



**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

December 16, 1997

**To:** Board of Directors (Water Planning and Resources Committee--Information)  
(Engineering and Operations Committee--Information)

**From:** *for* General Manager

*Edward J. Meo*  
*Debra C. Man*

**Submitted by:** Debra C. Man, Chief  
Planning and Resources

**Subject:** Fiscal Year 1997-98 Second Quarter Status Report on the Local Projects and  
Groundwater Recovery Programs

**RECOMMENDATION**

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For information only.

**EXECUTIVE SUMMARY**

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Metropolitan has entered into agreements to provide financial assistance for up to 230,984 acre-feet per year of production from 42 water recycling and 11 groundwater treatment projects. Forty of these projects are in operation. Since 1982, Metropolitan has provided approximately \$49.2 million to support about 311,700 acre-feet of water production. This locally developed water improves regional water supply reliability and helps reduce cost by displacing requirements for future Metropolitan capital improvements and water importation.

**DETAILED REPORT**

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**Introduction**

Metropolitan's three programs, the Local Projects Program (LPP), the Groundwater Recovery Program (GRP), and the temporary Local Resources Program (LRP) provide financial assistance for local water development as listed below:

	<b>LPP</b>	<b>Temporary LRP</b>	<b>GRP</b>
Type of Production	Recycled Water	Recycled Water	Recovered Groundwater
Financial Assistance	\$154/AF	\$0 to \$250/AF	\$0 to \$250/AF

Locally developed water, under these programs, improves regional water supply reliability and cost by reducing requirements for future Metropolitan capital improvements and water

importation. Since 1982, these three programs have supported 311,700 acre-feet (AF) of recycled water and recovered groundwater with \$49.2 million in financial assistance for 40 operating projects.

### **Quarterly Highlights**

1. Your Board approved LRP Principles recommended by the Rate Refinement Task Force. The principles will guide development of administrative rules and ultimately lead to implementation of the final LRP.
2. Padre Dam's Reclaimed Water System Phase I Expansion began operation. The project will deliver about 850 acre-feet per year (AFY) of tertiary treated water for landscape irrigation and recreational use in the City of Santee.
3. The Orange County Water District (OCWD) and Irvine Ranch (IRWD) intertie was dedicated. The pipeline will deliver 4.6 million gallons per day of recycled water from IRWD to OCWD for irrigation and industrial uses during the winter.
4. An annual LRP status report providing a concise description and map of each participating project was completed and may be obtained from the Office of the Executive Secretary of your Board.
5. The five-year LPP Agreement for the 165 AFY Encina Water Pollution Control Facility Reclamation Project expired November 30, 1997.

### **Water Recycling Status**

Metropolitan has entered into 42 LPP agreements to assist recycled water production of up to 190,300 acre-feet per year (Table 1). Thirty-three projects are operating and production is expected to increase from about 49,000 acre-feet last fiscal year to about 61,000 acre-feet this fiscal year. Since inception of its programs, Metropolitan has contributed \$37.6 million, supporting production of nearly 243,100 AF of recycled water production under LPP and LRP for landscape irrigation, nurseries, seawater barriers, and industrial uses.

### **Groundwater Recovery Status**

Metropolitan has entered into 11 agreements to assist recovery of about 40,700 AFY of degraded groundwater (Table 2). Seven projects are operating and are expected to increase production from about 16,000 AF last fiscal year to 17,000 AF this fiscal year. Since inception of this program, Metropolitan has contributed approximately \$11.6 million, supporting about 68,600 AF of recovered groundwater production for municipal uses.

### **Projects Under Consideration**

Applications have been received for 11 new water recycling projects and nine new groundwater recovery projects which would collectively yield about 151,600 AFY (Table 3).

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Attachment(s)

**ATTACHMENT 1 FOR BOARD LETTER 9-6**

**TABLE 1  
RECYCLING CONTRACTS**

MEMBER AGENCY	PROJECT	CONTRACT YIELD (AFY)	FY 96-97 <sup>1</sup> YIELD (AFY)	FY 97-98 YIELD (AFY)	TOTAL TO DATE <sup>1</sup>		
					YIELD (AF)	Contribution (\$)	
<b>LOCAL PROJECTS PROGRAM:</b>							
Calleguas MWD	1 Oak Park/North Ranch Reclaimed Water Dist. System	1,300	880	446	1,598	246,046	
Central Basin MWD	2 Cerritos Reclaimed Water Extension Project	260	260	174	1,045	160,992	
	3 Lakewood Water Reclamation Project	440	440	235	3,510	540,602	
Chino Basin MWD	4 Carbon Canyon Reclamation Project	13,500	0	0	0	0	
Coastal MWD	5 San Clemente Water Reclamation Project	4,000	358	178	2,682	413,013	
	6 South Laguna Reclamation Expansion Project	700	0	0	54	8,239	
	7 South Laguna Reclamation Project	860	795	419	9,431	610,167	
Eastern MWD	8 Rancho California Reclamation Expansion Project	6,000	2,058	784	6,987	1,076,013	
	9 Eastern Regional Reclaimed Water System	4,830	0	0	0	0	
	10 Eastern Reach 1, Phase II Water Reclamation Project	1,700	0	0	0	0	
City of Glendale	11 Glendale Water Reclamation Expansion Project	600	318	185	1,866	287,287	
Las Virgenes MWD	12 Calabasas Reclaimed Water System Extension Project	700	437	103	3,139	483,437	
	13 Las Virgenes MWD Reclamation Project	2,700	3,784	1,703	33,125	2,806,369	
City of Long Beach	14 Long Beach Reclamation Project	1,700	1,345	797	10,630	1,543,989	
	15 Long Beach Reclaimed Water Master Plan Phase I	2,750	0	0	0	0	
City of Los Angeles	16 Los Angeles Greenbelt Project	1,610	837	451	3,454	531,962	
	17 Sepulveda Basin Water Reclamation Project	1,900	0	0	0	0	
MWD of Orange County	18 Irvine Reclamation Project	10,000	8,900	4,696	72,373	9,847,929	
	19 Moulton Niguel Water Reclamation Project	8,000	2,038	592	6,565	1,010,979	
	20 Santa Margarita Water Reclamation Project	3,600	1,885	1,147	13,729	2,040,251	
	21 Trabuco Canyon Reclamation Expansion Project	800	369	0	1,515	233,248	
San Diego County Water Authority	22 Encina Water Pollution Control Reclamation Project <sup>3</sup>	165	165	69	719	110,711	
	23 Oceanside Water Reclamation Project	300	26	0	102	15,770	
	24 Santa Maria Water Reclamation Project	1,600	0	0	0	0	
	25 Shadowridge Water Reclamation Project	375	346	181	1,752	269,823	
Three Valleys MWD	26 Walnut Valley Water Reclamation Expansion Project	500	466	0	1,559	240,117	
Subtotal		70,890	25,707	12,160	175,836	22,476,942	
<b>TEMPORARY LOCAL RESOURCE PROGRAM:</b>							
City of Burbank	27 Burbank Reclaimed Water System Expansion Project	850	517	231	934	233,160	
Central Basin MWD	28 Century Reclamation Program	5,500	3,201	1,484	11,550	2,426,915	
	29 Rio Hondo Water Reclamation Program	5,000	281	126	678	156,657	
Coastal MWD	30 Green Acres Reclamation Project (Coastal MWD) <sup>2</sup>	800	0	0	0	0	
City of Glendale	31 Glendale Brand Park Reclaimed Water Project	225	0	0	0	0	
	32 Glendale Verdugo-Scholl Reclaimed Water Project	2,000	443	278	939	231,647	
MWD of Orange County	Green Acres Reclamation Project (MWDOC) <sup>2</sup>	5,400	1,307	420	5,125	1,042,481	
San Diego County Water Authority	33 Encina Basin Water Reclamation Project Phase I	2,050	1,340	812	5,491	1,020,652	
	34 Escondido Regional Reclaimed Water Project	2,800	0	0	0	0	
	35 Fallbrook Public Utility District Water Reclamation Project	1,200	707	426	2,723	564,094	
	36 North City Water Reclamation Project	17,500	0	0	0	0	
	37 Otay Water Reclamation Project Phase I	1,500	896	494	4,645	897,614	
	38 Padre Dam MWD Reclaimed Water System Phase I	850	0	0	0	0	
	39 Rancho Santa Fe Reclaimed Water System	220	0	0	0	0	
	40 San Elijo Water Reclamation System	1,600	0	0	0	0	
41 San Pasquel Water Reclamation Project	1,100	245	77	641	148,068		
City of Santa Ana	Green Acres Reclamation Project (Santa Ana) <sup>2</sup>	800	364	103	719	166,734	
	41 San Pasqual Water Reclamation Project	1,100	245	77	641	148,068	
City of Santa Ana	Green Acres Reclamation Project (Santa Ana) <sup>2</sup>	800	364	103	719	166,734	
West Basin MWD	42 West Basin Water Reclamation Program	70,000	14,446	8,210	33,797	8,263,450	
Subtotal		119,395	23,746	12,661	67,240	15,151,471	
<b>33 Operating Projects</b>		<b>Total</b>	<b>190,285</b>	<b>49,453</b>	<b>24,821</b>	<b>243,076</b>	<b>37,628,413</b>

1. Totals through November 1997 as reported to date - not all information is complete.  
2. Green Acres Reclamation Project is approved as one project to deliver water to Coastal MWD, MWDOC, and Santa Ana.  
3. Actual production is reported for the 1996-97 Fiscal Year, however Metropolitan's financial contribution is limited to contract yield.

**ATTACHMENT 2 FOR BOARD LETTER 9-6**

**TABLE 2  
GROUNDWATER RECOVERY CONTRACTS**

MEMBER AGENCY	PROJECT	CONTRACT YIELD <sup>1</sup> (AFY)	FY 96-97 YIELD <sup>2</sup> (AF)	FY 97-98 YIELD <sup>2</sup> (AF)	TOTAL TO DATE <sup>2</sup>		
					YIELD (AF)	Contribution (\$)	
<b>GROUNDWATER RECOVERY PROGRAM:</b>							
City of Santa Monica	1. Santa Monica Groundwater Treatment Plant	1,800	1,800.0	750.0	9,520.0	0.0	
City of Burbank	2. Burbank Lake St. GAC Treatment Plant	2,744	1,778.2	678.0	10,175.9	609,722.6	
West Basin MWD	3. West Basin Desalter Project	1,524	1,293.0	382.3	5,990.4	1,497,625.0	
San Diego CWA	4. Oceanside Desalter Project	2,000	2,185.3	895.4	7,945.9	1,787,430.1	
	5. Lower Sweetwater River Groundwater Demineralization Project, Phase I	3,600	0.0	0.0	0.0	0.0	
MWD of Orange County	6. Tustin Desalter Project	3,271	1,923.0	1,065.9	2,988.9	271,254.0	
	7. Irvine Desalter Project	6,700	0.0	0.0	0.0	0.0	
Western MWD/ Chino Basin MWD	8. Chino Basin Desalination Program, Phase I	8,000	0.0	0.0	0.0	0.0	
Eastern MWD	9. Menifee Basin Desalter Project	3,360	0.0	0.0	0.0	0.0	
Subtotal		32,999	8,979.5	3,771.6	36,621.1	4,166,031.8	
<b>LOCAL PROJECTS PROGRAM:</b>							
Foothill MWD	10. Glenwood Nitrate Water Reclamation Project	1,600	888.0	121.8	4,011.0	617,687.8	
Western MWD	11. Arlington Basin Groundwater Desalter Project <sup>3</sup>	6,100	6,176.2	1,946.5	27,984.8	6,803,654.8	
Subtotal		7,700	7,064.2	2,068.3	31,995.8	7,421,342.6	
<b>7 Operating Projects</b>	<b>Total</b>	<b>40,699</b>	<b>16,043.7</b>	<b>5,839.9</b>	<b>68,616.9</b>	<b>11,587,374.4</b>	

1. Most contracts allow an additional 20% production.
2. Totals through November 1997 as reported to date - not all information is complete.
3. Actual production is reported for the 1996-97 Fiscal Year, however Metropolitan's financial contribution is limited to contract yield.

**ATTACHMENT 3 FOR BOARD LETTER 9-6**

**TABLE 3  
PROJECT APPLICATIONS**

<b>MEMBER AGENCY</b>		<b>PROJECT</b>	<b>OPERATING AGENCY</b>	<b>MAXIMUM YIELD (AFY)</b>
<b>GROUNDWATER PROJECTS:</b>				
City of Beverly Hills	1.	Beverly Hills Desalter	City of Beverly Hills	2,688
Coastal MWD	2.	Capistrano Beach Desalter	Capistrano Beach CWD	1,372
MWD of Orange Co.	3.	San Juan Basin Desalter	San Juan Basin Authority	2,200
San Diego CWA	4.	Oceanside Desalter Phase II	City of Oceanside	4,500
	5.	Bonsall Desalter	Rainbow MWD	2,000
Three Valleys MWD	6.	Baldwin Park Operable Unit (San Gabriel Basin)	Three Valleys MWD	24,100
	7.	Rowland Groundwater Treatment Plant	Three Valleys MWD	516
City of Torrance	8.	Medrona Desalination Facility Project	Water Replenishment District of So. California	2,365
West Basin MWD	9.	Sepulveda Desalination Facility Project	Water Replenishment District of So. California	2,335
Subtotal				42,076
<b>RECYCLING PROJECTS:</b>				
Calleguas MWD	10.	Conejo Creek Diversion Project	Calleguas MWD	14,000
Central Basin MWD	11.	Alamitos Barrier Reclaimed Water Project	Water Replenishment District of So. California	3,000
City of Los Angeles	12.	Harbor Water Recycling Project	City of Los Angeles	5,000
City of Pasadena	13.	Pasadena Reclaimed Water Project	City of Pasadena	4,000
Chino Basin MWD	14.	Chino Basin RP-4 Reclamation Project	Chino Basin MWD	7,102
MWD of Orange Co.	15.	Orange County Reclamation Project, Phase I	Orange County Water District	50,000
San Diego CWA	16.	San Pasqual Groundwater Management Project	City of San Diego	8,000
	17.	Rincon Del Diablo Reclaimed Water Distribution Project	Rincon Del Diablo	450
	18.	Water Repurification Project	City of San Diego	15,000
	19.	Southeast Quadrant Reclaimed Water Project	Olivenhain MWD	2,150
	20.	Northwest Quadrant Reclaimed Water Project	Olivenhain MWD	800
Subtotal				109,727
<b>Total</b>				<b>151,803</b>