



**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

9-8

March 25, 1997

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

From: General Manager Edward S. Mess III

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

Subject: Fiscal Year 1996-97 Third Quarter Status Report on the Local Projects and  
Groundwater Recovery Programs

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## RECOMMENDATION

For information only.

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## EXECUTIVE SUMMARY

Metropolitan has entered into agreements to provide financial assistance to 42 water recycling and 11 groundwater treatment projects. Under these agreements, up to 230,984 acre-feet per year (AFY) are eligible for assistance.

Thirty-seven of these projects are in operation. Since 1982, Metropolitan has provided approximately \$39.1 million to support about 254,000 AF of water production. This locally-developed water improves regional water supply reliability by displacing requirements for future Metropolitan capital improvements and water importation.

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## DETAILED REPORT

### Introduction

This quarterly status report addresses the Local Projects Program (LPP), the Groundwater Recovery Program (GRP), and the temporary Local Resources Program (LRP). Metropolitan is assisting water recycling projects in agreements that provide either: a flat \$154 per acre-foot (AF) contribution over a negotiated term extending up to 25 years under LPP, or a sliding scale contribution of \$0 to \$250 per AF over a standard 25-year term under LRP. In GRP agreements, Metropolitan contributes \$0 to \$250 per AF over a 20-year term to projects that increase groundwater production by treating and distributing groundwater of degraded quality.

Locally-developed water under these programs improves regional water supply reliability by displacing requirements for future Metropolitan capital improvements and water importation. Since 1982, Metropolitan has entered 53 agreements supporting 254,000 AF of water production as shown on Figures 1 and 2.

### **Quarterly Highlights**

- Metropolitan entered into a GRP agreement for the Sweetwater Desalter Project with the San Diego County Water Authority and the Sweetwater Authority. The project will ultimately deliver about 3,600 acre-feet per year (AFY) of treated groundwater for municipal use.
- The State Water Resources Control Board is establishing guidelines for distribution of \$60 million for low interest loans for water recycling projects pursuant to voter approval of Proposition 204.
- Metropolitan completed 16 temporary conversions of LPP agreements to LRP agreements, which provide up to \$250 per AF of assistance for water recycling projects. The opportunity for conversion ended on December 31, 1996.

### **Water Recycling Status**

Metropolitan has entered into agreements to assist 42 water recycling projects with up to 190,000 AFY of production (see Table 1). Thirty projects are operating and expected to increase production from about 43,000 AF in fiscal year 1995-96 to about 53,000 AF this fiscal year. Since inception of its programs, Metropolitan has contributed approximately \$29.2 million supporting the production of nearly 198,000 AF of recycled water under LPP and LRP for landscape irrigation, nurseries, seawater barriers, and industrial uses.

### **Groundwater Recovery Status**

Metropolitan has entered into agreements to assist 11 projects that will recover about 41,000 AFY of degraded groundwater (see Table 2). Seven projects are in operation, while the remaining four are in design or under construction. Production is expected to increase from about 11,400 AF in fiscal year 1995-96 to 15,000 AF this fiscal year. Since inception of its programs, Metropolitan has contributed approximately \$9.9 million, supporting the production of about 56,700 AF of recovered groundwater for municipal uses.

### **Projects Under Consideration**

Staff is negotiating one GRP agreement which your Board previously authorized for 516 AFY (see Table 3). Applications have been received for ten new water recycling projects and six new groundwater recovery projects which would collectively yield about 94,000 AFY (see Table 4).

JPI:jpa

Attachments

**TABLE 1  
RECYCLING CONTRACTS**

MEMBER AGENCY	PROJECT	CONTRACT YIELD (AFY)	FY 95-96 YIELD (AFY)	FY 96-97 <sup>1</sup> 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	260	560	832	128,066
Central Basin MWD	2. Cerritos Reclaimed Water Extension Project	260	254	137	748	115,146
	3. Lakewood Water Reclamation Project	440	440	260	3,095	476,615
Chino Basin MWD	4. Carbon Canyon Reclamation Project	13,500	0	0	0	0
Coastal MWD	5. San Clemente Water Reclamation Project	4,000	355	203	2,349	361,777
	6. South Laguna Reclamation Expansion Project	700	0	0	54	8,239
	7. South Laguna Reclamation Project	860	776	480	8,697	610,167
Eastern MWD	8. Rancho California Reclamation Expansion Project	6,000	1,473	1,024	5,170	796,134
	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	306	215	1,577	242,904
Las Virgenes MWD	12. Calabasas Reclaimed Water System Extension Project	700	491	318	2,917	449,249
	13. Las Virgenes MWD Reclamation Project	2,700	2,968	1,756	29,394	2,806,369
City of Long Beach	14. Long Beach Reclamation Project	1,700	1,260	826	9,315	1,341,417
	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	791	0	2,166	333,610
	17. Sepulveda Basin Water Reclamation Project	1,900	0	0	0	0
MWD of Orange County	18. Irvine Reclamation Project	10,000	10,000	6,422	65,198	8,743,087
	19. Moulton Niguel Water Reclamation Project	8,000	1,594	859	4,793	738,184
	20. Santa Margarita Water Reclamation Project	3,600	1,801	1,219	11,916	1,761,110
	21. Trabuco Canyon Reclamation Expansion Project	800	412	126	1,272	195,811
San Diego County Water Authority	22. Encina Water Pollution Control Reclamation Project	165	163	95	581	89,412
	23. Oceanside Water Reclamation Project	300	18	26	102	15,770
	24. Santa Maria Water Reclamation Project	1,600	0	0	0	0
	25. Shadowridge Water Reclamation Project	375	338	197	1,422	218,957
Three Valleys MWD	26. Walnut Valley Water Reclamation Expansion Project	500	500	0	1,094	168,430
Subtotal		70,890	24,201	14,722	152,692	19,600,453
<b>TEMPORARY LOCAL RESOURCE PROGRAM:<sup>3</sup></b>						
City of Burbank	27. Burbank Reclaimed Water System Expansion Project	850	186	276	462	115,185
Central Basin MWD	28. Century Reclamation Program	5,500	2,736	1,835	8,700	1,714,340
	29. Rio Hondo Water Reclamation Program	5,000	170	173	444	98,257
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	217	261	477	116,197
MWD of Orange County	Green Acres Reclamation Project (MWDOC) <sup>2</sup>	5,400	1,186	571	3,970	753,556
San Diego County Water Authority	33. Encina Basin Water Reclamation Project Phase I	2,050	1,245	902	4,241	754,198
	34. Escondido Regional Reclaimed Water Project	2800	0	0	0	0
	35. Fallbrook Public Utility District Water Reclamation Project	1,200	507	391	1,981	378,594
	36. North City Water Reclamation Project	17,500	0	0	0	0
	37. Otay Water Reclamation Project Phase I	1,500	919	452	3,707	670,521
	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 Pasqual Water Reclamation Project	1,100	244	149	468	104,743
City of Santa Ana	Green Acres Reclamation Project (Santa Ana) <sup>2</sup>	800	134	160	411	89,759
West Basin MWD	42. West Basin Water Reclamation Program	70,000	10,991	8,963	20,215	4,867,875
Subtotal		119,395	18,535	14,132	45,074	9,663,225
<b>Total</b>		<b>190,285</b>	<b>42,736</b>	<b>28,854</b>	<b>197,765</b>	<b>29,263,678</b>

1. Reported totals through February 1997 have been updated to reflect deliveries 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. Contribution subject to change based on annual reconciliation of actual project cost.

**TABLE 2  
GROUNDWATER RECOVERY CONTRACTS**

MEMBER AGENCY	PROJECT	CONTRACT YIELD (AFY)	FY 95-96 YIELD (AF)	FY 96-97 YIELD* (AF)	TOTAL TO DATE	
					YIELD (AF)	Contribution (\$)
<b>GROUNDWATER RECOVERY PROGRAM:</b>						
City of Santa Monica	1. Santa Monica Groundwater Treatment Plant	1,800	1,800.0	1,050.0	8,020.0	0.0
City of Burbank	2. Burbank Lake St. GAC Treatment Plant	2,744	2,225.8	1,349.0	9,068.7	528,362.6
West Basin MWD	3. West Basin Desalter Project	1,524	1,114.9	984.1	5,299.2	1,324,825.0
San Diego CWA	4. Oceanside Desalter Project	2,000	2,269.6	1,432.5	6,297.7	1,481,766.9
	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	0.0	978.0	978.0	67,482.0
	7. Irvine Desalter Project	6,700	0.0	0.0	0.0	0.0
Western MWD/ Chino Chino Basin MWD	8. Chino Basin Desalination Program, Phase I	8,000	0.0	0.0	0.0	0.0
Eastern MWD	9. Meniffee Basin Desalter Project	3,360	0.0	0.0	0.0	0.0
	Subtotal	32,999	7,410.3	5,793.6	29,663.6	3,402,436.6
<b>LOCAL PROJECTS PROGRAM:</b>						
Foothill MWD	10. Glenwood Nitrate Water Reclamation Project	1,600	1,196.7	553.5	3,554.7	547,417.6
Western MWD	11. Arlington Basin Groundwater Desalter Project	6,100	2,770.6	3,640.3	23,502.4	5,915,437.5
	Subtotal	7,700	3,967.3	4,193.8	27,057.1	6,462,855.1
	Total	40,699	11,377.6	9,987.4	56,720.7	9,865,291.7

1. Reported totals through February 1997 have been updated to reflect deliveries reported to date - not all information is complete.

**TABLE 3  
GROUNDWATER RECOVERY PROGRAM  
Board-Approved Projects Under Negotiation**

MEMBER AGENCY	PROJECT	OPERATING AGENCY	MAXIMUM YIELD (AFY)
Three Valleys MWD	1. Rowland Groundwater Treatment Project	Three Valleys MWD	516
<b>Total</b>			<b>516</b>

**TABLE 4  
APPLICATIONS UNDER REVIEW**

MEMBER AGENCY	PROJECT	OPERATING AGENCY	MAXIMUM YIELD (AFY)
<b>GROUNDWATER PROJECTS:</b>			
City of Beverly Hills	1. Beverly Hills Desalter	City of Beverly Hills	2,688
MWD of Orange County	2. Capistrano Beach Desalter	Capistrano Beach CWD	1,372
	3. San Juan Basin Desalter	San Juan Basin Authority	2,200
Three Valleys MWD	4. Baldwin Park Operable Unit (San Gabriel Basin)	Three Valleys MWD	24,100
San Diego CWA	5. Oceanside Desalter Phase II	City of Oceanside	4,500
	6. Bonsall Desalter	Rainbow MWD	2,000
Subtotal			36,860
<b>RECYCLING PROJECTS:</b>			
Calleguas MWD	7. Conejo Creek Diversion Project	Calleguas MWD	14,000
	8. Olsen Road Reclaimed Water Project	City of Thousand Oaks	225
City of Los Angeles	9. Harbor Water Recycling Project	City of Los Angeles	5,000
City of Pasadena	10. Pasadena Reclaimed Water Project	City of Pasadena	4,000
Chino Basin MWD	11. Chino Basin RP-4 Reclamation Project	Chino Basin MWD	7,102
San Diego CWA	12. San Pasqual Groundwater Management Project	City of San Diego	8,000
	13. Rincon Del Diablo Reclaimed Water Distribution Project	Rincon Del Diablo	450
	14. Water Repurification Project	City of San Diego	15,000
	15. Southeast Quadrant Reclaimed Water Project	Olivenhain MWD	2,150
	16. Northwest Quadrant Reclaimed Water Project	Olivenhain MWD	800
Subtotal			56,727
<b>Total</b>			<b>93,587</b>

**Figure 1**  
**RECYCLED & GROUNDWATER PROJECTS**  
**Cumulative Deliveries**

