSS)         492,382.70         7,884,885.55         0.00	TOTAL EXPENSES	639,897.90	1,479,538.26	9,871,075.00	14.99%	1,526,803.14	6,864,733.61
	NET INCOME (LOSS)	492,382.70	7,884,885.55	0.00			

## Municipal Water District of Orange County Revenues and Expenditures Budget Comparative Report Water Fund From July thru August 2018

	Month to Date	Year to Date	Annual Budget	% Used	Budget Remaining
WATER REVENUES					
Water Sales	20,402,829.20	40,174,733.30	188,976,940.00	21.26%	148,802,206.70
Readiness to Serve Charge	903,260.48	1,806,520.96	10,902,178.00	16.57%	9,095,657.04
Capacity Charge CCF	321,247.50	642,495.00	3,854,976.00	16.67%	3,212,481.00
SCP/SAC Pipeline Surcharge	34,743.44	69,749.93	365,000.00	19.11%	295,250.07
Interest	1,540.33	2,812.12	13,000.00	21.63%	10,187.88
TOTAL WATER REVENUES	21,663,620.95	42,696,311.31	204,112,094.00	20.92%	161,415,782.69
WATER PURCHASES					
Water Sales	20,402,829.20	40,174,733.30	188,976,940.00	21.26%	148,802,206.70
Readiness to Serve Charge	903,260.48	1,806,520.96	10,902,178.00	16.57%	9,095,657.04
Capacity Charge CCF	321,247.50	642,495.00	3,854,976.00	16.67%	3,212,481.00
SCP/SAC Pipeline Surcharge	34,743.44	69,749.93	365,000.00	19.11%	295,250.07
TOTAL WATER PURCHASES	21,662,080.62	42,693,499.19	204,099,094.00	20.92%	161,405,594.81
EXCESS OF REVENUE OVER EXPENDITURES	1,540.33	2,812.12	13,000.00		
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#### Municipal Water District of Orange County WUE Revenues and Expenditures (Actuals vs Budget) From July thru August 2018

ActualSpray To Drip ConversionRevenues838.54Expenses6,059.05Excess of Revenues over Expenditures(5,220.51)Member Agency Administered PassthruRevenues4,800.00Expenses4,800.00Excess of Revenues over Expenditures0.00ULFT Rebate Program2,738.50Excess of Revenues over Expenditures(2,738.50)HECW Rebate Program2,54Revenues2,54Expenses2,54Expenses2,54Expenses2,54Expenses34,906.43Excess of Revenues over Expenditures(34,903.89)CII Rebate ProgramRevenuesRevenues0.00Expenses45,430.00Excess of Revenues over Expenditures(45,430.00)Turf Removal ProgramRevenuesRevenues97,433.34Excess of Revenues over Expenditures(48,910.86)Comprehensive Landscape (CLWUE)RevenuesRevenues47,397.10Excess of Revenues over Expenditures(35,808.67)Large Landscape Survey Program342.84Revenues8,824.69Excess of Revenues over Expenditures(8,481.85)WSIP - Industrial Program0.00Revenues0.00Excess of Revenues over Expenditures0.00Kapenses0.00Revenues0.00Revenues0.00Revenues0.00Excess of Revenues over Expenditures0.00Revenues0.	Budget	% Used
Revenues838.54Expenses6,059.05Excess of Revenues over Expenditures(5,220.51)Member Agency Administered Passthru Revenues4,800.00Expenses4,800.00Excess of Revenues over Expenditures0.00ULFT Rebate Program Revenues0.00Excess of Revenues over Expenditures0.00Expenses2,738.50Excess of Revenues over Expenditures(2,738.50)HECW Rebate Program Revenues2.54Expenses34,906.43Excess of Revenues over Expenditures(34,903.89)CII Rebate Program Revenues0.00Expenses45,430.00Excess of Revenues over Expenditures0.00Expenses45,430.00Excess of Revenues over Expenditures(45,430.00)Turf Removal Program Revenues48,522.48Expenses97,433.34Excess of Revenues over Expenditures(48,910.86)Comprehensive Landscape (CLWUE) Revenues11,588.43Expenses47,397.10Excess of Revenues over Expenditures(35,808.67)Large Landscape Survey Program Revenues342.84Expenses8,824.69Excess of Revenues over Expenditures(8,481.85)WSIP - Industrial Program Revenues0.00		
Expenses6,059.05Excess of Revenues over Expenditures(5,220.51)Member Agency Administered Passthru Revenues4,800.00Expenses4,800.00Excess of Revenues over Expenditures0.00ULFT Rebate Program Revenues0.00Excess of Revenues over Expenditures2,738.50Excess of Revenues over Expenditures(2,738.50)HECW Rebate Program Revenues2.54Expenses34,906.43Excess of Revenues over Expenditures(34,903.89)CI Rebate Program Revenues0.00Expenses45,430.00Excess of Revenues over Expenditures(45,430.00)Turf Removal Program Revenues48,522.48Expenses97,433.34Excess of Revenues over Expenditures(48,910.86)Comprehensive Landscape (CLWUE) Revenues11,588.43Expenses47,397.10Excess of Revenues over Expenditures(35,808.67)Large Landscape Survey Program Revenues342.84Expenses8,824.69Excess of Revenues over Expenditures(34,81.85)WSIP - Industrial Program Revenues0.00		
Excess of Revenues over Expenditures(5,220.51)Member Agency Administered Passthru Revenues4,800.00Excess of Revenues over Expenditures4,800.00Excess of Revenues over Expenditures0.00ULFT Rebate Program Revenues0.00Excess of Revenues over Expenditures2,738.50Excess of Revenues over Expenditures(2,738.50)HECW Rebate Program Revenues2.54Expenses34,906.43Excess of Revenues over Expenditures(34,903.89)CII Rebate Program Revenues0.00Expenses45,430.00Excess of Revenues over Expenditures(45,430.00)Excess of Revenues over Expenditures(45,430.00)Excess of Revenues over Expenditures(48,522.48Expenses97,433.34Excess of Revenues over Expenditures(48,910.86)Comprehensive Landscape (CLWUE) Revenues47,397.10Excess of Revenues over Expenditures(35,808.67)Large Landscape Survey Program Revenues342.84Expenses342.84Expenses342.84Expenses342.84Expenses8,824.69Excess of Revenues over Expenditures(8,481.85)WSIP - Industrial Program Revenues0.00	128,540.00	0.65%
Member Agency Administered Passthru Revenues4,800.00Expenses4,800.00Excess of Revenues over Expenditures0.00ULFT Rebate Program Revenues2,738.50Excess of Revenues over Expenditures(2,738.50)HECW Rebate Program Revenues2.54Expenses24,906.43Excess of Revenues over Expenditures(34,903.89)CI Rebate Program Revenues0.00Expenses0.00Expenses0.00Expenses0.00Expenses0.00Expenses0.00Expenses0.00Expenses0.00Expenses0.00Expenses97,433.40Excess of Revenues over Expenditures(48,910.86)Comprehensive Landscape (CLWUE) Revenues11,588.43Expenses47,397.10Excess of Revenues over Expenditures342.84Expenses342.84Expenses342.84Expenses342.84Expenses342.84Expenses342.84Expenses342.84Expenses342.84Expenses342.84Expenses342.84Expenses8,824.69Excess of Revenues over Expenditures(8,481.85)WSIP - Industrial Program Revenues0.00	128,540.00	4.71%
Revenues4,800.00Expenses4,800.00Excess of Revenues over Expenditures0.00ULFT Rebate Program2,738.50Revenues2,738.50Excess of Revenues over Expenditures(2,738.50)HECW Rebate Program2,54Revenues2,54Expenses34,906.43Excess of Revenues over Expenditures(34,903.89)Cli Rebate Program0.00Revenues0.00Expenses45,430.00Excess of Revenues over Expenditures(45,430.00)Turf Removal Program48,522.48Revenues97,433.34Excess of Revenues over Expenditures(48,910.86)Comprehensive Landscape (CLWUE)RevenuesRevenues47,397.10Excess of Revenues over Expenditures(35,808.67)Large Landscape Survey Program342.84Revenues342.84Expenses8,824.69Excess of Revenues over Expenditures(8,481.85)WSIP - Industrial Program0.00Revenues0.00	0.00	
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Revenues11,588.43Expenses47,397.10Excess of Revenues over Expenditures(35,808.67)Large Landscape Survey Program824.84Revenues342.84Expenses8,824.69Excess of Revenues over Expenditures(8,481.85)WSIP - Industrial Program0.00	0.00	
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Large Landscape Survey ProgramRevenues342.84Expenses8,824.69Excess of Revenues over Expenditures(8,481.85)WSIP - Industrial Program0.00	<u>366,840.00</u> 0.00	12.92%
Revenues342.84Expenses8,824.69Excess of Revenues over Expenditures(8,481.85)WSIP - Industrial Program Revenues0.00		
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Revenues 0.00	0.00	13.7570
Revenues 0.00		
	36,755.00	0.00%
Expenses 0.00	36,755.00	0.00%
Excess of Revenues over Expenditures 0.00	0.00	
WUE Projects		
Revenues 66,094.83	2,972,135.00	2.22%
Expenses 247,589.11	2,972,135.00	8.33%
Excess of Revenues over Expenditures (181,494.28)	0.00	

WEROC			
Revenues	223,276.70	489,160.00	45.64%
Expenses	66,078.64	489,160.00	13.51%
Excess of Revenues over Expenditures	157,198.06	0.00	



Item No. 3

## ACTION ITEM October 17, 2018

## TO: Board of Directors

## FROM: Administration & Finance Committee

Robert Hunter, General Manager

Staff Contacts: Cathy Harris, Administrative Services Manager Katie Davanaugh, Sr. Executive Assistant

## SUBJECT: HEALTH SAVINGS ACCOUNT ELECTIONS FOR 2019

## STAFF RECOMMENDATION

It is recommended that the Board of Directors approve an increase to the District's annual Health Savings Account (HSA) contribution amounts to the Kaiser Consumer Driven Health Plan (CDHP). The Anthem PPO CDHP contribution amounts remain unchanged for 2019.

## **COMMITTEE RECOMMENDATION**

Committee recommends (to be determined at Committee meeting)

## DETAILED REPORT

## Background:

2019 will be the 4<sup>th</sup> year that the District has offered and participated in the PPO and Kaiser Consumer Driven Health Plans (CDHP).

To continue to encourage participation in these plans, JPIA has analyzed and formulated suggested contribution amounts to participant's Health Savings Account (HSA) to incentivize participation and increase cost savings to the District. The recommended contribution amounts for calendar year 2019 are listed in Table A.

During 2018, two employees participated in the PPO Consumer Driven Health Plan. The maximum number of employee participating in the plan since inception has been four. Enrollment in the CDHP is anticipated to remain unchanged in 2019. Savings to the District in 2018 will be approximately \$1,040.

The Board requested that this item be returned for review of annual contribution amounts and frequency of the distribution. JPIA recommends the District make the contribution

Budgeted (Y/N): Y	Budgeted amount: \$		Core <u>X</u>	Choice
Action item amount: 0		Line item:		
Fiscal Impact (explain if unbudgeted):				

amounts at the beginning of the plan year to encourage participation and to minimize exposure to the participant.

Table A						
Plan	2019 Recommended Annual HSA					
	Contributions by District					
	Employee only	Employee +1	Family			
Kaiser CDHP	\$1,500	\$3,000	\$3,000			
	(2018 = \$1,150)	(\$2018 = \$2,050)	(2018 = \$2,400)			
Anthem PPO CDHP	\$1,300	\$2,600	\$2,400			

Staff is recommending an increase to the District's annual Health Savings Contribution amounts to the Kaiser CDHP and that the Anthem PPO CDHP contribution amounts remain unchanged.



## TO: Administration & Finance Committee

FROM: Robert Hunter, General Manager

Staff Contacts: Cathy Harris, Administrative Services Manager & Katie Davanaugh, Sr. Executive Assistant

## SUBJECT: Health Insurance Rates for 2019

## STAFF RECOMMENDATION

Staff recommends the Administration & Finance Committee receive and file information.

## COMMITTEE RECOMMENDATION

Committee recommends (to be determined at Committee meeting)

#### DETAILED REPORT

Open enrollment for 2019 health benefits runs from October 22, 2018 through November 9, 2018. The health plan information will be provided to all eligible participants by October 19<sup>th.</sup>

Benefit Plan	Administrator	Carrier	% Rate Change		
Health Insurance	JPIA	Anthem Blue Cross - Classic PPO and Consumer Driven Health Plan	.89% increase		
"	"	Anthem Blue Cross - HMO	0%		
"	"	Kaiser and Kaiser Consumer Driven Health Plan	2.64%		
Vision	"	VSP	0		
Dental	SDRMA	Delta Dental	-1.17%		

Rate changes by benefit plan are listed below:

Budgeted (Y/N): Y	Budgeted amount: \$636,213		Core <u>X</u>	Choice			
Action item amount: 0		Line item:					
Fiscal Impact (explain if unbudgeted):							

Plan rates for the 2019 are shown below:

Plan	Total Monthly \$			Employee Monthly \$		District Monthly \$			
Active Employees	Single	2-Party	Family	Single	2-Party	Family	Single	2-Party	Family
Kaiser CDHP	444.83	879.78	1,240.79	0.00	175.96	248.16	444.83	703.82	992.63
Kaiser with chiro	623.16	1,236.43	1,745.45	17.83	247.29	349.09	605.33	989.14	1,396.
Anthem PPO (CDHP)	689.92	1,403.96	1,811.99	24.51	280.79	362.40	665.41	1,123.17	36 1,449. 59
HMO (CalCare)	758.68	1,507.46	2,021.80	31.39	301.49	404.36	727.30	1,205.97	1,617. 44
PPO (Classic)	859.93	1,752.48	2,262.51	41.51	350.50	452.50	818.42	1,401.98	1,810. 01
Dental	51.61	86.90	132.09	5.16	8.69	13.21	46.45	78.21	118.88
Vision (composite)	23.66	23.66	23.66	0.00	0.00	0.00	23.66	23.66	23.66
	Total Monthly \$		Retiree Monthly \$		District Monthly \$				
Retiree with Medicare	Single	2-Party		Single	2-Party	n/a	Single	2-Party	
PPO	548.24	1,113.51		35.32	222.70		512.92	890.81	
НМО	532.79	1,055.75		33.77	211.15		499.02	844.60	
Kaiser Sr. Advantage	195.05	380.21	n/a	0.00	76.04		195.05	304.17	n/a
Mixed Medicare, HMO		1,456.14			291.23		n/a	1,164.91	
Mixed Medicare, PPO		1,334.58			266.92		n/a	1,067.66	
Dental	51.61	86.90		5.16	17.38		46.45	69.52	
Vision (tiered)	14.76	23.46		0.00	4.69		14.76	18.77	

• The amount budgeted for FY 2018-19 for medical, dental and vision benefits is \$636,213. Based on the plan premium increases for 2019, the projected totals for 2018-19 will be \$621,025.

Municipal Water District of Orange County Obsolete, Nonfunctional Fixed Asset to be Written-off Date 6/30/18

0.00 Sold for \$500.00 0.00 Disposed of 0.00 Disposed of 0.00 0.00 0.00 0.00 0.00 Accumulated Depreciation Book Value 0.00 7,072.62 1,450.38 0.00 5,622.24 5,622.24 842.70 607.68 5.00 5.00 Life 607.68 0.00 7,072.62 1,450.38 0.00 5,622.24 5,622.24 Cost HON 4 DRW LEGAL FIREPROOF CAB 4 DRW FIREPROOF FILE CAB, BLACK Total Computer Equipment 8-4-8 Total Furniture & Fixtures Total WEROC Equipment ž PORTABLE GENERATOR Date Date 5 Asset Description **Total Equipment** 0 **Total Write-offs** er, General Manager accounting Mar 10/31/1983 CENTRAL OFFICE SUPPLY 4/25/1988 EOF STORES 6/30/1992 POWER SYSTEMS Robert J. 5 Group Acquisition Nbr Date Vendor Hilary ( Approval to wirte-off **Computer Equipment** Furniture & Fixtures 200 200 WEROC Equipment 6017 600 Equipment Asset Nbr 1038 1073

Item 5

Item No. 6



#### INFORMATION ITEM October 10, 2018

TO: Administration & Finance Committee (Directors Thomas, Dick, Finnegan)

#### FROM: Robert Hunter, General Manager

Staff Contact: Hilary Chumpitazi and Cathy Harris

# SUBJECT: CalPERS Annual Valuation Report as of June 30, 2017 and unfunded liability options

#### STAFF RECOMMENDATION

Staff recommends the Administration & Finance Committee: receive and file the CalPERS Annual Valuation Report

#### COMMITTEE RECOMMENDATION

Committee recommends (To be determined at Committee Meeting)

#### **DETAILED REPORT**

Attached for your information is the CalPERS Annual Valuation Report as of June 30, 2017. The report includes the following information:

- MWDOC's total PERS obligation for Classic Members effective July 1, 2019 will be 17.221% compared to July 1, 2018 was 16.409%
- The District's Classic Members contribution amount will be 10.221% for fiscal year 2019-20 with the employee contribution being 7%
- The District's contribution amount for PEPRA Members effective July 1, 2019, will be 6.985% compared to last year's rate of 6.842%
- MWDOC's current plan obligation as of June 30, 2017 for Classic is \$10,883,341, 80.1% funded and for PEPRA is \$345,872, 94.6% funded

Budgeted (Y/N):	Budgeted a	amount:	Core	Choice
Action item amount:		Line item:		
Fiscal Impact (explain if	unbudgete	d):		

Section 2 of the valuation is available online and can be emailed upon request.

MWDOC's unfunded liability for Classic Members (2%@55) as of June 30, 2017 is \$2,163,009. PEPRA Members (2%@62) unfunded liability is \$18,630.

In December 2017 the Board approved joining the Pension Rate Stabilization Program (PRSP) with PARS to prefund pension liability. It was also approved to contribute \$207,000 each year for ten years to fully fund MWDOC's pension liability. Staff made our first contribution in July 2018.

#### August 2018

#### Miscellaneous Plan of the Municipal Water District of Orange County (CalPERS ID: 6497938438) Annual Valuation Report as of June 30, 2017

Dear Employer,

As an attachment to this letter, you will find a copy of the June 30, 2017 actuarial valuation report of the pension plan.

Because this plan is in a risk pool, the following valuation report has been separated into two sections:

- Section 1 contains specific information for the plan including the development of the current and projected employer contributions, and
- Section 2 contains the Risk Pool Actuarial Valuation appropriate to the plan as of June 30, 2017.

Section 2 can be found on the CalPERS website at (www.calpers.ca.gov). From the home page, go to "*Forms & Publications*" and select "*View All*". In the search box, enter "*Risk Pool*" and from the results list download the Miscellaneous or Safety Risk Pool Actuarial Valuation Report as appropriate.

Your June 30, 2017 actuarial valuation report contains important actuarial information about your pension plan at CalPERS. Your assigned CalPERS staff actuary, whose signature appears in the Actuarial Certification section on page 1, is available to discuss the report with you after August 1, 2018.

The exhibit below displays the minimum employer contributions, before any cost sharing, for Fiscal Year 2019-20 along with estimates of the required contributions for Fiscal Year 2020-21. Member contributions other than cost sharing (whether paid by the employer or the employee) are in addition to the results shown below. **The employer contributions in this report do not reflect any cost sharing arrangements you may have with your employees**.

#### **Required Contribution**

Fiscal Year	Employer Normal Cost Rate	Employer Payment of Unfunded Liability
2019-20	10.221%	\$144,402
Projected Results		
2020-21	10.9%	\$169,000

The actual investment return for Fiscal Year 2017-18 was not known at the time this report was prepared. The projections above assume the investment return for that year would be 7.25 percent. *If the actual investment return for Fiscal Year 2017-18 differs from 7.25 percent, the actual contribution requirements for the projected years will differ from those shown above.* 

Moreover, the projected results for Fiscal Year 2020-21 assume that there are no future plan changes, no further changes in assumptions other than those recently approved, and no liability gains or losses. Such changes can have a significant impact on required contributions. Since they cannot be predicted in advance, the projected employer results shown above are estimates. The actual required employer contributions for Fiscal Year 2020-21 will be provided in next year's report.

For additional details regarding the assumptions and methods used for these projections please refer to the "Projected Employer Contributions" in the "Highlights and Executive Summary" section.

The "Risk Analysis" section of the valuation report also contains estimated employer contributions in future years under a variety of investment return scenarios.

#### **Changes since the Prior Year's Valuation**

At its December 2016 meeting, the CalPERS Board of Administration lowered the discount rate from 7.50 percent to 7.00 percent using a three-year phase-in beginning with the June 30, 2016 actuarial valuations. The minimum employer contributions for Fiscal Year 2019-20 determined in this valuation were calculated using a discount rate of 7.25 percent. The projected employer contributions on Page 5 are calculated under the assumption that the discount rate will be lowered to 7.00 percent next year as adopted by the Board.

On December 19, 2017, the CalPERS Board of Administration adopted new actuarial assumptions based on the recommendations in the December 2017 CalPERS Experience Study and Review of Actuarial Assumptions. This study reviewed the retirement rates, termination rates, mortality rates, rates of salary increases and inflation assumption for Public Agencies. These new assumptions are incorporated in your actuarial valuations and will impact the required contribution for FY 2019-20. In addition, the Board adopted a new asset portfolio as part of its Asset Liability Management. The new asset mix supports a 7.00 percent discount rate. The reduction of the inflation assumption will be implemented in two steps in conjunction with the decreases in the discount rate. For the June 30, 2017 valuation an inflation rate of 2.625 percent was used and a rate of 2.50 percent will be used in the following valuation.

The CalPERS Board of Administration has adopted a new amortization policy effective with the June 30, 2019 actuarial valuation. The new policy shortens the period over which actuarial gains and losses are amortized from 30 years to 20 years with the payments computed using a level dollar amount. In addition, the new policy removes the 5-year ramp-up and ramp-down on UAL bases attributable to assumption changes and non-investment gains/losses. The new policy removes the 5-year ramp-down on investment gains/losses. These changes will apply only to new UAL bases established on or after June 30, 2019.

For inactive employers the new amortization policy imposes a maximum amortization period of 15 years for all unfunded accrued liabilities effective June 30, 2017. Furthermore, the plan actuary has the ability to shorten the amortization period on any valuation date based on the life expectancy of plan members and projected cash flow needs to the plan. The impact of this has been reflected in the current valuation results.

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. This Policy has been temporarily suspended during the period over which the discount rate is being lowered. More details on the Risk Mitigation Policy can be found on our website.

Besides the above noted changes, there may also be changes specific to the plan such as contract amendments and funding changes.

Further descriptions of general changes are included in the "Highlights and Executive Summary" section and in Appendix A, "Statement of Actuarial Data, Methods and Assumptions" of the Section 2 report.

We understand that you might have a number of questions about these results. While we are very interested in discussing these results with your agency, in the interest of allowing us to give every public agency their results, we ask that you wait until after August 1 to contact us with actuarial related questions.

If you have other questions, please call our customer contact center at (888) CalPERS or (888-225-7377).

Sincerely,

1

SCOTT TERANDO Chief Actuary



# Actuarial Valuation as of June 30, 2017

# for the Miscellaneous Plan of the Municipal Water District of Orange County (CalPERS ID: 6497938438)

Required Contributions for Fiscal Year July 1, 2019 - June 30, 2020

#### **Table of Contents**

#### Section 1 – Plan Specific Information

Section 2 – Risk Pool Actuarial Valuation Information

# Section 1

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

# Plan Specific Information for the Miscellaneous Plan of the Municipal Water District of Orange County

(CalPERS ID: 6497938438) (Rate Plan: 4054)

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#### **Actuarial Certification**

Section 1 of this report is based on the member and financial data contained in our records as of June 30, 2017 which was provided by your agency and the benefit provisions under your contract with CalPERS. Section 2 of this report is based on the member and financial data as of June 30, 2017 provided by employers participating in the Miscellaneous Risk Pool to which the plan belongs and benefit provisions under the CalPERS contracts for those agencies.

As set forth in Section 2 of this report, the pool actuaries have certified that, in their opinion, the valuation of the risk pool containing your Miscellaneous Plan has been performed in accordance with generally accepted actuarial principles consistent with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for the risk pool as of the date of this valuation and as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

Having relied upon the information set forth in Section 2 of this report and based on the census and benefit provision information for the plan, it is my opinion as the plan actuary that Unfunded Accrued Liability amortization bases as of June 30, 2017 and employer contribution as of July 1, 2019, have been properly and accurately determined in accordance with the principles and standards stated above.

The undersigned is an actuary for CalPERS, a member of both the American Academy of Actuaries and Society of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

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KERRY J. WORGAN, MAAA, FSA, FCIA Supervising Pension Actuary, CalPERS Plan Actuary

## **Highlights and Executive Summary**

- Introduction
- Purpose of Section 1
- Required Employer Contributions
- Plan's Funded Status
- Projected Employer Contributions
- Changes Since the Prior Year's Valuation
- Subsequent Events

#### Introduction

This report presents the results of the June 30, 2017 actuarial valuation of the Miscellaneous Plan of the Municipal Water District of Orange County of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the required employer contributions for Fiscal Year 2019-20.

#### **Purpose of Section 1**

This Section 1 report for the Miscellaneous Plan of the Municipal Water District of Orange County of the California Public Employees' Retirement System (CalPERS) was prepared by the plan actuary in order to:

- Set forth the assets and accrued liabilities of this plan as of June 30, 2017;
- Determine the minimum required employer contribution for this plan for the fiscal year July 1, 2019 through June 30, 2020; and
- Provide actuarial information as of June 30, 2017 to the CalPERS Board of Administration and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to GASB Statement No. 68 for a Cost Sharing Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available from CalPERS and details for ordering are available on our website.

The measurements shown in this actuarial valuation may not be applicable for other purposes. The employer should contact their actuary before disseminating any portion of this report for any reason that is not explicitly described above.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; changes in actuarial policies; and changes in plan provisions or applicable law.

#### **California Actuarial Advisory Panel Recommendations**

This report includes all the basic disclosure elements as described in the *Model Disclosure Elements for Actuarial Valuation Reports* recommended in 2011 by the California Actuarial Advisory Panel (CAAP), with the exception of including the original base amounts of the various components of the unfunded liability in the Schedule of Amortization Bases shown on page 9.

Additionally, this report includes the following "Enhanced Risk Disclosures" also recommended by the CAAP in the Model Disclosure Elements document:

- A "Deterministic Stress Test," projecting future results under different investment income scenarios
- A "Sensitivity Analysis," showing the impact on current valuation results using alternative discount rates of 6.0 percent, 7.0 percent and 8.0 percent.

#### **Required Employer Contributions**

	Fiscal Year
Required Employer Contributions	2019-20
Employer Normal Cost Rate	10.221%
Plus, Either	
1) Monthly Employer Dollar UAL Payment	\$ 12,033.48
Or	
2) Annual Lump Sum Prepayment Option	\$ 139,436

The total minimum required employer contribution is the **sum** of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) **plus** the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly in dollars).

Only the UAL portion of the employer contribution can be prepaid (which must be received in full no later than July 31). Plan Normal Cost contributions will be made as part of the payroll reporting process. If there is contractual cost sharing or other change, this amount will change.

In accordance with Sections 20537 and 20572 of the Public Employees' Retirement Law, if a contracting agency fails to remit the required contributions when due, interest and penalties may apply.

		Fiscal Year 2018-19	Fiscal Year 2019-20
Development of Normal Cost as a Percentage of Payroll <sup>1</sup>			
Base Total Normal Cost for Formula		15.794%	16.586%
Surcharge for Class 1 Benefits <sup>2</sup>			
a) FAC 1		0.517%	0.541%
Phase out of Normal Cost Difference <sup>3</sup>		0.000%	 0.000%
Plan's Total Normal Cost		16.311%	17.127%
Formula's Expected Employee Contribution Rate		6.902%	 6.906%
Employer Normal Cost Rate		9.409%	10.221%
Projected Payroll for the Contribution Fiscal Year	\$	2,371,765	\$ 2,555,087
Estimated Employer Contributions Based on Projected Pay	roll		
Plan's Estimated Employer Normal Cost	\$	223,159	\$ 261,155
Plan's Payment on Amortization Bases <sup>4</sup>		112,790	144,402
% of Projected Payroll (illustrative only)		4.756%	5.652%
Estimated Total Employer Contribution	\$	335,949	\$ 405,557
% of Projected Payroll (illustrative only)		14.165%	15.873%

<sup>1</sup> The results shown for Fiscal Year 2018-19 reflect the prior year valuation and may not take into account any lump sum payment, side fund payoff, or rate adjustment made after June 30, 2017.

<sup>2</sup> Section 2 of this report contains a list of Class 1 benefits and corresponding surcharges for each benefit.

<sup>3</sup> The normal cost difference is phased out over a five-year period. The phase out of normal cost difference is 100 percent for the first year of pooling, and is incrementally reduced by 20 percent of the original normal cost difference for each subsequent year. This is non-zero only for plans that joined a pool within the past 5 years. Most plans joined a pool June 30, 2003, when risk pooling was implemented.

<sup>4</sup> See page 9 for a breakdown of the Amortization Bases.

#### **Plan's Funded Status**

	June 30, 2016	June 30, 2017
1. Present Value of Projected Benefits (PVB)	\$ 12,428,801	\$ 14,184,993
2. Entry Age Normal Accrued Liability (AL)	9,638,398	10,883,341
3. Plan's Market Value of Assets (MVA)	7,445,211	8,720,332
4. Unfunded Accrued Liability (UAL) [(2) - (3)]	2,193,187	2,163,009
5. Funded Ratio [(3) / (2)]	77.2%	80.1%

This measure of funded status is an assessment of the need for future employer contributions based on the selected actuarial cost method used to fund the plan. The UAL is the present value of future employer contributions for service that has already been earned and is in addition to future normal cost contributions for active members. For a measure of funded status that is appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities, please see "Hypothetical Termination Liability" in the "Risk Analysis" section.

#### **Projected Employer Contributions**

The table below shows projected employer contributions (before cost sharing) for the next six fiscal years. Projected results reflect the adopted changes to the discount rate described in Appendix A, "Statement of Actuarial Data, Methods and Assumptions" of the Section 2 report. The projections also assume that all actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur during the projection period.

	Required Contribution		Projected Futu Imes 7.25%	• •		
Fiscal Year	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
Normal Cost %	10.221%	10.9%	10.9%	10.9%	10.9%	10.9%
UAL Payment	\$144,402	\$169,000	\$199,000	\$223,000	\$236,000	\$251,000

Changes in the UAL due to actuarial gains or losses as well as changes in actuarial assumptions or methods are amortized using a 5-year ramp up. For more information, please see "Amortization of the Unfunded Actuarial Accrued Liability" under "Actuarial Methods" in Appendix A of Section 2. This method phases in the impact of unanticipated changes in UAL over a 5-year period and attempts to minimize employer cost volatility from year to year. As a result of this methodology, dramatic changes in the required employer contributions in any one year are less likely. However, required contributions can change gradually and significantly over the next five years. In years where there is a large increase in UAL the relatively small amortization payments during the ramp up period could result in a funded ratio that is projected to decrease initially while the contribution impact of the increase in the UAL is phased in.

Due to the adopted changes in the discount rate for next year's valuation in combination with the 5-year phase-in ramp, the increases in the required contributions are expected to continue for six years from Fiscal Year 2019-20 through Fiscal Year 2024-25.

For projected contributions under alternate investment return scenarios, please see the "Analysis of Future Investment Return Scenarios" in the "Risk Analysis" section.

## **Changes since the Prior Year's Valuation**

#### Benefits

None. This valuation generally reflects plan changes by amendments effective before the date of the report. Please refer to the "Plan's Major Benefit Options" and Appendix B of Section 2 for a summary of the plan provisions used in this valuation.

#### Actuarial Methods and Assumptions

At its December 2016 meeting, the CalPERS Board of Administration lowered the discount rate from 7.50 percent to 7.00 percent using a three-year phase-in beginning with the June 30, 2016 actuarial valuations. The minimum employer contributions for Fiscal Year 2019-20 determined in this valuation were calculated using a discount rate of 7.25 percent. The projected employer contributions on page 5 are calculated assuming that the discount rate will be lowered to 7.00 percent next year as adopted by the Board. The decision to reduce the discount rate was primarily based on reduced capital market assumptions provided by external investment consultants and CalPERS investment staff. The specific decision adopted by the Board reflected recommendations from CalPERS staff and additional input from employer and employee stakeholder groups. Based on the investment allocation adopted by the Board and capital market assumptions, the reduced discount rate assumption provides a more realistic assumption for the long-term investment return of the fund.

On December 19, 2017, the CalPERS Board of Administration adopted new actuarial assumptions based on the recommendations in the December 2017 CalPERS Experience Study and Review of Actuarial Assumptions. This study reviewed the retirement rates, termination rates, mortality rates, rates of salary increases and inflation assumption for Public Agencies. These new assumptions are incorporated in this actuarial valuation and will impact the required contribution for FY 2019-20. In addition, the Board adopted a new asset portfolio as part of its Asset Liability Management. The new asset mix supports a 7.00 percent discount rate. The reduction of the inflation assumption will be implemented in two steps in conjunction with the decreases in the discount rate. For the June 30, 2017 valuation an inflation rate of 2.625 percent will be used and a rate of 2.50 percent in the following valuation.

Notwithstanding the Board's decision to phase into a 7.0 percent discount rate, subsequent analysis of the expected investment return of CalPERS assets or changes to the investment allocation may result in a change to this three-year discount rate schedule.

#### **Subsequent Events**

The CalPERS Board of Administration has adopted a new amortization policy effective with the June 30, 2019 actuarial valuation. The new policy shortens the period over which actuarial gains and losses are amortized from 30 years to 20 years with the payments computed using a level dollar amount. In addition, the new policy removes the 5-year ramp-up and ramp-down on UAL bases attributable to assumption changes and non-investment gains/losses. The new policy removes the 5-year ramp-down on investment gains/losses. These changes will apply only to new UAL bases established on or after June 30, 2019.

For inactive employers the new amortization policy imposes a maximum amortization period of 15 years for all unfunded accrued liabilities effective June 30, 2017. Furthermore, the plan actuary has the ability to shorten the amortization period on any valuation date based on the life expectancy of plan members and projected cash flow needs to the plan. The impact of this has been reflected in the current valuation results.

The contribution requirements determined in this actuarial valuation report are based on demographic and financial information as of June 30, 2017. Changes in the value of assets subsequent to that date are not reflected. Investment returns below the assumed rate of return will increase the retired contribution, while investment returns above the assumed rate of return will decrease the retired contribution.

This actuarial valuation report reflects statutory changes, regulatory changes and CalPERS Board actions through January 2018. Any subsequent changes or actions are not reflected.

#### **Assets and Liabilities**

- Breakdown of Entry Age Normal Accrued Liability
- Allocation of Plan's Share of Pool's Experience/Assumption Change
- Development of Plan's Share of Pool's MVA
- Schedule of Plan's Amortization Bases
- Amortization Schedule and Alternatives
- Employer Contribution History
- Funding History

#### **Breakdown of Entry Age Normal Accrued Liability**

Active Members	\$ 5,571,891
Transferred Members	1,074,939
Terminated Members	962,062
Members and Beneficiaries Receiving Payments	<u>3,274,449</u>
Total	\$ 10,883,341

# Allocation of Plan's Share of Pool's Experience/Assumption Change

It is the policy of CalPERS to ensure equity within the risk pools by allocating the pool's experience gains/losses and assumption changes in a manner that treats each employer equitably and maintains benefit security for the members of the System while minimizing substantial variations in employer contributions. The Pool's experience gains/losses and impact of assumption/method changes is allocated to the plan as follows:

1.	Plan's Accrued Liability	\$ 10,883,341
2.	Projected UAL balance at 6/30/17	2,298,268
3.	Pool's Accrued Liability <sup>1</sup>	\$ 15,780,998,593
4.	Sum of Pool's Individual Plan UAL Balances at 6/30/17 <sup>1</sup>	3,912,002,885
5.	Pool's 2016/17 Investment & Asset (Gain)/Loss	(413,206,167)
6.	Pool's 2016/17 Other (Gain)/Loss	(21,126,605)
7.	Plan's Share of Pool's Asset (Gain)/Loss [(1) - (2)] / [(3) - (4)] * (5)	(298,880)
8.	Plan's Share of Pool's Other (Gain)/Loss [(1)] / [(3)] * (6)	(14,570)
9.	Plan's New (Gain)/Loss as of 6/30/2017 [(7) + (8)]	\$ (313,450)
10.	Increase in Pool's Accrued Liability due to Change in Assumptions <sup>1</sup>	258,379,047
11.	Plan's Share of Pool's Change in Assumptions [(1)] / [(3)] * (10)	\$ 178,191

<sup>1</sup> Does not include plans that transferred to Pool on the valuation date.

# Development of the Plan's Share of Pool's Market Value of Assets

12.	Plan's UAL [(2) + (9) + (11)]	\$ 2,163,009
13.	Plan's Share of Pool's MVA [(1) - (12)]	\$ 8,720,332

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There is a two-year lag between the valuation date and the start of the contribution fiscal year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2017.
- The employer contribution determined by the valuation is for the fiscal year beginning two years after the valuation date: Fiscal Year 2019-20.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their employer contribution well in advance of the start of the fiscal year. The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the payment on the UAL for the fiscal year and adjusting for interest. Additional discretionary payments are reflected in the Expected Payments column in the fiscal year they were made by the agency. Amounts for Fiscal 2019-20

		Ramp							Scheduled
	Date	Up/Down	Amortization	Balance	Payment		Payment		Payment
Reason for Base	Established	2019-20	Period	6/30/17	2017-18	_	2018-19		for 2019-20
SHARE OF PRE-2013 POOL UAL	06/30/13	No Ramp	18	\$563,960	\$42,634	\$560,695	\$43,384	\$556,416	\$44,563
ASSET (GAIN)/LOSS	06/30/13	100% →	26	\$942,859	\$38,072		\$51,528		\$66,172
NON-ASSET (GAIN)/LOSS	06/30/13	100% →	26	\$(9,064)	\$(366)		\$(495)		\$(636)
ASSET (GAIN)/LOSS	06/30/14	80% 7	27	\$(747,966)	\$(20,461)		\$(31,134)		\$(42,650)
NON-ASSET (GAIN)/LOSS	06/30/14	80% ~	27	\$792	\$22		\$33		\$45
ASSUMPTION CHANGE	06/30/14	80% 7	17	\$469,748	\$17,488		\$26,720		\$36,596
ASSET (GAIN)/LOSS	06/30/15	e0% >	28	\$446,274	\$6,284		\$12,740		\$19,635
NON-ASSET (GAIN)/LOSS	06/30/15	60% 7	28	\$(34,991)	\$(493)		(666)\$		\$(1,539)
ASSET (GAIN)/LOSS	06/30/16	40% 7	29	\$565,879	\$0		\$8,422		\$17,308
NON-ASSET (GAIN)/LOSS	06/30/16	40% 7	29	\$(66,750)	\$0		\$(993)		\$(2,042)
ASSUMPTION CHANGE	06/30/16	40% ~	19	\$167,527	\$(9,970)		\$3,585		\$7,367
ASSET (GAIN)/LOSS	06/30/17	20% ~	30	\$(298,880)	\$0		\$0		\$(4,765)
NON-ASSET (GAIN)/LOSS	06/30/17	20% ~	30	\$(14,570)	\$0		\$0		\$(232)
ASSUMPTION CHANGE	06/30/17	20% ~	20	\$178,191	\$(17,491)		\$(17,994)		\$4,580
TOTAL				\$2,163,009	\$55,719		\$94,797	\$2,327,954	\$144,402

The (gain)/loss bases are the plan's allocated share of the risk pool's (gain)/loss for the fiscal year as disclosed on the previous page. These (gain)/loss bases will be amortized according to Board policy over 30 years with a 5-year ramp-up. If the total Unfunded Liability is negative (i.e., plan has a surplus), the scheduled payment is \$0, because the minimum required contribution under PEPRA must be at least equal to the normal cost.

#### **Amortization Schedule and Alternatives**

The amortization schedule on the previous page shows the minimum contributions required according to CalPERS amortization policy. There has been considerable interest from many agencies in paying off these unfunded accrued liabilities sooner and the possible savings in doing so. As a result, we have provided alternate amortization schedules to help analyze the current amortization schedule and illustrate the advantages of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on: 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternate "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. Note that the payments under each alternate scenario increase by 2.875 percent for each year into the future. **The schedules do not attempt to reflect any experience after June 30, 2017 that may deviate from the actuarial assumptions. Therefore, future amortization payments displayed in the Current Amortization Schedule may not match projected amortization payments shown in connection with Projected Employer Contributions provided elsewhere in this report.** 

The Current Amortization Schedule typically contains individual bases that are both positive and negative. Positive bases result from plan changes, assumption changes or plan experience that result in increases to unfunded liability. Negative bases result from plan changes, assumption changes or plan experience that result in decreases to unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years such as:

- A positive total unfunded liability with a negative total payment,
- A negative total unfunded liability with a positive total payment, or
- Total payments that completely amortize the unfunded liability over a very short period of time

In any year where one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over a reasonable period.

The Current Amortization Schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS amortization policy.

# **Amortization Schedule and Alternatives**

				<u>Alternate</u>	<u>Schedules</u>	
	<u>Current Am</u> Sched		20 Year Am	ortization	15 Year Am	ortization
Date	Balance	 Payment	Balance	Payment	Balance	Payment
6/30/2019	2,327,956	144,402	2,327,956	173,989	2,327,956	211,683
6/30/2020	2,347,188	164,426	2,316,547	178,991	2,277,510	217,769
6/30/2021	2,347,077	187,071	2,299,130	184,137	2,217,105	224,030
6/30/2022	2,323,506	204,316	2,275,121	189,431	2,145,836	230,471
6/30/2023	2,280,368	209,723	2,243,889	194,878	2,062,730	237,097
6/30/2024	2,228,503	215,752	2,204,753	200,480	1,966,737	243,913
6/30/2025	2,166,633	221,955	2,156,977	206,244	1,856,724	250,926
6/30/2026	2,093,854	228,336	2,099,769	212,174	1,731,474	258,140
6/30/2027	2,009,190	234,901	2,032,272	218,274	1,589,672	265,561
6/30/2028	1,911,589	241,654	1,953,564	224,549	1,429,904	273,196
6/30/2029	1,799,918	248,602	1,862,651	231,005	1,250,646	281,051
6/30/2030	1,672,956	255,749	1,758,461	237,646	1,050,257	289,131
6/30/2031	1,529,388	263,102	1,639,839	244,478	826,972	297,443
6/30/2032	1,367,796	257,441	1,505,542	251,507	578,890	305,995
6/30/2033	1,200,352	251,237	1,354,229	258,738	303,966	314,792
6/30/2034	1,027,193	238,828	1,184,458	266,177		
6/30/2035	854,330	218,290	994,674	273,829		
6/30/2036	690,204	196,374	783,206	281,702		
6/30/2037	536,877	114,029	548,253	289,801		
6/30/2038	457,710	103,148	287,880	298,133		
6/30/2039	384,072	98,040				
6/30/2040	310,385	100,859				
6/30/2041	228,437	79,306				
6/30/2042	162,869	76,872				
6/30/2043	95,067	62,324				
6/30/2044	37,416	31,371				
6/30/2045	7,640	7,912				
6/30/2046						
6/30/2047						
6/30/2048						
Totals		4,656,017		4,616,163		3,901,199
Interest Paid		2,328,062		2,288,206		1,573,243
Estimated Sav	ings		=	39,855		754,818

\* This schedule does not reflect the impact of adopted discount rate changes that will become effective beyond June 30, 2017. For Projected Employer Contributions, please see page 5.

## **Employer Contribution History**

The table below provides a recent history of the required employer contributions for the plan, as determined by the annual actuarial valuation. It does not account for prepayments or benefit changes made during a fiscal year.

Fiscal Year	Employer Normal Cost	Unfunded Liability Payment (\$)
2016 - 17	8.880%	\$64,364
2017 - 18	8.921%	\$83,180
2018 - 19	9.409%	\$112,790
2019 - 20	10.221%	\$144,402

#### **Funding History**

The funding history below shows the plan's actuarial accrued liability, share of the pool's market value of assets, share of the pool's unfunded liability, funded ratio, and annual covered payroll.

Valuation Date	Accrued Liability (AL)	Share of Pool's Market Value of Assets (MVA)	Plan's Share of Pool's Unfunded Liability	Funded Ratio	Annual Covered Payroll
06/30/2011	\$ 5,636,322	\$ 4,612,177	\$ 1,024,145	81.8%	\$ 2,665,451
06/30/2012	6,273,252	4,841,500	1,431,752	77.2%	2,664,777
06/30/2013	7,189,485	5,842,865	1,346,620	81.3%	2,378,088
06/30/2014	8,295,329	7,150,851	1,144,478	86.2%	2,274,325
06/30/2015	8,587,815	7,077,429	1,510,386	82.4%	2,090,151
06/30/2016	9,638,398	7,445,211	2,193,187	77.2%	2,170,501
06/30/2017	10,883,341	8,720,332	2,163,009	80.1%	2,346,800

## **Risk Analysis**

- Analysis of Future Investment Return Scenarios
- Analysis of Discount Rate Sensitivity
- Volatility Ratios
- Hypothetical Termination Liability

#### **Analysis of Future Investment Return Scenarios**

Analysis was performed to determine the effects of various future investment returns on required employer contributions. The projections below provide a range of results based on five investment return scenarios assumed to occur during the next four fiscal years (2017-18, 2018-19, 2019-20 and 2020-21). The projections also assume that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur.

Each of the five investment return scenarios assumes a return of 7.25 percent for fiscal year 2017-18. For fiscal years 2018-19, 2019-20, and 2020-21 each scenario assumes an alternate fixed annual return. The fixed return assumptions for the five scenarios are 1.0 percent, 4.0 percent, 7.0 percent, 9.0 percent and 12.0 percent.

The alternate investment returns were chosen based on stochastic analysis of possible future investment returns over the four-year period ending June 30, 2021. Using the expected returns and volatility of the asset classes in which the funds are invested, we produced five thousand stochastic outcomes for this period based on the recently completed Asset Liability Management process. We then selected annual returns that approximate the 5<sup>th</sup>, 25<sup>th</sup>, 50<sup>th</sup>, 75<sup>th</sup>, and 95<sup>th</sup> percentiles for these outcomes. For example, of all the 4-year outcomes generated in the stochastic analysis, approximately 25 percent of them had an average annual return of 4.0 percent or less.

Required contributions outside of this range are also possible. In particular, whereas it is unlikely that investment returns will average less than 1.0 percent or greater than 12.0 percent over this four-year period, the possibility of a single investment return less than 1.0 percent or greater than 12.0 percent in any given year is much greater.

Assumed Annual Return From 2018-19 through 2020-21	Projected Employer Contributions					
	2020-21	2021-22	2022-23	2023-24		
1.0%						
Normal Cost	10.9%	10.9%	10.9%	10.9%		
UAL Contribution	\$169,000	\$207,000	\$250,000	\$291,000		
4.0%						
Normal Cost	10.9%	10.9%	10.9%	10.9%		
UAL Contribution	\$169,000	\$203,000	\$237,000	\$264,000		
7.0%						
Normal Cost	10.9%	10.9%	10.9%	10.9%		
UAL Contribution	\$169,000	\$199,000	\$223,000	\$236,000		
9.0%						
Normal Cost	10.9%	11.1%	11.3%	11.6%		
UAL Contribution	\$169,000	\$196,000	\$216,000	\$222,000		
12.0%						
Normal Cost	10.9%	11.1%	11.3%	11.6%		
UAL Contribution	\$169,000	\$192,000	\$202,000	\$193,000		

Given the temporary suspension of the Risk Mitigation Policy during the period over which the discount rate assumption is being phased down to 7.0 percent, the projections above were performed without reflection of any possible impact of this Policy for Fiscal Year 2020-21. In addition, the projections above do not reflect the recent changes to the new amortization policy effective with the June 30, 2019 valuation but the impact on the results above is expected to be minimal.

## **Analysis of Discount Rate Sensitivity**

Shown below are various valuation results as of June 30, 2017 assuming alternate discount rates. Results are shown using the current discount rate of 7.25 percent as well as alternate discount rates of 6.0 percent, 7.0 percent, and 8.0 percent. The alternate rate of 7.0 percent was selected since the Board has adopted this rate as the final discount rate at the end of the three-year phase-in of the reduction in this assumption. The rates of 6.0 percent and 8.0 percent were selected since they illustrate the impact of a 1 percent increase or decrease to the 7.0 percent assumption. This analysis shows the potential plan impacts if the PERF were to realize investment returns of 6.0 percent, 7.0 percent, or 8.0 percent over the long-term.

This type of analysis gives the reader a sense of the long-term risk to required contributions. For a measure of funded status that is appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities, please see "Hypothetical Termination Liability" at the end of this section.

Sensitivity Analysis							
As of June 30, 2017	Plan's Total Normal Cost	Accrued Liability	Unfunded Accrued Liability	Funded Status			
7.25% (current discount rate)	17.127%	\$10,883,341	\$2,163,009	80.1%			
6.0%	22.183%	\$12,803,375	\$4,083,043	68.1%			
7.0%	17.812%	\$11,187,770	\$2,467,438	77.9%			
8.0%	14.463%	\$9,863,060	\$1,142,728	88.4%			

## **Volatility Ratios**

Actuarial calculations are based on a number of assumptions about long-term demographic and economic behavior. Unless these assumptions (terminations, deaths, disabilities, retirements, salary growth, and investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

#### Asset Volatility Ratio (AVR)

Plans that have higher asset-to-payroll ratios experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with an asset-to-payroll ratio of 8 may experience twice the contribution volatility due to investment return volatility, than a plan with an asset-to-payroll ratio of 4. Shown below is the asset volatility ratio, a measure of the plan's current contribution volatility. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as the plan matures.

#### Liability Volatility Ratio (LVR)

Plans that have higher liability-to-payroll ratios experience more volatile employer contributions (as a percentage of payroll) due to investment return and changes in liability. For example, a plan with a liability-to-payroll ratio of 8 is expected to have twice the contribution volatility of a plan with a liability-to-payroll ratio of 4. The liability volatility ratio is also shown in the table below. It should be noted that this ratio indicates a longer-term potential for contribution volatility. The asset volatility ratio, described above, will tend to move closer to the liability volatility ratio as the plan matures. Since the liability volatility ratio is a long-term measure, it is shown below at the current discount rate (7.25 percent) as well as the discount rate the Board has adopted to determine the contribution requirement in the June 30, 2018 actuarial valuation (7.00 percent).

Rate Volatility	As of June 30, 2017
1. Market Value of Assets	\$ 8,720,332
2. Payroll	2,346,800
3. Asset Volatility Ratio (AVR) [(1) / (2)]	3.7
4. Accrued Liability	\$ 10,883,341
5. Liability Volatility Ratio (LVR) [(4) / (2)]	4.6
6. Accrued Liability (7.00% discount rate)	11,187,770
7. Projected Liability Volatility Ratio [(6) / (2)]	4.8

# **Hypothetical Termination Liability**

The hypothetical termination liability is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2017. The plan liability on a termination basis is calculated differently compared to the plan's ongoing funding liability. For the hypothetical termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed. This measure of funded status is not appropriate for assessing the need for future employer contributions in the case of an ongoing plan, that is, for an employer that continues to provide CalPERS retirement benefits to active employees.

A more conservative investment policy and asset allocation strategy was adopted by the CaIPERS Board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while funding risk is limited. However, this asset allocation has a lower expected rate of return than the PERF and consequently, a lower discount rate is assumed. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The effective termination discount rate will depend on actual market rates of return for risk-free securities on the date of termination. As market discount rates are variable, the table below shows a range for the hypothetical termination liability based on the lowest and highest interest rates observed during an approximate 2-year period centered around the valuation date.

Market Value of Assets (MVA)	Hypothetical Termination Liability <sup>1,2</sup> @ 1.75%	Funded Status	Unfunded Termination Liability @ 1.75%	Hypothetical Termination Liability <sup>1,2</sup> @ 3.00%	Funded Status	Unfunded Termination Liability @ 3.00%
\$8,720,332	\$22,645,249	38.5%	\$13,924,917	\$19,674,964	44.3%	\$10,954,632

<sup>1</sup> The hypothetical liabilities calculated above include a 5 percent mortality contingency load in accordance with Board policy. Other actuarial assumptions can be found in Appendix A.

<sup>2</sup> The current discount rate assumption used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the table are based on 20-year Treasury bonds, rounded to the nearest quarter percentage point, which is a good proxy for most plans. The 20-year Treasury yield was 2.61 percent on June 30, 2017, and was 2.83 percent on January 31, 2018.

In order to terminate the plan, you must first contact our Retirement Services Contract Unit to initiate a Resolution of Intent to terminate. The completed Resolution will allow the plan actuary to give you a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. CalPERS advises you to consult with the plan actuary before beginning this process.

# **Participant Data**

The table below shows a summary of your plan's member data upon which this valuation is based:

	J	une 30, 2016	June 30, 2017
Reported Payroll	\$	2,170,501	\$ 2,346,800
Projected Payroll for Contribution Purposes	\$	2,371,765	\$ 2,555,087
Number of Members			
Active		21	21
Transferred		13	12
Separated		14	17
Retired		8	9

# **List of Class 1 Benefit Provisions**

This plan has the additional Class 1 Benefit Provisions:

• One Year Final Compensation (FAC 1)

**Plan's Major Benefit Options** 

SECTION 1 – Plan Specific Information for the Miscellaneous Plan of the Municipal Water District of Orange County

# **Plan's Major Benefit Options**

Shown below is a summary of the major optional benefits for which your agency has contracted. A description of principal standard and optional plan provisions is in Appendix B within Section 2 of this report.

	Contract package	age	
Benefit Provision	Active Misc	Receiving Misc	
Benefit Formula Social Security Coverage Full/Modified	2.0% @ 55 No Full		
Employee Contribution Rate	7.00%		
Final Average Compensation Period	One Year		
Sick Leave Credit	Yes		
Non-Industrial Disability	Standard		
Industrial Disability	No		
Pre-Retirement Death Benefits Optional Settlement 2 1959 Survivor Benefit Level Special Alternate (firefighters)	Yes level 4 No No	No	
Post-Retirement Death Benefits Lump Sum Survivor Allowance (PRSA)	\$500 No	\$500 No	
COLA	2%	2%	

# Section 2

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

# Section 2 may be found on the CalPERS website (www.calpers.ca.gov) in the Forms and Publications section

#### August 2018

#### PEPRA Miscellaneous Plan of the Municipal Water District of Orange County (CalPERS ID: 6497938438) Annual Valuation Report as of June 30, 2017

Dear Employer,

As an attachment to this letter, you will find a copy of the June 30, 2017 actuarial valuation report of the pension plan.

Because this plan is in a risk pool, the following valuation report has been separated into two sections:

- Section 1 contains specific information for the plan including the development of the current and projected employer contributions, and
- Section 2 contains the Risk Pool Actuarial Valuation appropriate to the plan as of June 30, 2017.

Section 2 can be found on the CalPERS website at (www.calpers.ca.gov). From the home page, go to "*Forms & Publications*" and select "*View All*". In the search box, enter "*Risk Pool*" and from the results list download the Miscellaneous or Safety Risk Pool Actuarial Valuation Report as appropriate.

Your June 30, 2017 actuarial valuation report contains important actuarial information about your pension plan at CalPERS. Your assigned CalPERS staff actuary, whose signature appears in the Actuarial Certification section on page 1, is available to discuss the report with you after August 1, 2018.

The exhibit below displays the minimum employer contributions, before any cost sharing, for Fiscal Year 2019-20 along with estimates of the required contributions for Fiscal Year 2020-21. Member contributions other than cost sharing (whether paid by the employer or the employee) are in addition to the results shown below. **The employer contributions in this report do not reflect any cost sharing arrangements you may have with your employees**.

#### **Required Contribution**

Fiscal Year	Employer Normal Cost Rate	Employer Payment of Unfunded Liability
2019-20	6.985%	\$2,438
Projected Results		
2020-21	7.5%	\$3,100

The actual investment return for Fiscal Year 2017-18 was not known at the time this report was prepared. The projections above assume the investment return for that year would be 7.25 percent. *If the actual investment return for Fiscal Year 2017-18 differs from 7.25 percent, the actual contribution requirements for the projected years will differ from those shown above.* 

Moreover, the projected results for Fiscal Year 2020-21 assume that there are no future plan changes, no further changes in assumptions other than those recently approved, and no liability gains or losses. Such changes can have a significant impact on required contributions. Since they cannot be predicted in advance, the projected employer results shown above are estimates. The actual required employer contributions for Fiscal Year 2020-21 will be provided in next year's report.

For additional details regarding the assumptions and methods used for these projections please refer to the "Projected Employer Contributions" in the "Highlights and Executive Summary" section.

The "Risk Analysis" section of the valuation report also contains estimated employer contributions in future years under a variety of investment return scenarios.

#### **Changes since the Prior Year's Valuation**

At its December 2016 meeting, the CalPERS Board of Administration lowered the discount rate from 7.50 percent to 7.00 percent using a three-year phase-in beginning with the June 30, 2016 actuarial valuations. The minimum employer contributions for Fiscal Year 2019-20 determined in this valuation were calculated using a discount rate of 7.25 percent. The projected employer contributions on Page 5 are calculated under the assumption that the discount rate will be lowered to 7.00 percent next year as adopted by the Board.

On December 19, 2017, the CalPERS Board of Administration adopted new actuarial assumptions based on the recommendations in the December 2017 CalPERS Experience Study and Review of Actuarial Assumptions. This study reviewed the retirement rates, termination rates, mortality rates, rates of salary increases and inflation assumption for Public Agencies. These new assumptions are incorporated in your actuarial valuations and will impact the required contribution for FY 2019-20. In addition, the Board adopted a new asset portfolio as part of its Asset Liability Management. The new asset mix supports a 7.00 percent discount rate. The reduction of the inflation assumption will be implemented in two steps in conjunction with the decreases in the discount rate. For the June 30, 2017 valuation an inflation rate of 2.625 percent was used and a rate of 2.50 percent will be used in the following valuation.

The CalPERS Board of Administration has adopted a new amortization policy effective with the June 30, 2019 actuarial valuation. The new policy shortens the period over which actuarial gains and losses are amortized from 30 years to 20 years with the payments computed using a level dollar amount. In addition, the new policy removes the 5-year ramp-up and ramp-down on UAL bases attributable to assumption changes and non-investment gains/losses. The new policy removes the 5-year ramp-down on investment gains/losses. These changes will apply only to new UAL bases established on or after June 30, 2019.

For inactive employers the new amortization policy imposes a maximum amortization period of 15 years for all unfunded accrued liabilities effective June 30, 2017. Furthermore, the plan actuary has the ability to shorten the amortization period on any valuation date based on the life expectancy of plan members and projected cash flow needs to the plan. The impact of this has been reflected in the current valuation results.

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. This Policy has been temporarily suspended during the period over which the discount rate is being lowered. More details on the Risk Mitigation Policy can be found on our website.

Besides the above noted changes, there may also be changes specific to the plan such as contract amendments and funding changes.

Further descriptions of general changes are included in the "Highlights and Executive Summary" section and in Appendix A, "Statement of Actuarial Data, Methods and Assumptions" of the Section 2 report.

We understand that you might have a number of questions about these results. While we are very interested in discussing these results with your agency, in the interest of allowing us to give every public agency their results, we ask that you wait until after August 1 to contact us with actuarial related questions.

If you have other questions, please call our customer contact center at (888) CalPERS or (888-225-7377).

Sincerely,

1

SCOTT TERANDO Chief Actuary



# Actuarial Valuation as of June 30, 2017

# for the PEPRA Miscellaneous Plan of the Municipal Water District of Orange County (CalPERS ID: 6497938438)

Required Contributions for Fiscal Year July 1, 2019 - June 30, 2020

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#### Section 1 – Plan Specific Information

Section 2 – Risk Pool Actuarial Valuation Information

# Section 1

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

# Plan Specific Information for the PEPRA Miscellaneous Plan of the Municipal Water District of Orange County

(CalPERS ID: 6497938438) (Rate Plan: 26684)

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#### **Actuarial Certification**

Section 1 of this report is based on the member and financial data contained in our records as of June 30, 2017 which was provided by your agency and the benefit provisions under your contract with CalPERS. Section 2 of this report is based on the member and financial data as of June 30, 2017 provided by employers participating in the Miscellaneous Risk Pool to which the plan belongs and benefit provisions under the CalPERS contracts for those agencies.

As set forth in Section 2 of this report, the pool actuaries have certified that, in their opinion, the valuation of the risk pool containing your PEPRA Miscellaneous Plan has been performed in accordance with generally accepted actuarial principles consistent with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for the risk pool as of the date of this valuation and as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

Having relied upon the information set forth in Section 2 of this report and based on the census and benefit provision information for the plan, it is my opinion as the plan actuary that Unfunded Accrued Liability amortization bases as of June 30, 2017 and employer contribution as of July 1, 2019, have been properly and accurately determined in accordance with the principles and standards stated above.

The undersigned is an actuary for CalPERS, a member of both the American Academy of Actuaries and Society of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

fenn

KERRY J. WORGAN, MAAA, FSA, FCIA Supervising Pension Actuary, CalPERS Plan Actuary

# **Highlights and Executive Summary**

- Introduction
- Purpose of Section 1
- Required Employer Contributions
- Plan's Funded Status
- Projected Employer Contributions
- Changes Since the Prior Year's Valuation
- Subsequent Events

#### Introduction

This report presents the results of the June 30, 2017 actuarial valuation of the PEPRA Miscellaneous Plan of the Municipal Water District of Orange County of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the required employer contributions for Fiscal Year 2019-20.

#### **Purpose of Section 1**

This Section 1 report for the PEPRA Miscellaneous Plan of the Municipal Water District of Orange County of the California Public Employees' Retirement System (CalPERS) was prepared by the plan actuary in order to:

- Set forth the assets and accrued liabilities of this plan as of June 30, 2017;
- Determine the minimum required employer contribution for this plan for the fiscal year July 1, 2019 through June 30, 2020; and
- Provide actuarial information as of June 30, 2017 to the CalPERS Board of Administration and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to GASB Statement No. 68 for a Cost Sharing Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available from CalPERS and details for ordering are available on our website.

The measurements shown in this actuarial valuation may not be applicable for other purposes. The employer should contact their actuary before disseminating any portion of this report for any reason that is not explicitly described above.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; changes in actuarial policies; and changes in plan provisions or applicable law.

#### **California Actuarial Advisory Panel Recommendations**

This report includes all the basic disclosure elements as described in the *Model Disclosure Elements for Actuarial Valuation Reports* recommended in 2011 by the California Actuarial Advisory Panel (CAAP), with the exception of including the original base amounts of the various components of the unfunded liability in the Schedule of Amortization Bases shown on page 9.

Additionally, this report includes the following "Enhanced Risk Disclosures" also recommended by the CAAP in the Model Disclosure Elements document:

- A "Deterministic Stress Test," projecting future results under different investment income scenarios
- A "Sensitivity Analysis," showing the impact on current valuation results using alternative discount rates of 6.0 percent, 7.0 percent and 8.0 percent.

#### **Required Employer Contributions**

	Fiscal Year
Required Employer Contributions	2019-20
Employer Normal Cost Rate	6.985%
Plus, Either	
1) Monthly Employer Dollar UAL Payment	\$ 203.21
Or	
2) Annual Lump Sum Prepayment Option	\$ 2,355

The total minimum required employer contribution is the **sum** of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) **plus** the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly in dollars).

Only the UAL portion of the employer contribution can be prepaid (which must be received in full no later than July 31). Plan Normal Cost contributions will be made as part of the payroll reporting process. If there is contractual cost sharing or other change, this amount will change.

In accordance with Sections 20537 and 20572 of the Public Employees' Retirement Law, if a contracting agency fails to remit the required contributions when due, interest and penalties may apply.

		Fiscal Year 2018-19	Fiscal Year 2019-20
Development of Normal Cost as a Percentage of Payroll <sup>1</sup>			
Base Total Normal Cost for Formula		13.092%	13.735%
Surcharge for Class 1 Benefits <sup>2</sup>			
None		0.000%	0.000%
Phase out of Normal Cost Difference <sup>3</sup>		0.000%	 0.000%
Plan's Total Normal Cost		13.092%	13.735%
Plan's Employee Contribution Rate		6.250%	 6.750%
Employer Normal Cost Rate		6.842%	6.985%
Projected Payroll for the Contribution Fiscal Year	\$	657,463	\$ 962,275
Estimated Employer Contributions Based on Projected Pay	roll		
Plan's Estimated Employer Normal Cost	\$	44,984	\$ 67,215
Plan's Payment on Amortization Bases <sup>4</sup>		2,172	2,438
% of Projected Payroll (illustrative only)		0.330%	0.253%
Estimated Total Employer Contribution	\$	47,156	\$ 69,653
% of Projected Payroll (illustrative only)		7.172%	7.238%

<sup>1</sup> The results shown for Fiscal Year 2018-19 reflect the prior year valuation and may not take into account any lump sum payment, side fund payoff, or rate adjustment made after June 30, 2017.

<sup>2</sup> Section 2 of this report contains a list of Class 1 benefits and corresponding surcharges for each benefit.

<sup>3</sup> The normal cost difference is phased out over a five-year period. The phase out of normal cost difference is 100 percent for the first year of pooling, and is incrementally reduced by 20 percent of the original normal cost difference for each subsequent year. This is non-zero only for plans that joined a pool within the past 5 years. Most plans joined a pool June 30, 2003, when risk pooling was implemented.

<sup>4</sup> See page 9 for a breakdown of the Amortization Bases.

#### **Plan's Funded Status**

	June 30, 2016	June 30, 2017
1. Present Value of Projected Benefits (PVB)	\$ 973,669	\$ 1,523,715
2. Entry Age Normal Accrued Liability (AL)	204,458	345,872
3. Plan's Market Value of Assets (MVA)	183,981	327,242
4. Unfunded Accrued Liability (UAL) [(2) - (3)]	20,477	18,630
5. Funded Ratio [(3) / (2)]	90.0%	94.6%

This measure of funded status is an assessment of the need for future employer contributions based on the selected actuarial cost method used to fund the plan. The UAL is the present value of future employer contributions for service that has already been earned and is in addition to future normal cost contributions for active members. For a measure of funded status that is appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities, please see "Hypothetical Termination Liability" in the "Risk Analysis" section.

#### **Projected Employer Contributions**

The table below shows projected employer contributions (before cost sharing) for the next six fiscal years. Projected results reflect the adopted changes to the discount rate described in Appendix A, "Statement of Actuarial Data, Methods and Assumptions" of the Section 2 report. The projections also assume that all actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur during the projection period.

	Required Contribution		Projected Futu Imes 7.25%			
Fiscal Year	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
Normal Cost %	6.985%	7.5%	7.5%	7.5%	7.5%	7.5%
UAL Payment	\$2,438	\$3,100	\$3,900	\$4,700	\$5,600	\$6,300

Changes in the UAL due to actuarial gains or losses as well as changes in actuarial assumptions or methods are amortized using a 5-year ramp up. For more information, please see "Amortization of the Unfunded Actuarial Accrued Liability" under "Actuarial Methods" in Appendix A of Section 2. This method phases in the impact of unanticipated changes in UAL over a 5-year period and attempts to minimize employer cost volatility from year to year. As a result of this methodology, dramatic changes in the required employer contributions in any one year are less likely. However, required contributions can change gradually and significantly over the next five years. In years where there is a large increase in UAL the relatively small amortization payments during the ramp up period could result in a funded ratio that is projected to decrease initially while the contribution impact of the increase in the UAL is phased in.

Due to the adopted changes in the discount rate for next year's valuation in combination with the 5-year phase-in ramp, the increases in the required contributions are expected to continue for six years from Fiscal Year 2019-20 through Fiscal Year 2024-25.

For projected contributions under alternate investment return scenarios, please see the "Analysis of Future Investment Return Scenarios" in the "Risk Analysis" section.

# **Changes since the Prior Year's Valuation**

#### Benefits

None. This valuation generally reflects plan changes by amendments effective before the date of the report. Please refer to the "Plan's Major Benefit Options" and Appendix B of Section 2 for a summary of the plan provisions used in this valuation.

#### Actuarial Methods and Assumptions

At its December 2016 meeting, the CalPERS Board of Administration lowered the discount rate from 7.50 percent to 7.00 percent using a three-year phase-in beginning with the June 30, 2016 actuarial valuations. The minimum employer contributions for Fiscal Year 2019-20 determined in this valuation were calculated using a discount rate of 7.25 percent. The projected employer contributions on page 5 are calculated assuming that the discount rate will be lowered to 7.00 percent next year as adopted by the Board. The decision to reduce the discount rate was primarily based on reduced capital market assumptions provided by external investment consultants and CalPERS investment staff. The specific decision adopted by the Board reflected recommendations from CalPERS staff and additional input from employer and employee stakeholder groups. Based on the investment allocation adopted by the Board and capital market assumptions, the reduced discount rate assumption provides a more realistic assumption for the long-term investment return of the fund.

On December 19, 2017, the CalPERS Board of Administration adopted new actuarial assumptions based on the recommendations in the December 2017 CalPERS Experience Study and Review of Actuarial Assumptions. This study reviewed the retirement rates, termination rates, mortality rates, rates of salary increases and inflation assumption for Public Agencies. These new assumptions are incorporated in this actuarial valuation and will impact the required contribution for FY 2019-20. In addition, the Board adopted a new asset portfolio as part of its Asset Liability Management. The new asset mix supports a 7.00 percent discount rate. The reduction of the inflation assumption will be implemented in two steps in conjunction with the decreases in the discount rate. For the June 30, 2017 valuation an inflation rate of 2.625 percent will be used and a rate of 2.50 percent in the following valuation.

Notwithstanding the Board's decision to phase into a 7.0 percent discount rate, subsequent analysis of the expected investment return of CalPERS assets or changes to the investment allocation may result in a change to this three-year discount rate schedule.

#### **Subsequent Events**

The CalPERS Board of Administration has adopted a new amortization policy effective with the June 30, 2019 actuarial valuation. The new policy shortens the period over which actuarial gains and losses are amortized from 30 years to 20 years with the payments computed using a level dollar amount. In addition, the new policy removes the 5-year ramp-up and ramp-down on UAL bases attributable to assumption changes and non-investment gains/losses. The new policy removes the 5-year ramp-down on investment gains/losses. These changes will apply only to new UAL bases established on or after June 30, 2019.

For inactive employers the new amortization policy imposes a maximum amortization period of 15 years for all unfunded accrued liabilities effective June 30, 2017. Furthermore, the plan actuary has the ability to shorten the amortization period on any valuation date based on the life expectancy of plan members and projected cash flow needs to the plan. The impact of this has been reflected in the current valuation results.

The contribution requirements determined in this actuarial valuation report are based on demographic and financial information as of June 30, 2017. Changes in the value of assets subsequent to that date are not reflected. Investment returns below the assumed rate of return will increase the retired contribution, while investment returns above the assumed rate of return will decrease the retired contribution.

This actuarial valuation report reflects statutory changes, regulatory changes and CalPERS Board actions through January 2018. Any subsequent changes or actions are not reflected.

#### **Assets and Liabilities**

- Breakdown of Entry Age Normal Accrued Liability
- Allocation of Plan's Share of Pool's Experience/Assumption Change
- Development of Plan's Share of Pool's MVA
- Schedule of Plan's Amortization Bases
- Amortization Schedule and Alternatives
- Employer Contribution History
- Funding History

#### **Breakdown of Entry Age Normal Accrued Liability**

Active Members	\$ 333,292
Transferred Members	11,778
Terminated Members	802
Members and Beneficiaries Receiving Payments	<u>0</u>
Total	\$ 345,872

# Allocation of Plan's Share of Pool's Experience/Assumption Change

It is the policy of CalPERS to ensure equity within the risk pools by allocating the pool's experience gains/losses and assumption changes in a manner that treats each employer equitably and maintains benefit security for the members of the System while minimizing substantial variations in employer contributions. The Pool's experience gains/losses and impact of assumption/method changes is allocated to the plan as follows:

1.	Plan's Accrued Liability	\$ 345,872
2.	Projected UAL balance at 6/30/17	24,614
3.	Pool's Accrued Liability <sup>1</sup>	\$ 15,780,998,593
4.	Sum of Pool's Individual Plan UAL Balances at 6/30/17 <sup>1</sup>	3,912,002,885
5.	Pool's 2016/17 Investment & Asset (Gain)/Loss	(413,206,167)
6.	Pool's 2016/17 Other (Gain)/Loss	(21,126,605)
7.	Plan's Share of Pool's Asset (Gain)/Loss [(1) - (2)] / [(3) - (4)] * (5)	(11,184)
8.	Plan's Share of Pool's Other (Gain)/Loss [(1)] / [(3)] * (6)	(463)
9.	Plan's New (Gain)/Loss as of 6/30/2017 [(7) + (8)]	\$ (11,647)
10.	Increase in Pool's Accrued Liability due to Change in Assumptions <sup>1</sup>	258,379,047
11.	Plan's Share of Pool's Change in Assumptions [(1)] / [(3)] * (10)	\$ 5,663

<sup>1</sup> Does not include plans that transferred to Pool on the valuation date.

# Development of the Plan's Share of Pool's Market Value of Assets

12.	Plan's UAL [(2) + (9) + (11)]	\$ 18,630
13.	Plan's Share of Pool's MVA [(1) - (12)]	\$ 327,242

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There is a two-year lag between the valuation date and the start of the contribution fiscal year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2017.
- The employer contribution determined by the valuation is for the fiscal year beginning two years after the valuation date: Fiscal Year 2019-20.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their employer contribution well in advance of the start of the fiscal year. The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the payment on the UAL for the fiscal year and adjusting for interest. Additional discretionary payments are reflected in the Expected Payments column in the fiscal year they were made by the agency.

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		Ramp							Scheduled
	Date	Up/Down	Amortization	Balance	Payment	ance	Payment	Balance	Payment
Reason for Base Established	Established	2019-20	2019-20 Period	6/30/17	2017-18	0/18	2018-19	6/30/19	for 2019-20
FRESH START	06/30/16	No Ramp	19	\$24,614	\$(2,534)	\$29,02	3 \$2,172 \$	\$28,878	\$2,231
NON-ASSET (GAIN)/LOSS	06/30/17	20% 7	30	\$(463)	\$0	\$(49	\$0	\$(533)	\$(7)
ASSUMPTION CHANGE	06/30/17	20% 7	20		\$(6,587)	\$12,895	\$(6,777)	\$20,848	\$393
ASSET (GAIN)/LOSS 06/30/17 20% 7 30	06/30/17	20% >	30	\$(11,184)		\$(11,995)		\$(12,865)	\$(178)
TOTAL					\$(9,121)	\$29,426	\$(4,605)	\$36,328	\$2,439

The (gain)/loss bases are the plan's allocated share of the risk pool's (gain)/loss for the fiscal year as disclosed on the previous page. These (gain)/loss bases will be amortized according to Board policy over 30 years with a 5-year ramp-up.

If the total Unfunded Liability is negative (i.e., plan has a surplus), the scheduled payment is \$0, because the minimum required contribution under PEPRA must be at least equal to the normal cost.

#### **Amortization Schedule and Alternatives**

The amortization schedule on the previous page shows the minimum contributions required according to CalPERS amortization policy. There has been considerable interest from many agencies in paying off these unfunded accrued liabilities sooner and the possible savings in doing so. As a result, we have provided alternate amortization schedules to help analyze the current amortization schedule and illustrate the advantages of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on: 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternate "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. Note that the payments under each alternate scenario increase by 2.875 percent for each year into the future. **The schedules do not attempt to reflect any experience after June 30, 2017 that may deviate from the actuarial assumptions. Therefore, future amortization payments displayed in the Current Amortization Schedule may not match projected amortization payments shown in connection with Projected Employer Contributions provided elsewhere in this report.** 

The Current Amortization Schedule typically contains individual bases that are both positive and negative. Positive bases result from plan changes, assumption changes or plan experience that result in increases to unfunded liability. Negative bases result from plan changes, assumption changes or plan experience that result in decreases to unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years such as:

- A positive total unfunded liability with a negative total payment,
- A negative total unfunded liability with a positive total payment, or
- Total payments that completely amortize the unfunded liability over a very short period of time

In any year where one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over a reasonable period.

The Current Amortization Schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS amortization policy.

Amortization Schedule and Alternatives	Amortization	Schedule	and Alternatives
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				Alternate	<u>Schedules</u>		
	<u>Current Am</u> <u>Scheo</u>		15 Year Am	ortization	10 Year Amortization		
Date	Balance	 Payment	Balance	Payment	Balance	Payment	
6/30/2019	36,328	2,438	36,328	3,303	36,328	4,505	
6/30/2020	36,437	2,722	35,541	3,398	34,296	4,635	
6/30/2021	36,260	3,019	34,599	3,496	31,983	4,768	
6/30/2022	35,762	3,332	33,486	3,597	29,363	4,905	
6/30/2023	34,904	3,660	32,189	3,700	26,412	5,046	
6/30/2024	33,645	3,765	30,691	3,806	23,101	5,191	
6/30/2025	32,185	3,873	28,975	3,916	19,400	5,341	
6/30/2026	30,508	3,984	27,020	4,028	15,275	5,494	
6/30/2027	28,594	4,099	24,807	4,144	10,693	5,652	
6/30/2028	26,422	4,217	22,314	4,263	5,615	5,815	
6/30/2029	23,970	4,338	19,517	4,386			
6/30/2030	21,216	4,463	16,390	4,512			
6/30/2031	18,132	4,591	12,905	4,642			
6/30/2032	14,692	4,723	9,034	4,775			
6/30/2033	10,867	4,859	4,743	4,912			
6/30/2034	6,623	4,998					
6/30/2035	1,926	1,995					
6/30/2036							
6/30/2037							
6/30/2038							
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6/30/2044							
6/30/2045							
6/30/2046							
6/30/2047							
6/30/2048							
Totals		65,075		60,879		51,353	
Interest Paid		28,746		24,551		15,025	
Estimated Savin	gs		-	4,196		13,722	

\* This schedule does not reflect the impact of adopted discount rate changes that will become effective beyond June 30, 2017. For Projected Employer Contributions, please see page 5.

# **Employer Contribution History**

The table below provides a recent history of the required employer contributions for the plan, as determined by the annual actuarial valuation. It does not account for prepayments or benefit changes made during a fiscal year.

Fiscal Year	Employer Normal Cost	Unfunded Liability Payment (\$)
2016 - 17	6.555%	\$149
2017 - 18	6.533%	\$230
2018 - 19	6.842%	\$2,172
2019 - 20	6.985%	\$2,438

#### **Funding History**

The funding history below shows the plan's actuarial accrued liability, share of the pool's market value of assets, share of the pool's unfunded liability, funded ratio, and annual covered payroll.

Valuation Date	Accrued Liability (AL)	M	hare of Pool's arket Value of Assets (MVA)	Plan's Share of Pool's Unfunded Liability	Funded Ratio	Annual Covered Payroll
06/30/2014	\$ 32,950	\$	34,415	\$ (1,465)	104.5%	\$ 219,432
06/30/2015	95,833		91,620	4,213	95.6%	447,122
06/30/2016	204,458		183,981	20,477	90.0%	601,671
06/30/2017	345,872		327,242	18,630	94.6%	883,832

# **Risk Analysis**

- Analysis of Future Investment Return Scenarios
- Analysis of Discount Rate Sensitivity
- Volatility Ratios
- Hypothetical Termination Liability

#### **Analysis of Future Investment Return Scenarios**

Analysis was performed to determine the effects of various future investment returns on required employer contributions. The projections below provide a range of results based on five investment return scenarios assumed to occur during the next four fiscal years (2017-18, 2018-19, 2019-20 and 2020-21). The projections also assume that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur.

Each of the five investment return scenarios assumes a return of 7.25 percent for fiscal year 2017-18. For fiscal years 2018-19, 2019-20, and 2020-21 each scenario assumes an alternate fixed annual return. The fixed return assumptions for the five scenarios are 1.0 percent, 4.0 percent, 7.0 percent, 9.0 percent and 12.0 percent.

The alternate investment returns were chosen based on stochastic analysis of possible future investment returns over the four-year period ending June 30, 2021. Using the expected returns and volatility of the asset classes in which the funds are invested, we produced five thousand stochastic outcomes for this period based on the recently completed Asset Liability Management process. We then selected annual returns that approximate the 5<sup>th</sup>, 25<sup>th</sup>, 50<sup>th</sup>, 75<sup>th</sup>, and 95<sup>th</sup> percentiles for these outcomes. For example, of all the 4-year outcomes generated in the stochastic analysis, approximately 25 percent of them had an average annual return of 4.0 percent or less.

Required contributions outside of this range are also possible. In particular, whereas it is unlikely that investment returns will average less than 1.0 percent or greater than 12.0 percent over this four-year period, the possibility of a single investment return less than 1.0 percent or greater than 12.0 percent in any given year is much greater.

Assumed Annual Return From 2018-19 through 2020-21	Projected Employer Contributions					
2010-19 through 2020-21	2020-21	2021-22	2022-23	2023-24		
1.0%						
Normal Cost	7.5%	7.5%	7.5%	7.5%		
UAL Contribution	\$3,100	\$4,300	\$5,700	\$7,600		
4.0%						
Normal Cost	7.5%	7.5%	7.5%	7.5%		
UAL Contribution	\$3,100	\$4,100	\$5,200	\$6,600		
7.0%						
Normal Cost	7.5%	7.5%	7.5%	7.5%		
UAL Contribution	\$3,100	\$3,900	\$4,700	\$5,600		
9.0%						
Normal Cost	7.5%	7.7%	7.9%	7.3%		
UAL Contribution	\$3,100	\$3,800	\$4,500	\$5,100		
12.0%						
Normal Cost	7.5%	7.7%	7.9%	7.3%		
UAL Contribution	\$3,100	\$3,700	\$4,000	\$430		

Given the temporary suspension of the Risk Mitigation Policy during the period over which the discount rate assumption is being phased down to 7.0 percent, the projections above were performed without reflection of any possible impact of this Policy for Fiscal Year 2020-21. In addition, the projections above do not reflect the recent changes to the new amortization policy effective with the June 30, 2019 valuation but the impact on the results above is expected to be minimal.

# **Analysis of Discount Rate Sensitivity**

Shown below are various valuation results as of June 30, 2017 assuming alternate discount rates. Results are shown using the current discount rate of 7.25 percent as well as alternate discount rates of 6.0 percent, 7.0 percent, and 8.0 percent. The alternate rate of 7.0 percent was selected since the Board has adopted this rate as the final discount rate at the end of the three-year phase-in of the reduction in this assumption. The rates of 6.0 percent and 8.0 percent were selected since they illustrate the impact of a 1 percent increase or decrease to the 7.0 percent assumption. This analysis shows the potential plan impacts if the PERF were to realize investment returns of 6.0 percent, 7.0 percent, or 8.0 percent over the long-term.

This type of analysis gives the reader a sense of the long-term risk to required contributions. For a measure of funded status that is appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities, please see "Hypothetical Termination Liability" at the end of this section.

Sensitivity Analysis								
As of June 30, 2017	Plan's Total Normal Cost	Accrued Liability	Unfunded Accrued Liability	Funded Status				
7.25% (current discount rate)	13.735%	\$345,872	\$18,630	94.6%				
6.0%	17.669%	\$425,516	\$98,274	76.9%				
7.0%	14.273%	\$357,556	\$30,314	91.5%				
8.0%	11.666%	\$302,891	\$(24,351)	108.0%				

# **Volatility Ratios**

Actuarial calculations are based on a number of assumptions about long-term demographic and economic behavior. Unless these assumptions (terminations, deaths, disabilities, retirements, salary growth, and investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

#### Asset Volatility Ratio (AVR)

Plans that have higher asset-to-payroll ratios experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with an asset-to-payroll ratio of 8 may experience twice the contribution volatility due to investment return volatility, than a plan with an asset-to-payroll ratio of 4. Shown below is the asset volatility ratio, a measure of the plan's current contribution volatility. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as the plan matures.

#### Liability Volatility Ratio (LVR)

Plans that have higher liability-to-payroll ratios experience more volatile employer contributions (as a percentage of payroll) due to investment return and changes in liability. For example, a plan with a liability-to-payroll ratio of 8 is expected to have twice the contribution volatility of a plan with a liability-to-payroll ratio of 4. The liability volatility ratio is also shown in the table below. It should be noted that this ratio indicates a longer-term potential for contribution volatility. The asset volatility ratio, described above, will tend to move closer to the liability volatility ratio as the plan matures. Since the liability volatility ratio is a long-term measure, it is shown below at the current discount rate (7.25 percent) as well as the discount rate the Board has adopted to determine the contribution requirement in the June 30, 2018 actuarial valuation (7.00 percent).

Rate VolatilityAs of June 30				
1. Market Value of Assets	\$	327,242		
2. Payroll		883,832		
3. Asset Volatility Ratio (AVR) [(1) / (2)]		0.4		
4. Accrued Liability	\$	345,872		
5. Liability Volatility Ratio (LVR) [(4) / (2)]		0.4		
6. Accrued Liability (7.00% discount rate)		357,556		
7. Projected Liability Volatility Ratio [(6) / (2)]		0.4		

# **Hypothetical Termination Liability**

The hypothetical termination liability is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2017. The plan liability on a termination basis is calculated differently compared to the plan's ongoing funding liability. For the hypothetical termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed. This measure of funded status is not appropriate for assessing the need for future employer contributions in the case of an ongoing plan, that is, for an employer that continues to provide CalPERS retirement benefits to active employees.

A more conservative investment policy and asset allocation strategy was adopted by the CaIPERS Board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while funding risk is limited. However, this asset allocation has a lower expected rate of return than the PERF and consequently, a lower discount rate is assumed. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The effective termination discount rate will depend on actual market rates of return for risk-free securities on the date of termination. As market discount rates are variable, the table below shows a range for the hypothetical termination liability based on the lowest and highest interest rates observed during an approximate 2-year period centered around the valuation date.

Market Value of Assets (MVA)	Hypothetical Termination Liability <sup>1,2</sup> @ 1.75%	Funded Status	Unfunded Termination Liability @ 1.75%	Hypothetical Termination Liability <sup>1,2</sup> @ 3.00%	Funded Status	Unfunded Termination Liability @ 3.00%
\$327,242	\$756,691	43.3%	\$429,449	\$629,655	52.0%	\$302,412

<sup>1</sup> The hypothetical liabilities calculated above include a 5 percent mortality contingency load in accordance with Board policy. Other actuarial assumptions can be found in Appendix A.

<sup>2</sup> The current discount rate assumption used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the table are based on 20-year Treasury bonds, rounded to the nearest quarter percentage point, which is a good proxy for most plans. The 20-year Treasury yield was 2.61 percent on June 30, 2017, and was 2.83 percent on January 31, 2018.

In order to terminate the plan, you must first contact our Retirement Services Contract Unit to initiate a Resolution of Intent to terminate. The completed Resolution will allow the plan actuary to give you a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. CalPERS advises you to consult with the plan actuary before beginning this process.

# **Participant Data**

The table below shows a summary of your plan's member data upon which this valuation is based:

	Ju	ine 30, 2016	June 30, 2017
Reported Payroll	\$	601,671	\$ 883,832
Projected Payroll for Contribution Purposes	\$	657,463	\$ 962,275
Number of Members			
Active		8	12
Transferred		2	2
Separated		1	1
Retired		0	0

# **List of Class 1 Benefit Provisions**

This plan has the additional Class 1 Benefit Provisions:

• None

**Plan's Major Benefit Options** 

SECTION 1 – Plan Specific Information for the PEPRA Miscellaneous Plan of the Municipal Water District of Orange County

# **Plan's Major Benefit Options**

Shown below is a summary of the major optional benefits for which your agency has contracted. A description of principal standard and optional plan provisions is in Appendix B within Section 2 of this report.

	Contract package	age
Benefit Provision	Active Misc	
Benefit Formula Social Security Coverage Full/Modified	2.0% @ 62 No Full	
Employee Contribution Rate	6.25%	
Final Average Compensation Period	Three Year	
Sick Leave Credit	Yes	
Non-Industrial Disability	Standard	
Industrial Disability	No	
Pre-Retirement Death Benefits Optional Settlement 2 1959 Survivor Benefit Level Special Alternate (firefighters)	Yes level 4 No No	
Post-Retirement Death Benefits Lump Sum Survivor Allowance (PRSA)	\$500 No	
COLA	2%	

# Section 2

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

# Section 2 may be found on the CalPERS website (www.calpers.ca.gov) in the Forms and Publications section

#### Administration Activities Report September 7, 2018 to October 4, 2018

Activity	Summary	
Administration/Board	Staff worked on the following:	
	<ul> <li>Scheduled meetings for Rob Hunter and other various</li> </ul>	
	meetings of the Board members.	
	<ul> <li>Assisted Rob/Karl with various write ups and follow-up for the Committees and Board.</li> </ul>	
	<ul> <li>Continue to send the Water Supply Reports to the member agencies.</li> </ul>	
	Continued training of new administrative staff.	
	<ul> <li>Submitted the Biennial Conflict of Interest Code changes to the County.</li> </ul>	
	Conducted research regarding various Ethics and	
	Harassment Prevention Training options.	
	Responded to a Public Records Act request.	
	Processed and reviewed agreements for appropriate board	
	approval and insurance requirements.	
	Attended Notary training class.	
	Worked with Admin Staff on correct filing procedures for	
	records retention.	
	Registration for the CRWUA.	
	<ul> <li>Set appointments both phone &amp; in person meetings for Rob and Karl.</li> </ul>	
	<ul> <li>Assisted Government Affairs Manager with preparation of correspondence and travel.</li> </ul>	
	<ul> <li>Drafted the General Manager's Report.</li> </ul>	
	<ul> <li>Prepared PAL Packet and Meeting Minutes.</li> </ul>	
	<ul> <li>Processed several Agreements.</li> </ul>	
	<ul> <li>Assisted in setting up the Water Quality Meeting.</li> </ul>	
	<ul> <li>Assisted in setting up meetings for Melissa Haley.</li> </ul>	
	<ul> <li>Completed</li> </ul>	
	<ul> <li>Completed</li> <li>Completed WEROC NIMS/SEMS/ICS (100 &amp; 700) training.</li> </ul>	
	<ul> <li>Acquired an extension for SEOC Building permit on behalf of</li> </ul>	
	Charles Busslinger.	
	<ul> <li>Worked on gathering information to prepare an office</li> </ul>	
	maintenance schedule.	
MWDOC/OCWD Joint	No new information to report.	
Administration	' '	
Health Benefits	A review of all health insurance plans is underway and	
	information will be provided to participants on October 9 in	
	preparation of Open Enrollment which will be held October	
	22 – November 9.	
	<ul> <li>JPIA mailed information on the 2019 prescription plan</li> </ul>	
	changes to impacted participants.	

Health Benefits (cont'd)	<ul> <li>The District's vision plan number change will be implemented January 1, 2019 from plan number 3001 to plan number 3009.</li> <li>The annual joint MWDOC/OCWD Health fair and flu shots will be held on October 11.</li> <li>Flexible Benefits information for 2019 has not been published yet but is anticipated in mid-November.</li> </ul>
Records Management	<ul> <li>Staff attended the annual ECS conference (our Laserfiche reseller) in Riverside.</li> <li>New employees have been trained on Records Management policies and procedures.</li> <li>Staff has been cross-trained on the basics of Laserfiche usage.</li> <li>Review and reorganization of electronic documents in Laserfiche system continues.</li> </ul>
Recruitment	All positions are currently filled and there are no vacant
/Departures	positions.
Other Design to see the	
Projects and Activities	<ul> <li>Staff continues review of the Personnel Manual.</li> <li>Staff is meeting with consultants to seek input on evaluating options for improvements to the District's Performance Evaluation process.</li> <li>Staff has a meeting scheduled with IDS Group on October 5, to ensure that the office schematics, design and details for various phases of the office remodel project are clearly identified.</li> <li>All MWDOC staff meeting was held on September 27<sup>th</sup>.</li> <li>Staff met with auditors to discuss HR procedures, review Classic and PERPA Employee tracking and retiree health benefits.</li> <li>Staff coordinated and participated in the Member Agencies HR Meeting held on October 4 at Santa Margarita Water District.</li> <li>HR staff is researching job descriptions, salary benchmarks and benefits for two Water Leak Detection Program positions for the Water Use Efficiency Department.</li> <li>Staff assisted with the preparation and securing of a moving company to move furniture for the electrical monitoring project.</li> </ul>





# INFORMATION ITEM

October 10, 2018

# TO: Administration & Finance Committee (Directors Thomas, Dick, Finnegan)

FROM: Robert J. Hunter, General Manager Staff Contact: Jeff Stalvey

#### SUBJECT: Finance and IT Pending Items Report

#### SUMMARY

The following list details the status of special projects that are in-progress or to be completed during FY 2018-19.

Description	% of Completion	Estimated Completion date	Status
Finance			
Further Implementation of WUE Landscape Programs Databases and Web Site.	On-going	On-going	In Progress
2018 W-9 collection for water rebates. Currently holding 8 rebate checks awaiting W-9 forms.	On-going	On-going	In Progress
Annual audit with Vazquez & Co. Interim audit week of July 9 <sup>th</sup> ; final audit week of September 17 <sup>th</sup> .	90%	11-14-18	In Progress
Prepare for year end, post closing entries and prepare annual financials. Awaiting audit review	90%	10-24-18	In Progress
Pulled 83 W-9's to respond to an IRS penalty notice for 2016 1099 filings. Legal counsel responded. Awaiting IRS reply.	90%	10-31-18	In Progress
Government Compensation in California Report 2018	0%	03-30-19	Not Started
State Controller Report preparation FY17-18	0%	11-30-18	Not Started
Preparation of documents for FY19-20 budget process.	0%	05-31-19	Not Started

Description	% of Completion	Estimated Completion date	Status
Information Technology			
Network security issues (hackers, viruses and spam emails)	On-going	On-going	Continuous system monitoring
Purchase and upgrade Virtual Hyper-V Host Server (Hardware and Software)	50%	12-31-18	In Progress
Purchase and upgrade Conference room 101 with Interactive board	0%	06-30-19	Not Started
Upgrade VOIP telephone phone system (Hardware and software)	0%	3-31-19	Not Started
Upgrade Exchange Server to Enterprise Version	100%	9-30-18	Completed
Purchase and upgrade 5 desktop computers, 3 laptops and an iPad for Staff	100%	09-30-18	Completed

Description	% of Completion	Estimated Completion date	Status
FY 2018-19 Completed Special Tasks			
<u>Finance</u>			
Transition to new banking institution, U.S. Bank. Closed Bank of America account on 08/30/18	100%	08-20-18	Completed
New custodial services with U.S. Bank. New account opened August 3rd and transitioned by August 20th.	100%	08-22-18	Completed
State Tax filing for Water Facilities FY17-18	100%	09-30-18	Completed
Information Technology			



#### **INFORMATION ITEM** October 10, 2018

- TO: Administration & Finance Committee (Directors Thomas, Dick, Finnegan)
- FROM: Robert Hunter, General Manager Staff Contact: Kevin Hostert
- SUBJECT: Monthly Water Usage Data, Imported Water Projections, and Water Supply Info.

#### STAFF RECOMMENDATION

Staff recommends the Administration & Finance Committee receive and file this information.

#### COMMITTEE RECOMMENDATION

Committee recommends (To be determined at Committee Meeting)

#### REPORT

The attached figures show the recent trend of water consumption in Orange County (OC), an estimate of Imported Water Sales for MWDOC, and selected water supply information.

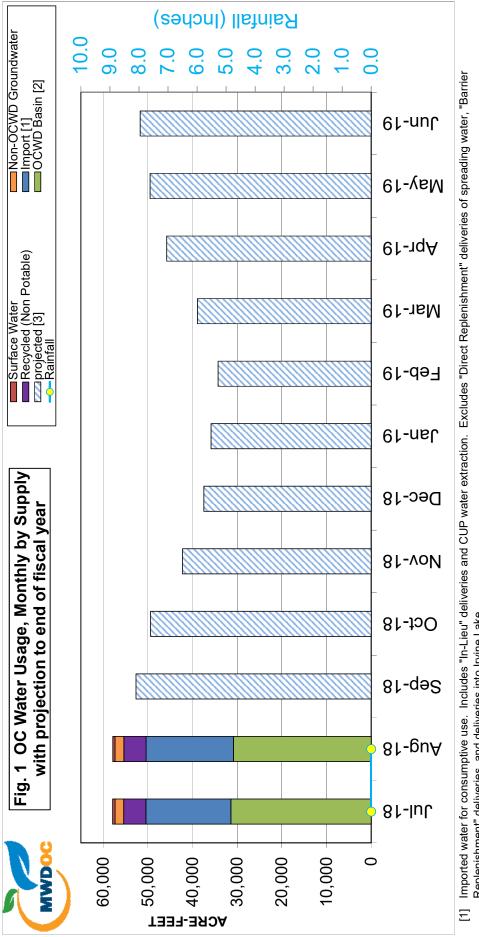
- <u>OC Water Usage, Monthly by Supply</u> OCWD Groundwater was the main supply in August.
- <u>OC Water Usage, Monthly, Comparison to Previous Years</u> Water usage in August 2018 was above average compared to the last 5 years. We are continuing to see slight increases in overall water usage compared to the previous three Fiscal Years. In June 2016, all water conservation became voluntary for MWDOC agencies and the Great California Drought was declared over by the Governor in April 2017.
- <u>Historical OC Water Consumption</u> Orange County M & I water consumption is estimated to be 554,000 AF in FY 2018-19 (*this includes ~15 TAF of agricultural usage and non-retail water agency usage*). This is about 14,000 AF more than FY 2017-18 and is about 35,000 AF more than FY 2016-17. Water usage per person is projected to be slightly higher in FY 2018-19 for Orange County at 154 gallons per day (This includes recycled water). Although OC population has increased 20% over the past two decades, water usage has not increased, on average. A long-

Budgeted (Y/N): N	Budgeted amount: N/A		Core <u>X</u>	Choice	
Action item amount: N/A		Line item:			
Fiscal Impact (explain if unbudgeted):					

term decrease in per-capita water usage is attributed mostly to Water Use Efficiency (water conservation) efforts. O.C. Water Usage for the last three Fiscal Years is the lowest since the 1982-83 Fiscal Year (FY1982-83 was the third wettest year on record).

<u>Water Supply Information</u> Includes data on Rainfall in OC; the OCWD Basin overdraft; Northern California and Colorado River Basin hydrologic data; the State Water Project (SWP) Allocation, and regional storage volumes. The data have implications for the magnitude of supplies from the three watersheds that are the principal sources of water for OC. Note that a hydrologic year is Oct. 1<sup>st</sup> through Sept. 30<sup>th</sup>.

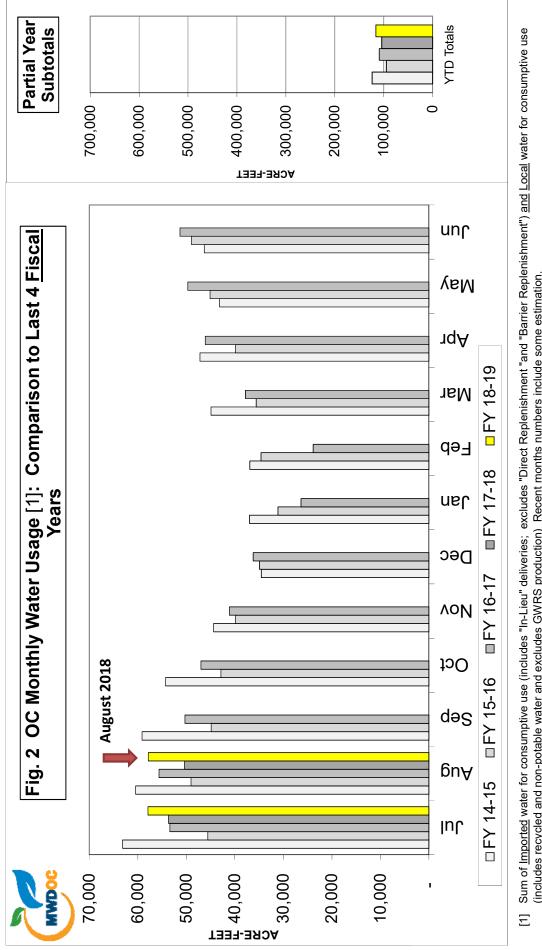
- <u>Orange County's</u> accumulated rainfall through September was well below average for this period. Water year to date rainfall in Orange County is 3.66 inches which is 28% of normal.
- <u>Northern California</u> accumulated precipitation through September was around 82% of normal for this period. Water Year 2017 was the wettest water year on record. The Northern California snowpack was 43% of normal as of April 1<sup>st</sup>. The State of California was in a declared Drought Emergency that started January 2014 and ended in April of 2017. As of late September, 47.97% of California is experiencing moderate to extreme drought conditions while 87.82% of the state is experiencing abnormally dry conditions. The State Water Project Contractors Table A Allocation has increased to 35% as of late May.
- <u>Colorado River Basin</u> accumulated precipitation through late September was 66% average for this period. The Upper Colorado Basin snowpack was 71% of normal as of April 3. Lake Mead and Lake Powell combined have about 57% of their average storage volume for this time of year and are at 41.6% of their total capacity. If Lake Mead's level falls below a "trigger" limit 1,075 ft. at the end of a calendar year, then a shortage will be declared by the US Bureau of Reclamation (USBR), impacting Colorado River water deliveries to the Lower Basin states. As of late September, Lake Mead levels were 3.29' above the "trigger" limit. The USBR predicts that the start of 2019 will not hit the "trigger" level but there is a 57% chance that the trigger level will be hit in 2020 and a 68% chance in 2021.





GW for consumptive use only. Excludes In-Lieu water deliveries and CUP water extraction that are counted with Import. BPP in FY '17-18 is 75%. MWDOC's estimate of monthly demand is based on the projected FY 15-16" water demand and historical monthly demand patterns.

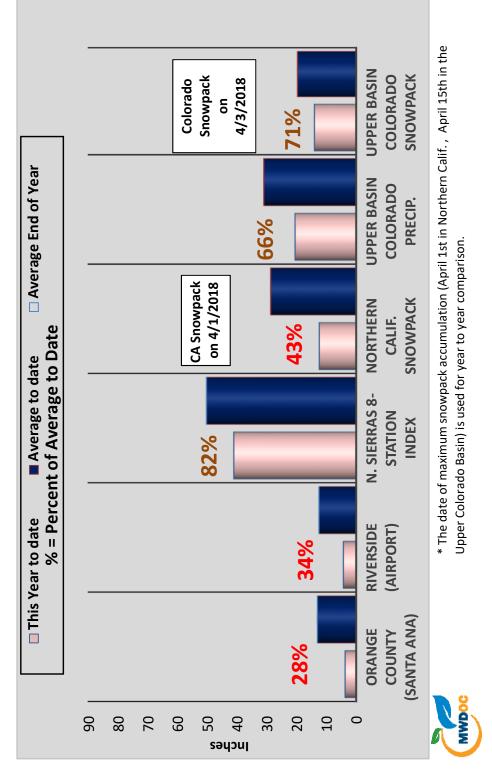
Total water usage includes IRWD groundwater agricultural use and usage by non-retail water agencies.

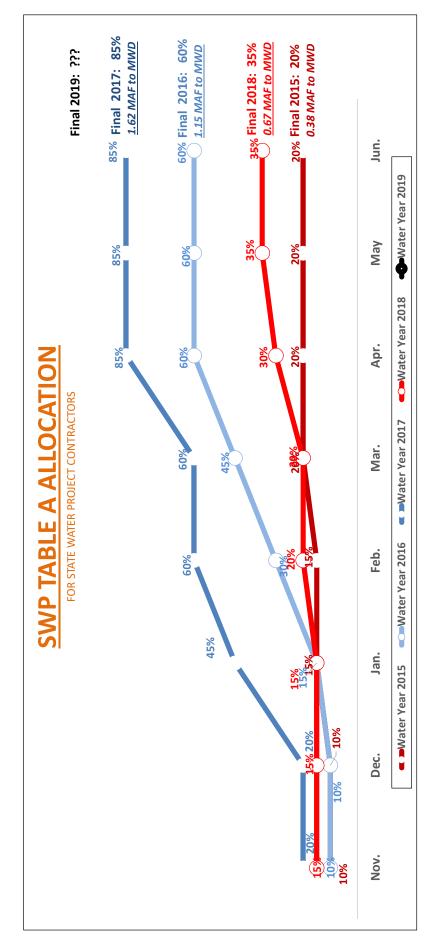


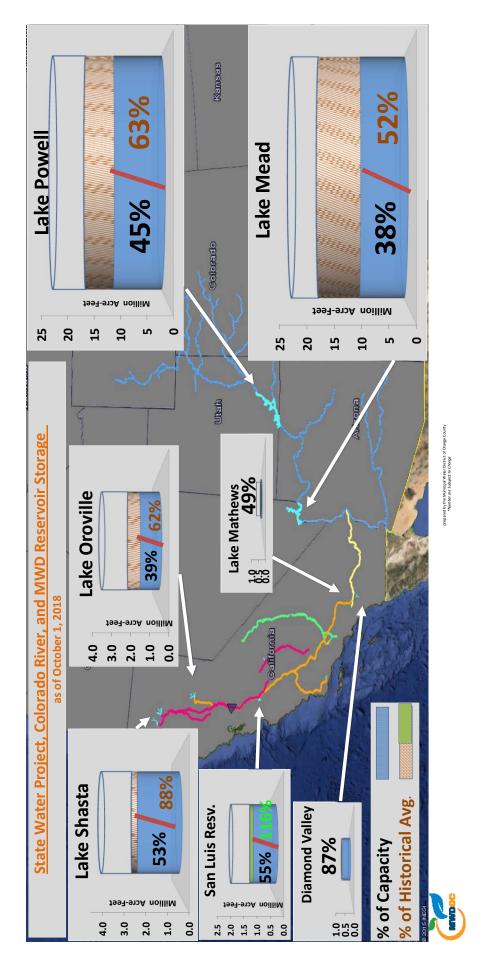


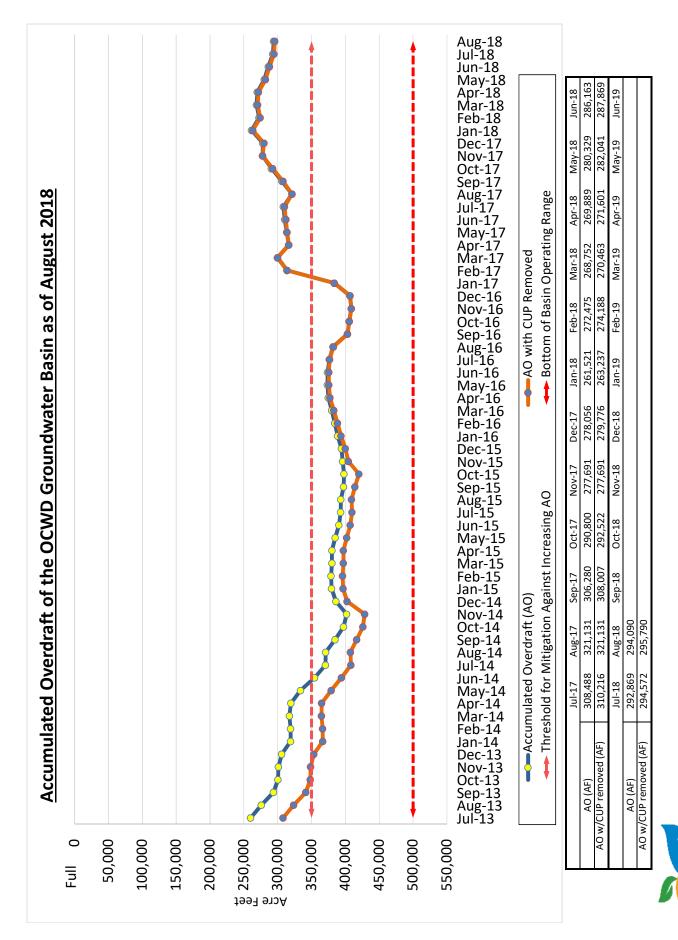


# for the Oct.-Sep. water year, through September 2018









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**MWDOC** 

