

**MEETING OF THE
BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY**
Jointly with the
ADMINISTRATION FINANCE COMMITTEE
October 14, 2015, 8:30 a.m.
MWDOC Conference Room 101

Committee:

Director Thomas, Chairman
Director J. Finnegan
Director Osborne

Staff: R. Hunter, K. Seckel, C. Harris,
K. Davanaugh, H. Chumpitazi

Ex Officio Member: L. Dick

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 <http://www.mwdoc.com>.

PROPOSED BOARD CONSENT CALENDAR ITEMS

1. TREASURER'S REPORT
 - a. Revenue/Cash Receipt Report – September 2015
 - b. Disbursement Approval Report for the month of October 2015
 - c. Disbursement Ratification Report for the month of September 2015
 - d. GM Approved Disbursement Report for the month of September 2015
 - e. Water Use Efficiency Projects Cash Flow – September 30, 2015
 - f. Consolidated Summary of Cash and Investment – August 2015
 - g. OPEB Trust Fund monthly statement

2. FINANCIAL REPORT - Combined Financial Statements and Budget Comparative for the period ending August 31, 2015

ACTION ITEMS

3. CONSUMER DRIVEN HEALTH PLANS (CDHP) BENEFIT PLAN OFFERINGS FOR 2016
4. APPROVE CONTRACT FOR WATER LOSS CONTROL TECHNICAL ASSISTANCE FOR MEMBER AGENCIES

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.)

5. STATUS REPORT RE IMPLEMENTATION OF THE SETTLEMENT AGREEMENT BETWEEN MWDOC AND ITS MEMBER AGENCIES (oral report)
6. MONTHLY WATER USAGE DATA, TIER 2 PROJECTION & WATER SUPPLY INFO
7. DEPARTMENT ACTIVITIES REPORTS
 - a. Administration
 - b. Finance and Information Technology

OTHER ITEMS

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

AD OURNMENT

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.

Accommodations for the Disabled. 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.

Municipal Water District of Orange County
REVENUE / CASH RECEIPT REPORT
September 2015

WATER REVENUES

Date	From	Description	Amount
09/08/15	City of La Palma	July 2015 Water deliveries	69,823.16
09/08/15	City of Newport Beach	July 2015 Water deliveries	102,751.86
09/08/15	South Coast Water District	July 2015 Water deliveries	456,891.59
09/09/15	City of Westminster	July 2015 Water deliveries	213,897.23
09/09/15	City of Garden Grove	July 2015 Water deliveries	320,885.08
09/11/15	Laguna Beach County Water District	July 2015 Water deliveries	284,058.94
09/11/15	Santiago Aqueduct Commission	July 2015 Water deliveries	94,244.60
09/11/15	Mesa Water	July 2015 Water deliveries	33,355.30
09/14/15	El Toro Water District	July 2015 Water deliveries	720,828.22
09/14/15	Santa Margarita Water District	July 2015 Water deliveries	2,182,993.68
09/14/15	Trabuco Canyon Water District	July 2015 Water deliveries	18,155.68
09/14/15	City of Orange	July 2015 Water deliveries	716,501.42
09/15/15	East Orange County Water District	July 2015 Water deliveries	196,220.87
09/15/15	Orange County Water District	July 2015 Water deliveries	1,933,812.67
09/15/15	Moulton Niguel Water District	July 2015 Water deliveries	2,108,307.27
09/15/15	Yorba Linda Water District	July 2015 Water deliveries	505,275.70
09/15/15	Golden State Water Company	July 2015 Water deliveries	289,845.28
09/25/15	City of Fountain Valley	August 2015 Water deliveries	191,495.76
09/25/15	City of La Habra	August 2015 Water deliveries	11,791.79
09/25/15	City of Huntington Beach	August 2015 Water deliveries	827,544.20

TOTAL REVENUES **\$ 11,278,680.30**

Municipal Water District of Orange County
REVENUE / CASH RECEIPT REPORT
September 2015


MISCELLANEOUS REVENUES

Date	From	Description	Amount
09/03/15	State of California	1997/1998 Brown Act state mandated cost	1,531.00
09/03/15	State of California	1998/1999 Brown Act state mandated cost	1,275.00
09/03/15	State of California	1999/2000 Brown Act state mandated cost	1,470.00
09/03/15	State of California	2000/2001 Brown Act state mandated cost	1,509.00
09/03/15	State of California	2001/2002 Brown Act state mandated cost	4,467.00
09/03/15	Poseidon Resources (Surfside) LLC	7/29/15 Water Policy Dinner-registration for 8	640.00
09/18/15	Edison International	7/29/15 Water Policy Dinner-registration for 2	160.00
09/28/15	Trabuco Canyon Water District	7/29/15 Water Policy dinner-J. Haselton	80.00
09/29/15	Paypal	7/29/15 Water Policy Dinner	77.38
09/25/15	City of Brea	July 2015 SmarTimer & Turf Removal rebate program	389.42
09/28/15	City of Buena Park	July 2015 Turf Removal rebate program	846.00
09/28/15	City of Garden Grove	July 2015 Turf Removal rebate program	2,914.00
09/18/15	City of Huntington Beach	July 2015 SmarTimer rebate program	294.00
09/25/15	City of La Habra	July 2015 Turf Removal rebate program	2,451.89
09/21/15	City of Newport Beach	June 2015 SmarTimer & Turf Removal rebate program	3,264.97
09/14/15	City of Orange	June 2015 SmarTimer & Turf Removal rebate program	14,879.13
09/25/15	City of San Clemente	July 2015 SmarTimer & Turf Removal rebate program	9,588.07
09/25/15	City of San Clemente	2015 Urban Water Management Plan Contract-Arcadis	34,910.00
09/28/15	City of Santa Ana	July 2015 SmarTimer rebate program	150.00
09/23/15	City of Westminster	July 2015 SmarTimer rebate program	75.00
09/23/15	City of Westminster	2015 Urban Water Management Plan Contract-Arcadis	44,570.00
09/18/15	Department of Water Resources	Jan-Mar 2015 CLWUE program Rpt#2	98.82
09/18/15	Department of Water Resources	Jan-Mar 2015 CLWUE program Rpt#2	1,159.85
09/18/15	Department of Water Resources	Jan-Mar 2015 CLWUE program Rpt#2	566.03
09/18/15	Los Angeles County	Disaster Cost Recovery Training 2 registrations	360.00
09/11/15	Laguna Niguel	Disaster Cost Recovery Training	180.00
09/21/15	El Toro Water District	July 2015 SmarTimer/Rotating Nozzle rebate program	237.65
09/21/15	El Toro Water District	July 2015 So Cal Watersmart rebate program	1,778.96
09/28/15	El Toro Water District	2015 Urban Water Management Plan Contract-Arcadis	41,220.00
09/28/15	SDRMA	FY 14/15 Workers Comp insurance audit adjustment	180.30
09/11/15	SDRMA	FY 14/15 Worker's comp premium audit refund	445.78
09/21/15	Golden State Water Company	July 2015 SmarTimer/Turf Removal rebate program	10,078.56
09/28/15	Golden State Water Company	July 2015 So Cal Watersmart rebate program	2,168.05
09/30/15	Irvine Ranch Water District	July 2015 So Cal Watersmart rebate program	43,139.41
09/28/15	Laguna Beach County Water District	July 2015 SmarTimer/Turf Removal rebate program	1,259.00
09/21/15	Mesa Water	July 2015 SmarTimer rebate program	150.00
09/21/15	Moulton Niguel Water District	July 2015 SmarTimer/Turf Removal/Rotating nozzle	3,654.58
09/11/15	3 Checks	Movie tickets	40.00
09/18/15	K. Davanaugh	Movie tickets	24.00
09/14/15	N. Nguyen	Movie tickets	120.00
09/30/15	C. Harris	Movie tickets	96.00
09/30/15	Phil Letrong	Oct-Dec 2015 retiree medical insurance	48.33
09/18/15	Judy Pfister	October 2015 Retiree medical insurance	34.71
09/18/15	Stan Sprague	October 2015 Retiree medical insurance	212.59
09/30/15	Jeffrey Thomas	Pension Reimbursement	15,896.57
09/30/15	Santa Margarita Water District	June 2015 SmarTimer rebate program	458.43
09/21/15	South Coast Water District	2015 Urban Water Management Plan Contract-Arcadis	44,220.00
09/14/15	Trabuco Canyon Water District	Late penalty for June 2015 water deliveries	173.98
09/28/15	Trabuco Canyon Water District	July 2015 SmarTimer rebate program	300.00
09/28/15	Trabuco Canyon Water District	2015 Urban Water Management Plan Contract-Arcadis	41,220.00
09/03/15	Yorba Linda Water District	June 2015 SmarTimer rebate program	225.00
09/28/15	Yorba Linda Water District	July 2015 SmarTimer rebate program	292.75

TOTAL MISCELLANEOUS REVENUES \$ 335,581.21
TOTAL REVENUES \$ 11,614,261.51



Robert J. Hunter, General Manager



Hilary Chumitazi, Treasurer

**Municipal Water District of Orange County
Disbursement Approval Report
For the month of October 2015**

<i>Invoice#</i>	<i>Vendor / Description</i>	<i>Amount to Pay</i>
Core Expenditures:		
	Richard Ackerman	
1082	September 2015 Legal consulting on water policy issues	1,650.00
	*** Total ***	1,650.00
	Aleshire & Wynder LLP	
34413	July-August 2015 Legal services	5,966.12
	*** Total ***	5,966.12
	ALTA FoodCraft	
515090544	9/2/15 Coffee & tea supplies	264.43
515092025	9/30/15 Coffee & tea supplies	254.52
	*** Total ***	518.95
	Awards & Trophies Co., Inc.	
13274	Name plate for J. Volzke	15.88
	*** Total ***	15.88
	Best Best and Krieger LLP	
55401-AUG15	August 2015 Legal services	16,482.74
	*** Total ***	16,482.74
	CDM Smith	
80535041/9	August 2015 Engineering services for Water Reliability Investigation	16,205.50
	*** Total ***	16,205.50
	CDW Government	
ZM04223	Web security software renewal for 35 licenses	1,654.00
	*** Total ***	1,654.00
	Constant Contact Inc.	
XR8WAECAB27315	October 2015-September 2016 E-mail marketing software	2,478.00
	*** Total ***	2,478.00
	Hunter T. Cook	
100415	August 2015-October 2015 Coastal retiree health benefit	1,364.76
	*** Total ***	1,364.76
	Costco Wholesale	
7345-2015	2015 Annual membership renewal	110.00
	*** Total ***	110.00
	Dell Marketing L.P.	
XJRX7R5W8	2 OptiPlex 9020 MT BTX computers	1,750.03
	*** Total ***	1,750.03

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For the month of October 2015**

<i>Invoice#</i>	<i>Vendor / Description</i>	<i>Amount to Pay</i>
	<i>Dissinger Associates</i>	
093015	September 2015 Pension plan distribution processing fee	100.00
	*** Total ***	100.00
	<i>Fry's Electronics</i>	
21060549	10/7/15 Computer supplies	62.60
	*** Total ***	62.60
	<i>GovConnection, Inc.</i>	
53063093	1 iPad Air with AppleCare service plan	747.48
	*** Total ***	747.48
	<i>Immersiv Media, Inc.</i>	
-016(MWDOC2015)	October-December 2015 Website hosting and maintenance	525.00
	*** Total ***	525.00
	<i>James C. Barker, P.C.</i>	
105-0915	September 2015 Federal legislative advocacy services	8,000.00
	*** Total ***	8,000.00
	<i>Lewis Consulting Group, LLC</i>	
1433	September 2015 Consulting services	3,687.50
	*** Total ***	3,687.50
	<i>The Martinet Group, LLC</i>	
2015-08-01	August 2015 Disaster Finance and Cost Recovery training	6,000.00
	*** Total ***	6,000.00
	<i>Edward G. Means III</i>	
MWDOC-1032	September 2015 Support on MET issues & strategic guidance to Engineering department	1,000.00
	*** Total ***	1,000.00
	<i>Norco Delivery Services</i>	
690191	9/4/15 Delivery charges for Board packets	116.85
690635	9/18/15 Delivery charges for Board packets	23.37
	*** Total ***	140.22

Municipal Water District of Orange County
Disbursement Approval Report
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<i>Invoice#</i>	<i>Vendor / Description</i>	<i>Amount to Pay</i>
	Office Solutions	
I-00827709	9/9/15 Office supplies-2 wireless headsets	378.00
I-00827843	9/9/15 Office supplies	40.04
I-00828487	9/10/15 Office supplies	155.26
I-00829753	9/11/15 Office supplies	530.40
I-00831836	9/16/15 Office supplies	72.69
I-00829469	9/11/15 Office supplies-5,000 envelopes	529.90
I-00837200	9/28/15 Office supplies	552.80
	*** Total ***	2,259.09
	Orange County Business Council	
0007362-IN	2015 Annual membership renewal	5,000.00
	*** Total ***	5,000.00
	Orange County Water District	
15454	August 2015 50% of WACO expenses	232.49
15494	August 2015 Postage, shared office & maintenance expense	4,017.78
	*** Total ***	4,250.27
	Jessica H. Ouwerkerk	
MWDOC-003	August 2015 Consulting services for Public Affairs department	356.25
MWDOC-004	September 2015 Consulting Services for Public Affairs department	71.25
	*** Total ***	427.50
	Patricia Kennedy Inc.	
20534	October 2015 Plant maintenance	214.00
	*** Total ***	214.00
	PDC Interiors	
2365A-15	Balance for window coverings for refurbished offices	1,317.50
	*** Total ***	1,317.50
	So. Cal. Water Committee	
26679	July 2015-June 2016 Annual membership	850.00
	*** Total ***	850.00
	Top Hat Productions	
90841	9/17/15 Lunch for Managers' meeting	435.78
	*** Total ***	435.78
	Townsend Public Affairs, Inc.	
11044	August 2015 State legislative advocacy services	7,500.00
11143	July-August 2015 State legislative advocacy services	1,000.00
11106	September 2015 State legislative advocacy services	8,000.00
	*** Total ***	16,500.00

**Municipal Water District of Orange County
Disbursement Approval Report
For the month of October 2015**

<i>Invoice#</i>	<i>Vendor / Description</i>	<i>Amount to Pay</i>
	Michelle Tuchman	
092215	September 2015 Services for guidance to the Public Affairs department	5,400.00
	*** Total ***	5,400.00
	Union Bank, N.A.	
941219	June-August 2015 Custodial bank fees	625.00
	*** Total ***	625.00
	USAFact Inc.	
2444260-IN	6/18/15 New hire background inquiry	53.64
	*** Total ***	53.64
	U. S. HealthWorks Medical Group	
2765781-CA	8/25/15 Pre-employment exam	160.00
2775680-CA	8/27/15 Pre-employment exam	28.00
	*** Total ***	188.00
	Vavrinek, Trine, Day & Co., LLP	
0117185-IN	August Services for FY14/15 Financial Statement audit	6,300.00
	*** Total ***	6,300.00
	Ken Weinberg	
10004	8/30/15-9/25/15 Services to review California Bay Delta Fix documents and preparation of comment letter.	5,985.00
	*** Total ***	5,985.00
	Total Core Expenditures	<hr/> 118,264.56

Choice Expenditures:

	Autumn Print Group	
1727	20 Lawn signs for Turf Removal program	907.20
	*** Total ***	907.20
	Bryton	
12087	Bill inserts printed for Water Use Efficiency programs	3,609.94
	*** Total ***	3,609.94
	Chambers Group Inc.	
30182	August-September 2015 Baseline environmental monitoring for Doheny Ocean Desal project	26,981.70
	*** Total ***	26,981.70

Municipal Water District of Orange County
Disbursement Approval Report
For the month of October 2015

<i>Invoice#</i>	<i>Vendor / Description</i>	<i>Amount to Pay</i>
	Jessica H. Ouwerkerk	
MWDOC-003	August 2015 Consulting Services for Water Use Efficiency department	3,776.25
MWDOC-004	September 2015 Consulting Services for Water Use Efficiency department	4,393.75
	*** Total ***	8,170.00
	Top Hat Productions	
90799	9/2/15 Lunch for Water Use Efficiency Workgroup meeting	467.91
	*** Total ***	467.91
	Total Choice Expenditures	40,136.75
Other Funds Expenditures:		
	AquaFicient Consulting	
03-001	August 2015 Landscape Performance Certification program funded by IRWD & MET	1,800.00
	*** Total ***	1,800.00
	Autumn Print Group	
1736	4 Lawn signs for Public Spaces program	207.36
	*** Total ***	207.36
	ConserVision Consulting, LLC	
LPCP-234	August 2015 Consulting services for Landscape Performance Certification program	7,508.25
	*** Total ***	7,508.25
	Eagle Communications	
713822	August 2015 Services for WEROC partner agency inspections	5,859.00
	*** Total ***	5,859.00
	Mission RCD	
1818	August 2015 Field verifications for Water Use Efficiency rebate programs	41,311.01
	*** Total ***	41,311.01
	Public Spaces Program	
LF100715	City of Lake Forest	55,939.00
	*** Total ***	55,939.00
	Signs by Ron	
10343	1 Sign for WEROC S. EOC gate	63.60
	*** Total ***	63.60

Municipal Water District of Orange County
Disbursement Approval Report
For the month of October 2015

<i>Invoice#</i>	<i>Vendor / Description</i>	<i>Amount to Pay</i>
<i>Spray to Drip Program</i>		
S2D-LBCWD-3701	S. Levitta	335.30
S2D-SJCP-3048	C. Small	350.00
S2D-SCWD-3720	D. Gullo	525.00
S2D-TSTN-1047	W. Twomey	350.00
S2D-SMWD-3115	S. Gonsowski	350.00
S2D-SMWD-3119	S. Chen	525.00
S2D-SMWD-3046	P. Madro	525.00
S2D-SMWD-3052	J. Casabianca	292.27
S2D-SMWD-3504	M. McTiernan	446.94
S2D-SMWD-3060	D. Rocha	163.15
S2DC-BREA-2013	2929 Imperial LLC (Brea)	1,560.00
S2DC-IRWD-1006	City of Lake Forest	6,000.00
S2DC-ETWD-2009	City of Lake Forest	4,200.00
	*** Total ***	15,622.66
<i>Survey Gizmo</i>		
596288	Annual subscription for online application & database	675.00
	*** Total ***	675.00
<i>Turf Removal Program</i>		
TR5W-BREA-3857	C. Thorum	2,424.00
TR6-BREA-6220-990	D. Daucher	2,010.00
TR6-BREA-7392-785	J. Gomez	1,596.00
TR5W-EOCWD-5645	C. Marestaing	4,680.00
TR6-EOCWD-9509-19681	Y. Shiuey	1,200.00
TR5-ET-019	Golden Rain Foundation (Laguna Woods)	23,974.00
TR5-ET-029	E. Taintor	1,908.00
TR5W-ETWD-3714	City of Lake Forest	5,720.00
TR5W-ETWD-4575	C. Stocking	1,394.00
TR5W-ETWD-5432	E. Bucur	1,872.00
TR5W-ETWD-5492	S. Whalen	4,884.00
TR5W-ETWD-5538	M. Owens	1,794.00
TR6-ETWD-6293-24481	W. Klausner	2,052.00
TR6-ETWD-6401-22752	S. Randall	1,834.00
TR6-ETWD-7406-27206	G. Mayer	1,946.00
TR5-FV-023	L. Courier	1,156.00
TR5W-FV-4786	P. Benfield	550.00
TR5W-FV-5121	J. Carter	682.00
TR5W-FV-5626	G. Diehm	216.00
TR5W-GG-3585	T. Song	5,495.69
TR5W-GSWC-3451	R. Cruz	3,948.00
TR5W-GSWC-4118	H. Vu	2,688.00
TR5W-GSWC-4408	P. McCune	1,348.00
TR5-HB-125	V. Lee	1,872.00
TR5-HB-128	J. Janda	692.00
TR5-HB-133	G. Fullerton	514.00

Municipal Water District of Orange County
Disbursement Approval Report
For the month of October 2015

<i>Invoice#</i>	<i>Vendor / Description</i>	<i>Amount to Pay</i>
TR5W-HB-1614	H. North	384.00
TR5W-HB-3433	G. Clifford	6,016.00
TR5W-HB-3647	R. Salim	1,948.00
TR5W-HB-3827	M. Baggetta	1,396.00
TR5W-HB-3858	K. Randolph	3,020.00
TR5W-HB-4015	J. Loudon	1,014.00
TR5W-HB-4079	L. Rossi	2,680.00
TR5W-HB-4125	S. Okimura	6,236.00
TR5W-HB-4226	N. Ferguson	5,542.00
TR5W-HB-4234	J. Zaejian	1,000.00
TR5W-HB-4248	M. Nelson	1,008.00
TR5W-HB-4251	J. Fields	1,548.00
TR5W-HB-4319	J. Del Monaco	1,060.00
TR5W-HB-4329	S. Liechty	2,796.00
TR5W-HB-4497	M. Mio	1,348.00
TR5W-HB-4634	Silveira Family Company (Huntington Beach)	768.00
TR5W-HB-4848	L. Lummer-Sigmon	4,234.00
TR5W-HB-4935	K. O'Connell	1,768.00
TR5W-HB-4970	M. Baer	870.00
TR5W-HB-5816	S. Pollack	1,820.00
TR6-HB-6323-21131	D. Charlton	1,828.00
TR6-HB-6565-16622	D. Pallaziol	3,692.00
TR6-HB-6584-18221	C. Bradford	1,128.00
TR6-HB-6610-413	J. Harris	260.00
TR6-HB-7245-20441	C. Eing	1,720.00
TR6-HB-8342-420	K. Blake	802.00
TR5-IRWD-227	Parker Hannifin (Irvine)	28,960.00
TR5-IRWD-268	T. Seto	1,496.00
TR5-IRWD-330	Lexington at Northwood HOA (Irvine)	6,314.00
TR5-IRWD-338	T. Ferrara	940.00
TR5-IRWD-343	G. Manulkin	20,056.00
TR5W-IRWD-1825	N. Warne-McGraw	1,456.00
TR5W-IRWD-2283	Marsh	744,000.00
TR5W-IRWD-3037	Travilla HOA (Tustin)	6,516.00
TR5W-IRWD-3125	H. Cao	218.00
TR5W-IRWD-3251	A. Mao	616.00
TR5W-IRWD-3282	Old Trabuco Highlands (Lake Forest)	11,700.00
TR5W-IRWD-3413	J. Gregorio	2,188.00
TR5W-IRWD-3483	M. Zhu	366.00
TR5W-IRWD-3505	S. Sidhu	776.00
TR5W-IRWD-3534	J. Nguyen	1,660.23
TR5W-IRWD-3624	D. Chia	1,830.00
TR5W-IRWD-3659	A. Thomas	1,318.00
TR5W-IRWD-3713	City of Lake Forest	87,970.24
TR5W-IRWD-3770	Lakeside Park HOA (Lake Forest)	4,744.00
TR5W-IRWD-3771	Lakeside Park HOA (Lake Forest)	14,210.00
TR5W-IRWD-3773	Lakeside Park HOA (Lake Forest)	1,512.00

Municipal Water District of Orange County
Disbursement Approval Report
For the month of October 2015

<i>Invoice#</i>	<i>Vendor / Description</i>	<i>Amount to Pay</i>
TR5W-IRWD-3774	Lakeside Park HOA (Lake Forest)	14,514.00
TR5W-IRWD-3775	Lakeside Park HOA (Lake Forest)	14,166.00
TR5W-IRWD-3791	Lakeside Park HOA (Lake Forest)	27,146.00
TR5W-IRWD-3792	Lakeside Park HOA (Lake Forest)	11,356.00
TR5W-IRWD-3793	Lakeside Park HOA (Lake Forest)	17,226.00
TR5W-IRWD-3794	Lakeside Park HOA (Lake Forest)	22,566.00
TR5W-IRWD-3795	Lakeside Park HOA (Lake Forest)	17,518.00
TR5W-IRWD-3796	Lakeside Park HOA (Lake Forest)	5,112.00
TR5W-IRWD-4002	R. Lauzon-Leibson	924.00
TR5W-IRWD-4013	L. Enochs	11,124.00
TR5W-IRWD-4014D	C. Romeo	1,246.00
TR5W-IRWD-4054	P. Venkatesan	906.00
TR5W-IRWD-4058	D. Espinosa	1,792.00
TR5W-IRWD-4122	M. Pang	504.00
TR5W-IRWD-4123	Madrid at Tustin HOA (Tustin)	1,610.00
TR5W-IRWD-4184	P. Thompson	980.00
TR5W-IRWD-4210	Woodside Irvine HOA (Irvine)	58,718.00
TR5W-IRWD-4216	Woodside Irvine HOA (Irvine)	4,338.00
TR5W-IRWD-4217	Woodside Irvine HOA (Irvine)	6,278.00
TR5W-IRWD-4219	Woodside Irvine HOA (Irvine)	3,100.00
TR5W-IRWD-4267	G. Oglesby	340.00
TR5W-IRWD-4288	J. Cable	3,336.00
TR5W-IRWD-4301	J. Shaw	1,468.00
TR5W-IRWD-4315	C. Gibney	1,930.00
TR5W-IRWD-4328	M. Hodges	510.00
TR5W-IRWD-4341	R. Johnston	620.00
TR5W-IRWD-4381	E. Turner	1,022.00
TR5W-IRWD-4383	R. Garcia	768.00
TR5W-IRWD-4503	M. Cahalan	1,256.00
TR5W-IRWD-4556	S. Belardi	1,428.00
TR5W-IRWD-4630	D. Carroll	546.00
TR5W-IRWD-4687	S. Sawal	1,712.00
TR5W-IRWD-4702	Corte Villa HOA (Tustin)	19,650.00
TR5W-IRWD-4737	M. Kasal	1,366.95
TR5W-IRWD-4814	P. Bellas	1,710.00
TR5W-IRWD-4815	R. Lefton	1,684.00
TR5W-IRWD-4847	P. Kumar	1,674.00
TR5W-IRWD-4858	J. Daly	842.00
TR5W-IRWD-4880	D. Kramer	918.00
TR5W-IRWD-4961	M. Kennedy	1,258.00
TR5W-IRWD-5020	C. Garden	506.00
TR5W-IRWD-5038	K. Juniper	382.00
TR5W-IRWD-5069	J. Vermes	1,038.00
TR5W-IRWD-5167	P. Schaffer	630.00
TR5W-IRWD-5585	B. Freeze	620.00
TR5W-IRWD-5734	R. LaPorte	1,522.00
TR6-IRWD--18	N. Goeres	2,535.00

Municipal Water District of Orange County
Disbursement Approval Report
For the month of October 2015

<i>Invoice#</i>	<i>Vendor / Description</i>	<i>Amount to Pay</i>
TR6-IRWD-6205-6	W. Wang	388.00
TR6-IRWD-7496-22891	T. Stearns	736.00
TR6-IRWD-7928-26182	J. Gillett	1,594.00
TR5W-LH-3006	N. Morales	3,560.00
TR6-LP-6995-8032	D. Exter	1,000.00
TR5-MESA-074	N. Nguyen	800.00
TR5-MESA-076	D. Penfil	4,310.00
TR5W-MESA-2573	M. Longeuay	1,518.00
TR5W-MESA-3485	T. English	2,594.00
TR5W-MESA-3721	C. Markert	2,178.00
TR5W-MESA-4003D	R. Groves	812.00
TR5W-MESA-4927	J. Normandin	1,960.00
TR5-MNT-171	J. Skorheim	5,117.50
TR5-MNT-190	Capri HOA (Laguna Niguel)	65,170.91
TR5-MNT-222	C. Dumbadse	615.00
TR5-MNT-230	T. Morgon	1,602.54
TR5W-MNT-1263	S. Shaffie	1,722.00
TR5W-MNT-2488	Seagate Colony HOA (Aliso Viejo)	210,413.50
TR5W-MNT-2622	J. Gulini	1,463.00
TR5W-MNT-3082512	Ridgefield Homeowners Association (Laguna Hills)	42,721.00
TR5W-MNT-3339	K. Rosa	1,181.00
TR5W-MNT-3454	R. Thomas	1,855.00
TR5W-MNT-3523	S. Brecko	6,804.00
TR5W-MNT-3637	B. Rossiter	6,720.00
TR5W-MNT-3779	B. Holstein	2,768.50
TR5W-MNT-3789	J. Champlin	7,160.00
TR5W-MNT-4048	R. Grenier	4,870.00
TR5W-MNT-4189	M. Fitzgerald	5,285.00
TR5W-MNT-4223	M. Scott	9,570.00
TR5W-MNT-4304	S. Borrit-Hansen	1,393.00
TR5W-MNT-4322	G. McDowell	2,380.00
TR5W-MNT-4325	T. Nguyen	2,729.00
TR5W-MNT-4426	A. Wu	3,122.00
TR5W-MNT-4427	D. Paulson	6,973.50
TR5W-MNT-4607	R. Bruce	1,470.00
TR5W-MNT-4675	F. Jalalian	2,124.50
TR5W-MNT-4926	J. Dickinson	329.56
TR5W-MNT-5225	E. Hauschka	450.00
TR5W-NWPT-3461	North Bluff Villa Community Association (Newport Beach)	8,986.00
TR5-O-082	H. Lynn	2,376.00
TR5W-O-4352	E. Means	3,166.00
TR6-SB-6582-835	M. Goldsmith	1,200.00
TR6-SB-7326-4648	C. Palmer	800.00
TR5-SC-109	M. Redfield	696.00
TR5W-SC-3463	M. Klasna	2,316.00
TR5W-SC-3799	S. Fauchier	958.00
TR5W-SC-4007	A. Zintsmaster	1,928.00

Municipal Water District of Orange County
Disbursement Approval Report
For the month of October 2015

<i>Invoice#</i>	<i>Vendor / Description</i>	<i>Amount to Pay</i>
TR5W-SC-4747	H. Johnson	1,428.00
TR5W-SC-5152	K. Stephenson	490.00
TR6-SC-6555-2057	F. Olsen	580.00
TR5-SJC-061	T. Ury	824.00
TR5W-SJC-4091	S. Telepman	2,898.00
TR5-SM-178	Marbella Maintenance (Rancho Santa Margarita)	4,183.00
TR5W-SM-3754	E. Davis	4,142.00
TR5W-SM-3820	R. & M. Holtman	2,872.00
TR5W-SM-4019	C. Cassidy	1,708.00
TR5W-SM-4036	B. Sahajevs	872.00
TR5W-SM-4240D	C. Boncich	804.00
TR5W-SM-4365	B. Feuchter	7,538.00
TR5W-SM-4375	J. Ittel	1,478.00
TR5W-SM-4442	S. Newnum	1,580.00
TR5W-SM-4480	J. Dombrower	810.00
TR5W-SM-4498	D. Rocha	638.00
TR5W-SM-4530	J. Ishii	1,156.00
TR5W-SM-4632	S. Jonnaert	1,996.24
TR5W-SM-4698	A. Bezuidenhout	796.00
TR5W-SM-4715	J. Valley	662.00
TR5W-SM-5604	R. Gloss	5,210.00
TR5W-SM-5695	N. Brekke	2,912.00
TR5W-SM-5739	C. Yang	3,368.00
TR5W-SM-5839	B. Kelly	2,368.00
TR6-SM-5885-20	A. Burton	1,586.00
TR6-SM-6571-2	G. Springer	1,680.00
TR6-SM-6790-25075	P. Veravanich	1,034.00
TR6-SM-7234-60	A. Peterson	688.00
TR6-SM-7383-6	J. Keenan	2,394.00
TR6-SM-7734-22442	B. Way	944.00
TR6-SM-7968-9	K. Fawcett	1,946.00
TR6-SM-8040-50	R. White	294.00
TR6-SM-9797-22	M. Stanitsas	460.00
TR5-SOCO-083	R. Restadius	4,140.00
TR5-SOCO-085	K. Luna	962.00
TR5-SOCO-090	E. Rosemann	834.00
TR5-SOCO-091	B. Ledwin	1,014.00
TR5-SOCO-100	W. Tally	3,236.00
TR5-SOCO-102	D. O'Hearn	732.00
TR5-SOCO-109	M. Ehrhart	2,690.00
TR5W-SOCO-3855	J. Walsh	600.00
TR5W-SOCO-4080	J. Percival	2,208.00
TR5W-SOCO-4105	J. Juric	1,882.00
TR5W-SOCO-4193	A. Rubalcava	828.00
TR5W-SOCO-4363	L. Zaccaro	1,166.00
TR5W-SOCO-4593	T. Merrick	1,216.00
TR5W-SOCO-5074	S. Pebley	1,208.00

Municipal Water District of Orange County
Disbursement Approval Report
For the month of October 2015

<i>Invoice#</i>	<i>Vendor / Description</i>	<i>Amount to Pay</i>
TR5W-SOCO-5796	J. Bhatt	1,838.00
TR5W-SOCO-5826	K. Abarca	1,270.00
TR5W-SOCO-5867	B. Smith	5,880.00
TR6-SOCO-8230-33211	R. Bemoll	1,426.00
TR5-SWD-010	M. Stephens	6,116.00
TR5W-SWD-4862	E. Calvin	2,232.00
TR5W-SWD-5048	R. Grant	4,624.00
TR5W-SWD-5481	J. Kim	3,024.00
TR6-SWD-7333-18622	F. Robitaille	980.00
TR5-TC-007	Rancho Cielo HOA (Trabuco Canyon)	33,928.00
TR5W-TC-5507	R. Starr	1,203.75
TR6-TC-9110-32962	H. Michalski	1,526.00
TR5-TUST-023	M. Holm	1,934.00
TR5W-TUST-4046	C. Cowdell	3,866.00
TR5W-TUST-4688D	S. Park	2,392.00
TR5W-TUST-4955	R. Le	1,546.00
TR6-TUST-7575-14232	Irvine Ranch Water District (Tustin)	3,400.00
TR5W-WEST-4463	D. Case	1,484.00
TR6-WEST-6596-5371	C. Whitaker	658.00
TR5W-YLWD-2678	T. Schennum	374.00
TR5W-YLWD-3677	S. Schwartz	2,220.00
TR5W-YLWD-4014D	J. Santos	6,690.00
TR5W-YLWD-4018	M. Van Berkel	3,588.00
TR5W-YLWD-4419	T. Livdahl	4,316.00
TR5W-YLWD-4483	T. Proctor	1,166.00
TR5W-YLWD-5006	D. Nguyen	2,150.00
TR5W-YLWD-5156	T. Cuculic	952.00
TR5W-YLWD-5202	S. Grandey	3,164.00
TR5W-YLWD-5665	J. Newell	6,000.00
TR5-YLWD-063	R. Nicholl	5,990.00
	*** Total ***	1,986,457.61
	Total Other Funds Expenditures	2,115,443.49
	Total Expenditures	2,273,844.80

**Municipal Water District of Orange County
Disbursement Ratification Report
For the month of September 2015**

<i>Check #</i>	<i>Date</i>	<i>Vendor # Invoice/CM #</i>	<i>Name / Description</i>	<i>Net Amount</i>
Core Disbursements:				
129753	9/4/15	TIMEWA 5210-SEP15	Time Warner Cable September 2015 Telephone and internet expense	1,570.32
			***Total ***	1,570.32
129755	9/4/15	VERIZO 9751192087	Verizon Wireless August 2015 4G Mobile broadband unlimited service	126.35
			***Total ***	126.35
129756	9/15/15	ACKEEX 083115	Linda Ackerman August 2015 Business Expense	48.30
			***Total ***	48.30
129761	9/15/15	DELAGE 46796724	De Lage Landen Public Finance September 2015 Canon copier lease	509.00
			***Total ***	509.00
129764	9/15/15	IRONMO LVB5698	Iron Mountain September 2015 Storage/retrieval of archived document	454.94
			***Total ***	454.94
129766	9/15/15	LYONKE 083115	Keith Lyon July 2015 Business expense	64.69
			***Total ***	64.69
129769	9/15/15	OSBORN 083115	Wayne S. Osborne August 2015 Business expense	110.40
			***Total ***	110.40
129774	9/15/15	TIMEWA 3564-SEP15	Time Warner Cable September 2015 Telephone expense for 4 analog fax lines	141.89
			***Total ***	141.89
ACH001643	9/15/15	BACATI 083115	Tiffany Baca July-August 2015 Business expense	351.45
			***Total ***	351.45
ACH001644	9/15/15	BARBRE 083115	Brett Barbre August 2015 Business expense	199.53
			***Total ***	199.53

**Municipal Water District of Orange County
Disbursement Ratification Report
For the month of September 2015**

<i>Check #</i>	<i>Date</i>	<i>Vendor # Invoice/CM #</i>	<i>Name / Description</i>	<i>Net Amount</i>
ACH001648	9/15/15	DICKEX 083115	Larry Dick August 2015 Business Expense ***Total ***	100.65 100.65
ACH001670	9/15/15	THOMAS 083115	Jeffery Thomas August 2015 Business Expense ***Total ***	180.55 180.55
130022	9/30/15	C3OFFI INV41794	C3 Office Solutions LLC September 2015 Canon copier maintenance ***Total ***	336.73 336.73
130026	9/30/15	DINHPA 083115	Patrick Dinh August 2015 Business expense ***Total ***	23.00 23.00
130033	9/30/15	TAMARI 083115	Satoru Tamaribuchi August 2015 Business expense ***Total ***	236.46 236.46
130034	9/30/15	THOMAST 083115	Trevor Thomas August 2015 Business expense ***Total ***	26.11 26.11
130035	9/30/15	USBANK 5783/6533-AUG15	U.S. Bank 7/22/15-8/24/15 Cal Card charges ***Total *** (See attached sheet for details)	10,369.96 10,369.96
ACH001676	9/30/15	BERGJO 083015	Joseph Berg August 2015 Business expense ***Total ***	247.91 247.91
ACH001677	9/30/15	CHUMPI 083015	Hilary Chumpitazi July-August 2015 Business expense ***Total ***	29.90 29.90
ACH001679	9/30/15	HINMAN 083015	Susan Hinman August 2015 Business expense ***Total ***	120.32 120.32
Total Core Disbursements				15,248.46

**Municipal Water District of Orange County
Disbursement Ratification Report
For the month of September 2015**

Check #	Date	Vendor # Invoice/CM #	Name / Description	Net Amount
Choice Disbursements:				
130032	9/30/15	SDGE 7768-SEP15	San Diego Gas and Electric 8/19/15-9/20/15 Electrical service for Doheny Ocean Desal project ***Total ***	304.72 304.72
130035	9/30/15	USBANK 5783-AUG15	U.S. Bank 7/21/15-8/24/15 Cal Card charges ***Total *** (See attached sheet for details)	341.71 341.71
Total Choice Disbursements				646.43
Other Funds Disbursements:				
129778	9/15/15	ATTUVEOC 8599-SEP15	AT&T September 2015 U-verse internet service for WEORC N. EOC ***Total ***	45.00 45.00
ACH001651	9/15/15	HUBBAR 083115	Kelly Hubbard August 2015 Business expense ***Total ***	156.12 156.12
ACH001669	9/15/15	STOCKB 083115	Brandon Stock August 2015 Business expense ***Total ***	395.51 395.51
130020	9/30/15	ATTEOC 4492-SEP15 8200-SEP15 0532-SEP15	AT&T September 2015 WEROC S. EOC telephone expense September 2015 WEROC N. EOC telephone expense September 2015 WEROC N. EOC dedicated phone line ***Total ***	243.02 177.57 63.44 484.03
130023	9/30/15	CATALI 0011859	Catalina Island Conservancy September 2015 WEROC radio repeater site lease ***Total ***	1,558.54 1,558.54
130035	9/30/15	USBANK 5783-AUG15	U.S. Bank 7/21/15-8/24/15 Cal Card charges ***Total *** (See attached sheet for details)	3,765.70 3,765.70

**Municipal Water District of Orange County
Disbursement Ratification Report
For the month of September 2015**

<i>Check #</i>	<i>Date</i>	<i>Vendor # Invoice/CM #</i>	<i>Name / Description</i>	<i>Net Amount</i>
ACH001684	9/30/15	SANTAM JUL2015	Santa Margarita Water District July 2015 SCP Operation surcharge ***Total ***	 26,810.72 26,810.72
ACH001685	9/30/15	SPRINT 320982721-133	Sprint September 2015 WEROC cell phone expense ***Total ***	 43.08 43.08
WIRE150915	9/30/15	METWAT 8428	Metropolitan Water District July 2015 Water deliveries ***Total ***	 12,884,452.00 12,884,452.00
Total Other Funds Disbursements				12,917,710.70
Total Disbursements				12,933,605.59

Robert J. Hunter, General Manager

Hilary Chumbitazi, Treasurer

Cal Card Statement Detail
Statement Date: August 24, 2015
Payment Date: September 30, 2015

Date	Description	Amount
<u>K. Seckel Card</u>		
07/21/15	Capitol Seminars Lobbying 201 in Sacramento, CA on July 30, 2015 - Airfare for H. Baez	\$ 482.00
07/21/15	ACWA State Legislative Committee meeting in Sacramento, CA on Aug. 28, 2015 - Airfare for H. Baez	462.00
07/22/15	Lunch for Orange County MET managers meeting	230.55
07/22/15	ACWA Region 10 program in Carlsbad, CA on August 14, 2015 - Registration for Director Thomas	50.00
07/23/15	CalDesal Annual conference in Ontario, CA from Oct. 1-2, 2015 - Registration for K. Seckel	225.00
07/24/15	Association of Metropolitan Water Agencies Executive Management conference in Savannah, GA from Oct. 11-14, 2015 - Registration for R. Hunter	795.00
07/26/15	Computer supplies	40.62
07/27/15	International Association of Emergency Managers USA Annual conference in Las Vegas, NV from Nov. 14-18, 2015 - Registration for K. Hubbard	595.00
07/27/15	International Association of Emergency Managers USA Annual conference in Las Vegas, NV from Nov. 14-18, 2015 - Accommodations for K. Hubbard	912.32
07/29/15	Final payment for Dell Latitude E5450 laptop computer	678.89
07/29/15	Staff development lunch	304.36
07/28/15	California Emergency Services Association Annual training & conference in South Lake Tahoe, CA from Sep. 28-Oct. 1, 2015 - Registration for K. Hubbard	625.00
07/29/15	6 Cisco Unified IP phones	1,188.00
08/01/15	FedEx delivery charges for Discovery Science Center on Jul. 29, 2015	15.31
07/31/15	Get well flowers for staff member	61.54
08/01/15	Capitol Seminars Lobbying 201 in Sacramento, CA on July 30, 2015 - Accommodations for H. Baez	188.45
07/31/15	Fee to boost posts on Facebook account	137.71
08/04/15	UPS delivery charges for Board & Committee packets on Jul. 31, 2015	5.95
08/04/15	Annual license fee for Adobe Creative Cloud software - 4 users	2,399.52
08/06/15	California Society of Municipal Finance Officers meeting in Irvine, CA on Aug. 20, 2015 - Registration for H. Chumpitazi	30.00
08/06/15	California Landscape Contractors Association sponsorship	1,200.00
08/08/15	California Emergency Services Association Annual training & conference in South Lake Tahoe, CA from Sep. 28-Oct. 1, 2015 - Registration for B. Stock	625.00

Cal Card Statement Detail
Statement Date: August 24, 2015
Payment Date: September 30, 2015

Date	Description	Amount
08/07/15	American Water Works Association Water Education seminar in Orange, CA on Aug. 12, 2015 - Registration for B. Stock	145.00
08/07/15	1 Samsung Galaxy tablet	202.98
08/10/15	FedEx delivery charges for Board & Committee packets on Aug. 5, 2015	32.32
08/09/15	Monthly license fee for Adobe Creative Cloud software	199.95 ¹
08/11/15	FedEx delivery charges for Board & Committee packets on Aug. 7, 2015	32.32
08/11/15	FY15/16 Membership renewal for Public Agency Risk Managers Association	150.00
08/11/15	UPS delivery charges for Board & Committee packets on Jul. 31, 2015 & Aug. 5, 2015	112.69
08/10/15	California Emergency Services Association Annual training & conference in South Lake Tahoe, CA from Sep. 28-Oct. 1, 2015 - Airfare for B. Stock	372.00
08/11/15	1 TV mount for WEROC S. EOC	43.99
08/18/15	UPS delivery charges for Board & Committee packets on Aug. 7, 2015	45.01
08/17/15	California Emergency Services Association Annual training & conference in South Lake Tahoe, CA from Sep. 28-Oct. 1, 2015 - Airfare for K. Hubbard	289.01
08/21/15	School program lunch meeting	204.00
08/22/15	Get well flowers for staff member	70.18
08/19/15	2 Emergency preparedness books for WEROC	147.50
Total		<u>\$ 13,299.17</u>

¹ Monthly Adobe Creative Cloud license canceled, received refund credit on 9/17/15

R. Hunter Card

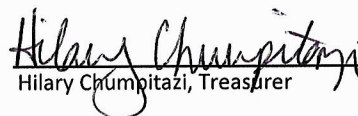
07/23/15-08/24/15	Meals for R. Hunter's meetings on various dates	\$ 188.20
07/28/15	Urban Water Institute Annual Water conference in San Diego, CA from Aug. 26-28, 2015 - Registration for Director Osborne	475.00
08/15/15	MET Agricultural inspection trip from Aug. 14-15, 2015 - Parking for R. Hunter	40.00
08/20/15	Urban Water Institute Annual Water conference in San Diego, CA from Aug. 26-28, 2015 - Registration for Director Thomas	475.00
Total		<u>\$ 1,178.20</u>

Municipal Water District of Orange County
GM Approved Disbursement Report ⁽¹⁾
For the month of September 2015

<i>Check #</i>	<i>Date</i>	<i>Vendor # Invoice/CM #</i>	<i>Name / Description</i>	<i>Net Amount</i>
Core Disbursements:				
130021	9/30/15	AYALAS 091115	Sam Ayala September 2015 Atrium landscape maintenance	95.00
			***Total ***	95.00
			Total Core Disbursements	<u>95.00</u>
Choice Disbursements:				
			Total Choice Disbursements	<u>-</u>
Other Funds Disbursements:				
130027	9/30/15	EAGLEC 713696	Eagle Communications July 2015 Services for WEROC partner agency inspections	2,641.00
			***Total ***	2,641.00
			Total Other Funds Disbursements	<u>2,641.00</u>
			Total Disbursements	<u><u>2,736.00</u></u>



Robert J. Hunter, General Manager



Hilary Chumpitazi, Treasurer

(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.

Municipal Water District of Orange County
WATER USE EFFICIENCY PRO ECTS
Cash Flow as of 9 30 15

Cash - Beginning Balance	Jul 2015	Aug 2015	Sep 2015	Oct 2015	Nov 2015	Dec 2015	Jan 2016	Feb 2016	Mar 2016	Apr 2016	May 2016	Jun 2016	TOTALS
RE ENUES:	(4,386,336.14)	(4,150,715.21)	(866,085.23)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	
BUREC													\$ -
City of Brea	6,999.33	1,934.35	388.42										9,323.10
City of Buena Park	1,212.97	1,886.23	846.00										3,945.20
City of Fountain Valley		150.00											150.00
City of Fullerton	1,995.00	225.00											2,220.00
City of Garden Grove		1,650.00	2,914.00										6,559.00
City of Huntington Beach		325.66	294.00										619.66
City of La Habra	1,050.00	598.53	2,451.89										4,101.42
City of San Clemente	4,925.18		9,585.07										14,513.25
City of San Juan Capistrano	3,344.86	2,142.95											5,487.81
City of Santa Ana		75.00	150.00										225.00
City of Tustin		246.86											246.86
City of Newport Beach		840.00	3,264.97										4,104.97
City of Orange	4,297.93		14,878.13										19,177.06
City of Westminster			75.00										75.00
County of Orange													-
Department of Water Resources		649,130.64	1,824.70										650,955.34
East Orange County Water District													-
El Toro Water District	2,633.00	5,676.22	2,016.61										10,325.83
East Orange County Water District													-
Golden State Water Company	6,555.20	6,985.72	12,246.61										25,787.53
Irvine Ranch Water District	116,113.61	30,550.23	43,139.41										189,803.25
Laguna Beach County Water District	1,840.00	16,506.86	1,259.00										19,605.86
Mesa Water District		75.00	150.00										225.00
Metropolitan Water District	194,847.61	4,001,136.01	434,924.75										4,530,908.37
Moulton Niguel Water District	355,285.60	244,320.71	3,654.58										606,260.89
MWDOC													-
Santa Margarita Water District		1,035.00	458.43										1,493.43
Serrano Water District		75.00											75.00
South Coast Water District													-
Trabuco Canyon Water District	800.00	1,072.37	300.00										2,172.37
Yorba Linda Water District	80.66		517.75										598.41
Miscellaneous Revenues													-
Miscellaneous													-
Interest Revenue													-
Total Revenues	704,980.95	4,966,639.34	535,344.32	-	-	-	-	-	-	-	-	-	\$ 6,206,964.61
EXPENDITURES:													
Aqueduct	1,500.00	1,500.00	1,500.00										4,500.00
Autumn Print Group													-
Conservation Consulting, LLC	7,645.50	7,899.75	7,452.00										22,997.25
City of Newport Beach													-
El Toro WD	28,501.27												28,501.27
Enterprise Information Systems			2,160.00										2,160.00
Golden State Water Company	31,300.00												31,300.00
Irvine Ranch Water District													-
Karen's Detail Custom Frames			48.60										48.60
Laguna Beach CWD	26,036.00												26,036.00
Metropolitan Water District													-
MESA													-
Mission RCD	30,478.31	32,650.22	47,850.46										110,978.99
Public Spaces program													-
Santa Margarita Water District	10,813.50		251,845.00										251,845.00
South Coast Water District	90,048.00												90,048.00
Spray to Drip program	1,557.61		27,688.12										29,245.73
Survey Gismo													-
Turf Removal	253,213.58	1,639,959.39	2,212,359.63										4,105,532.60
US Bank													-
URS													-
Waterwise Consulting													-
Miscellaneous Expenses													-
Interest Expense	3,817.57												3,817.57
Salary & Benefit	4,448.68												4,448.68
Total Expenditures	489,360.02	1,682,009.36	2,550,903.81	-	-	-	-	-	-	-	-	-	\$ 4,722,273.19
Cash - Ending Balance	(4,150,715.21)	(866,085.23)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	(2,881,644.72)	



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

August 30, 2015

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

Larry D. Dick
President
Wayne S. Osborne
Vice President
Brett R. Barbre
Director
Joan C. Finnegan
Director
Susan Hinman
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	\$2,243,422	13.02%
Grant & Project Cash Flow	1,000,000	5.80%
Building Repair	239,491	1.39%
Total Designated Reserves	3,482,913	20.21%
General Fund	7,937,921	46.07%
Water Fund	6,376,653	37.01%
Conservation Fund	(866,085)	(5.03%)
Desalination Feasibility Study Fund	222,385	1.29%
WEROC Fund	64,565	0.38%
Trustee Activities	12,459	0.07%
Total	\$17,230,811	100.00%

The funds are invested as follows:

Term of Investment	% of Portfolio	Book Value	Market Value
Cash	2.18%	\$374,924	\$374,924
Short-term investment			
• LAIF	30.70%	\$5,290,121	\$5,290,121
• OCIP	49.12%	8,465,610	8,465,610
Long-term investment			
• Misc. Securities	7.26%	1,250,156	1,256,720
• Certificates of Deposit	9.29%	1,600,000	1,599,040
• Federal Agency Issues	1.45%	250,000	250,112
Total	100.00%	\$17,230,811	\$17,236,527

The average number of days to maturity/call as of August 30, 2015 equaled 96 and the average yield to maturity is 0.756%. During the month, the District's average daily balance was \$21,403,565.24. 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 2015.

The \$5,716 difference between the book value and the market value on August 30, 2015 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



Portfolio Management - Portfolio Summary August 31, 2015

8/31/2015	Par Value	Market Value	Book Value	% of Portfolio	Days to Mat/Call	YTM @ Cost
Certificates of Deposit - Bank	1,600,000.00	1,599,040.00	1,600,000.00	9.49	942	1.495
Federal Agency Issues - Step Up	250,000.00	250,112.50	250,000.00	1.48	24	1.609
Local Agency Investment Funds	5,290,121.39	5,290,121.39	5,290,121.39	31.38	1	0.330
Miscellaneous Securities - Coupon	1,250,000.00	1,256,720.00	1,250,155.96	7.42	79	3.206
Orange County Investment Pool	8,465,609.95	8,465,609.95	8,465,609.95	50.22	1	0.496
Total Investments	16,855,731.34	16,861,603.84	16,855,887.30	100.00%	96	0.756

Cash						
Passbook Checking	374,923.49	374,923.49	374,923.49		1	0.00
Total Cash and Investments	17,230,654.83	17,236,527.33	17,230,810.79		96	0.756

Total Earnings	Month Ending August	Fiscal Year to Date
Current Year	11,119.33	19,233.55
Average Daily Balance	21,403,565.24	
Effective Rate of Return	0.756%	

We certify 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 the District 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 six month's estimated expenditure. The source for the market values are from Union Bank.


Robert J. Hunter, General Manager

10-8-15

Date


Hilary Chummitaji, Treasurer

10/8/15

Date

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
Portfolio Management
Long-Term Portfolio Details - Investments
August 31, 2015

Issuer	CUSIP/Ticker	Settlement Date	Par Value	Market Value	Book Value	Coupon Rate	YTM @ Cost	Days To Call/Maturity	Maturity Date
Certificate of Deposit - Bank									
Ally Bank	02006LFV0	7/23/2014	250,000.00	249,867.50	250,000.00	1.150	1.150	693	7/24/2017
American Express Bank	02587CEA4	7/29/2015	250,000.00	249,897.50	250,000.00	1.450	1.450	882	1/29/2018
Capital One Bank	140420TY6	8/5/2015	250,000.00	249,457.50	250,000.00	1.700	1.700	1071	8/6/2018
Discover Bank	2546712Y5	7/23/2014	250,000.00	249,387.50	250,000.00	1.600	1.600	1057	7/23/2018
GE Capital Bank	36163FJC8	7/25/2014	250,000.00	249,860.00	250,000.00	1.200	1.200	694	7/25/2017
Goldman Sachs Bank	38143A4T9	1/23/2013	100,000.00	100,290.00	100,000.00	1.050	1.050	511	1/23/2017
Synchrony Bank	87164XBY1	7/25/2014	250,000.00	250,280.00	250,000.00	2.050	2.050	1429	7/30/2019
Sub Total			1,600,000.00	1,599,040.00	1,600,000.00	1.495	1.495	942	
Miscellaneous Securities - Coupon									
Bank of America	06051GED7	10/14/2010	250,000.00	250,000.00	250,004.42	3.700	3.000	1	9/1/2015
MetLife Global	59217GAD1	2/25/2011	500,000.00	504,425.00	500,197.89	3.125	3.007	133	1/11/2016
Morgan Stanley	61747YCT0	3/9/2011	500,000.00	502,295.00	499,953.65	3.450	3.508	63	11/2/2015
Sub Total			1,250,000.00	1,256,720.00	1,250,155.96	3.370	3.206	79	
Sub Total / Average									
Federal Home Ln Mtg Corp	3134G66U2	6/24/2015	250,000.00	250,112.50	250,000.00	0.750	1.609	24	9/24/2018
Sub Total			250,000.00	250,112.50	250,000.00	0.75	1.609	24	
Total Investments			3,100,000.00	3,105,872.50	3,100,155.96	2.191	2.194	520	

Total Earnings		Month Ending August	Fiscal Year To Date
Current Year		5,480.11	10,700.01

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
Portfolio Management
Short-Term Portfolio Details - Cash and Investments
August 31, 2015

Investments	CUSIP/Tricker	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	5,290,121.39	5,290,121.39	5,290,121.39	0.330	0.330	1	N/A
Sub Total			5,290,121.39	5,290,121.39	5,290,121.39	0.330	0.330	1	
Orange County Investment Pool									
County of Orange LGIP	OCIP	6/29/2005	8,465,609.95	8,465,609.95	8,465,609.95	0.496	0.496	1	N/A
Sub Total			8,465,609.95	8,465,609.95	8,465,609.95	0.496	0.496	1	
Total Investments			13,755,731.34	13,755,731.34	13,755,731.34	0.432	0.432		
Passbook Checking									
Bank of America Cash	CASH0547	7/1/2011	374,423.49	374,423.49	374,423.49	0.000	0.000	1	N/A
Petty Cash Cash	CASH	7/1/2011	500.00	500.00	500.00	0.000	0.000	1	N/A
Total Cash			374,923.49	374,923.49	374,923.49	0.000	0.000	1	
Total Cash and Investments			14,130,654.83	14,130,654.83	14,130,654.83	0.432	0.432	1	
Total Earnings									
Current Year			5,639.22		8,533.54				

**Municipal Water District of Orange County
Cash and Investments at August 31, 2015**

ALLOCATION	AMOUNT	%
MWDOC		
Designated Reserves		
General	\$ 2,243,422	13.02%
Grant & Project Cash Flow	1,000,000	5.80%
Building Repair	239,491	1.39%
Total Designated Reserves	3,482,913	20.21%
General	7,937,921	46.07%
Water	6,376,653	37.01%
Conservation	(866,085)	-5.03%
Desalination Feasibility Study	222,385	1.29%
WEROC	64,565	0.38%
TOTAL MWDOC	\$ 17,218,352	99.93%
TRUSTEE ACTIVITIES		
AMP Sales Admin	\$ 12,459	0.07%
TOTAL TRUSTEE ACTIVITIES	\$ 12,459	0.07%
TOTAL CASH & INVESTMENTS	\$ 17,230,811	100.00%



**Municipal Water Dist of Orange County
PARS OPEB Trust Program****Monthly Account Report for the Period
8/01/2015 to 8/31/2015**

Rob Hunter
General Manager
Municipal Water Dist of Orange County
18700 Ward Street
Fountain Valley, CA 92708

Account Summary

Source	Beginning Balance as of 8/01/2015	Contributions	Earnings	Expenses*	Distributions	Transfers	Ending Balance as of 8/31/2015
Contributions	\$1,298,014.44	\$0.00	(\$41,951.36)	\$556.25	\$0.00	\$0.00	\$1,255,506.83
Totals	\$1,298,014.44	\$0.00	(\$41,951.36)	\$556.25	\$0.00	\$0.00	\$1,255,506.83

Investment Selection

Moderate HighMark PLUS

Investment Objective

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						Plan's Inception Date
1-Month	3-Month	1-Year	3-Years	5-Years	10-Years	
-3.23%	-3.33%	-0.23%	7.23%	-	-	10/26/2011

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.

*Expenses are inclusive of Trust Administration, Trustee and Investment Management fees

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
COMBINED FINANCIAL STATEMENTS
AND
BUDGET COMPARATIVE
JULY 1, 2015 THRU AUGUST 31, 2015

**Municipal Water District of Orange County
Combined Balance Sheet
As of August 31, 2015**

<u>ASSETS</u>	Amount
Cash in Bank	374,923.49
Investments	16,855,887.30
Accounts Receivable	25,008,869.87
Accounts Receivable - Other	199,513.18
Accrued Interest Receivable	22,802.47
Prepays/Deposits	592,875.81
Leasehold Improvements	3,026,974.08
Furniture, Fixtures & Equipment	436,910.44
Less: Accum Depreciation	(2,536,642.37)
Net OPEB Asset	92,806.00
	<hr/>
TOTAL ASSETS	\$44,074,920.27
	<hr/>
<u>LIABILITIES AND FUND BALANCES</u>	
Liabilities	
Accounts Payable	25,701,916.60
Accounts Payable - Other	1,220.64
Accrued Salaries and Benefits Payable	345,058.81
Other Liabilities	2,964,406.53
Unearned Revenue	2,302,261.15
Total Liabilities	31,314,863.73
	<hr/>
Fund Balances	
Restricted Fund Balances	
Water Fund - T2C	957,552.43
Total Restricted Fund Balances	957,552.43
	<hr/>
Unrestricted Fund Balances	
Designated Reserves	
General Operations	2,336,227.66
Grant & Project Cash Flow	1,000,000.00
Building Repair	239,491.00
Total Designated Reserves	3,575,718.66
	<hr/>
GENERAL FUND	2,515,114.12
WEROC	83,059.22
Total Unrestricted Fund Balances	6,173,892.00
	<hr/>
Excess Revenue over Expenditures	
Operating Fund	5,660,000.96
Other Funds	(31,388.84)
Total Fund Balance	12,760,056.55
	<hr/>
TOTAL LIABILITIES AND FUND BALANCES	\$44,074,920.27
	<hr/>

Municipal Water District of Orange County
Revenues and Expenditures Budget Comparative Report
General Fund
From July thru August 2015

	Month to Date	Year to Date	Annual Budget	% Used	Encumbrance	Budget Remaining
<u>REVENUES</u>						
Retail Connection Charge	0.00	6,686,659.70	6,687,322.00	99.99%	0.00	662.30
Water rate revenues	0.00	6,686,659.70	6,687,322.00	99.99%	0.00	662.30
Interest Revenue	11,934.15	21,074.87	117,675.00	17.91%	0.00	96,600.13
Subtotal	11,934.15	6,707,734.57	6,804,997.00	98.57%	0.00	97,262.43
Choice Programs	0.00	0.00	1,302,619.00	0.00%	0.00	1,302,619.00
Choice Prior Year Carry Over	0.00	0.00	243,338.00	0.00%	0.00	243,338.00
Miscellaneous Income	45,552.05	45,552.05	3,000.00	1518.40%	0.00	(42,552.05)
School Contracts	0.00	0.00	70,000.00	0.00%	0.00	70,000.00
Delinquent Payment Penalty	173.98	173.98	0.00		0.00	(173.98)
Transfer-Out To Reserve	0.00	0.00	(64,424.00)	0.00%	0.00	(64,424.00)
Subtotal	45,726.03	45,726.03	1,554,533.00	2.94%	0.00	1,508,806.97
TOTAL REVENUES	57,660.18	6,753,460.60	8,359,530.00	80.79%	0.00	1,606,069.40

Municipal Water District of Orange County
Revenues and Expenditures Budget Comparative Report
General Fund
From July thru August 2015

	Month to Date	Year to Date	Annual Budget	% Used	Encumbrance	Budget Remaining
<u>EXPENSES</u>						
Salaries & Wages	309,948.02	495,082.18	3,309,949.00	14.96%	0.00	2,814,866.82
Salaries & Wages - Grant Recovery	0.00	(3,425.48)	(23,500.00)	14.58%	0.00	(20,074.52)
Directors' Compensation	15,393.00	29,759.80	220,588.00	13.49%	0.00	190,828.20
MWD Representation	8,209.60	18,471.60	126,050.00	14.65%	0.00	107,578.40
Employee Benefits	61,957.99	123,323.68	863,069.00	14.29%	0.00	739,745.32
OPEB Annual Contribution	0.00	0.00	105,188.00	0.00%	0.00	105,188.00
Employee Benefits - Grant Recovery	0.00	(1,023.20)	0.00	0.00%	0.00	1,023.20
Director's Benefits	4,897.98	9,863.53	60,024.00	16.43%	0.00	50,160.47
Health Ins \$'s for Retirees	2,671.88	6,815.62	50,387.00	13.53%	0.00	43,571.38
Training Expense	0.00	0.00	18,000.00	0.00%	1,397.50	16,602.50
Tuition Reimbursement	0.00	0.00	5,000.00	0.00%	0.00	5,000.00
Personnel Expenses	403,078.47	678,867.73	4,734,755.00	14.34%	1,397.50	4,054,489.77
Engineering Expense	0.00	28,992.23	300,000.00	9.66%	122,658.21	148,349.56
Legal Expense	22,448.86	38,090.39	355,000.00	10.73%	301,909.61	15,000.00
Audit Expense	6,300.00	12,300.00	23,000.00	53.48%	6,137.00	4,563.00
Professional Services	49,591.81	157,552.14	1,541,837.00	10.22%	379,496.57	1,004,788.29
Professional Fees	78,340.67	236,934.76	2,219,837.00	10.67%	810,201.39	1,172,700.85
Conference-Staff	1,060.00	1,310.00	19,450.00	6.74%	0.00	18,140.00
Conference-Directors	1,000.00	2,996.00	9,800.00	30.57%	0.00	6,804.00
Travel & Accom.-Staff	1,371.98	3,037.42	56,510.00	5.38%	0.00	53,472.58
Travel & Accom.-Directors	0.00	567.27	27,600.00	2.06%	0.00	27,032.73
Travel & Conference	3,431.98	7,910.69	113,360.00	6.98%	0.00	105,449.31
Membership/Sponsorship	6,350.00	43,502.26	103,961.00	41.84%	0.00	60,458.74
CDR Support	9,934.88	9,934.88	39,740.00	25.00%	29,804.62	0.50
Dues & Memberships	16,284.88	53,437.14	143,701.00	37.19%	29,804.62	60,459.24
Business Expense	418.75	899.19	6,800.00	13.22%	0.00	5,900.81
Maintenance Office	3,648.36	11,961.34	126,670.00	9.44%	97,058.66	17,650.00
Building Repair & Maintenance	507.64	1,456.91	11,000.00	13.24%	9,543.09	0.00
Storage Rental & Equipment Lease	963.94	1,927.88	19,000.00	10.15%	16,072.12	1,000.00
Office Supplies	2,697.72	5,898.60	29,400.00	20.06%	2,953.34	20,548.06
Postage/Mail Delivery	558.26	1,371.96	11,285.00	12.16%	1,707.97	8,205.07
Subscriptions & Books	0.00	0.00	2,060.00	0.00%	0.00	2,060.00
Reproduction Expense	49.50	140.11	70,010.00	0.20%	1,000.00	68,869.89
Maintenance-Computers	564.07	1,311.55	7,100.00	18.47%	2,199.76	3,588.69
Software Purchase	2,399.52	2,519.49	18,500.00	13.62%	0.00	15,980.51
Software Support	10,315.92	15,173.70	34,000.00	44.63%	0.00	18,826.30
Computers and Equipment	10,712.11	13,571.32	21,150.00	64.17%	0.00	7,578.68
Automotive Expense	1,069.25	2,076.31	13,500.00	15.38%	0.00	11,423.69
Toll Road Charges	20.18	39.62	1,275.00	3.11%	0.00	1,235.38
Insurance Expense	8,089.68	16,179.36	96,000.00	16.85%	0.00	79,820.64
Utilities - Telephone	1,283.76	2,501.50	15,650.00	15.98%	0.00	13,148.50
Bank Fees	871.85	1,696.56	17,900.00	9.48%	0.00	16,203.44
Miscellaneous Expense	4,873.26	6,906.22	98,770.00	6.99%	0.00	91,863.78
MWDOC's Contrb. To WEROC	11,817.25	23,634.50	141,807.00	16.67%	0.00	118,172.50
Depreciation Expense	1,000.37	2,000.71	0.00	0.00%	0.00	(2,000.71)
Other Expenses	61,861.39	111,266.83	741,877.00	15.00%	130,534.94	500,075.23
MWDOC's Building Expense	0.00	5,042.50	400,000.00	1.26%	7,437.50	387,520.00
Capital Acquisition	0.00	0.00	6,000.00	0.00%	0.00	6,000.00
TOTAL EXPENSES	562,997.39	1,093,459.65	8,359,530.00	13.08%	979,375.95	6,286,694.40
NET INCOME (LOSS)	(505,337.21)	5,660,000.95	0.00			

Municipal Water District of Orange County
Revenues and Expenditures Budget Comparative Report
Water Fund
From July thru August 2015

	Month to Date	Year to Date	Annual Budget	% Used	Budget Remaining
<u>WATER REVENUES</u>					
Water Sales	12,292,640.50	24,142,876.50	139,025,078.00	17.37%	114,882,201.50
Readiness to Serve Charge	1,100,435.75	2,200,871.50	13,214,277.00	16.66%	11,013,405.50
Capacity Charge CCF	368,705.00	737,410.00	4,424,460.00	16.67%	3,687,050.00
SCP Surcharge	28,192.08	55,002.80	380,000.00	14.47%	324,997.20
Interest	306.14	602.04	2,900.00	20.76%	2,297.96
TOTAL WATER REVENUES	13,790,279.47	27,136,762.84	157,046,715.00	17.28%	129,909,952.16
<u>WATER PURCHASES</u>					
Water Sales	12,292,640.50	24,142,876.50	139,025,078.00	17.37%	114,882,201.50
Readiness to Serve Charge	1,100,435.75	2,200,871.50	13,214,277.00	16.66%	11,013,405.50
Capacity Charge CCF	368,705.00	737,410.00	4,424,460.00	16.67%	3,687,050.00
SCP Surcharge	28,192.08	55,002.80	380,000.00	14.47%	324,997.20
TOTAL WATER PURCHASES	13,789,973.33	27,136,160.80	157,043,815.00	17.28%	129,907,654.20
EXCESS OF REVENUE OVER EXPENDITURES	306.14	602.04	2,900.00		

Municipal Water District of Orange County
WUE Revenues and Expenditures (Actuals vs Budget)
From July thru August 2015

	Year to Date Actual	Annual Budget	% Used
Landscape Performance Certification			
Revenues	5,659.60	118,900.00	4.76%
Expenses	<u>9,780.00</u>	<u>118,900.00</u>	8.23%
Excess of Revenues over Expenditures	(4,120.40)	0.00	
SmarTimer Program			
Revenues	226.63	0.00	0.00%
Expenses	<u>0.00</u>	<u>0.00</u>	0.00%
Excess of Revenues over Expenditures	226.63	0.00	
Industrial Water Use Reduction			
Revenues	0.00	91,236.00	0.00%
Expenses	<u>48.60</u>	<u>91,236.00</u>	0.05%
Excess of Revenues over Expenditures	(48.60)	0.00	
Spray To Drip Conversion			
Revenues	0.00	57,109.58	0.00%
Expenses	<u>1,657.00</u>	<u>57,109.58</u>	2.90%
Excess of Revenues over Expenditures	(1,657.00)	0.00	
Water Smart Landscape for Public Property			
Revenues	0.00	137,871.04	0.00%
Expenses	<u>0.00</u>	<u>137,871.04</u>	0.00%
Excess of Revenues over Expenditures	0.00	0.00	
Member Agency Administered Passthru			
Revenues	0.00	627,000.00	0.00%
Expenses	<u>0.00</u>	<u>627,000.00</u>	0.00%
Excess of Revenues over Expenditures	0.00	0.00	
ULFT Rebate Program			
Revenues	106,089.34	658,000.00	16.12%
Expenses	<u>113,914.16</u>	<u>658,000.00</u>	17.31%
Excess of Revenues over Expenditures	(7,824.82)	0.00	
HECW Rebate Program			
Revenues	87,138.51	696,000.00	12.52%
Expenses	<u>82,091.80</u>	<u>696,000.00</u>	11.79%
Excess of Revenues over Expenditures	5,046.71	0.00	
CII Rebate Program			
Revenues	10,650.00	509,000.00	2.09%
Expenses	<u>0.00</u>	<u>509,000.00</u>	0.00%
Excess of Revenues over Expenditures	10,650.00	0.00	
Large Landscape Survey			
Revenues	1,891.78	85,000.00	2.23%
Expenses	<u>0.00</u>	<u>85,000.00</u>	0.00%
Excess of Revenues over Expenditures	1,891.78	0.00	
Indoor-Outdoor Survey			
Revenues	939.63	6,800.00	13.82%
Expenses	<u>0.00</u>	<u>6,800.00</u>	0.00%
Excess of Revenues over Expenditures	939.63	0.00	
Turf Removal Program			
Revenues	1,969,771.38	19,075,000.00	10.33%
Expenses	<u>1,938,803.74</u>	<u>19,075,000.00</u>	10.16%
Excess of Revenues over Expenditures	30,967.64	0.00	

Municipal Water District of Orange County
WUE & Other Funds Revenues and Expenditures (Actuals vs Budget)
From July thru August 2015

	Year to Date Actual	Annual Budget	% Used
Comprehensive Landscape (CLWUE)			
Revenues	4,816.71	281,926.00	1.71%
Expenses	6,309.76	281,926.00	2.24%
Excess of Revenues over Expenditures	<u>(1,493.05)</u>	<u>0.00</u>	
Home Certification and Rebate			
Revenues	7,349.30	210,205.00	3.50%
Expenses	22,454.65	210,205.00	10.68%
Excess of Revenues over Expenditures	<u>(15,105.35)</u>	<u>0.00</u>	
CII, Large Landscape, Performance (OWOW)			
Revenues	4,448.68	138,725.00	3.21%
Expenses	7,107.88	138,725.00	5.12%
Excess of Revenues over Expenditures	<u>(2,659.20)</u>	<u>0.00</u>	
WEROC			
Revenues	23,634.50	283,614.00	8.33%
Expenses	49,561.18	278,613.00	17.79%
Excess of Revenues over Expenditures	<u>(25,926.68)</u>	<u>5,001.00</u>	
WUE Projects			
Revenues	2,198,981.56	22,692,772.62	9.69%
Expenses	2,182,167.59	22,692,772.62	9.62%
Excess of Revenues over Expenditures	<u>16,813.97</u>	<u>0.00</u>	
RPOI Distributions			
Revenues	0.00	4,823.00	0.00%
Expenses	0.00	4,823.00	0.00%
Excess of Revenues over Expenditures	<u>0.00</u>	<u>0.00</u>	



ACTION ITEM
October 21, 2015

TO: Administration Finance Committee

FROM: Robert Hunter, General Manager

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

SUB ECT: Consumer Driven Health Plans (CDHP) Benefit Plan Offerings for 2016

STAFF RECOMMENDATION

It is recommended that the Board of Directors authorize:

- 1) the addition of the Anthem and Kaiser CDHP to the options available to eligible participants for health insurance; and,
- 2) the General Manager to notify the Joint Powers Insurance Authority of the District's intent to add the CDHP to its current benefit offerings; and
- 3) the implementation of a Health Savings Account (HSA) for participants enrolled in the CDHP; and,
- 4) it is recommended that the Board of Directors determine the frequency of contributions to the participant's Health Savings Account (e.g., annual, semi-annual, monthly payroll); and
- 5) District contributions to the employee Health Savings Accounts as listed in **Table 1**; and
- 6) the implementation of a limited purpose benefits plan for participants who elect the CDHP. Per IRS guidelines, participants in the CDHP may not have access to a traditional Flexible Spending Plan, therefore a "limited purpose" account would be offered to allow employees to voluntarily set funds aside on a pre-tax basis via payroll deductions for eligible dental and vision expenses.

COMMITTEE RECOMMENDATION

Committee recommends (to be determined at Committee meeting)

Budgeted (Y N): N	Budgeted amount: 0	Core <u>X</u>	Choice
Action item amount: 0	Line item:		
Fiscal Impact (explain if unbudgeted): Fiscal impact unknown at this time however will be identified after open enrollment.			

DETAILED REPORT

Background:

As follow-up to the information presented at the September 9, 2015 Administration & Finance Committee and discussion at the September 17th Executive Committee, the District proposes to offer participation in two account based health plans (Anthem and Kaiser) to the array of health insurance plans currently available to employees and directors. Information was provided to employees at the recent staff meeting held on September 24th, and a detailed presentation was also provided to staff by JPIA staff on October 8th to review plan features and benefits, and solicit participation.

Retirees can sign up for the High Deductible Plan but if they have Medicare, they can't contribute to the HSA. If they are a pre-65 retiree with Medicare, they can contribute to a HSA. If they contribute on a post-tax basis, they can get the pre-tax benefit when they file their taxes.

JPIA has formulated Health Savings Account (HSA) contributions to maximize interest in participation and potential cost savings to the District and makes the following recommendations:

Table 1			
Plan	Suggested <u>Annual</u> HSA contribution by District (via monthly payroll deposit)		
	Employee only	Employee +1	Family
Anthem	\$1,300	\$2,600	\$2,400
Kaiser	\$1,150	\$2,050	\$2,400

The District contributions to the HSA could be made 1) annually (at the beginning of 2016), 2) semi-annually, or 3) monthly. JPIA recommends making the contributions at the beginning of the first plan year in order to encourage participation to minimize exposure to the participant during the transition to the CDHP. Thereafter, contributions could be made at a frequency as determined by the General Manager.

With the contributions listed in Table 1 above, the following premium savings or (cost) to the District would be realized, per enrollment in the Consumer Directed Health Plans:

Plan	Annual Savings(Cost) to District per Enrollee		
	Employee only	Employee +1	Family
HMO	(849.42)	(2,075.46)	(1,728.19)
PPO	254.77	233.13	1,414.37
Kaiser	7.54	7.85	511.87

Additional costs will be incurred to set up a separate limited flexible spending account (approx. \$3-\$7 per month, per enrollee) for administration of the account.

There is also a potential cost to single employees. The new plan would become the lowest cost plan and thus sets the cost bar for employees in the "single" category. For these employees who do not elect the CDHP, premiums would increase by approximately \$9.00 per month.

Cadillac Tax

Starting in 2018, the Patient Protection and Affordable Care Act will impose an annual 40% excise tax (also known as the Cadillac Tax) on health insurance plans with annual premiums exceeding \$10,200 for individuals, or \$27,500 for a family, to be paid by the insureds. The tax is not imposed on the total cost of the plan, but only the value exceeding the maximum values listed above, which, after 2018, will be adjusted for inflation annually. These costs include any part of a person's income allocated to flexible spending accounts, health reimbursement accounts, and health savings accounts. The tax is intended to reduce overall health care costs; and address the unequal tax benefit of excluding employer-based health insurance coverage from taxes.

Open Enrollment

1. Due to the addition of the CDHP's and the required Board action, the Open Enrollment period will be October 26 – November 13. Any changes to plan elections must be made during this time.



ACTION ITEM
October 21, 2015

TO: Board of Directors

FROM: **Administration Finance Committee**
(Directors Thomas, Osborne, Finnegan)

Robert J. Hunter, General Manager

Staff Contacts: J. Berg, Director of Water Use Efficiency
K. Seckel, Assistant General Manager/District Engineer

SUBJECT: Distribution System Water Loss Control Technical Assistance for Member Agencies

STAFF RECOMMENDATION

Staff recommends the Board of Directors authorize the General Manager to:

1. Enter into a professional services contract, to be renewed annually for up to three years, with Water Systems Optimization, Inc. to:
 - a. Provide technical assistance to member agencies for water loss control, water balances, component analysis, and leak detection (depending upon the number of agencies that participate in this Choice Program opportunity, this contract amount could range up to \$1,253,280 with all 28 member agencies participating), and
 - b. Initiate the establishment of an Orange County Water Loss Control Committee for member agencies as a MWDOC Core Program at an annual cost not to exceed \$55,000.
2. Authorize the General Manager to enter into Choice-based cost-sharing agreements with agencies wishing to access this technical assistance.

COMMITTEE RECOMMENDATION

Committee recommends (To be determined at Committee Meeting)

Budgeted (Y N): No	Budgeted amount: NA	Core <u>X</u>	Choice <u>X</u>
Action item amount: 55,000 (core) and a maximum of 1,253,280 (choice)	Line item:		
Fiscal Impact (explain if unbudgeted): The Water Loss Control Committee component of Task 1 is proposed to be funded by MWDOC as a Core activity. This will be funded through a combination of funds budgeted in Engineering and Water Use Efficiency. Tasks 2-5 are proposed to be funded as a Choice activity by participating member agencies.			

SUMMARY

MWDOC and its member agencies have begun developing their Urban Water Management Plans to be submitted to the California Department of Water Resources (DWR) by July 1, 2016. A recent addition to the Urban Water Management Planning Act, SB 1420, requires water agencies to complete and report a distribution system water balance in their Urban Water Management Plans. The water balance must utilize the American Water Works Association/International Water Association (AWWA/IWA) water balance methodology as defined in the AWWA M36 manual. According to the manual:

The IWA/AWWA Water Audit Method is effective because it features sound, consistent definitions for the major forms of water consumption and water loss encountered in drinking water utilities. It also features a set of rational performance indicators that evaluate utilities on system-specific attributes such as the average pressure in the distribution system and total length of water mains. The format of the water balance of this method is given in **Table 1**.

Table 1: AWWA IWA Water Balance
(all data in volume for the period of reference, typically one year)

System Input Volume (corrected for known errors)	Authorized Consumption	Billed Authorized Consumption	Billed Metered Consumption (including water exported)	Revenue Water
			Billed Unmetered Consumption	
		Unbilled Authorized Consumption	Unbilled Metered Consumption	
			Unbilled Unmetered Consumption	
	Water Losses	Apparent Losses	Unauthorized Consumption	Non-Revenue Water (NRW)
			Customer Metering Inaccuracies	
			Systematic Data Handling Errors	
		Real Losses	Leakage on Transmission and Distribution Mains	
			Leakage and Overflows at Utility's Storage Tanks	
			Leakage on Service Connections up to point of Customer metering	

The performance indicators, shown in **Table 2**, allow water utilities to make a meaningful assessment of their water loss standing, benchmark themselves with other water utilities, and set performance targets. The water audit tells us how much of each type of loss occurs and how much it is costing the water utility. The key concept around this method is that all water is quantified – via measurement or estimate – as either a form of beneficial consumption or as wasteful loss. A cost is placed on each volume component in order to assess its financial impact to the water utility.

Additionally, this legislative cycle SB 555 (Wolk) is on the Governor's desk to be signed into law requiring water agencies to submit a validated distribution system water balance to DWR annually; by October 1, 2017. While “validated” has not yet been defined, DWR is indicating that a technical expert must be used to confirm the basis of all data used in the water balance and to characterize the quality of the data in the water balance. This effort will allow member agencies to be ahead of the curve in responding to this legislation.

Table 2: Performance Indicators for Non-revenue Water and Water Loss

Performance Indicator	Function	Comments
Volume of Non-revenue water as a percentage of system input volume	Financial - Non-revenue water by volume	Can be calculated from a simple water balance; good only as a general financial indicator
Volume of Non-revenue water as a percentage of the annual cost of running the water system	Financial - Non-revenue water by cost	Allows different unit costs for Non-revenue water components
Volume of Apparent Losses per service connection per day	Operational - Apparent Losses	Basic but meaningful indicator once the volume of apparent losses has been calculated or estimated
Real Losses as a percentage of system input volume	Inefficiency of use of water resources	Unsuitable for assessing efficiency of management of distribution systems
Normalized Real Losses - Gallons/service connection/day when the system is pressurized	Operational: Real Losses	Good operational performance indicator for target-setting for real loss reduction
Unavoidable Annual Real Losses (UARL)	$\text{UARL (gallons/day)} = (5.41L_m + 0.15N_c + 7.5L_p) \times P$ <p>where</p> <p>L_m = length of water mains, miles</p> <p>N_c = number of service connections</p> <p>L_p = total length of private pipe, miles = $N_c \times$ average distance from curbstop to customer meter</p> <p>P = average pressure in the system, psi</p>	<p>A theoretical reference value representing the technical low limit of leakage that could be achieved if all of today's best technology could be successfully applied. A key variable in the calculation of the Infrastructure Leakage Index (ILI)</p> <p>It is not necessary that systems set this level as a target unless water is unusually expensive, scarce or both</p>
Infrastructure Leakage Index (ILI)	Operational: Real Losses	Ratio of Current Annual Real Losses (CARL) to Unavoidable Annual Real Losses (UARL); good for operational benchmarking for real loss control.

DETAILED REPORT

Few agencies in Orange County have performed a distribution system water balance using the American Water Works Association/International Water Association (AWWA/IWA) methodology. As a result, staff is offering agencies training and technical assistance to introduce them to the methodology and to provide access to technical experts in the field of water loss control. Training and technical assistance includes the following:

Training -

Training is being provided in the form of workshops to introduce staff to the AWWA/IWA Water Audit Methodology and free water balance software. An introductory workshop was

held August 18, hosted by the City of Huntington Beach. This workshop was sponsored by MWDOC, Southern California Edison, and Cal-Nevada AWWA. More than 30 Orange County retail water agency staff participated in this training. A second, more advanced, workshop is scheduled for January 12 and will be hosted by MWDOC. This workshop will be sponsored by DWR and the California Urban Water Conservation Council (CUWCC). Additional training workshops will be scheduled as needed.

Technical Assistance -

Technical assistance will include one-on-one access to a consultant specializing in water loss control practices. This consultant will work closely with participating retail agencies to establish a Water Loss Control Committee, gather all data needed to complete the AWWA/IWA water balance, complete a real- and apparent-loss component analysis, and then move into leak detection, if determined to be needed. The consultant will work closely with each agency to ensure data integrity is maintained and, where data weaknesses exist, establish controls to improve the data over time. This technical assistance will be graduated depending on each agency's needs, starting with the simple water balance then moving on to real-and apparent-loss component analysis and finally, if needed, leak detection in the field.

Through this three-year effort, it is our intent to build retail agency capability to perform the system audits and water balance on their own while utilizing Performance Indicators to ensure they are within industry standards. As such, the technical assistance will be in the form of "coaching" and "assisting" agencies through the process of data collection and use of the water balance software on their own systems. It is not our intent for the Consultant to collect data and populate the water balance software themselves.

This assistance will be provided using the Choice-based cost-sharing framework for agencies who opt-in to this service. On September 4, 2015, staff released a Request for Proposals (RFP) to 13 consultants with expertise in water loss control. The RFP contained five tasks, as detailed in Exhibit A. The RFP provided for up to three years of technical assistance for retail agencies, to be renewed annually. Proposals were due on October 2, 2015, and a total of four proposals were received. A Proposal Evaluation Committee (Committee) comprised of two MWDOC staff members and two retail agency staff members* was formed to review the proposals. The Committee considered the five selection criteria listed in Table 3. Each criteria was assigned a weighting factor by the Committee, also listed in Table 3, based on the relative importance of each criterion. Each Committee member then assigned a score from 0 to 10 for each criterion. These scores were then multiplied by the weighting factor. The highest possible score is 1,000.

Table 3	
Consultant Selection Criteria and Criteria Weighting	
Selection Criteria	Criteria Weighting Factor
1. Scope of Work and Methodology	25
2. Team Experience and Capabilities	20
3. References	20
4. Schedule	15
5. Proposed budget	20

Aqua Metric limited their proposal to Task 4: Locate and Quantify Leakage. As a result, the Committee assigned a relatively low score. The other three consultants were more responsive to the RFP and Scope of work and were therefore assigned more competitive scores. The Committee found Water Systems Optimization, Inc. (WSO) to meet the selection criteria most comprehensively, including the lowest hourly rates of compensation for the project team. The average Committee member scores of the four proposals are provided in Table 4. For these reasons, the Committee recommends WSO provide the Water Loss Control technical assistance.

Table 4 Proposal Evaluation Results	
Consultant	Average Committee Member Score
Aqua Metric	96
Black & Veatch	703
M.E. Simpson Co, Inc.	749
Water Systems Optimization, Inc.	879

The RFP asked consultants to provide low and high cost estimates for each task to account for the varying levels of technical assistance they thought agencies needed. For example, the low cost estimate would be for an agency that is already familiar with the methodology and has a comprehensive data set and the high cost estimate would be for an agency that is not familiar with the methodology and lacks a comprehensive data set. The task by task cost ranges provide by WSO are provided in Table 5. Agencies will be able to pick and choose the tasks that meet their needs and will also be able to choose a low or high level of technical assistance within each task. This approach allows for maximum flexibility for agencies to customize the level of technical assistance they need.

Table 5 Estimated Cost Ranges for Water Loss Control Task		
Tasks:	WSO Estimated Cost Range	
	Low	High
Task 1 – Project Administration, Reporting, and Water Loss Control Committee Coordination	\$4,581	\$4,581
Task 2 - Technical Assistance for Preparation of “Top-Down” Distribution System Water Audits	\$3,560	\$6,620
Task 3 – Component Analysis: Volume and Value of Real and Apparent Losses	\$17,600	\$29,700
Task 4 – Locate and Quantify Leaks	25 – 50 miles = \$400/mile 50 – 100 miles = \$350/mile 101+ miles = \$300/mile	
Task 5 – Report Preparation	\$4,200	\$8,400

Staff proposes Task 1: Project Administration, Reporting and Water Loss Control Committee Coordination be implemented as a Core activity funded by MWDOC on behalf of all member agencies. This allows agencies that do not access the technical assistance in Tasks 2 – 4 (Distribution System Water Audits, Component Analysis, and Locate and

Quantify Leaks) to participate in and benefit from the establishment of an Orange County Water Loss Control Committee.

Member agencies who choose to access Tasks 2 – 5 would pay for this technical assistance using the Choice Program framework. The cost range is \$25,360 to \$44,760 excluding Task 4: Locate and Quantified Leaks. It's important to note that most agencies will not participate in all task and will therefore have a lower cost than the range provided above.

For purposes of a Board Authorization, staff has estimated a total maximum member agency choice cost of \$1,253,280 which assumes all 28 agencies will participate at the high level of technical assistance. It is not likely all agencies will participate and it is not likely they will all participate at the high level of technical assistance which will result in a lower overall cost. Staff will provide the Board with periodic updates as to how many agencies participate and at what level of technical assistance.

To date, several member agencies have expressed an interest in accessing this technical assistance. Should additional agencies including the cities of Anaheim, Fullerton and Santa Ana request participation, staff will provide updates to the Board. Agencies who have expressed interest include:

1. East Orange County Water District
2. Fountain Valley, City of
3. Garden Grove, City of
4. Golden State Water Company
5. Huntington Beach, City of
6. Irvine Ranch Water District*
7. Laguna Beach County Water District
8. Mesa Water*
9. Newport Beach, City of
10. South Coast Water District
11. Trabuco Canyon Water District
12. Tustin, City of
13. Yorba Linda Water District

* = agencies who participated on the Proposal Evaluation Committee.

MWDOC staff will provide project management assistance for this effort including completing the RFP process, selecting, hiring and managing the Consultant, contract management, scheduling meetings, and coordinating the Water Loss Control Committee.

Staff recommends the Board of Directors authorize the General Manager to:

1. Enter into a professional services contracts for up to three years with Water Systems Optimization, Inc. to:
 - a. Provide technical assistance to member agencies for water loss control, water balances, component analysis, and leak detection (depending on the number of agencies that participate in this Choice Program opportunity, this contract amount could range up to \$1,253,280 with all 28 member agencies participating), and

- b. Initiate the establishment of an Orange County Water Loss Control Committee for member agencies as a MWDOC Core Program at an annual cost not to exceed \$55,000.
2. Authorize the General Manager to enter into Choice-based cost-sharing agreements with agencies wishing to access this technical assistance.

Exhibit A
Water Loss Control Technical Assistance for Member Agencies
Request for Proposal Tasks:

Task 1 Project Administration, Reporting, and Water Loss Control Committee Coordination

Consultant will provide administrative services to oversee the day to day implementation of the Orange County Water Loss Control Program. This will include scheduling and tracking technical assistance appointments for participating retail agencies and providing monthly progress reporting by task to support monthly invoicing for work completed. Project administration will also include coordination of an OC Water Loss Control Committee that will include a combination of in-person and webinar type of meetings to enhance participation. The consulting budget shall assume the Water Loss Control Committee will meet six times during project term for the purpose of networking and problem solving.

Task 2 - Technical Assistance for Preparation of Top-Down Distribution System Water Audits

The initial Water System Audit for each Participating Agency will identify the nature and volumes of water into and out of each retail water system. This initial desktop process will rely on information from existing records, procedures, data, and other system information. It will include a preliminary assessment of apparent and real water losses and will provide insight to the quality and availability of water supply and consumption data used in the audit. The Consultant shall provide information and coaching on use of the various software tools to each Participating Agency. It is anticipated that this effort will help to identify data components that require further validation. Data validation recommendations will be needed to continually improve data validation from year to year so that well-informed, economic-based decisions can be made by year two or three. Direction and advice shall be provided to each participant regarding how to best improve their data process to position them for improving audits in subsequent years.

To assist Consultant in understanding the range of retail water agencies in Orange County, the following tables (data is 2011-12) are attached at the end of the RFP:

- Potable Water System Facilities Summary by retail water agency
- Number of Water Services and Sales by Service Type by retail water agency, and
- Non-Revenue Water by retail agency

Consultant to provide technical assistance Participating Agencies desiring a higher level of investigation into Real and Apparent Losses occurring in their systems. It is anticipated that up to five agencies will participate in Task 3. Real losses are attributed to leakage in transmission and distribution mains, leakage and overflows at utility storage tanks, and leakage on service connections. Apparent losses are attributed to unauthorized consumption, metering inaccuracies and data handling errors.

Task 3-A: Real Losses

This assistance will focus on establishing methods and data requirements to quantify background leakage, unreported leakage, and reported leakage. This task will allow an agency to better understand these components. Real losses include water that has been

extracted from a water resource source, treated, energized, and transported a distance before being lost. Thus the valuation of these losses is typically the sum of these components, or it can include the cost of the next higher source of water that might not have been needed except for the volume of loss. This task will not go all the way through development of a Real Loss Control Strategy, but will allow an agency to better understand the components and costs for completing such an evaluation down the road.

Task 3 B: Apparent Losses

This assistance will focus on establishing methods and data requirements to quantify customer metering inaccuracies, systematic data handling errors, and unauthorized consumption. This process is intended to identify the nature, quantity, and estimated cost impacts of the three apparent loss components.

This task will allow an agency to better understand these components and the value of the water lost compared to the cost of developing an Apparent Loss Control Strategy. Apparent losses represent water supplies that are not paid for or non-revenue water. These losses are typically valued at the prevailing retail rate. This task will not go completely through development of a Real Loss Control Strategy, but will allow an agency to better understand the components of its real loss volume and will provide a preliminary economic evaluation of real loss intervention strategies and their priority ranking.

Task 4 Locate and Quantify Leakage

Using standard Acoustic Leak Detection Techniques, the Consultant will survey the selected distribution systems for leakage. The Consultant shall implement a Comprehensive Survey. This survey method listens to all available fittings on the mains and service connections. Geophones are used to sound above the mains in case contact points are far apart. Once a leak sound is detected, a geophone and leak noise correlators can be used for pinpointing the leak. Acoustic techniques should be used to pinpoint the locations of leaks within the system. Flow measurement techniques may be used to estimate the volume of leakage. Between three and five agencies are anticipated to participate in this task. Agencies may choose to have their entire system surveyed or portions of their system suspected to have leaks.

Task 5 Report Preparation

The Consultant shall prepare a summary report to document the entire process and the outcome of all Participating Agencies and shall include a set of recommendation for the subsequent year of work.



INFORMATION ITEM

October 14, 2015

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

FROM: Robert Hunter, General Manager

Staff Contact: Harvey De La Torre

SUBJECT: Monthly Water Usage Data, Tier 2 Projection, 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 Tier 2 volume for MWDOC, and selected water supply information.

Fig. 1 OC Water Usage, Monthly by Supply OCWD Groundwater water was the main supply in August.

Fig. 2 OC Water Usage, Monthly, Comparison to Previous Years Water usage in August 2015 was well below average compared to past usage. Lower usage is primarily due to strong conservation efforts and mandatory restrictions set by the governor.

Fig. 3 Historical OC Water Consumption OC water consumption was 571,000 AF in FY 2014-15. This is about 50,000 AF less than FY 2013-14 but is about 16,000 AF higher than FY 2010-11 (Fiscal year with lowest usage). Water usage per person was the lowest it has been for Orange County at 164 gallons per day. Although OC population has increased 20% over the past two decades, water usage has not increased, on average. A long-term decrease in per-capita water usage is attributed mostly to Water Use Efficiency (water conservation) efforts. High Temperature, precipitation and the economy all remain indicators to O.C. water consumption.

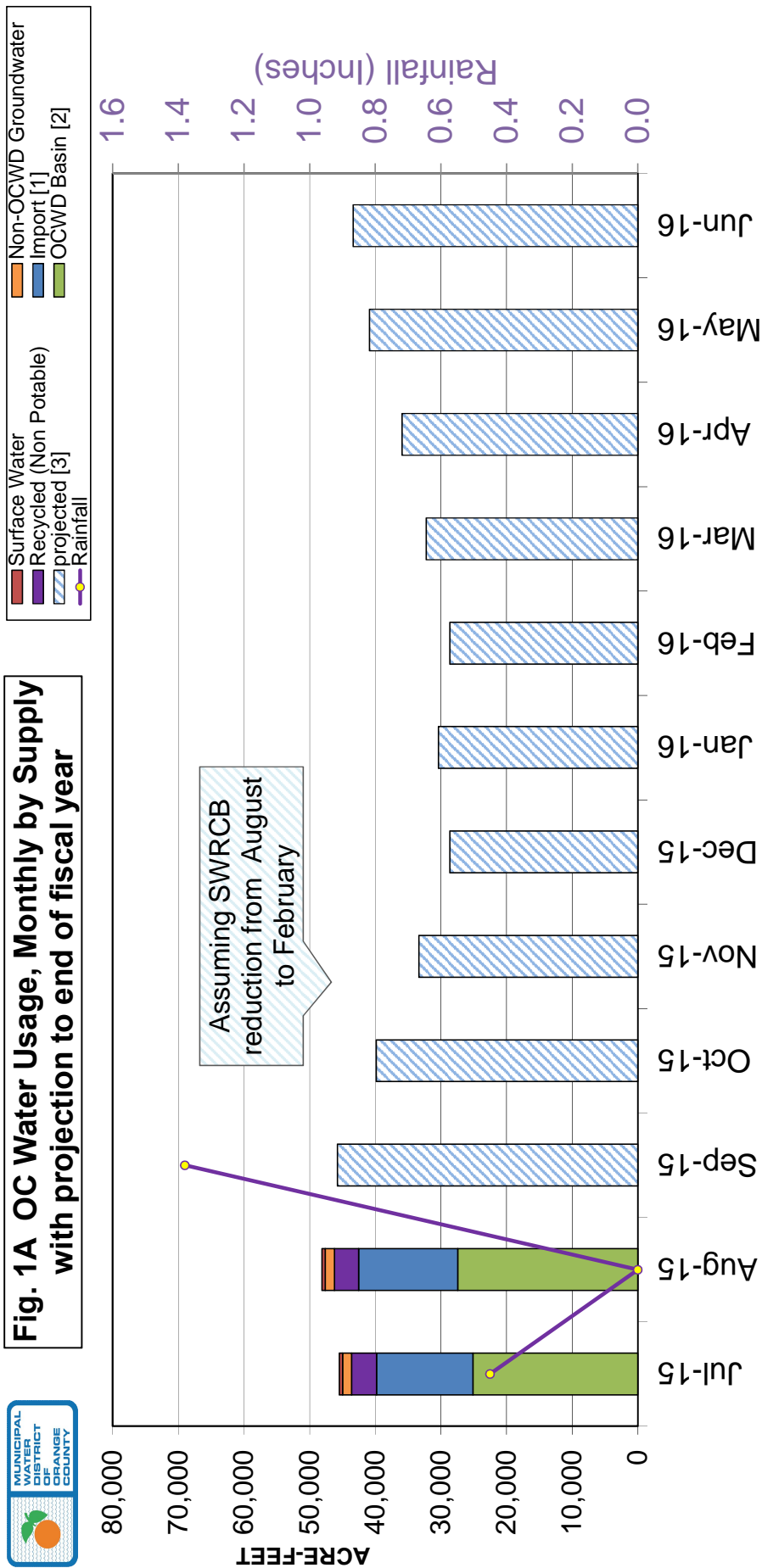
Fig. 4 MWDOC “Firm” Water Purchases, 2015 “Firm” water above the Tier 1 limit will be charged at the higher Tier 2 rate. Our current projection of Tier 2 purchases is zero in 2015.

Water Supply Information 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 has 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. 1st through Sept. 30th.

- Orange County’s accumulated rainfall through September was below average for this period. This continues the impact of the previous three hydrologic years’ below-normal rainfall in reducing those local supplies that are derived from local runoff. Santa Ana received about an inch and a half of rain which is extremely rare for September. NOAA is predicted that there is a 95% chance of El Niño conditions for this winter and 85% chance of El Niño next spring.
- Northern California accumulated precipitation in August was around 75% of normal for this period. The Northern California snowpack was 5% of normal as of April 1st, the date used for year-to-year comparison. This follows three below-average hydrologic years. The State of California has been in a declared Drought Emergency since January 2014. The State Water Project Contractors Table A Allocation is only 20% as of the end of July.
- Colorado River Basin accumulated precipitation in September was 92% average for this period. The Upper Colorado Basin snowpack was 64% of average as of April 15th. However, this follows two below-average hydrologic years, and this watershed is in a long-term drought. Lake Mead and Lake Powell combined have about 59% of their average storage volume for this time of year. Lake Mead is the largest reservoir in the United States and as of now the Lake is at its lowest levels since filling in the late 1930’s. If Lake Mead’s level falls below a “trigger” limit 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 for the Lower Basin states. As of Late July Lake Mead Levels were hovering around the “trigger” limit but fortunately levels are expecting to increase from the large amounts of precipitation that hit the Colorado River Basin this summer and spring. The USBR predicts that the “trigger” level will not be hit by the end of 2015.



Fig. 1A OC Water Usage, Monthly by Supply
with projection to end of fiscal year



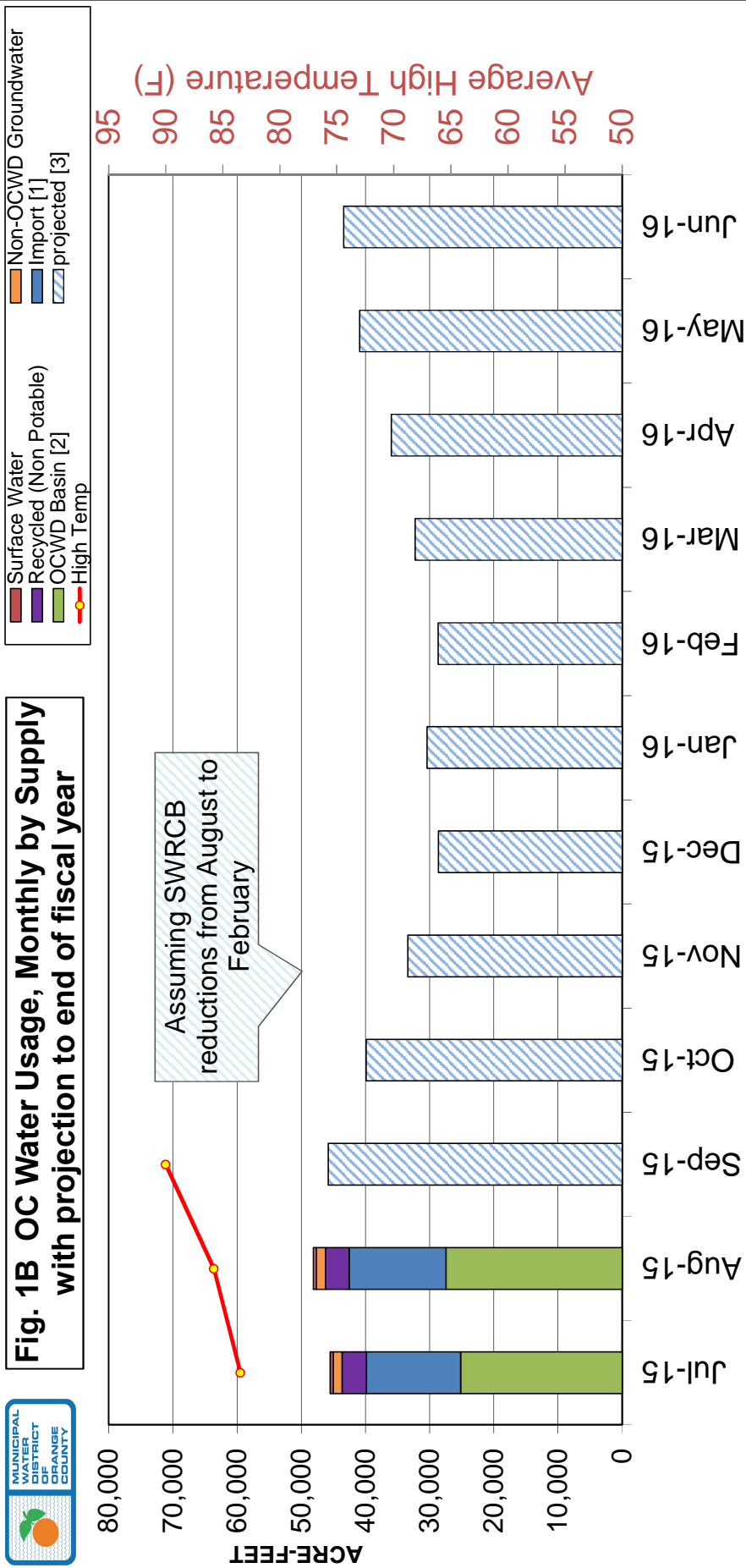
[1] Imported water for consumptive use. Includes "In-Lieu" deliveries and CUP water extraction. Excludes "Direct Replenishment" deliveries of spreading water, "Barrier Replenishment" deliveries, and deliveries into Irvine Lake.

[2] GW for consumptive use only. Excludes In-Lieu water deliveries and CUP water extraction that are counted with Import. BPP in FY '14-15 is 72%.

[3] MWDOC's estimate of monthly demand is based on the projected FY 15-16 "Retail" water demand and historical monthly demand patterns.



**Fig. 1B OC Water Usage, Monthly by Supply
with projection to end of fiscal year**

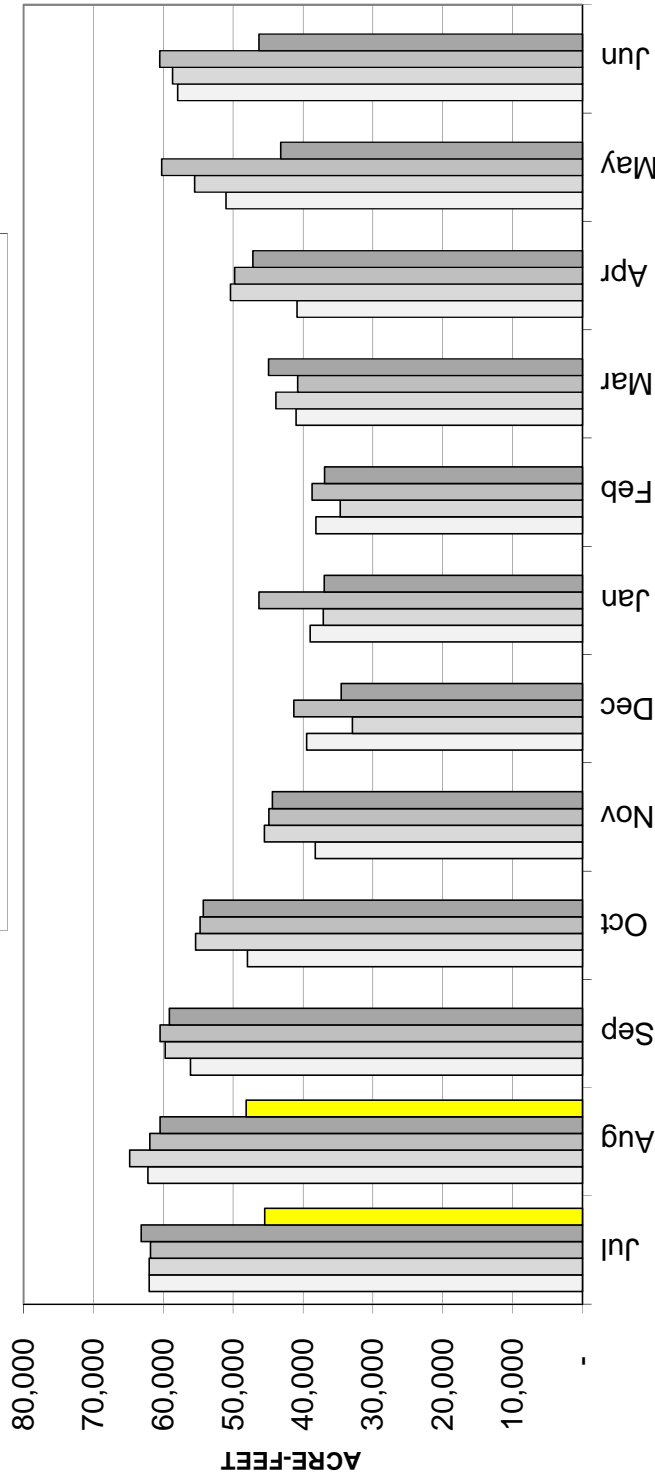


- [1] Imported water for consumptive use. Includes "In-Lieu" deliveries and CUP water extraction. Excludes "Direct Replenishment" deliveries of spreading water, "Barrier Replenishment" deliveries, and deliveries into Irvine Lake.
- [2] GW for consumptive use only. Excludes In-Lieu water deliveries and CUP water extraction that are counted with Import. BPP in FY '14-15 is 72%.
- [3] MWDOC's estimate of monthly demand is based on the projected FY 15-16 "Retail" water demand and historical monthly demand patterns.

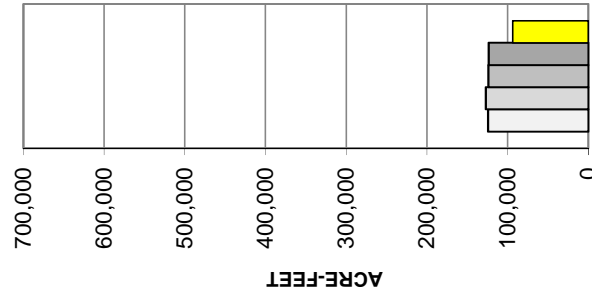


Fig. 2A OC Monthly Water Usage [1]: Comparison to Last 4 Fiscal Years

□ FY 11-12 □ FY 12-13 □ FY 13-14 □ FY 14-15 □ FY 15-16



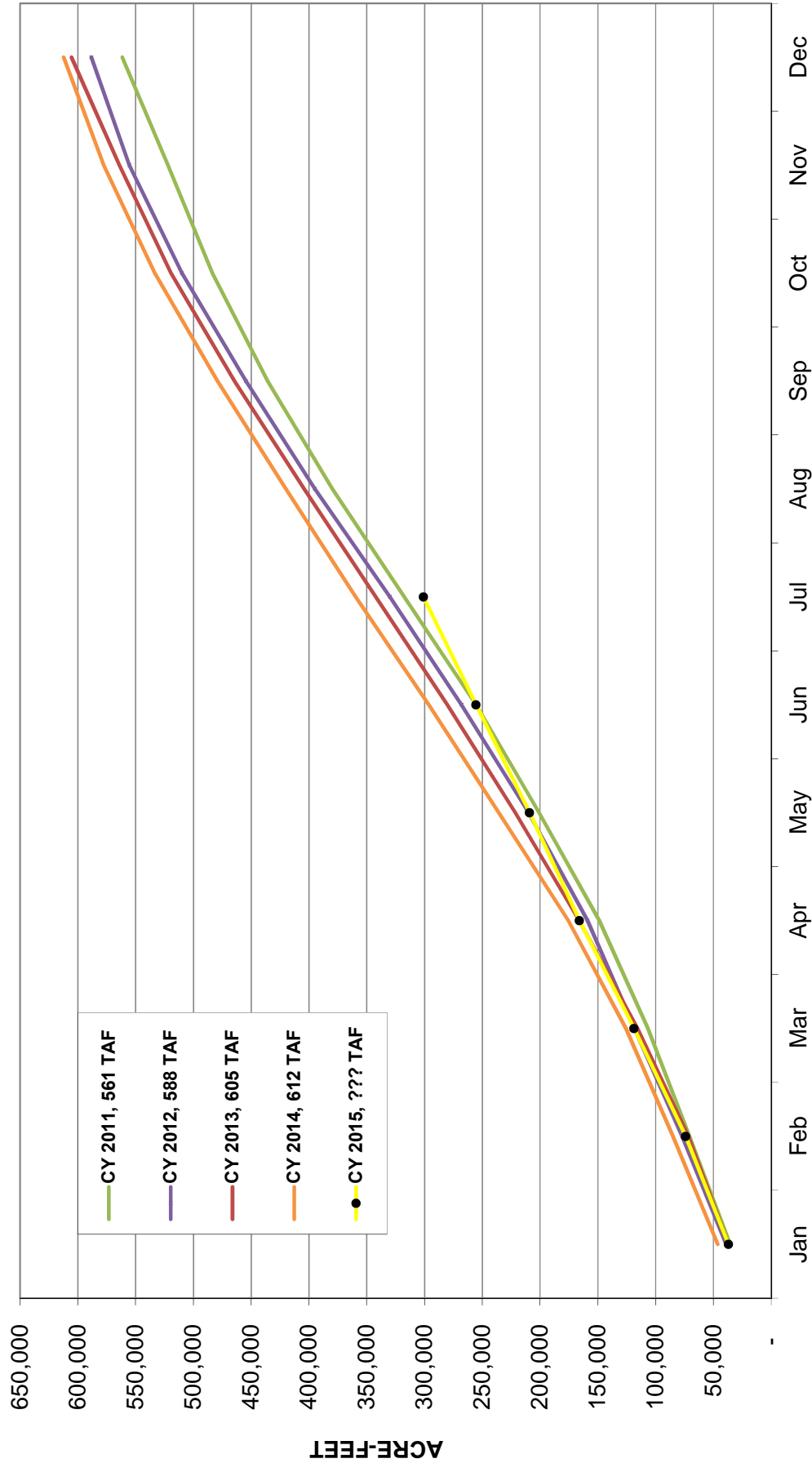
Partial Year Subtotals



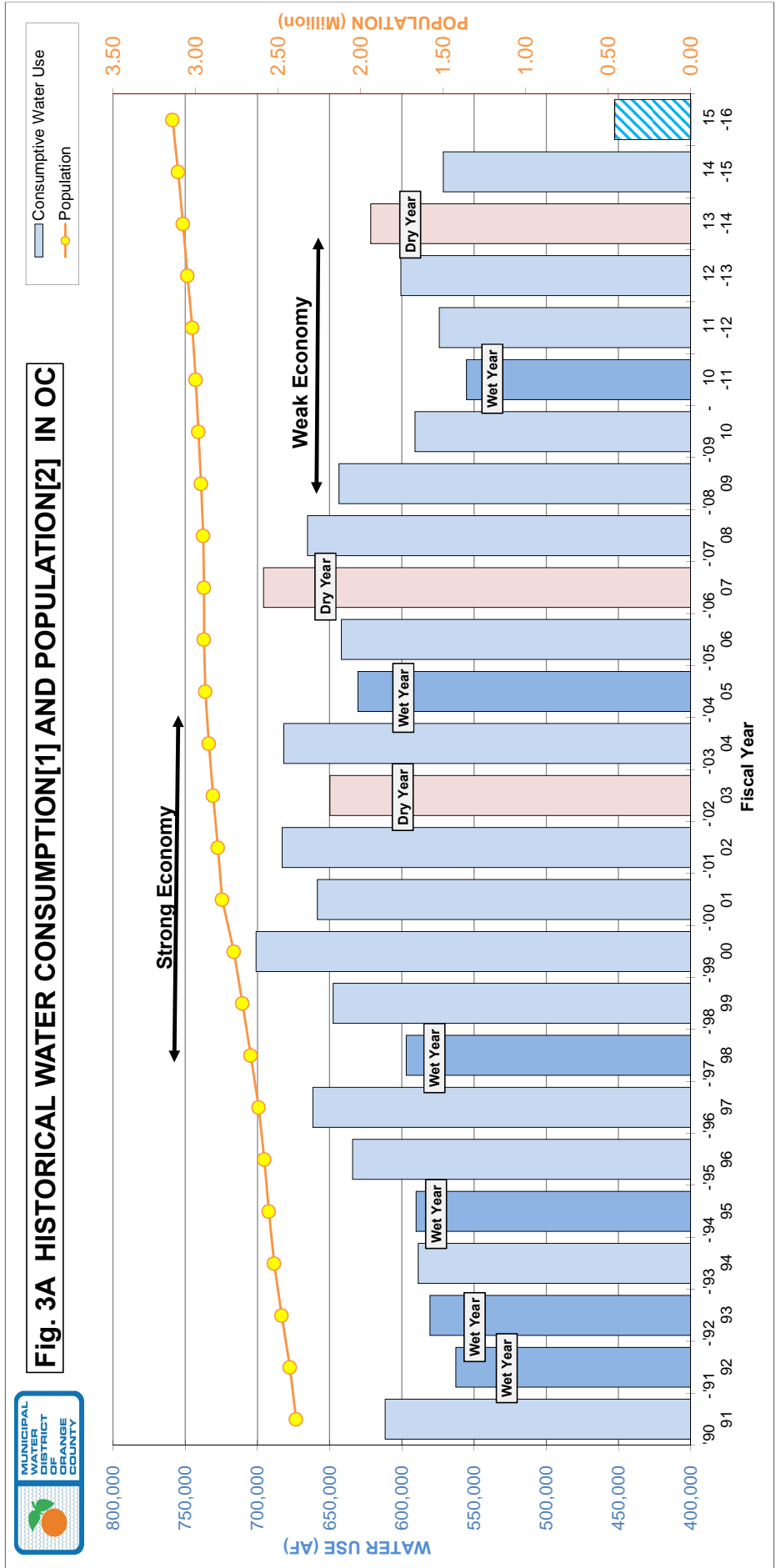
[1] Sum of Imported water for consumptive use (includes "In-Lieu" deliveries; excludes "Direct Replenishment" and "Barrier Replenishment") and Local water for consumptive use



Fig. 2B Orange County Cumulative Monthly Consumptive Water Usage [1]:
present year compared to last 4 calendar years



[1] Sum of Imported water for consumptive use (includes "In-Lieu" deliveries; excludes "Direct Replenishment" and "Barrier Replenishment") and Local water for consumptive use



[1] Consumption includes potable, recycled and non-potable usage; excludes Barrier and Spreading water. The most recent data involve some estimation.
 [2] Population estimates in the 2000s decade were revised by the State Dept. of Finance to reflect the 2010 Census counts.
 [3] Projection of FY 15-16 water use estimated by MWDOC based on partial-year data.

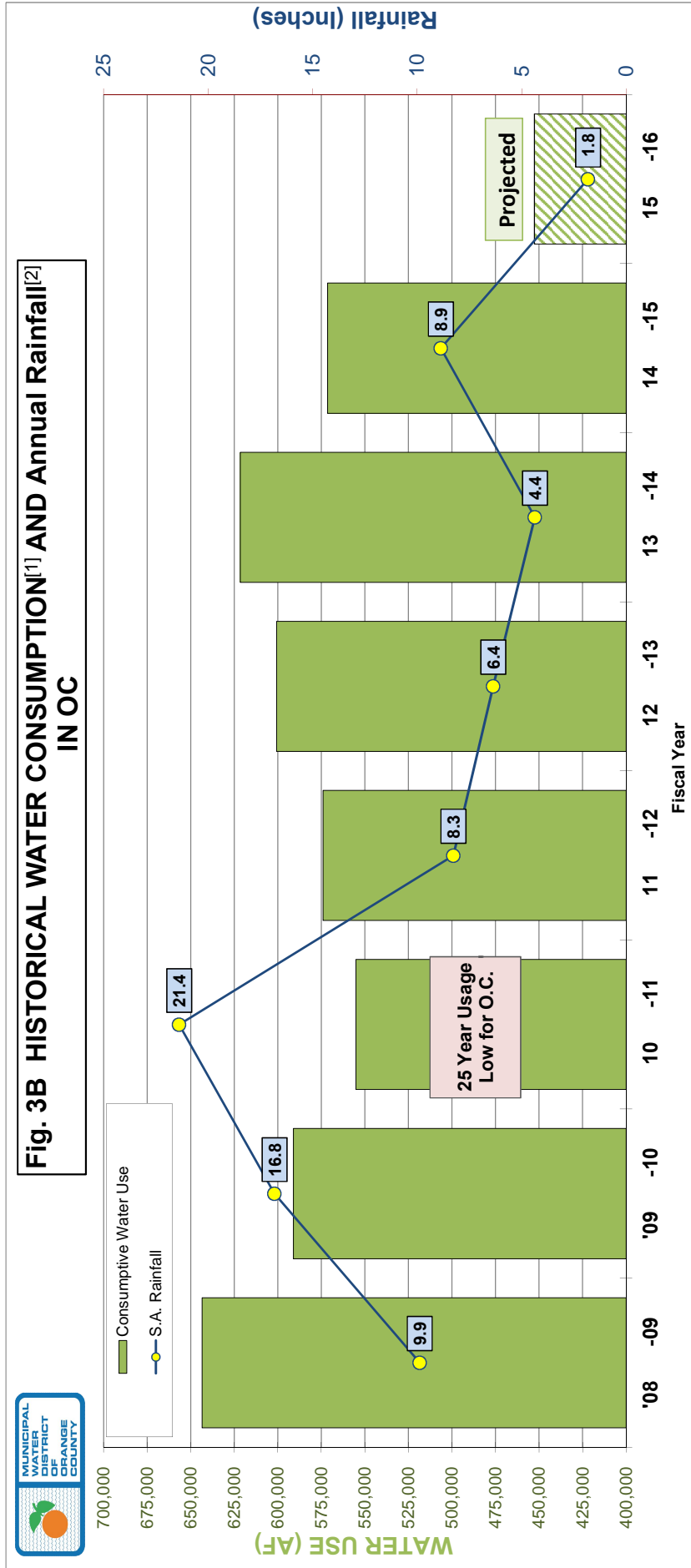
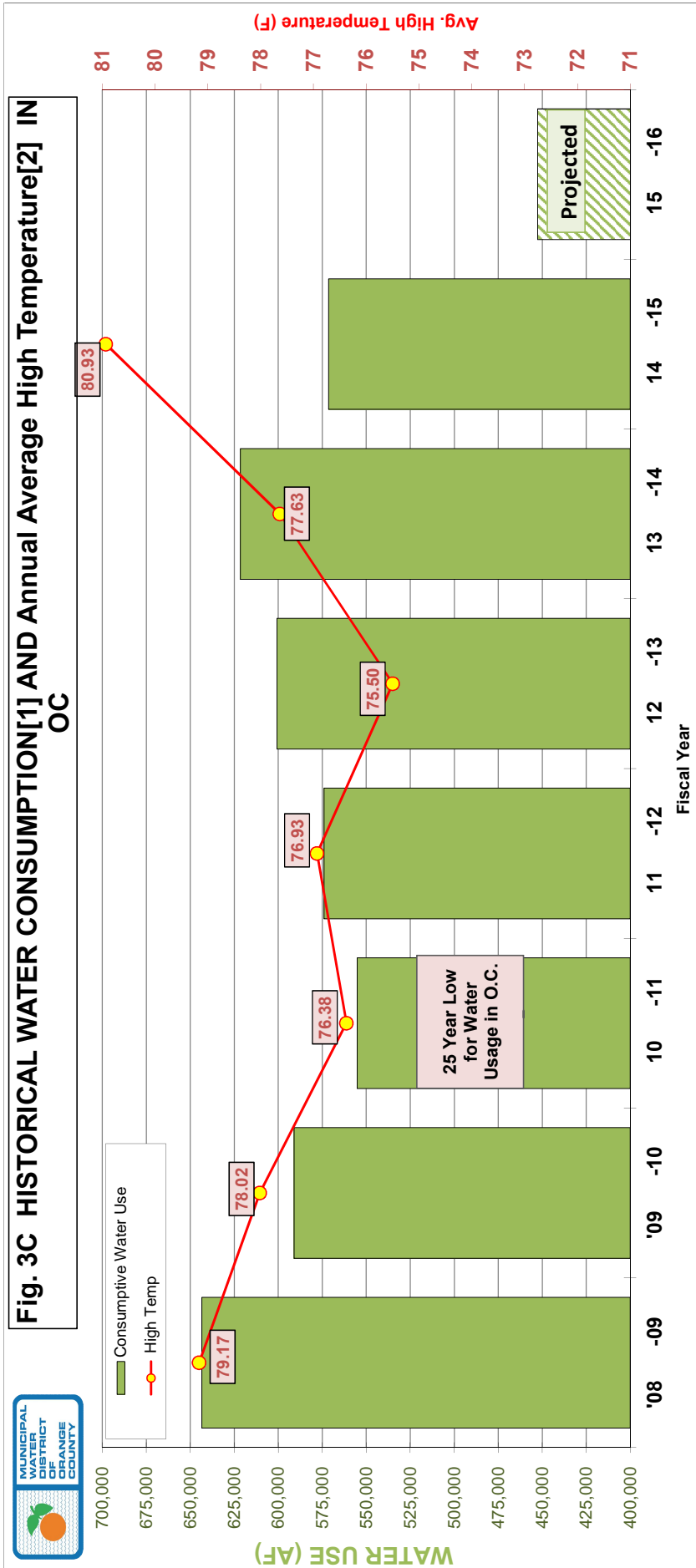


Fig. 3B HISTORICAL WATER CONSUMPTION^[1] AND Annual Rainfall^[2] IN OC



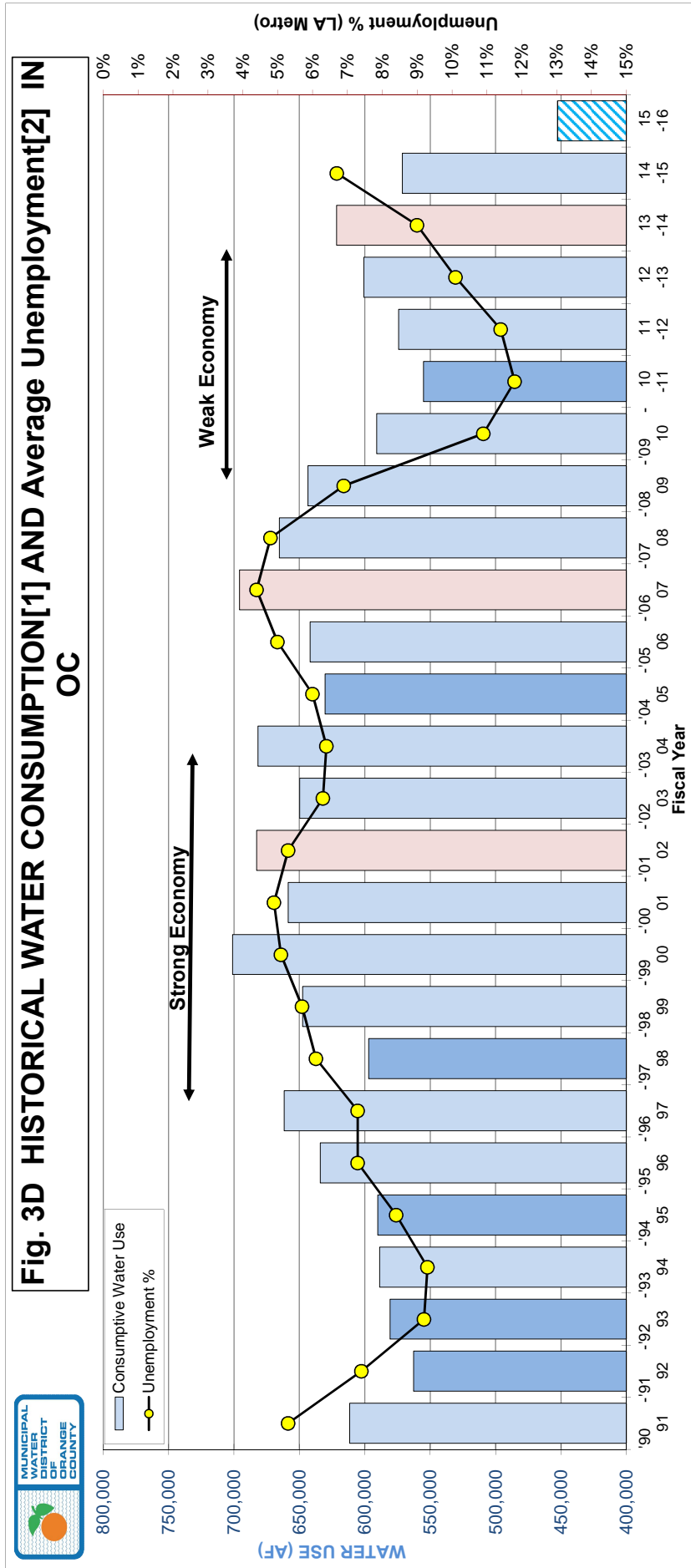
[1] Consumption includes potable, recycled and non-potable usage; excludes Barrier and Spreading water. The most recent data involve some estimation.

[2] Rainfall data from Santa Ana Station #121



[1] Consumption includes potable, recycled and non-potable usage; excludes Barrier and Spreading water. The most recent data involve some estimation.

[2] Temperature data is from Santa Ana Fire Station, elevation 135'



[1] Consumption includes potable, recycled and non-potable usage; excludes Barrier and Spreading water. The most recent data involve some estimation.

[2] Employment Data source Bureau of Labor Statistic for Long Beach-L.A.-Santa Ana Metro Area

<http://www.bls.gov/lau/>

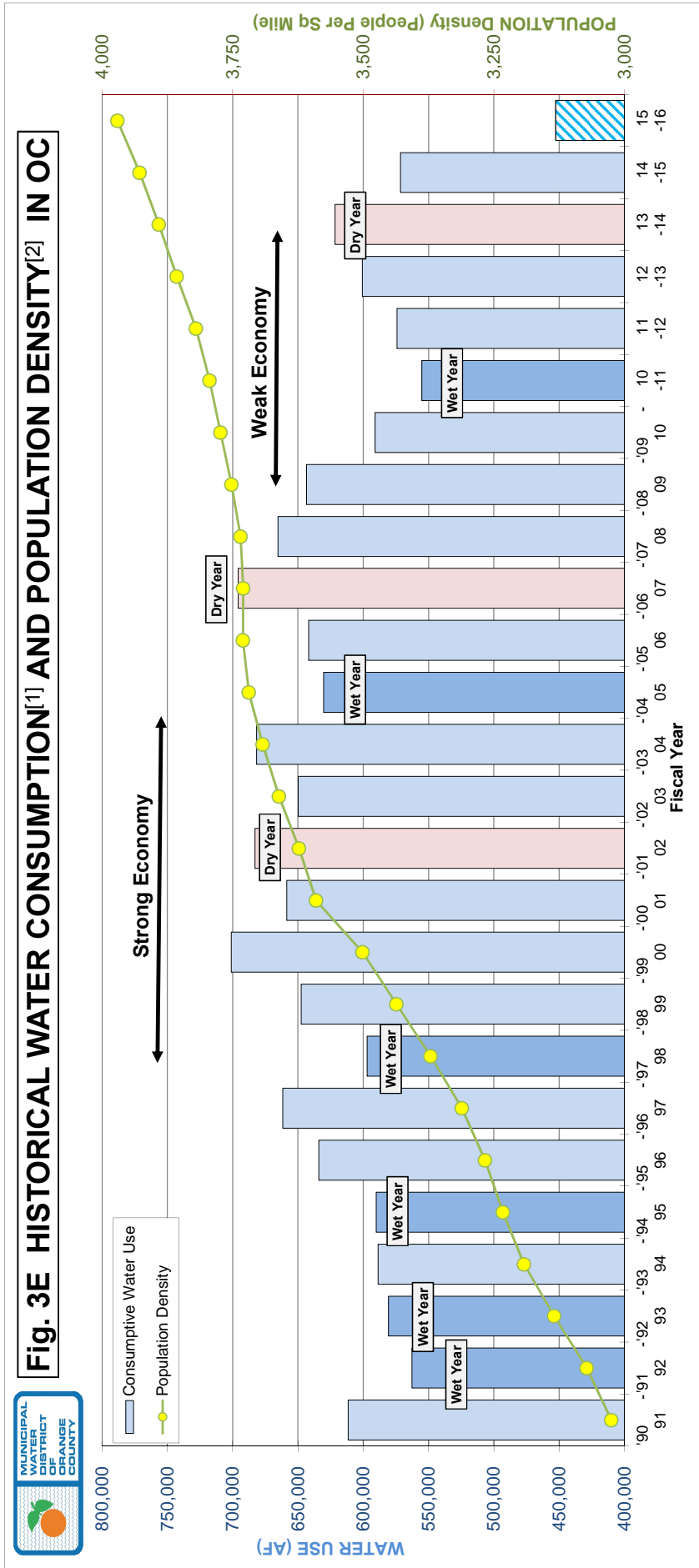
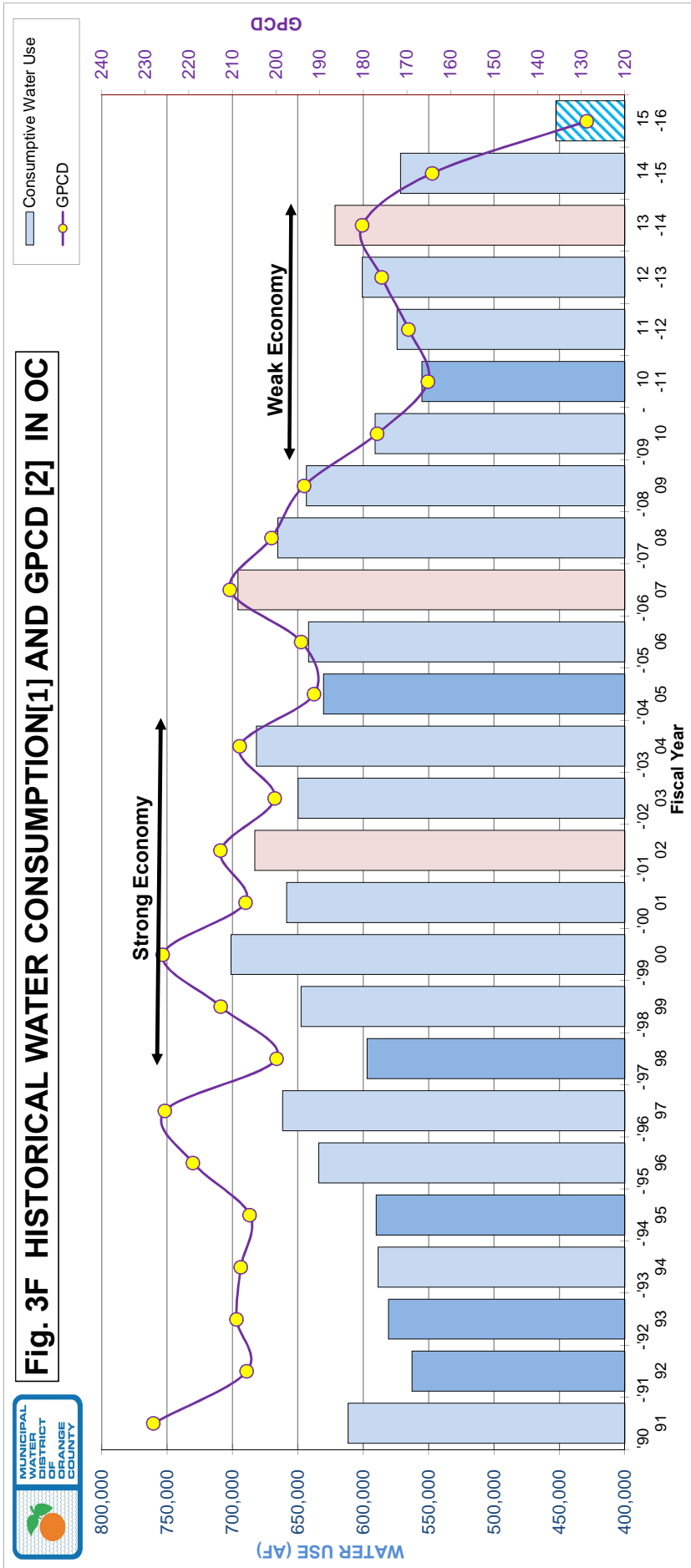


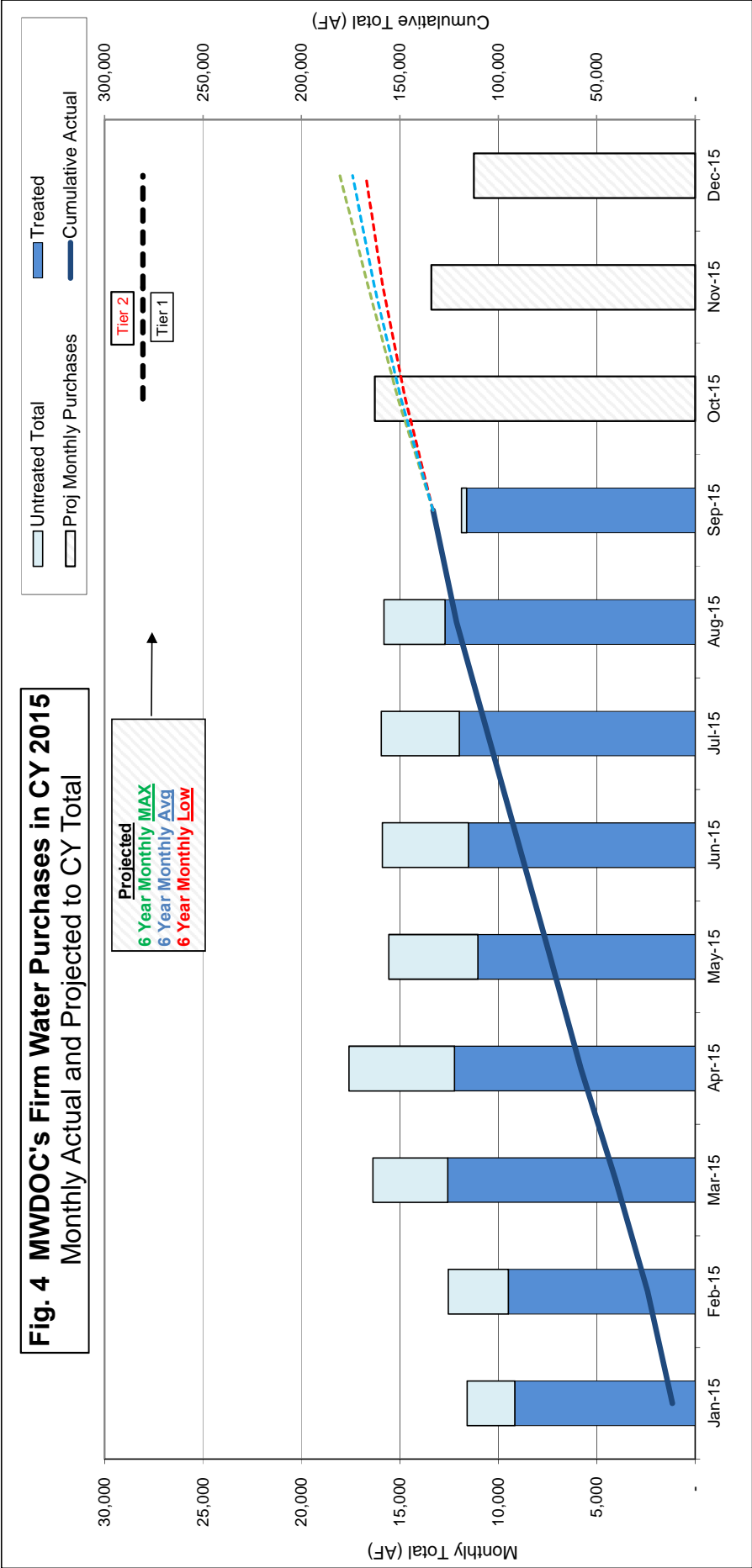
Fig. 3E HISTORICAL WATER CONSUMPTION^[1] AND POPULATION DENSITY^[2] IN OC



[1] Consumption includes potable, recycled and non-potable usage; excludes Barrier and Spreading water. The most recent data involve some estimation.
 [2] Population estimates in the 2000s decade were revised by the State Dept. of Finance to reflect the 2010 Census counts.



[1] Consumption includes potable, recycled and non-potable usage; excludes Barrier and Spreading water. The most recent data involve some estimation.
 [2] Gallon per Capita Daily (includes all types of water usage and all type of water users).



Notes

1. "Firm" includes Full Service (both Treated and Untreated) and Barrier water.
2. Basin Pumping Percentage (BPP) is the percentage of a retail water agency's total water demand that they are limited to pump from the OCWD-managed groundwater basin. BPP pertains to Basin agencies only. For example, if a Basin agency's total demand is 10,000 AF/yr and OCWD sets the BPP at 72%, then the agency is limited to 7,200 AF of groundwater that year. There may be certain exceptions and/or adjustments to that sample calculation. OCWD sets the BPP for the Basin agencies, usually as of July 1st. Import demands for Jan.-Jun. were with BPP of 72% for Basin agencies; for Jul.-Dec. they are projected with BPP of 70%.



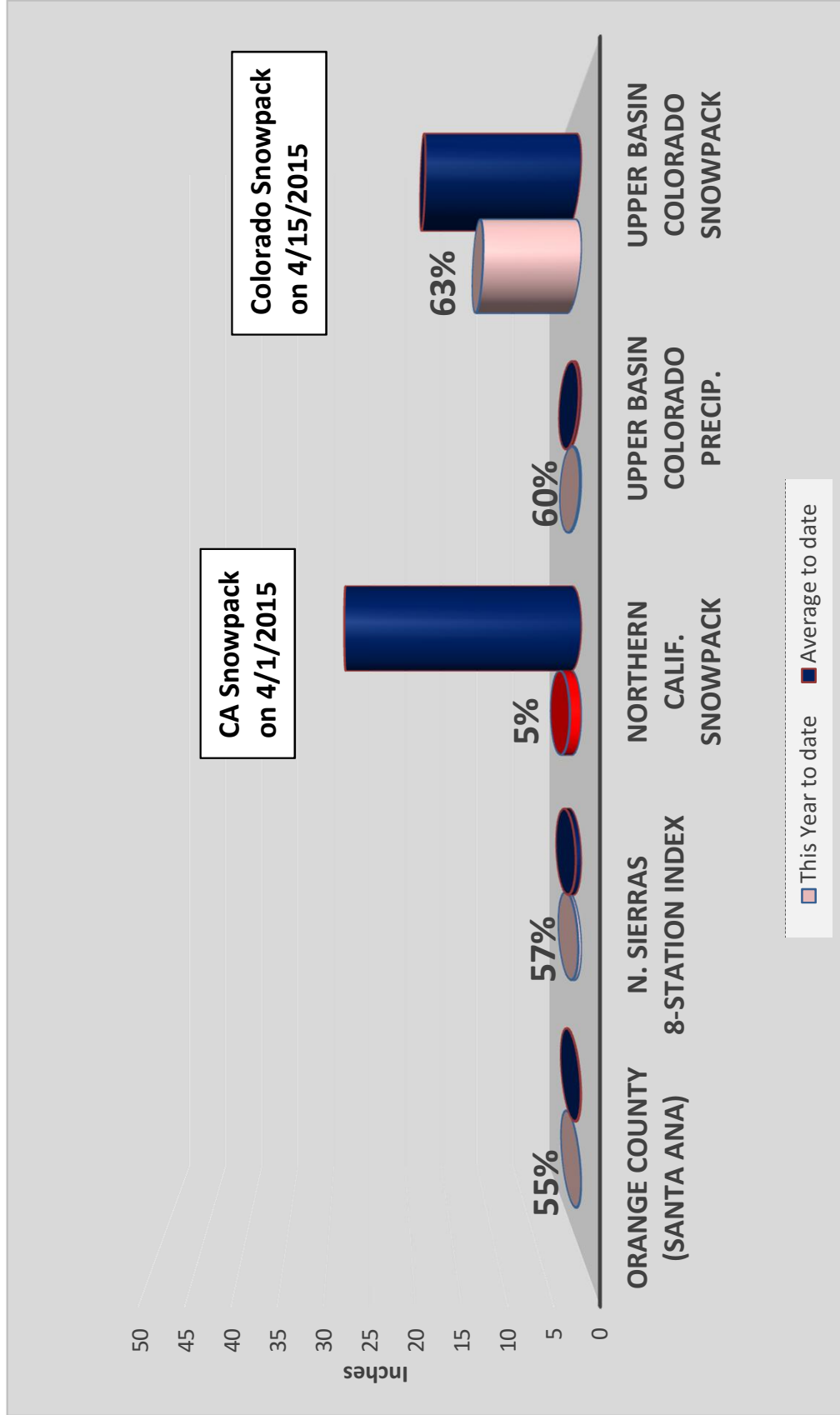
prepared by the Municipal Water District of Orange County

**numbers are subject to change*

printdate 10/8/2015

Accumulated Precipitation

for the Oct.-Sep. water year, through Early October 2015



* The date of maximum snowpack accumulation (April 1st in Northern Calif. , April 15th in the Upper Colorado Basin) is used for year to year comparison.

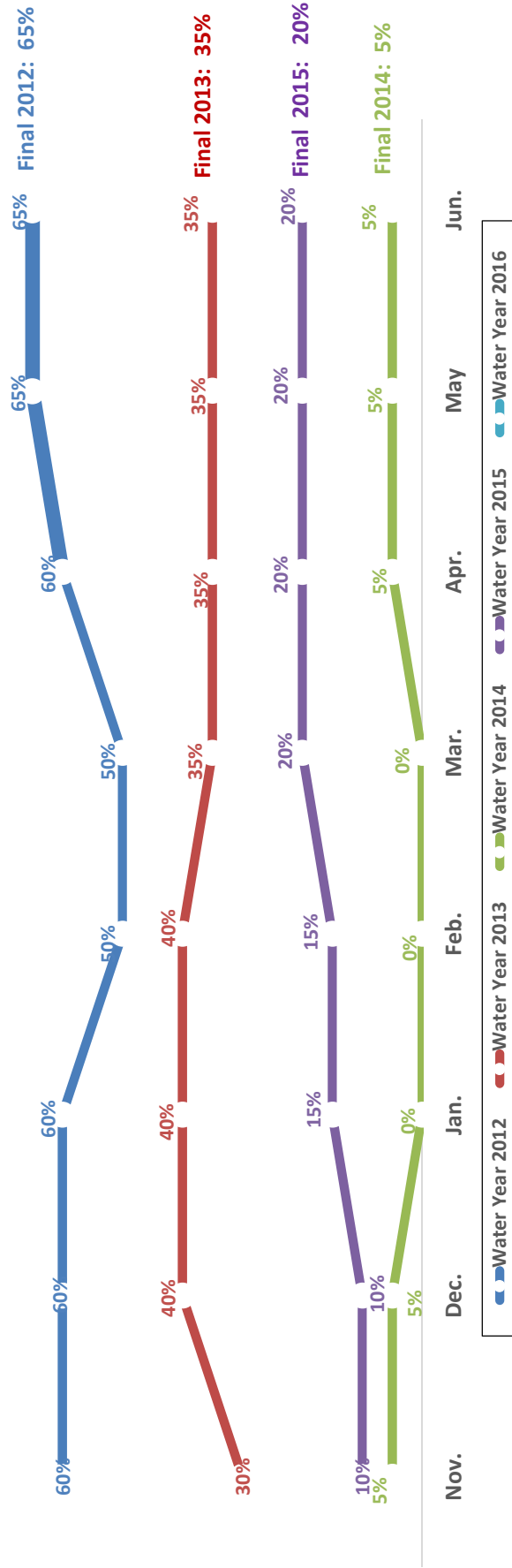
prepared by the Municipal Water District of Orange County
**numbers are subject to change*



SWP TABLE A ALLOCATION

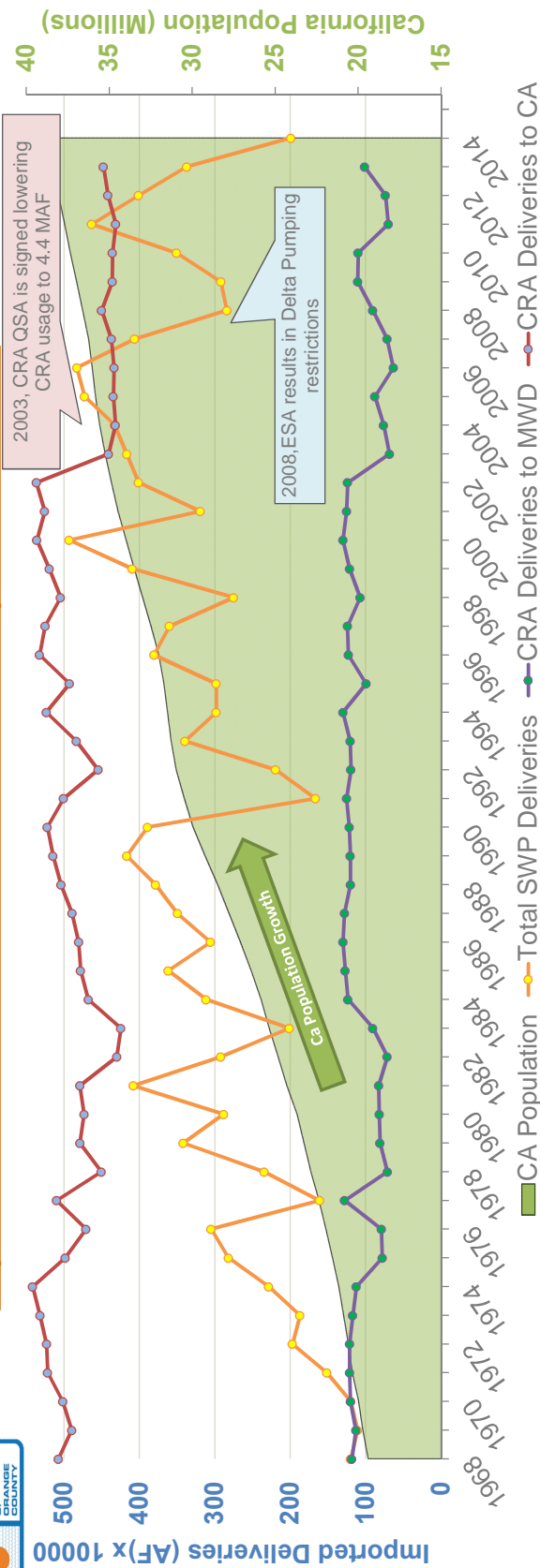
FOR STATE WATER PROJECT CONTRACTORS

Final 2016: ??

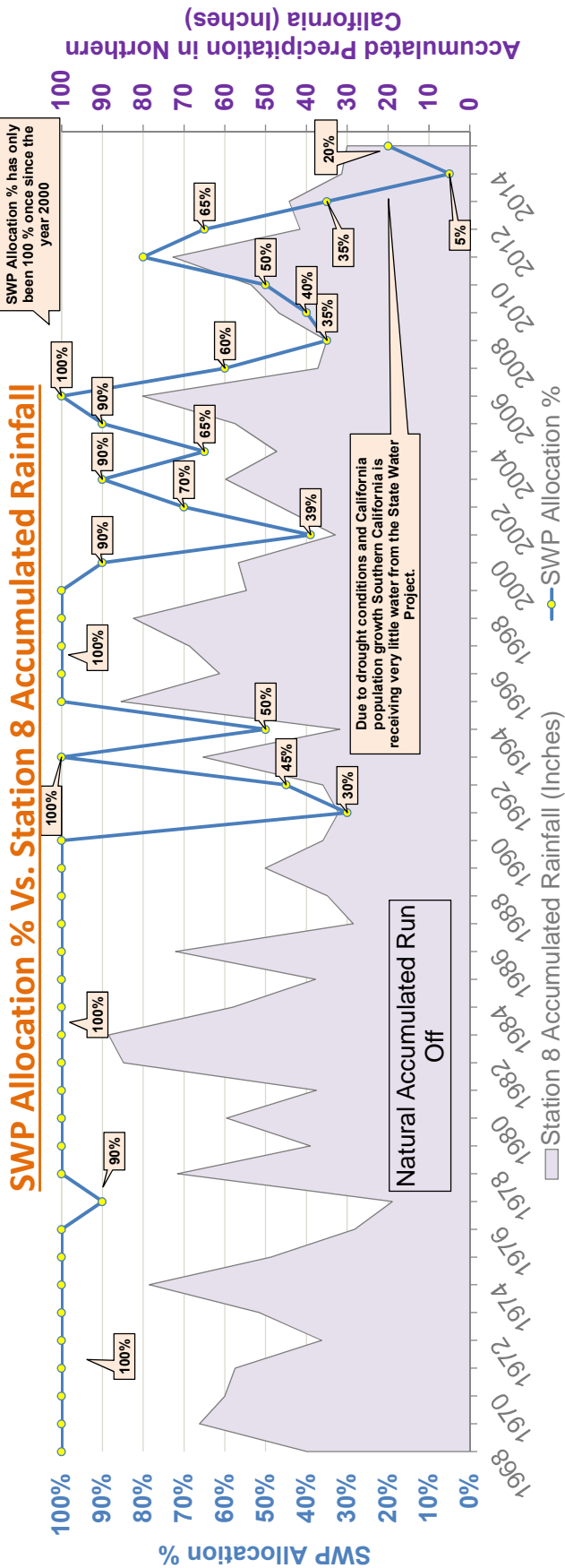




Imported Water Deliveries Vs. California Population Growth



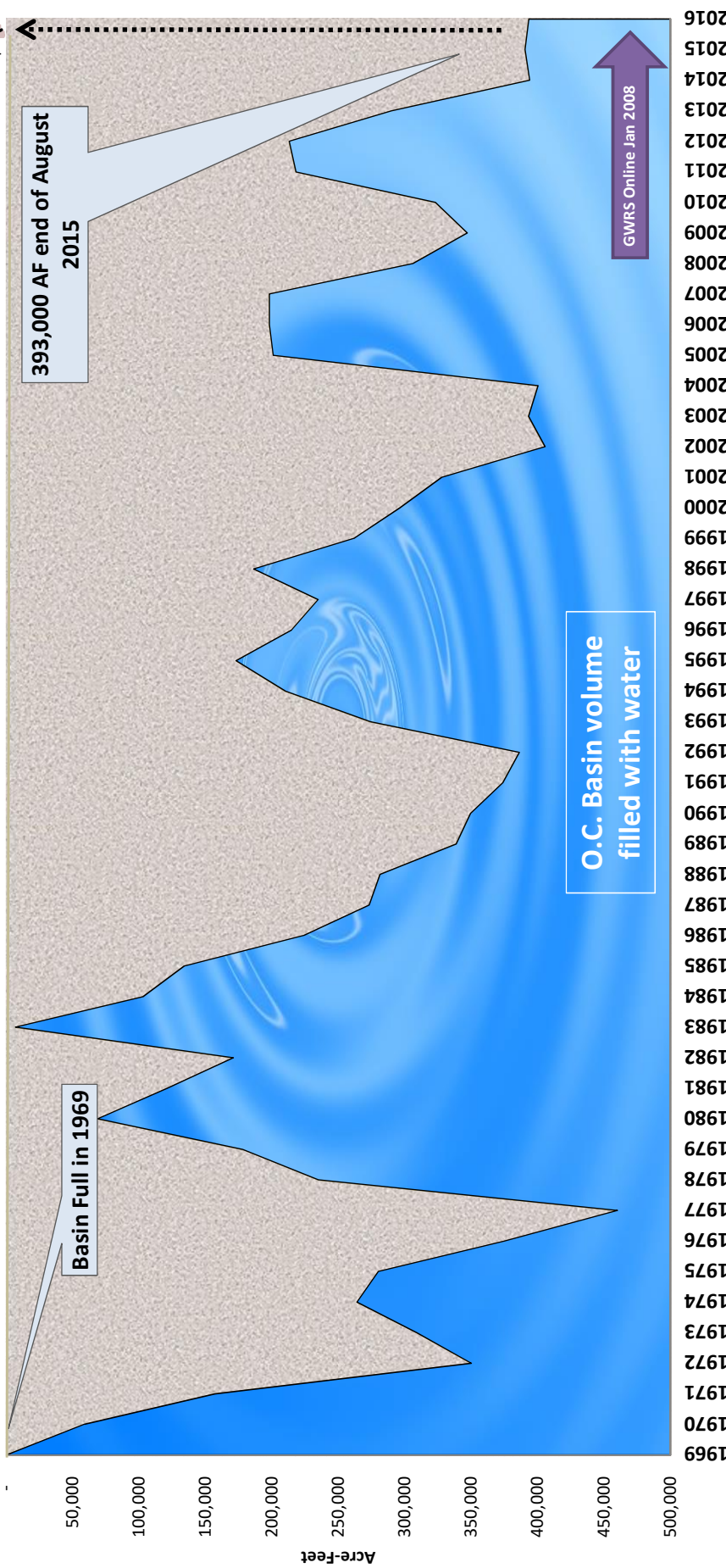
SWP Allocation % Vs. Station 8 Accumulated Rainfall





O.C. Basin Accumulated Overdraft

Annual, 1969 to Present

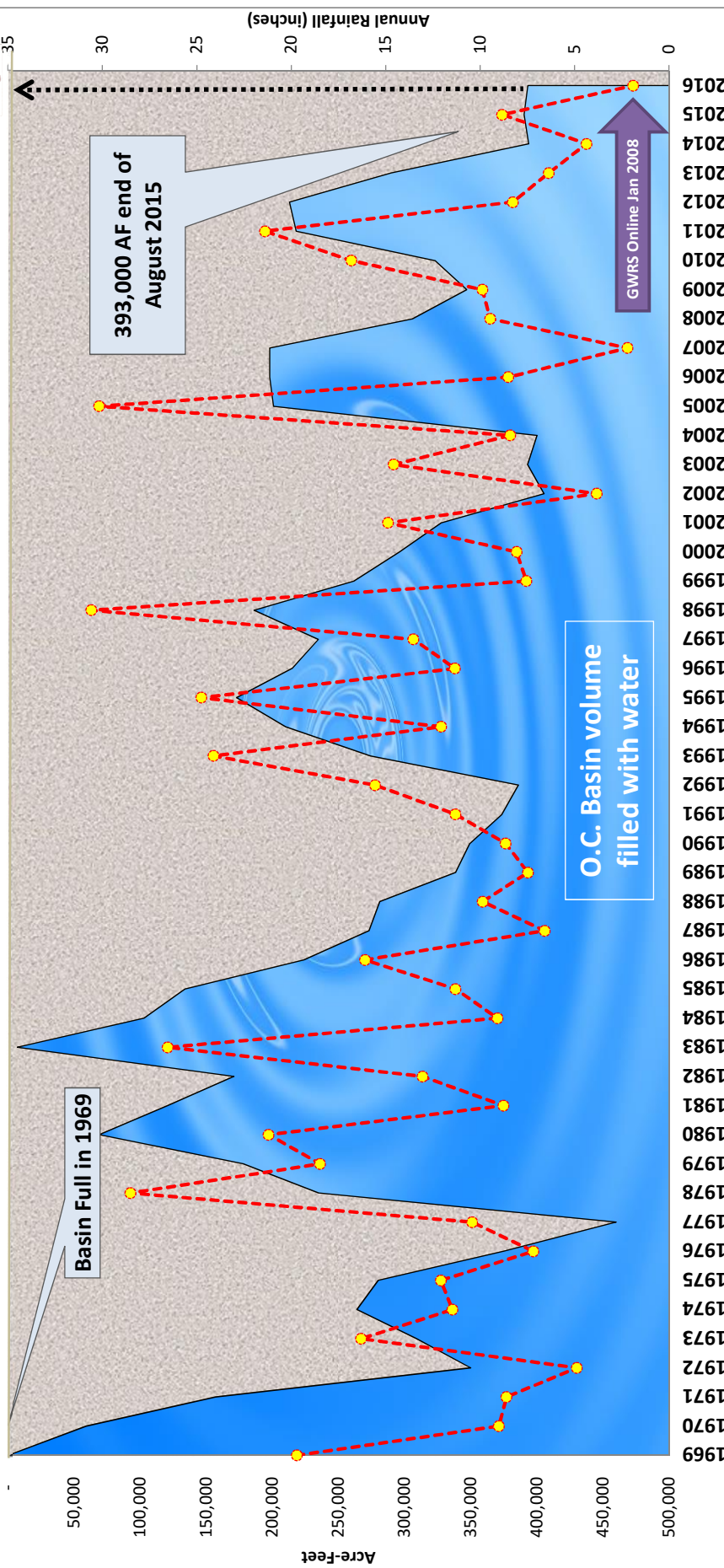
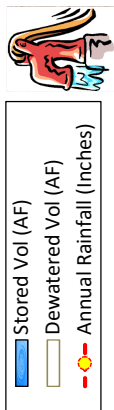


~ Accumulated Overdraft (dewatered volume) shown as white area, excluding the volume stored by Metropolitan. source: OCWD



O.C. Basin Accumulated Overdraft Vs. Annual Rainfall

Annual, 1969 to Present

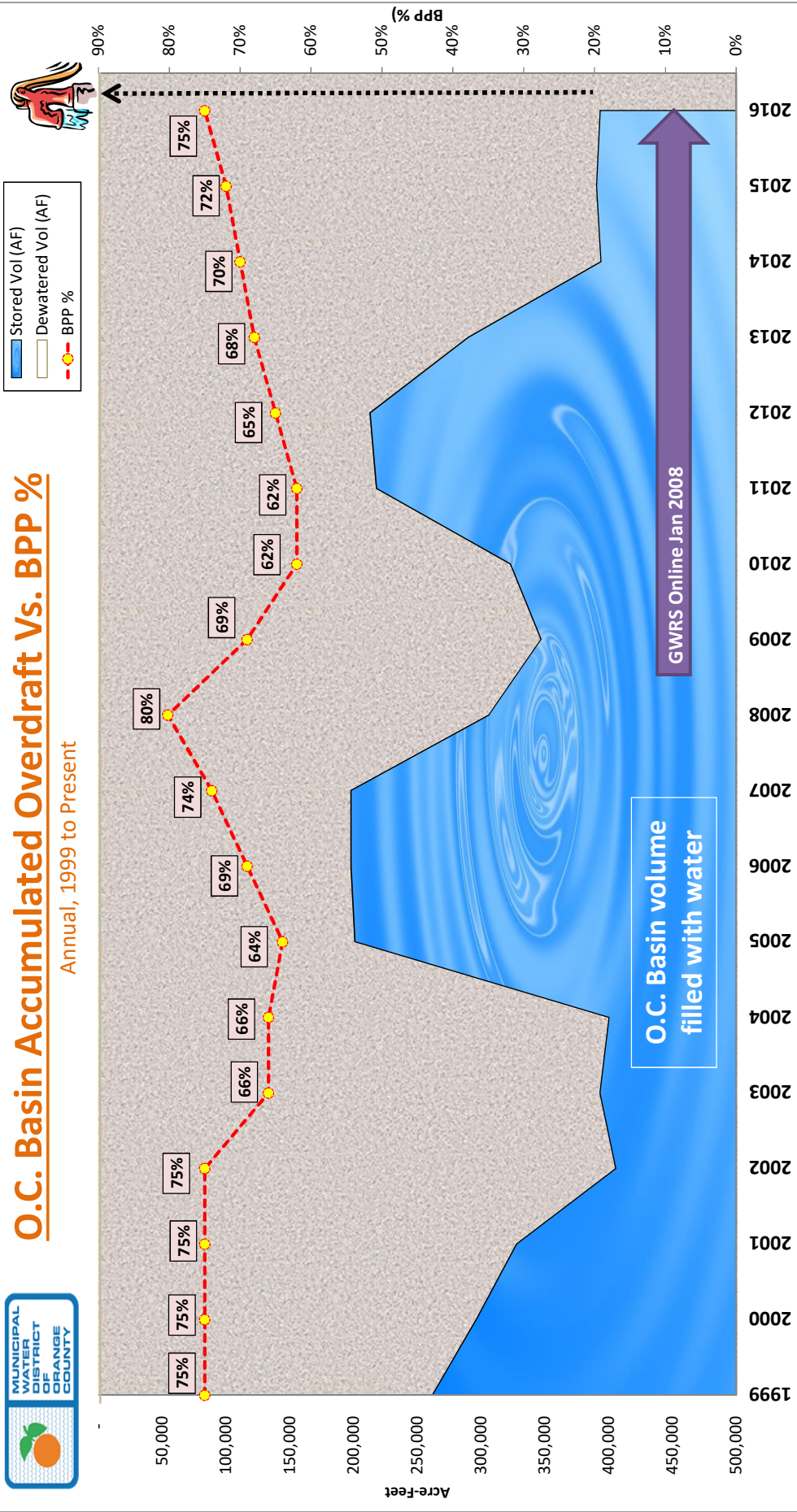
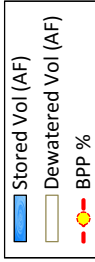


~ Accumulated Overdraft (dewatered volume) shown as white area, excluding the volume stored by Metropolitan. source: OCWD



O.C. Basin Accumulated Overdraft Vs. BPP %

Annual, 1999 to Present

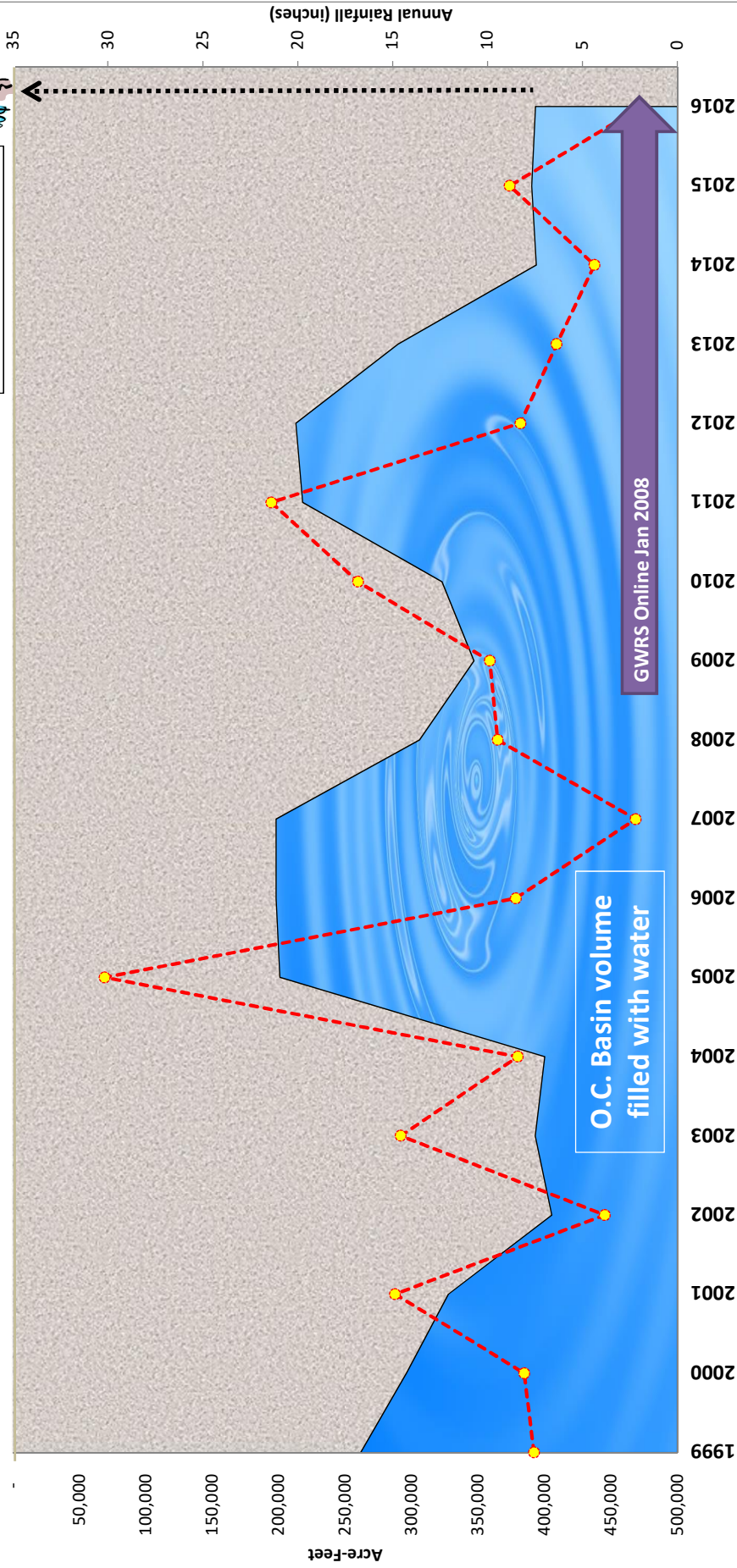
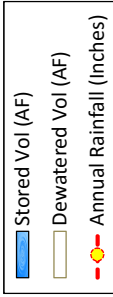


~ Accumulated Overdraft (dewatered volume) shown as white area, excluding the volume stored by Metropolitan. source: OCWD



O.C. Basin Accumulated Overdraft Vs. Annual Rainfall

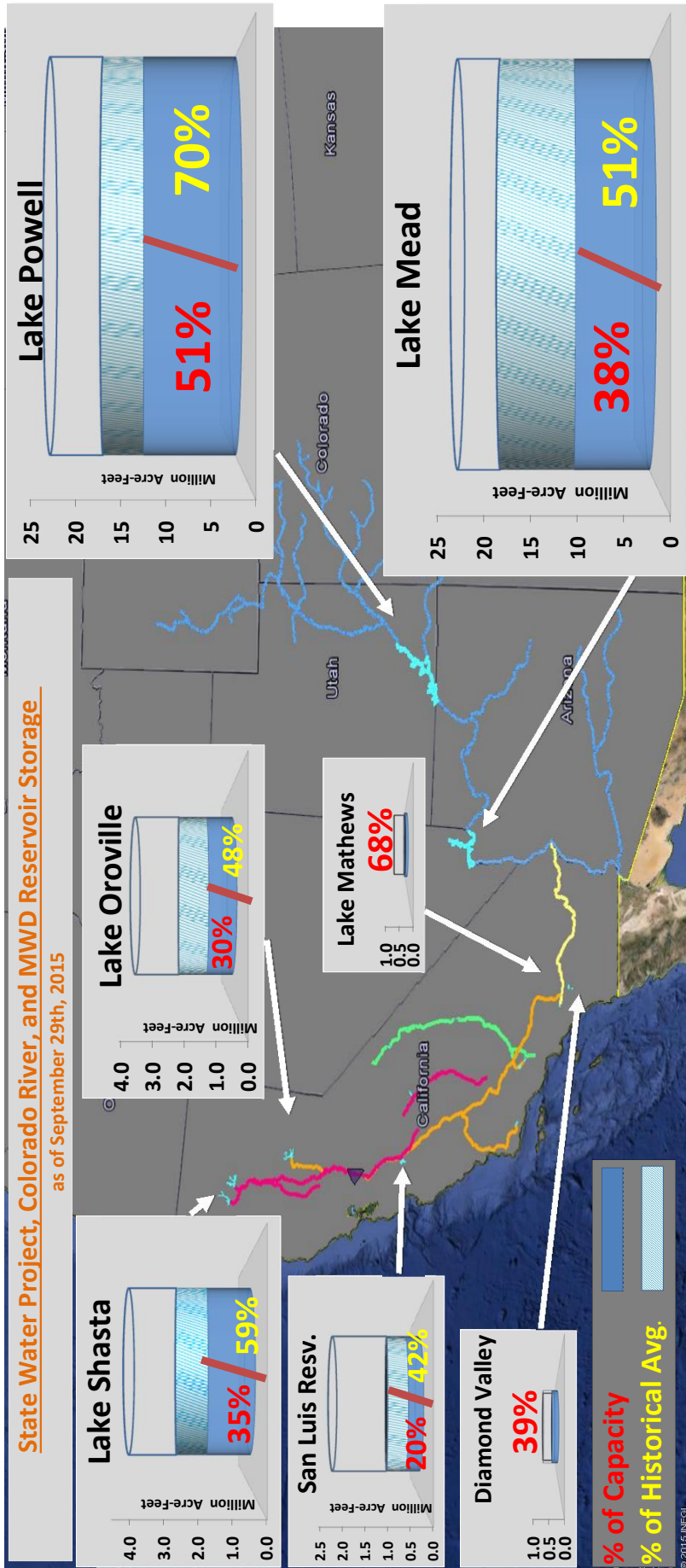
Annual, 1999 to Present



~ Accumulated Overdraft (dewatered volume) shown as white area, excluding the volume stored by Metropolitan. source: OCWD

State Water Project, Colorado River, and MWD Reservoir Storage

as of September 29th, 2015



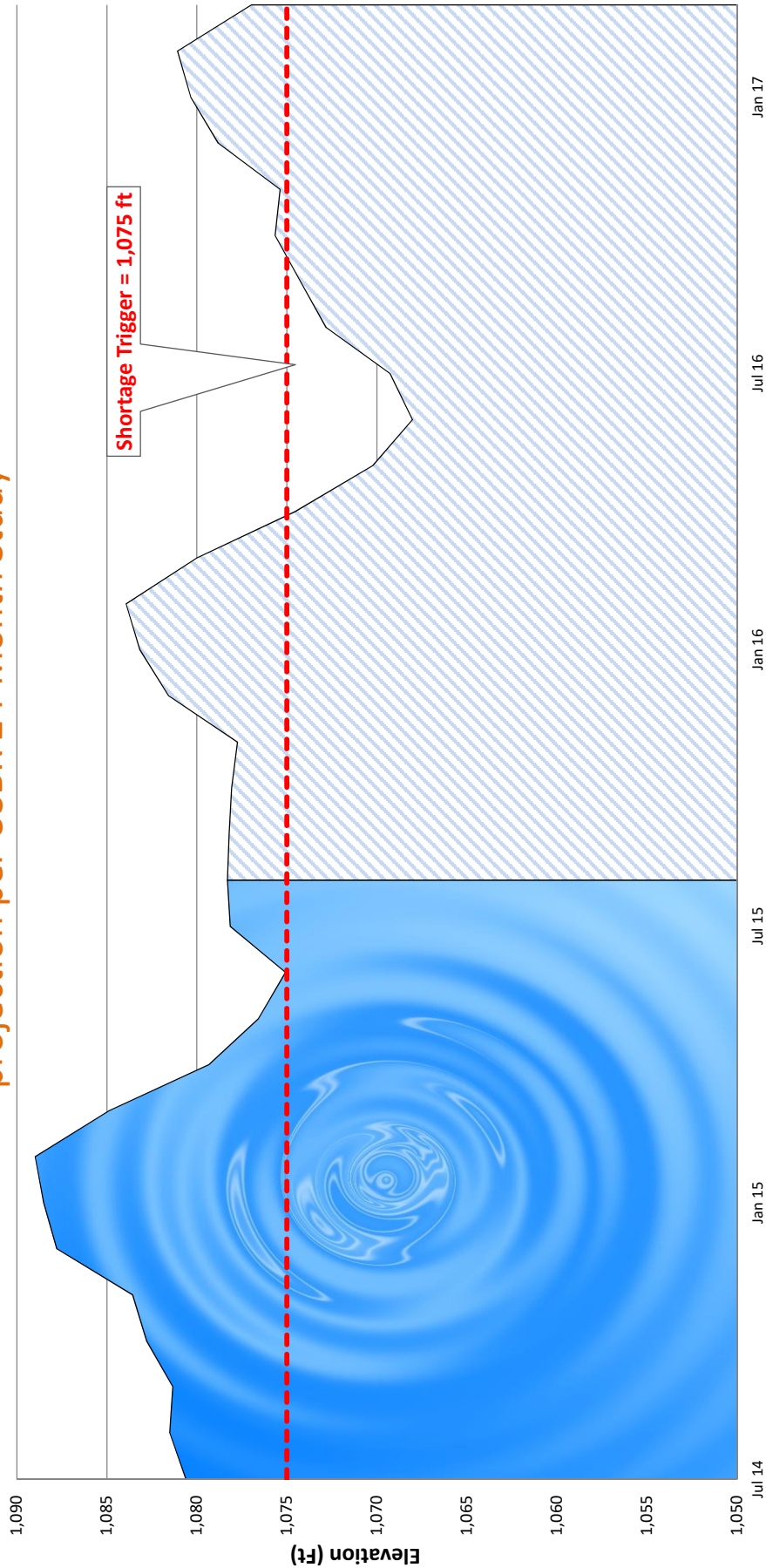
Prepared by the Municipal Water District of Orange County
 *Number are Subject to Change





Lake Mead Levels: Historical and Projected projection per USBR 24-Month Study

■ Historical □ Projected



**Administration Activities Report
September 4, 2015 to October 6, 2015**

Activity	Summary
Administration Board	<ul style="list-style-type: none"> • Maribeth has been scheduling meetings for Rob Hunter and other various meetings of the Board members • Maribeth has been assisting Rob/Karl with various write ups and follow-up for the Committees and Board, as well as a couple of comprehensive research projects, working with senior staff on capturing new requirements under the Admin Code, reapplying for the Transparency of Excellence award (and is currently waiting for concurring letters from both West Basin and LAFCO). • Maribeth is orchestrating updates to the Open Government Portal and recommending changes/updates. • Maribeth is preparing invoices to MET on the Doheny project subsidies (grants), and sending the monthly Water Supply Reports to the agencies. • Pat has been scheduling meetings for Karl and an OC-88 Shutdown meeting with MET and our agencies for Keith and Kevin. • Pat formatted and sent letters for Heather to OC delegation. • Pat has been scheduling travel for the ACWA Fall Conference, WaterSmart Innovations, ACWA Federal Affairs and Legislative Committees, CUWCC, and other misc. travel and/or workshops, which includes preparation of purchase requisitions and back-up. • Pat scanned and emailed Managers' meeting handouts to our agency managers.
MWDOC OCWD Joint Administration	No new activity this month.
Health Benefits	<ul style="list-style-type: none"> • Katie coordinated a meeting with staff and JPIA to provide staff members with information on the High Deductible Health Plan that is anticipated to be offered to employees for 2016. • Several MWDOC staff attended the OCWD Health Fair on October 8th where information on healthy lifestyles was provided and health screening tests were offered. • Save the Date: flu shots will be provided on October 15th between 10:30 and 12:30. Please RSVP to Katie as reservations are necessary. • Open enrollment will be during October 26 through November 13th. Complete information will be provided around October 23rd. • The addition of the HDHP Plans and implementation of HSA accounts will be presented to the Board for consideration at the October meeting.

Records Management	<ul style="list-style-type: none"> • Sarah finalized the paperwork for the destruction of 10 boxes of accounting records at Iron Mountain. • Maribeth and Sarah worked with Richard to sort documents in his office and purge unnecessary records. They identified documents for the Doheny Desalination Project, which need to be shared with South Coast Water District. • Leah, Pari, and Sarah are working on scanning the Doheny records to send electronic files to South Coast. • Sarah processed new agreements, and spent some time in the vault organizing files to make room for new turf program records. • Sarah processed new WARN agreements for Kelly, and imported files to Laserfiche.
CalPERS	Nothing to report this month.
Agency Inquiries	Responded to the following inquiries: None to report.
Recruitment Departures	<ul style="list-style-type: none"> • Recruitment activities continue to fill the vacancies for a Water Use Efficiency Analyst, a Principal Engineer/ Principal Analyst and WUE Coordinator. • Kat Rojas, WUE Program Assistant will be departing the District on 10/22. • Marey Gutierrez, PA Intern, will be departing the District in late December. • Judy Pfister continues to assist the Finance Department on a temporary limited term basis to assist with the audit which is nearly complete.
Other	
Projects and Activities	<ul style="list-style-type: none"> • Cathy is continuing to work with the Pacific Design Center to evaluate the upcoming office areas to be renovated (MWDOC lobby and restrooms) and office space planning options. • Cathy has been working on finalizing IRS Audit issues. • Cathy is coordinating with the Board President on preparing for the General Manager's evaluation and the Performance Evaluation Guidelines. • Cathy completed a General Manager's Compensation Survey. • Cathy is seeking proposals for building appraisals. • Katie is coordinating the Annual MWDOC Employee Holiday Luncheon. • Cathy and Katie attended the Quarterly Member Agency Human Resources Meeting at IRWD on September 17th.

**INFORMATION ITEM****October 14, 2015**

TO: **Administration Finance Committee**
(Directors Thomas, Barbre, Osborne)

FROM: Robert J. Hunter, General Manager

Staff Contact: Jeff Stalvey

SUB ECT: **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 2015-16. Highlighted items reflect updates from last month.

Description	% of Completion	Estimated Completion date	Status
<u>Finance</u>			
Further Implementation of WUE Landscape Programs Databases and Web Site.	On-going	On-going	In Progress
Government Compensation in California report	20%	11/30/15	In Progress
State Controller Report preparation	20%	11/30/15	In Progress
State Tax filing for Water Facilities	90%	11/30/15	In Progress
Fiscal Year 2014/15 Annual Audit by Vavrinek, Trine, Day & Company	90%	11/04/15	Final Audit complete. Pending Annual Financial Review.
Annual Financial Statement Report	95%	11/04/15	In Progress
Received interest payments of \$10,252 reimbursed for 1997-2001 Brown Act state mandated costs	N A	N/A	Additional funds received in October
FHLMC Step from 06/15 called 9/24. Reinvested in Barclay's 4yr @ 1.9% CD.	100%	9/24/15	Completed
Preparation of documents for FY16-17 budget process.	0%	5/31/16	Not Started

<u>Information Technology</u>			
Network security issues (hackers, viruses and spam emails)	On-going	On-going	Continuous system monitoring
Implement and deploy Malware/Spyware Protection for all Workstations	10%	2/28/16	In Progress
Implement and install E-mail Archiver system.	0%	6/30/16	Not Started
Upgrade Exchange E-mail Server to the latest version (Exchange 2013)	0%	6/30/16	Not Started
Purchase and upgrade Finance Check printer	90%	12/30/15	In Progress
Purchase and upgrade 13 Desktop Computers with monitors for Staff.	50%	12/31/15	In Progress
Purchase and upgrade District Broadband Speed	30%	12/31/15	In Progress
Virtualize and migrate HR ABRA database Server	0%	02/28/16	Not Started
Purchase and install Plotter	10%	12/31/15	In Progress
Recycle obsolete and non-function IT Equipment.	20%	2/28/16	In Progress

FY 2015-16 Completed Special Tasks

Description	% of Completion	Completion date	Status
<u>Finance</u>			
Matured Security with JPMorgan reinvested, FHLMC 3yr step@1.609%.	100%	6/24/15	Completed
Step-up from 01/15 called. Reinvested in 2.5yr @ 1.45% and 3yr @ 1.7% CD's.	100%	8/05/15	Completed
BofA CD matured 9/1. Re-invested in Capital One NA 4yr CD at 1.95%	100%	9/2/15	Completed

Description	% of Completion	Completion date	Status
<u>Information Technology</u>			