



January 20, 1998

To: Board of Directors
From: *for* General Manager
Submitted by: Chief Engineer
for Chief of Operations

Jay Mahesh
Ray J. Anderson
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Subject: Operating Data for December 1997

The following tables contain December 1997 data on Metropolitan's water and power sales and purchases, treatment plants operations, reservoir storage, construction, employment, and Los Angeles Civic Center rainfall:

WATER SALES

TOTAL FISCAL	December 1997 AF	December 1996 AF	Year to Date AF
Total Water Sales	115,893	111,192	980,067
Revenue	\$41,277,532	\$39,377,526	\$365,787,651
Basic Service	79,350	85,627	803,795
Agricultural	7,986	4,475	71,555
Seasonal Storage	21,726	0	64,738
Seawater Barrier	1,717	0	11,424
Desalt & GWR	924	0	6,453
Reclaimed	4,190	3,568	28,908
Treated	67,992	74,298	654,699
Untreated	42,787	33,326	290,694

(See Tables A, B, and C for details.)

METROPOLITAN'S STATE WATER PROJECT (SWP) CHARGES AND PAYMENTS--FISCAL YEAR 1997/98

The following table shows a comparison of totals through December 1997:

Components	SWP Statement of Charges to Date	1997/98 Annual Budget to Date	Amount Paid to Date
Capital	149,141,236	73,174,231	73,174,231
Minimum	104,943,846	62,459,480	62,459,480
Power	71,608,386	44,979,122	39,661,103
Category III	10,000,000	0	0
Credits	<u>(47,373,936)</u>	<u>(15,082,253)</u>	<u>(12,502,469)</u>
Net SWP Costs	<u>\$288,319,533</u>	<u>\$165,530,580</u>	<u>\$162,792,345</u>

NOTE: Explanation of Budget-to-Date and Payments and Credits-to-Date variances:

The POWER variance of \$5.4 million is due to a \$3.6 million decrease in OFF-AQUEDUCT charges from the May 1997 revision and \$1.8 million decrease in VARIABLE due to the adjustment of the variable rates to \$0.00 for September thru December 1997 and the December 1997 application of prior period adjustment credits normally due to MWD in January and February 1998. CREDITS have a variance of (\$2.6) million due to delayed return of interest earnings and replacement accounting system refunds and the consideration of \$5.6 million in Off-Aqueduct credits to the current fiscal year instead of the prior fiscal year.

POWER FOR PUMPING

The following quantities of electric energy were generated for Metropolitan's pumping system in December 1997:

Colorado River Energy	<u>Kwh</u>
Hoover Power Plant	109,891,000
Parker Power Plant	9,336,000
Subtotal	<u>119,227,000</u>
Southern California Edison (SCE) Benefit Energy	31,249,473
SCE Exchange Energy	29,740,000
SCE Purchased Energy	0
California Department of Water Resources (DWR) Purchased Energy	900,000
Other Purchased Energy	<u>14,632,000</u>
Total Generated for Metropolitan	195,748,473
Power Available to DWR	0
CRA Power Available to SCE	0

HYDROELECTRIC POWER RECOVERY PLANTS--FISCAL YEAR 1997/98 ENERGY AND REVENUE ACCOUNT

December 1997

PLANT	Energy Sales (Kwh)		Gross Energy Revenue	
	This Month	F. Y. To Date	This Month	F. Y. To Date
PHASE I				
Greg Avenue	0	67,200	0.00	2,769.31
Lake Mathews	2,982,000	18,535,477	122,888.22	763,847.01
Foothill Feeder	2,436,000	19,454,299	100,387.56	801,711.65
San Dimas	1,296,000	17,586,000	53,408.16	724,719.06
Yorba Linda	<u>1,638,000</u>	<u>15,333,120</u>	<u>67,501.98</u>	<u>631,877.88</u>
Subtotal	8,352,000	70,976,096	344,185.92	2,924,924.91
PHASES II - IV				
Sepulveda Canyon	0	5,694,442	0.00	345,096.43
Venice	0	400,500	0.00	26,174.31
Temescal	1,830,000	9,327,000	69,480.82	449,925.22
Corona	1,821,000	9,816,000	69,096.13	481,439.99
Perris	0	4,077,000	0.00	255,603.84
Rio Hondo	0	2,800,000	0.00	147,137.92
Coyote Creek	1,827,000	9,732,000	69,019.20	475,809.33
Red Mountain	2,742,000	18,042,000	103,270.46	892,201.99
Valley View	<u>0</u>	<u>0</u>	<u>0.00</u>	<u>0.00</u>
Subtotal	8,220,000	59,888,942	310,866.61	3,419,333.94
Total Phase I-IV	<u>16,572,200</u>	<u>130,865,038</u>	<u>655,052.53</u>	<u>6,344,258.85</u>
Etiwanda	<u>0</u>	<u>16,377,000</u>	<u>0.00</u>	<u>421,508.66</u>
Total	<u>16,572,000</u>	<u>147,242,038</u>	<u>655,052.53</u>	<u>\$6,765,767.51</u>

WATER QUALITY--FILTRATION PLANT EFFLUENT (Average for Month)

Quality		Diemer	Jensen	Weymouth	Skinner Plant 1	Skinner Plant 2	Mills
Hardness--mg/l as CaCO ₃	Dec. 97	295*	132*	295*	288*	286*	88*
	Nov. 97	298	152	296	285	285	86
	Dec. 96	313	163	316	307	305	154
Total Dissolved Solids--mg/l	Dec. 97	614**	285*	608**	601**	598**	216**
	Nov. 97	615	307	614	593	592	199
	Dec. 96	670	342	665	655	648	339

* Preliminary

** Estimate

NA: Not Analyzed. Plant out of service.

(See Table D for Analysis of Water Supplies.)

WATER PROCESSED

		<u>Diemer</u>	<u>Jensen</u>	<u>Weymouth</u>	<u>Skinner</u>	<u>Mills</u>
		AF	AF	AF	AF	AF
<u>Individual Plant</u>						
	Dec. 97	27,508	10,672	20,070	11,861	2,429
	Nov. 97	34,154	12,879	23,240	16,689	4,178
	Dec. 96	28,449	11,927	20,797	11,690	2,331
		<u>Avg.</u>	<u>Ann.</u>	<u>Treated</u>	<u>Total Fiscal</u>	
		<u>Rate</u>	<u>Diff.</u>	AF	<u>Year to Date</u>	
		cfs	%		AF	
<u>Total all Plants</u>						
	Dec. 97	1,179	-5	72,539	664,592	
	Nov. 97	1,532	7	91,140	592,053	
	Dec. 96	1,223	9	75,194	684,383	

RESERVOIR STORAGE

	<u>Usable</u>	<u>December 1997</u>	<u>November 1997</u>	<u>December 1996</u>	<u>Annual</u>
	<u>Storage</u>				<u>Difference</u>
	%				
<u>Distribution</u>					
Lake Mathews	72	130,717	124,364	138,227	(7,510)
Lake Skinner	74	32,575	35,876	35,226	(2,651)
Colorado River Basin					
Upper Basin	88	27,401,400	28,194,400	25,842,400	1,559,000
Lower Basin	96	27,396,100	26,858,700	24,245,000	3,151,100
(See Table E for details)					
State Water Project					
Oroville	63	2,194,562	2,032,262	2,899,465	(704,903)
San Luis (State)	93	993,584	713,719	1,109,154	(115,570)
Pyramid	98	162,623	161,437	161,908	715
Castaic	88	268,497	233,843	269,769	(1,272)
Silverwood	92	65,262	64,591	11,010	54,252
Perris	81	103,267	102,771	120,798	(17,531)
Central Valley Project					
Clair Engle	61	1,485,580	1,452,680	2,035,380	(549,800)
Shasta	59	2,618,310	2,419,210	3,724,807	(1,106,497)
Folsom	42	421,200	433,300	496,931	(75,731)
New Melones	77	1,853,000	1,825,400	2,010,758	(157,758)
San Luis (federal)	67	649,388	451,882	794,240	(144,852)

CONSTRUCTION PROGRESS FOR NOVEMBER 1997

Twenty-three construction contracts, having a contract value in excess of \$1 billion, were in progress during the month of December 1997. Contract earnings under these contracts were \$21,693,737 this month. Status of these contracts at the end of the month follows:

	<u>Percent Completed</u>	<u>Estimated Completion</u>
Site Improvements at Joseph Jensen Filtration Plant	99	January 1998
Standby Emergency Power Additions Robert B. Diemer Filtration Plant	67	February 1998
Garvey Reservoir Composite Lining Construction	97	January 1998
Inland Feeder Contract No. 4 Mentone Pipeline Station 1019 to 1053	82	February 1998
Water Quality Laboratory Expansion	89	March 1998
Eastside Reservoir Project - P-1 Pressure Tunnel	63	July 1998
Eastside Reservoir Project - P-1 Pumping Plant	25	February 1999
Eastside Reservoir Project West Dam, Saddle Dam, and Forebay	59	June 1999
Eastside Reservoir Project East Dam	57	July 1999
Eastside Reservoir Project Inlet/Outlet Tower	18	September 1999
Inland Feeder Contract No. 2 Arrowhead East Tunnel	13	March 2002
Orange County Feeder Relocation Station 1331+50.00 to Station 1340+80.00 BK	97	February 1998
Joseph Jensen Filtration Plant Finished Water Reservoir No. 2 Repairs	30	July 1998
Protective Roof Structure for San Jacinto Diversion Structure	16	March 1998
Robert A. Skinner Filtration Plant Module 4 Filter Materials Replacement	73	February 1998
Seismic Upgrade and Rock Anchor Installation of Discharge Pipelines at Hinds Pumping Plant	57	September 1998
Eastside Reservoir Project Inland Feeder Pressure Control Structure	7	October 1999
Standby Emergency Power Additions F. E. Weymouth Filtration Plant	13	October 1998
Inland Feeder Riverside Pipeline - South	--	--
Inland Feeder Riverside Pipeline - North	1	April 2000
Joseph Jensen Filtration Plant, Module No. 1 Filter Materials Replacement	--	--

	<u>Percent Completed</u>	<u>Estimated Completion</u>
Seismic Upgrade and Rock Anchor Installation of Discharge Pipelines at Hinds Pumping Plant	57	September 1998
Eastside Reservoir Project Inland Feeder Pressure Control Structure	7	October 1999
Standby Emergency Power Additions F. E. Weymouth Filtration Plant	13	October 1998
Inland Feeder Riverside Pipeline - South	--	--
Inland Feeder Riverside Pipeline - North	1	April 2000
Joseph Jensen Filtration Plant, Module No. 1 Filter Materials Replacement	--	--

Awarded Contracts:

No construction contracts were awarded this month.

Completed Contracts:

Contract No. 1469, standby emergency power system additions for the Joseph Jensen Filtration Plant Expansion No. 1, was completed on December 8, 1997; the Notice of Completion was recorded on December 17, 1997.

Contract No. 1493, Iron Mountain Landfill Closure Project was completed on December 31, 1997; the Notice of Completion was recorded on January 7, 1998.

Procurement Contracts:

Final delivery for Contract No. 1468 was received on November 22, 1997.

RAINFALL AT LOS ANGELES CIVIC CENTER (INCHES)

During the Month	2.52
Total for Season (Fiscal Year)	5.03
Normal for Season to Date	4.82
Difference from Normal	0.21
Percent of Normal	104.4%
During Same Month Last Year	4.09
Total for Season (Last Fiscal Year)	6.74

DECEMBER TEMPERATURES AT LOS ANGELES CIVIC CENTER (DEGREES)

Average Maximum	68.5
Average Minimum	49.2
Average	58.85
30-Year Normal	58.3

EMPLOYMENT**Regular Employees by Division/Department**

	<u>December 1996</u>	<u>December 1997</u>	<u>Difference</u>
Engineering	442	426	-16
Operations	906	849	-57
Other Divisions and Departments	<u>658</u>	<u>630</u>	<u>-28</u>
<u>Total Permanent Employees</u>	2,006	1,905	-101
<u>Total Sunset Employees</u>	16	15	-1
<u>Total Two Cal Plaza Employees</u>	850	818	-32
<u>Minority Applicants</u>	14	144	130
<u>Minority New Hires</u>	1	2	1
<u>Non-Minority Applicants</u>	20	85	65
<u>Non-Minority New Hires</u>	1	1	0

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(opJan-98)
Attachments

WATER INFORMATION SYSTEM (WINS)

BILLING ACTIVITY REPORT FOR THE MONTH OF DECEMBER 1997 TABLE A

AGENCY	FULL SERVICE (AF)	AGR (AF)	ALL SEASONAL STORAGE (AF)	SEAWATER BARRIER (AF)	DESALTER & GWR (AF)	RECLAIMED (AF)	AGENCY TOTAL AF VOLUME (AF)	SPECIALS (\$)	DOLLAR AMOUNT (\$)
City of Anaheim	1,708.4	.0	.0	.0	.0	.0	1,708.4	5,150.00	694,238.40
City of Burbank	1,119.4	.0	.0	.0	.0	43.9	1,163.3	37,132.87	508,619.27
City of Beverly Hills	906.8	.0	.0	.0	.0	.0	906.8	53,374.67	444,205.47
City of Compton	204.3	.0	.0	.0	.0	.0	204.3	3,066.03	91,119.33
Calleguas MWD	4,679.8	354.5	.0	.0	.0	11.1	5,045.4	164,882.88	2,284,390.28
State of California	1.3	.0	.0	.0	.0	.0	1.3	191.30	645.00
Chino Basin MWD	2,619.5	30.2	2,017.1	.0	.0	.0	4,666.8	15,181.05	1,406,498.05
Central Basin MWD	3,644.6	.0	1,282.4	441.8	.0	197.2	5,566.0	23,375.00	2,109,687.20
Coastal MWD	2,816.9	.0	.0	.0	.0	9.5	2,826.4	79,057.44	1,291,678.34
Eastern MWD	2,586.6	136.0	9.3	.0	.0	167.6	2,899.5	-149,960.80	981,204.30
City of Fullerton	44.0	.5	.0	.0	.0	.0	44.5	2,975.00	22,086.00
Foothill MWD	576.5	.0	133.0	.0	.0	.0	709.5	8,664.39	295,705.89
City of Glendale	1,860.8	.0	.0	.0	.0	.0	1,860.8	65,491.33	867,496.13
City of Los Angeles	8,763.5	.0	.0	.0	.0	161.0	8,924.5	672,781.23	4,054,415.73
City of Long Beach	1,488.7	.0	2,870.6	.0	.0	6.7	4,366.0	8,250.00	1,481,321.90
Las Virgenes MWD	1,760.3	.0	.0	.0	.0	.0	1,760.3	33,322.55	792,011.85
MWD of Orange County	6,678.6	286.3	1,555.1	.0	206.7	2,006.1	10,732.8	307,474.87	3,354,599.67
City of Pasadena	395.4	.0	.0	.0	.0	.0	395.4	4,675.00	175,092.40
Three Valleys MWD	3,329.4	25.0	.0	.0	.0	.0	3,354.4	13,125.00	1,220,253.20
City of Santa Ana	774.8	.0	476.2	.0	.0	72.0	1,323.0	18,994.44	473,031.24
San Diego CWA	21,823.3	6,124.7	3,509.1	.0	161.5	133.6	31,752.2	24,400.00	10,602,891.00
City of San Fernando	.0	.0	.0	.0	.0	.0	.0	275.00	275.00
City of Santa Monica	732.5	.0	.0	.0	.0	.0	732.5	21,466.00	337,173.50
City of San Marino	23.5	.0	.0	.0	.0	.0	23.5	2,343.62	12,472.12
City of Torrance	1,309.2	.0	.0	.0	.0	.0	1,309.2	3,050.00	567,315.20
Upper San Gabriel Valley	283.4	.0	9,652.9	.0	.0	.0	9,936.3	-116,113.99	2,255,157.11
West Basin MWD	8,862.9	.0	220.1	1,275.4	99.6	1,381.1	11,839.1	587,930.23	4,651,070.73
Western MWD of Riverside	356.0	1,029.1	.0	.0	455.8	.0	1,840.9	-18,593.24	302,877.36
TOTALS:	79,350.4	7,986.3	21,725.8	1,717.2	923.6	4,189.8	\$1,871,961.87		
GRAND TOTAL SALES:	115,893.1 ACRE FEET						TOTAL NET INVOICE	\$41,277,531.67	

AGRICULTURAL, ADJUSTMENTS AND RECLASSIFICATIONS BY SEASONAL STORAGE (SSS) BILLING MAY LAG ACTUAL DELIVERIES BECAUSE MUCH OF THE WATER IS CERTIFIED FOR UP TO FOUR MONTHS AFTER DELIVERY. SPECIALS REPRESENT MONETARY DEBITS AND CREDITS FOR CONSERVATIONS, RTS, CMC, ETC. ALL SEASONAL STORAGE INCLUDES COOPERATIVE STORAGE PROGRAM.

WATER INFORMATION SYSTEM (WINS)

FISCAL YEAR TO DATE BILLING ACTIVITY REPORT THROUGH DECEMBER 1997

TABLE A

AGENCY	FULL SERVICE (AF)	AGR (AF)	ALL SEASONAL STORAGE (AF)	SEAWATER BARRIER (AF)	DESALTER & GWR (AF)	RECLAIMED (AF)	AGENCY TOTAL AF VOLUME (AF)	SPECIALS (\$)	DOLLAR AMOUNT (\$)	
City of Anaheim	11,084.1	.0	.0	.0	.0	.0	11,084.1	183,345.10	4,382,287.20	
City of Burbank	5,566.1	.0	.0	.0	822.3	328.3	6,716.7	213,586.23	2,448,429.93	
City of Beverly Hills	7,436.3	.0	.0	.0	.0	.0	7,436.3	320,248.02	3,525,293.32	
City of Compton	1,952.0	.0	.0	.0	.0	.0	1,952.0	18,114.19	859,426.19	
Calleguas MWD	48,536.7	3,932.4	3,475.0	.0	.0	456.8	56,400.9	786,308.98	23,799,155.08	
State of California	15.2	.0	.0	.0	.0	.0	15.2	1,525.20	6,830.00	
Chino Basin MWD	26,982.8	76.4	8,120.5	.0	.0	.0	35,179.7	-69,984.57	11,258,355.73	
Central Basin MWD	34,027.2	.0	3,212.2	3,251.3	.0	2,657.5	43,148.2	-280,772.27	16,063,347.33	
Coastal MWD	33,137.1	57.5	.0	.0	.0	232.5	33,427.1	452,343.47	14,715,533.57	
Eastern MWD	35,225.0	666.3	1,330.9	.0	.0	951.1	38,173.3	-985,086.53	14,556,410.97	
City of Fullerton	4,240.9	4.3	.0	.0	.0	.0	4,245.2	-26,431.87	1,802,660.23	
Foothill MWD	5,471.2	.0	427.5	.0	.0	210.5	6,109.2	53,666.88	2,503,312.08	
City of Glendale	14,984.1	.0	.0	.0	.0	686.9	15,671.0	392,840.03	6,706,391.73	
City of Los Angeles	64,540.4	.0	2,474.7	.0	.0	798.0	67,813.1	-1,975,860.42	23,428,923.28	
City of Long Beach	18,955.6	.0	4,167.7	.0	.0	803.2	23,926.5	184,463.38	9,439,267.18	
Las Virgenes MWD	10,705.5	.0	.0	.0	.0	172.9	10,878.4	214,909.53	4,802,353.43	
MWD of Orange County	90,482.8	1,773.9	21,078.4	.0	1,272.6	9,002.9	123,610.6	1,085,244.44	43,847,002.44	
City of Pasadena	8,716.5	.0	.0	.0	.0	.0	8,716.5	146,454.38	3,903,265.88	
Three Valleys MWD	37,371.8	76.5	.0	.0	.0	166.3	37,614.6	309,596.14	15,398,002.14	
City of Santa Ana	3,111.7	.0	2,108.3	.0	.0	215.6	5,435.6	97,958.64	1,996,608.34	
San Diego CWA	220,528.7	46,340.7	4,700.3	.0	1,056.9	2,343.1	274,969.7	2,726,207.05	100,009,777.05	
City of San Fernando	.2	.0	.0	.0	.0	.0	.2	-32,948.00	-32,861.80	
City of Santa Monica	6,093.7	.0	.0	.3	.0	.0	6,094.0	127,796.00	2,754,310.00	
City of San Marino	1,152.5	.0	.0	.0	.0	.0	1,152.5	13,503.10	510,230.60	
City of Torrance	11,298.0	.0	.0	.0	.0	.0	11,298.0	280,632.44	5,150,070.44	
Upper San Gabriel Valley	4,183.6	.0	13,006.6	.0	.0	.0	17,190.2	-721,468.51	4,112,200.89	
West Basin MWD	71,243.5	.0	636.4	8,173.4	481.9	9,882.1	90,417.3	3,723,846.88	35,546,035.58	
Western MWD of Riverside	19,944.5	18,629.6	.0	.0	2,819.2	.0	41,393.3	-207,801.65	12,295,033.55	
TOTALS:	<u>796,987.7</u>	<u>71,557.6</u>	<u>64,738.5</u>	<u>11,425.0</u>	<u>6,452.9</u>	<u>28,907.7</u>		<u>\$7,032,236.26</u>		
GRAND TOTAL SALES:	980,069.4 ACRE FEET							TOTAL NET INVOICE	<u>365,787,652.36</u>	

AGRICULTURAL, ADJUSTMENTS AND RECLASSIFICATIONS BY SEASONAL STORAGE (SSS) BILLING MAY LAG ACTUAL DELIVERIES BECAUSE MUCH OF THE WATER IS CERTIFIED FOR UP TO FOUR MONTHS AFTER DELIVERY. SPECIALS REPRESENT MONETARY DEBITS AND CREDITS FOR CONSERVATIONS, RTS, CMC, ETC. ALL SEASONAL STORAGE INCLUDES COOPERATIVE STORAGE PROGRAM.

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WATER INFORMATION SYSTEM (WINS)

BILLING ACTIVITY IN ACRE FEET FOR THE MONTH OF DECEMBER 1997

TABLE B

AGENCY	TREATED				UNTREATED				RECL (AF)	TOTAL VOLUME (AF)
	FULL SERVICE (AF)	AGR (AF)	SSS (AF)	VOLUME (AF)	FULL SERVICE (AF)	AGR (AF)	SSS (AF)	VOLUME (AF)		
City of Anaheim	1,132.4	.0	.0	1,132.4	576.0	.0	.0	576.0	.0	1,708.4
City of Burbank	1,119.4	.0	.0	1,119.4	.0	.0	.0	.0	43.9	1,163.3
City of Beverly Hills	906.8	.0	.0	906.8	.0	.0	.0	.0	.0	906.8
City of Compton	204.3	.0	.0	204.3	.0	.0	.0	.0	.0	204.3
Calleguas MWD	4,679.8	354.5	.0	5,034.3	.0	.0	.0	.0	11.1	5,045.4
State of California	.0	.0	.0	.0	1.3	.0	.0	1.3	.0	1.3
Chino Basin MWD	.0	.0	.0	.0	2,619.5	30.2	2,017.1	4,666.8	.0	4,666.8
Central Basin MWD	4,086.4	.0	1,282.4	5,368.8	.0	.0	.0	.0	197.2	5,566.0
Coastal MWD	2,816.9	.0	.0	2,816.9	.0	.0	.0	.0	9.5	2,826.4
Eastern MWD	2,586.6	136.0	.0	2,722.6	.0	.0	9.3	9.3	167.6	2,899.5
City of Fullerton	44.0	.5	.0	44.5	.0	.0	.0	.0	.0	44.5
Foothill MWD	576.5	.0	133.0	709.5	.0	.0	.0	.0	.0	709.5
City of Glendale	1,860.8	.0	.0	1,860.8	.0	.0	.0	.0	.0	1,860.8
City of Los Angeles	4,243.5	.0	.0	4,243.5	4,520.0	.0	.0	4,520.0	161.0	8,924.5
City of Long Beach	1,488.7	.0	2,870.6	4,359.3	.0	.0	.0	.0	6.7	4,366.0
Las Virgenes MWD	1,760.3	.0	.0	1,760.3	.0	.0	.0	.0	.0	1,760.3
MWD of Orange County	6,614.6	164.4	1,555.1	8,334.1	64.0	121.9	.0	185.9	2,212.8	10,732.8
City of Pasadena	395.4	.0	.0	395.4	.0	.0	.0	.0	.0	395.4
Three Valleys MWD	1,376.6	.0	.0	1,376.6	1,952.8	25.0	.0	1,977.8	.0	3,354.4
City of Santa Ana	774.8	.0	476.2	1,251.0	.0	.0	.0	.0	72.0	1,323.0
San Diego CWA	5,064.3	5,395.5	450.9	10,910.7	16,759.0	729.2	3,058.2	20,546.4	295.1	31,752.2
City of San Fernando	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
City of Santa Monica	732.5	.0	.0	732.5	.0	.0	.0	.0	.0	732.5
City of San Marino	23.5	.0	.0	23.5	.0	.0	.0	.0	.0	23.5
City of Torrance	1,309.2	.0	.0	1,309.2	.0	.0	.0	.0	.0	1,309.2
Upper San Gabriel Valley	283.4	.0	.0	283.4	.0	.0	9,652.9	9,652.9	.0	9,936.3
West Basin MWD	10,138.3	.0	220.1	10,358.4	.0	.0	.0	.0	1,480.7	11,839.1
Western MWD of Riverside	236.5	497.6	.0	734.1	119.5	531.5	.0	651.0	455.8	1,840.9
GRAND TOTAL:	54,455.5	6,548.5	6,988.3	67,992.3	26,612.1	1,437.8	14,737.5	42,787.4	5,113.4	115,893.1

FULL SERVICE INCLUDES SEAWATER BARRIER.
RECL. INCLUDES DESALTER AND GWR.

WATER INFORMATION SYSTEM (WINS)

FISCAL YEAR TO DATE BILLING ACTIVITY IN ACRE FEET THROUGH DECEMBER 1997 TABLE B

AGENCY	TREATED				UNTREATED				RECL (AF)	TOTAL VOLUME (AF)
	FULL SERVICE (AF)	AGR (AF)	SSS (AF)	VOLUME (AF)	FULL SERVICE (AF)	AGR (AF)	SSS (AF)	VOLUME (AF)		
City of Anaheim	4,031.6	.0	.0	4,031.6	7,052.5	.0	.0	7,052.5	.0	11,084.1
City of Burbank	5,566.1	.0	.0	5,566.1	.0	.0	.0	.0	1,150.6	6,716.7
City of Beverly Hills	7,436.3	.0	.0	7,436.3	.0	.0	.0	.0	.0	7,436.3
City of Compton	1,952.0	.0	.0	1,952.0	.0	.0	.0	.0	.0	1,952.0
Calleguas MWD	48,536.7	3,932.4	3,475.0	55,944.1	.0	.0	.0	.0	456.8	56,400.9
State of California	.0	.0	.0	.0	15.2	.0	.0	15.2	.0	15.2
Chino Basin MWD	.0	.0	.0	.0	26,982.8	76.4	8,120.5	35,179.7	.0	35,179.7
Central Basin MWD	37,278.5	.0	2,602.4	39,880.9	.0	.0	609.8	609.8	2,657.5	43,148.2
Coastal MWD	33,137.1	57.5	.0	33,194.6	.0	.0	.0	.0	232.5	33,427.1
Eastern MWD	35,225.0	666.3	.0	35,891.3	.0	.0	1,330.9	1,330.9	951.1	38,173.3
City of Fullerton	4,240.9	4.3	.0	4,245.2	.0	.0	.0	.0	.0	4,245.2
Foothill MWD	5,471.2	.0	427.5	5,898.7	.0	.0	.0	.0	210.5	6,109.2
City of Glendale	14,984.1	.0	.0	14,984.1	.0	.0	.0	.0	686.9	15,671.0
City of Los Angeles	27,482.2	.0	3,048.7	30,530.9	37,058.2	.0	-574.0	36,484.2	798.0	67,813.1
City of Long Beach	18,955.6	.0	4,167.7	23,123.3	.0	.0	.0	.0	803.2	23,926.5
Las Virgenes MWD	10,705.5	.0	.0	10,705.5	.0	.0	.0	.0	172.9	10,878.4
MWD of Orange County	89,361.0	580.8	2,049.3	91,991.1	1,121.8	1,193.1	19,029.1	21,344.0	10,275.5	123,610.6
City of Pasadena	8,716.5	.0	.0	8,716.5	.0	.0	.0	.0	.0	8,716.5
Three Valleys MWD	25,936.8	.0	.0	25,936.8	11,435.0	76.5	.0	11,511.5	166.3	37,614.6
City of Santa Ana	3,111.7	.0	2,108.3	5,220.0	.0	.0	.0	.0	215.6	5,435.6
San Diego CWA	80,046.6	40,954.7	494.0	121,495.3	140,482.1	5,386.0	4,206.3	150,074.4	3,400.0	274,969.7
City of San Fernando	.2	.0	.0	.2	.0	.0	.0	.0	.0	.2
City of Santa Monica	6,094.0	.0	.0	6,094.0	.0	.0	.0	.0	.0	6,094.0
City of San Marino	1,152.5	.0	.0	1,152.5	.0	.0	.0	.0	.0	1,152.5
City of Torrance	11,298.0	.0	.0	11,298.0	.0	.0	.0	.0	.0	11,298.0
Upper San Gabriel Valley	4,183.6	.0	.0	4,183.6	.0	.0	13,006.6	13,006.6	.0	17,190.2
West Basin MWD	79,416.9	.0	636.4	80,053.3	.0	.0	.0	.0	10,364.0	90,417.3
Western MWD of Riverside	12,632.3	11,855.3	.0	24,487.6	7,312.2	6,774.3	.0	14,086.5	2,819.2	41,393.3
GRAND TOTAL:	576,952.9	58,051.3	19,009.3	654,013.5	231,459.8	13,506.3	45,729.2	290,695.3	35,360.6	980,069.4

FULL SERVICE INCLUDES SEAWATER BARRIER.
RECL. INCLUDES DESALTER AND GWR.

**WATER INFORMATION SYSTEM (WINS)
REVENUE ACTIVITY FOR THE MONTH OF DECEMBER 1997
TABLE C**

AGENCY	TREATED			DOLLAR AMOUNT (\$)	UNTREATED			DOLLAR AMOUNT (\$)	RECL (\$)	SPECIAL (\$)	TOTAL DOLLAR AMOUNT (\$)
	FULL SERVICE (\$)	AGR (\$)	SSS (\$)		FULL SERVICE (\$)	AGR (\$)	SSS (\$)				
City of Anaheim	488,064.40	.00	.00	488,064.40	201,024.00	.00	.00	201,024.00	.00	5,150.00	694,238.40
City of Burbank	482,461.40	.00	.00	482,461.40	.00	.00	.00	.00	-10,975.00	37,132.87	508,619.27
City of Beverly Hills	390,830.80	.00	.00	390,830.80	.00	.00	.00	.00	.00	53,374.67	444,205.47
City of Compton	88,053.30	.00	.00	88,053.30	.00	.00	.00	.00	.00	3,066.03	91,119.33
Calleguas MWD	2,016,993.80	104,223.00	.00	2,121,216.80	.00	.00	.00	.00	-1,709.40	164,882.88	2,284,390.28
State of California	.00	.00	.00	.00	453.70	.00	.00	453.70	.00	191.30	645.00
Chino Basin MWD	.00	.00	.00	.00	914,205.50	7,127.20	469,984.30	1,391,317.00	.00	15,181.05	1,406,498.05
Central Basin MWD	1,760,571.40	.00	372,429.60	2,133,001.00	.00	.00	.00	.00	-46,688.80	23,375.00	2,109,687.20
Coastal MWD	1,214,083.90	.00	.00	1,214,083.90	.00	.00	.00	.00	-1,463.00	79,057.44	1,291,678.34
Eastern MWD	1,114,824.60	39,984.00	.00	1,154,808.60	.00	.00	2,166.90	2,166.90	-25,810.40	-149,960.80	981,204.30
City of Fullerton	18,964.00	147.00	.00	19,111.00	.00	.00	.00	.00	.00	2,975.00	22,086.00
Foothill MWD	248,471.50	.00	38,570.00	287,041.50	.00	.00	.00	.00	.00	8,664.39	295,705.89
City of Glendale	802,004.80	.00	.00	802,004.80	.00	.00	.00	.00	.00	65,491.33	867,496.13
City of Los Angeles	1,828,948.50	.00	.00	1,828,948.50	1,577,480.00	.00	.00	1,577,480.00	-24,794.00	672,781.23	4,054,415.73
City of Long Beach	641,629.70	.00	832,474.00	1,474,103.70	.00	.00	.00	.00	-1,031.80	8,250.00	1,481,321.90
Las Virgenes MWD	758,689.30	.00	.00	758,689.30	.00	.00	.00	.00	.00	33,322.55	792,011.85
MWD of Orange County	2,850,892.60	48,333.60	450,979.00	3,350,205.20	22,336.00	28,768.40	.00	51,104.40	-354,184.80	307,474.87	3,354,599.67
City of Pasadena	170,417.40	.00	.00	170,417.40	.00	.00	.00	.00	.00	4,675.00	175,092.40
Three Valleys MWD	593,314.60	.00	.00	593,314.60	607,913.60	5,900.00	.00	613,813.60	.00	13,125.00	1,220,253.20
City of Santa Ana	333,938.80	.00	138,098.00	472,036.80	.00	.00	.00	.00	-18,000.00	18,994.44	473,031.24
San Diego CWA	2,182,713.30	1,586,277.00	130,761.00	3,899,751.30	5,848,891.00	172,091.20	712,560.60	6,733,542.80	-54,803.10	24,400.00	10,602,891.00
City of San Fernando	.00	.00	.00	.00	.00	.00	.00	.00	.00	275.00	275.00
City of Santa Monica	315,707.50	.00	.00	315,707.50	.00	.00	.00	.00	.00	21,466.00	337,173.50
City of San Marino	10,128.50	.00	.00	10,128.50	.00	.00	.00	.00	.00	2,343.62	12,472.12
City of Torrance	564,265.20	.00	.00	564,265.20	.00	.00	.00	.00	.00	3,050.00	567,315.20
Upper San Gabriel Valley	122,145.40	.00	.00	122,145.40	.00	.00	2,249,125.70	2,249,125.70	.00	-116,113.99	2,255,157.11
West Basin MWD	4,369,003.30	.00	64,312.20	4,433,315.50	.00	.00	.00	.00	-370,175.00	587,930.23	4,651,070.73
Western MWD of Riverside	101,931.50	146,294.40	.00	248,225.90	41,705.50	125,434.00	.00	167,139.50	-93,894.80	-18,593.24	302,877.36
TOTAL :	23,469,049.50	1,925,259.00	2,027,623.80	27,421,932.30	9,214,009.30	339,320.80	3,433,837.50	12,987,167.60	-1,003,530.10	1,871,961.87	41,277,531.67

SPECIALS REPRESENT MONETARY DEBITS AND CREDITS FOR CONSERVATION, RTS, CMC, ETC.
FULL SERVICE INCLUDES SEAWATER BARRIER.
RECL. INCLUDES DESALTER AND GWR.

**WATER INFORMATION SYSTEM (WINS)
REVENUE ACTIVITY FOR THE FISCAL YEAR THRU THE MONTH OF DECEMBER 1997
TABLE C**

AGENCY	TREATED			DOLLAR AMOUNT (\$)	UNTREATED			DOLLAR AMOUNT (\$)	RECL (\$)	SPECIAL (\$)	TOTAL DOLLAR AMOUNT (\$)
	FULL SERVICE (\$)	AGR (\$)	SSS (\$)		FULL SERVICE (\$)	AGR (\$)	SSS (\$)				
City of Anaheim	1,737,619.60	.00	.00	1,737,619.60	2,461,322.50	.00	.00	2,461,322.50	.00	183,345.10	4,382,287.20
City of Burbank	2,398,989.10	.00	.00	2,398,989.10	.00	.00	.00	.00	-164,145.40	213,586.23	2,448,429.93
City of Beverly Hills	3,205,045.30	.00	.00	3,205,045.30	.00	.00	.00	.00	.00	320,248.02	3,525,293.32
City of Compton	841,312.00	.00	.00	841,312.00	.00	.00	.00	.00	.00	18,114.19	859,426.19
Calleguas MWD	20,919,317.70	1,156,125.60	1,007,750.00	23,083,193.30	.00	.00	.00	.00	-70,347.20	786,308.98	23,799,155.08
State of California	.00	.00	.00	.00	5,304.80	.00	.00	5,304.80	.00	1,525.20	6,830.00
Chino Basin MWD	.00	.00	.00	.00	9,423,736.60	18,030.40	1,886,573.30	11,328,340.30	.00	-69,984.57	11,258,355.73
Central Basin MWD	16,065,850.00	.00	755,642.80	16,821,492.80	.00	.00	142,083.40	142,083.40	-619,456.60	-280,772.27	16,063,347.33
Coastal MWD	14,282,090.10	16,905.00	.00	14,298,995.10	.00	.00	.00	.00	-35,805.00	452,343.47	14,715,533.57
Eastern MWD	15,169,785.50	208,081.70	.00	15,377,867.20	.00	.00	310,099.70	310,099.70	-146,469.40	-985,086.53	14,556,410.97
City of Fullerton	1,827,827.90	1,264.20	.00	1,829,092.10	.00	.00	.00	.00	.00	-26,431.87	1,802,660.23
Foothill MWD	2,358,087.20	.00	123,975.00	2,482,062.20	.00	.00	.00	.00	-32,417.00	53,666.88	2,503,312.08
City of Glendale	6,458,147.10	.00	.00	6,458,147.10	.00	.00	.00	.00	-144,595.40	392,840.03	6,706,391.73
City of Los Angeles	11,844,461.70	.00	884,416.20	12,728,877.90	12,929,451.80	.00	-130,654.00	12,798,797.80	-122,892.00	-1,975,860.42	23,428,923.28
City of Long Beach	8,169,863.60	.00	1,208,633.00	9,378,496.60	.00	.00	.00	.00	-123,692.80	184,463.38	9,439,267.18
Las Virgenes MWD	4,614,070.50	.00	.00	4,614,070.50	.00	.00	.00	.00	-26,626.60	214,909.53	4,802,353.43
MWD of Orange County	38,514,320.00	170,414.70	594,786.20	39,279,520.90	391,508.20	281,571.60	4,433,781.10	5,106,860.90	-1,624,623.80	1,085,244.44	43,847,002.44
City of Pasadena	3,756,811.50	.00	.00	3,756,811.50	.00	.00	.00	.00	.00	146,454.38	3,903,265.88
Three Valleys MWD	11,178,760.80	.00	.00	11,178,760.80	3,917,201.40	18,054.00	.00	3,935,255.40	-25,610.20	309,596.14	15,398,002.14
City of Santa Ana	1,341,142.70	.00	611,407.00	1,952,549.70	.00	.00	.00	.00	-53,900.00	97,958.64	1,996,608.34
San Diego CWA	34,500,266.60	2,040,681.80	143,114.40	46,684,062.80	49,028,252.90	1,271,096.00	980,067.90	51,279,416.80	-679,909.60	2,726,207.05	100,009,777.05
City of San Fernando	86.20	.00	.00	86.20	.00	.00	.00	.00	.00	-32,948.00	-32,861.80
City of Santa Monica	2,626,514.00	.00	.00	2,626,514.00	.00	.00	.00	.00	.00	127,796.00	2,754,310.00
City of San Marino	496,727.50	.00	.00	496,727.50	.00	.00	.00	.00	.00	13,503.10	510,230.60
City of Torrance	4,869,438.00	.00	.00	4,869,438.00	.00	.00	.00	.00	.00	280,632.44	5,150,070.44
Upper San Gabriel Valley	1,803,131.60	.00	.00	1,803,131.60	.00	.00	3,030,537.80	3,030,537.80	.00	-721,468.51	4,112,200.89
West Basin MWD	34,228,427.90	.00	184,760.80	34,413,188.70	.00	.00	.00	.00	-2,591,000.00	3,723,846.88	35,546,035.58
Western MWD of Riverside	5,441,639.30	3,488,340.20	.00	8,929,979.50	2,551,957.80	1,598,734.80	.00	4,150,692.60	-577,836.90	-207,801.65	12,295,033.55
TOTAL :	248,649,733.40	17,081,813.20	5,514,485.40	271,246,032.00	80,708,736.00	3,187,486.80	10,652,489.20	94,548,712.00	-7,039,327.90	7,032,236.26	365,787,652.36

SPECIALS REPRESENT MONETARY DEBITS AND CREDITS FOR CONSERVATION, RTS, CMC, ETC.
FULL SERVICE INCLUDES SEAWATER BARRIER.
RECL. INCLUDES DESALTER AND GWR.

The Metropolitan Water District of Southern California

TABLE D

MONTHLY ANALYSES OF THE DISTRICT WATER SUPPLIES--NOVEMBER 1997

CONSTITUENTS	SYMBOLS AND UNITS	SOURCE WATERS							FILTRATION PLANT EFFLUENTS					
		LAKE HAVASU NEAR WHITSETT INTAKE	SAN JACINTO TUNNEL WEST PORTAL	LAKE MATH- EWS	LAKE CASTAIC	LAKE SILVER- WOOD	LAKE PERRIS	LAKE SKIN- NER	WEY- MOUTH PLANT	DIEMER PLANT	JENSEN PLANT	SKIN- NER PLANT NO. 1	SKIN- NER PLANT NO. 2	MILLS PLANT
MONTH OR DAY OF SAMPLING		11/4/97	11/2/97	11/2/97	Nov-97	11/2/97	11/2/97	Nov-97	Nov-97	Nov-97	Nov-97	Nov-97	Nov-97	Nov-97
SILICA	SiO ₂ mg/L	9.2	8.9	9.1	14.6	13.9	6.6	9.2	9.5	9.2	14.4	8.8	8.9	14.0
CALCIUM	Ca mg/L	74	73	72	37	17	28	73	74	73	37	72	72	18
MAGNESIUM	Mg mg/L	27	27	28	14.5	9	16	26	27	28	14.5	25.5	25.5	10
SODIUM	Na mg/L	89	89	93	44	32	69	90	93	93	46	89	89	36
POTASSIUM	K mg/L	4.3	4.3	4.4	3.0	2.1	4.0	4.7	4.7	4.8	3.0	4.5	4.6	2.5
CARBONATE	CO ₃ mg/L	0	0	0	0	0	0	0	0	0	0	0	0	1
BICARBONATE	HCO ₃ mg/L	159	159	153	109	90	124	157	145	153	112	151	153	90
SULFATE	SO ₄ mg/L	249	243	252	85	23	52	230	244	244	85	230	229	24
CHLORIDE	Cl mg/L	82	81	85	46	39	93	83	88	86	48	86	86	47
NITRATE	NO ₃ mg/L	0.79	0.75	0.21	2.20	1.65	0.06	0.58	0.36	0.41	2.18	0.57	0.56	1.81
FLUORIDE	F mg/L	0.33	0.29	0.31	0.22	0.08	0.14	0.31	0.32	0.31	0.22	0.30	0.30	0.09
BORON	B mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	TDS mg/L	615	607	620	301	183	331	596	614	615	307	593	592	199
TOTAL HARDNESS AS CaCO ₃	mg/L	296	293	295	152	80	136	289	296	298	152	285	285	86
TOTAL ALKALINITY AS CaCO ₃	mg/L	130	130	125	89	74	102	129	119	125	92	124	125	76
FREE CARBON DIOXIDE	CO ₂ mg/L	1.5	2.0	2.2	4.0	2.2	3.8	1.2	2.1	2.5	1.4	2.0	2.1	0.6
H ⁺ CONCENTRATION	pH	8.25	8.12	8.07	7.66	7.84	7.74	8.33	8.07	8.01	8.11	8.09	8.09	8.44
SPECIFIC CONDUCTANCE	µmho/cm	972	973	991	517	331	613	970	1004	1000	529	962	961	359
COLOR	CU	5	4	7	4	12	9	8	1	1	1	2	1	2
FILTER EFFLUENT TURBIDITY	NTU	--	--	--	--	--	--	--	0.07	0.06	0.06	0.09	--	0.05
TURBIDITY	NTU	2.2	0.60	1.7	0.46	1.5	0.89	3.5	0.07	0.07	0.06	0.08	0.07	0.05
TEMPERATURE	°C	18	20	19	15	16	20	19	19	20	15	19	20	18
BROMIDE*	Br mg/L	0.07	0.08	0.08	0.12	0.12	0.28	0.08	0.08	0.08	0.12	0.08	0.09	0.12
TOTAL ORGANIC CARBON	TOC mg/L	2.64	2.64	2.79	2.49	2.52	3.58	2.50	2.39	2.55	2.40	--	2.48	1.96
TOTAL TRIHALOMETHANES	TTHMs µg/L	--	--	--	--	--	--	--	31	31	39	31	28	52
PCT. STATE PROJECT WATER	%SPW %	0	0	0	100	100	100	2	0	0	100	2	2	100

*Treatment plant bromides are influent values.

TABLE E, GENERAL MANAGER'S MONTHLY REPORT

December 1997

Storage in Colorado River Reservoirs at the end of the Month

Reservoir	(ACRE-FEET)				
	Usable Contents Above Lowest Outlet	Percent Of Usable Capacity	Usable Contents Above Inactive ¹ Storage	Change * in Contents During Month	Change * in Contents Since Dec-1996
<u>Upper Basin</u>					
Fontenelle	223,700	65%	29,300	(47,600)	36,900
Flaming Gorge	3,323,200	89%	3,089,700	(115,400)	74,900
Blue Mesa	578,400	70%	497,300	(79,700)	(23,300)
Morrow Point	108,800	93%	33,900	(600)	3,400
Crystal	14,200	81%	9,600	600	(800)
Navajo	1,558,000	92%	898,100	(22,300)	370,700
Powell	21,595,100	89%	17,597,900	(528,000)	1,097,200
Subtotal	27,401,400	88%	22,155,800	(793,000)	1,559,000
<u>Lower Basin</u>					
Mead	25,105,000	96%	15,081,000	283,000	2,993,000
Mohave	1,692,700	94%	1,474,700	218,800	114,900
Havasu	598,400	97%	159,000	35,600	43,200
Subtotal	27,396,100	96%	16,714,700	537,400	3,151,100
Basin Total	54,797,500	92%	38,870,500	(255,600)	4,710,100

¹ Inactive storage is the minimum amount of storage above the dead storage pool for maintaining the respective minimum reservoir elevations required for surface diversions or minimum power pool, whichever is greater.

* Numbers within parentheses are negative numbers.

MONTHLY PROGRESS REPORT OF CONSTRUCTION AND PROCUREMENT CONTRACTS

December 1997

SUMMARY OF PROGRESS

	<u>Construction Contracts</u>	<u>Procurement Contracts</u>
Number of Contracts	23	6
Total Bid Amount of Contracts in Progress	\$1,000,265,270	\$48,820,000
Number of Contracts Awarded this Month	0	0
Total Bid Amount of Contracts Awarded this Month	0	0
Contract Gross Earnings this Month	21,693,737	7,159,843

AWARDED CONTRACTS

No construction or procurement contracts were awarded this month.

COMPLETED CONTRACTS

Construction

Contract No. 1469, standby emergency power system additions for the Joseph Jensen Filtration Plant Expansion No. 1, was completed on December 8, 1997; the Notice of Completion was recorded on December 17, 1997.

Contract No. 1493, Iron Mountain landfill closure project, was completed on December 31, 1997; the Notice of Completion was recorded on January 7, 1998.

Procurement

Final delivery for Contract No. 1468 was received on November 22, 1997.

SUMMARIES/STATUS OF CONTRACTS

A tabular summary of current construction contracts is included on pages 4 through 6 of this report. Details of the status of current construction contracts are shown on pages 9 through 31 of this report.

Tabular summaries of construction contracts completed this month, and of construction contracts which have been completed but have final payments pending, are included on page 7 of this report.

A tabular summary of procurement contracts is included on page 8 of this report.

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THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF CONSTRUCTION CONTRACTS

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Earnings This Month	Earnings to Date	Extra Work to Date	Start Date	Contract Completion Date	Estimated Completion Date	Estimated Percent Complete
		ESRP CONTRACTS:									
1452	1326	West Dam, Saddle Dam, and Forebay	Atkinson-Washington-Zachry, A Joint Venture	\$384,150,000	\$6,721,773	\$239,339,541	\$10,201,924	03/26/96	06/07/99	06/99	59
1471	1345	P-1 Pressure Tunnel	Atkinson-Washington-Zachry, A Joint Venture	13,103,000	800,696	8,349,776	86,238	12/02/96	07/01/98	07/98	63
1473	1328	East Dam	Kiewit-Granite, A Joint Venture	275,511,090	6,102,428	155,980,775	511,199	12/19/96	07/01/99	07/99	57
1477	1342	P-1 Pumping Plant	Advanco Constructors, Div. of Zurn Constructors, Inc.	62,200,000	2,784,670	16,143,948	341,897	02/19/97	02/12/99	02/99	25
1482	1343	ESRP Inlet/Outlet Tower	Atkinson-Washington-Zachry, A Joint Venture	40,598,600	1,115,045	7,387,990	16,317	03/10/97	09/27/99	09/99	18
1492	1341	ESRP Inland Feeder Pressure Control Structure	Advanco Constructors, Div. of Zurn Constructors, Inc.	22,369,407	569,750	1,506,250	0	10/10/97	10/04/99	10/99	7
			ESRP TOTALS	\$797,932,097	\$18,094,362	\$428,708,280	\$11,157,575				
		INLAND FEEDER CONTRACTS:									
1480	1358	Arrowhead East Tunnel	Shank/Balfour Beatty	\$88,373,316	\$1,261,186	\$11,746,793	\$23,745	04/23/97	03/01/02	03/02	13
1481	1382	Inland Feeder Mentone Pipeline Station 1019 to 1053	Kenko, Inc., dba McGrand & Associates	3,288,750	138,060	2,733,537	17,347	02/18/97	02/03/98	02/98	82

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF CONSTRUCTION CONTRACTS

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Earnings This Month	Earnings to Date	Extra Work to Date	Start Date	Contract Completion Date	Estimated Completion Date	Estimated Percent Complete
1489	1300	Inland Feeder Riverside Pipeline - South	Steve P. Rados, Inc.	34,400,000	0	0	0	--	--	--	0
1490	1349	Inland Feeder Riverside Pipeline - North	L. H. Woods & Sons, Inc.	42,651,552	285,000	285,000	0	12/03/97	04/14/00	04/00	1
			INLAND FDR TOTALS	\$168,713,618	\$1,684,246	\$14,765,330	\$41,092				
		MISCELLANEOUS CONTRACTS:									
1469	1285A	Jensen Exp. No. 1 Standby Emergency Power System Additions	Lamb Engineering & Construction Co.	\$3,087,493	\$49,796	\$3,141,094	\$59,232	10/05/96	12/08/97 ACTUAL	12/17/97 NOC FILED	100
1474	1373	Site Improvements Joseph Jensen Filtration Plant	Acacia Landscaping & Erosion Control	511,822	6,824	529,893	25,029	01/08/97	01/05/98	01/98	99
1487	1388	Joseph Jensen Filtration Plant Finished Water Reservoir #2 Repairs	Serrot Corporation	1,092,999	105,194	327,900	0	07/18/97	07/14/98	07/98	30
1495	1394	Joseph Jensen Filtration Plant, Module No.1 Filter Materials Replacement	Kiewit Pacific Co.	2,468,600	0	0	0	--	--	--	0
1466	1279A	Water Quality Laboratory Expansion	S. J. Amoroso Construction Co., Inc.	10,530,000	282,195	9,555,371	156,606	09/03/96	03/03/98	03/98	89
1494	1316A	Standby Emergency Power Additions F. E. Weymouth Plant	Robert Mills dba Mills Construction Company	1,162,000	91,925	145,450	0	10/24/97	10/20/98	10/98	13

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF CONSTRUCTION CONTRACTS

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Earnings This Month	Earnings to Date	Extra Work to Date	Start Date	Contract Completion Date	Estimated Completion Date	Estimated Percent Complete
1476	1317A	Standby Emergency Power Additions, Robert B. Diemer Filtration Plant	Pickard Construction, Inc.	688,900	70,631	479,533	19,521	01/09/97	02/27/98	02/98	67
1472	1254	Garvey Reservoir Composite Lining Construction	Serrot Corporation	9,190,000	266,974	9,167,562	218,866	11/18/96	01/16/98	01/98	97
1485	1368	Orange Feeder Relocation Sta. 1331+50.00 to Sta. 1340+80.00BK	Colich & Sons	1,085,458	294,364	1,055,218	0	04/28/97	02/02/98	02/98	97
1486	1318	Protective Roof Structure for San Jacinto Diversion Structure	Advanco Constructors, Div. of Zurn Constructors, Inc.	739,826	87,200	121,200	0	09/18/97	03/11/98	03/98	16
1488	1257	Robert A. Skinner Filtration Plant Module 4 Filter Materials Replacement	ERS Industrial Services, Inc.	549,000	92,455	399,305	0	10/15/97	02/27/98	02/98	73
1491	1391	Seismic Upgrade and Rock Anchor Installation of Discharge Pipelines at Hinds Pumping Plant	Mitchell Pacific Constructors, Inc.	1,992,757	357,770	1,130,104	0	09/23/97	09/16/98	09/98	57
1493	1381	Iron Mountain Landfill Closure Project	Mitchell Pacific Constructors, Inc.	520,700	209,801	520,700	0	10/08/97	12/31/97 ACTUAL	01/07/98 NOC FILED	100
			MISC. CONT. TOTALS	\$33,619,555	\$1,915,129	\$26,573,330	\$479,254				

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THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF CONSTRUCTION CONTRACTS COMPLETED THIS MONTH

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Final Earnings	Date Work Accepted	Date Notice of Completion Recorded	Date Final Payment Due

Note: Contracts Nos. 1469 and 1493 were completed this month; however, final payments are pending.

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THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF CONSTRUCTION CONTRACTS COMPLETED THIS MONTH PENDING FINAL PAYMENT

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Estimated Final Earnings	Date Work Accepted	Date Notice of Completion Recorded	Date Final Payment Due
1469	1285A	Jensen Expansion No. 1 Standby Emergency Power System Additions	Lamb Engineering & Construction Co., Inc.	\$3,087,493	\$3,221,094	12/08/97	12/17/97	01/98
1493	1381	Iron Mountain Landfill Closure Project	Mitchell Pacific Constructors, Inc.	520,700	529,700	12/31/97	01/07/98	01/98

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF PROCUREMENT CONTRACTS

Cont. No.	Spec. No.	Equipment or Material	Contractor	Contract Price	Earnings This Month	Earnings To Date	Starting Date	Delivery Date	Remarks
		ESRP CONTRACTS:							
1454	1293A	Eastside Reservoir Project Pumps, Motors, and Related Equipment for the P-1 Pumping Plant	Nissho Iwai American Corporation	\$22,600,000	\$5,399,965	\$10,068,313	02/12/96	03/12/98	
1457	1339	Eastside Reservoir Project Butterfly Valves	Nissho Iwai American Corporation	11,880,000	639,602	9,480,084	02/12/96	01/12/98	\$174,420 of earnings to date is for extra work.
1462	1347	Eastside Reservoir Project Fixed Cone Valves and Spherical Valve	Kvaerner Hydro Power, Inc.	2,093,000	0	986,257	05/22/96	03/25/98	\$27,164 of earnings to date is for extra work.
1470	1340	Eastside Reservoir Project Electric Motor-Operated Sleeve Valves	Nissho Iwai American Corporation	2,722,000	950,522	1,363,709	09/16/96	07/23/98	\$1,200 of earnings to date is for extra work.
		INLAND FEEDER CONTRACTS:							
1468	1378	Inland Feeder Fabricated Steel Pipe and Fittings Station 1019+00 to Station 1053+00	Ameron International Corporation	1,895,000	601	2,046,853	10/03/96	11/22/97 Final Delivery	\$3,688 of contract earnings was for extra work.
		MISCELLANEOUS CONTRACTS:							
1396A	1207	Four Computer-Based Control Systems	Systems Integrated	7,630,000	169,153	12,381,305	01/10/95	12/15/96 Final Delivery	Monthly earnings are for extra work.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Eastside Reservoir Project West Dam, Saddle Dam, and Forebay		
CONTRACTOR	Atkinson-Washington-Zachry, A Joint Venture		
SPECIFICATIONS NO.	1326	BID AMOUNT	\$384,150,000
CONTRACT NO.	1452	EXTRA WORK TO DATE	10,201,924
CONTRACT STARTING DATE	March 26, 1996	EARNINGS THIS MONTH	6,721,773
CONTRACT COMPLETION DATE	June 7, 1999	EARNINGS TO DATE	239,339,541
ESTIMATED COMPLETION DATE	June 1999	ESTIMATED PERCENT COMPLETE	59

SCOPE OF WORK

Work includes clearing, grubbing and stripping; demolition; excavation; foundation dewatering; rock foundation treatment; plastic concrete cutoff in the West Dam foundation; foundation grouting; foundation clean-up; dam embankment and instrumentation; Forebay embankment, liner structures and road; and all other appurtenant work for the Eastside Reservoir Project West Dam, Saddle Dam, and Forebay.

CONSTRUCTION PROGRESS

Production of six-inch-minus material at the on-site rock processing plant and hauling to the East Dam stockpile continued. The interim delivery date for Milestone No. 5 was completed December 15, 1997. Dewatering of the West Dam excavation and re-injection of the water west of the San Diego Canal continued. Limited excavation of common material in the middle channel and on both abutments of the West Dam foundation continued; limited common and rock excavation in the boat launch area continued. Construction of the cast-in-place concrete structure for the grout gallery continued.

West Dam foundation cleaning and placement of dental and backfill concrete continued. Production drilling of grout holes and grouting of curtain and consolidation holes on the north and south abutments in the foundation continued. Drilling and grouting in the upper adit continued.

Placement of West Dam embankment continued as follows: core embankment in the north and middle channels; limited placement of Zone 1A embankment in the north abutment; placement of rock shell embankment upstream and downstream in the north, middle, and south channels; placement of random fill downstream in the north, middle, and south channels; placement of upstream and downstream filters in the north channel; and limited placement of Zone 8A embankment in the canyon adjacent to the south abutment.

No activity occurred in the lower adit this period. Placement of embankment fill in the Forebay was substantially completed and placement of the porous asphalt along the side slopes of the Forebay was substantially completed. Construction of the Forebay connection canal continued.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Eastside Reservoir Project P-1 Pressure Tunnel		
CONTRACTOR	Atkinson-Washington-Zachry, A Joint Venture		
SPECIFICATIONS NO.	1345	BID AMOUNT	\$13,103,000
CONTRACT NO.	1471	EXTRA WORK TO DATE	86,238
CONTRACT STARTING DATE	December 2, 1996	EARNINGS THIS MONTH	800,696
CONTRACT COMPLETION DATE	July 1, 1998	EARNINGS TO DATE	8,349,776
ESTIMATED COMPLETION DATE	July 1998	ESTIMATED PERCENT COMPLETE	63

SCOPE OF WORK

Construction of the P-1 Pressure Tunnel for the Eastside Reservoir Project. The project includes excavating an 18 to 20-foot wide tunnel; excavating the west portal; rock bolting and fiber reinforced shotcreting; installing cement grouted rock bolts with shotcrete or steel sets; installing of steel liner and backfill concrete; cement mortar lining; and all other work shown, specified or otherwise required to complete the work.

CONSTRUCTION PROGRESS

Tunnel invert clean-up work and concrete mud mat placement were completed. Curtain grouting between Stations 11+00 and 11+22 was completed.

Delivery of the tunnel liner sections continued. Installation and welding of the tunnel elbow sections continued at the east portal. Service water and chlorination pipe installation continued.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Eastside Reservoir Project East Dam		
CONTRACTOR	Kiewit-Granite, A Joint Venture		
SPECIFICATIONS NO.	1328	BID AMOUNT	\$275,511,090
CONTRACT NO.	1473	EXTRA WORK TO DATE	511,199
CONTRACT STARTING DATE	December 19, 1996	EARNINGS THIS MONTH	6,102,428
CONTRACT COMPLETION DATE	July 1, 1999	EARNINGS TO DATE	155,980,775
ESTIMATED COMPLETION DATE	July 1999	ESTIMATED PERCENT COMPLETE	57

SCOPE OF WORK

Construction of the Eastside Reservoir Project's East Dam, including clearing, grubbing and stripping; demolition; excavation; foundation dewatering; rock foundation treatment; concrete cutoff; foundation grouting; foundation clean-up; dam embankment construction; instrumentation installation; detention basin dike construction; low flow channel, unlined and concrete lined; structures; roads; and all other work shown, specified or otherwise required to complete the work.

CONSTRUCTION PROGRESS

Construction of drainage structures continued in the Goodhart Detention Basin. Concrete channel lining continued in the Green Canyon Channel. Construction of the East Recreation Area continued. Additional Recreation Area fill was hauled from Borrow Areas BA1E2 and BA1E4.

Dewatering continued in the south half of the dam. Excavation of Common II and unrippable rock excavation continued within the dam footprint. Initial rock foundation cleaning in the core and rock foundation cleaning in the shell areas continued in the south excavation area.

Placement of Zones 3 and 3A material continued in the shell areas in the south half of the dam.

Subcontractor, Kajima/SMW Seiko, A Joint Venture, continued construction of the concrete cutoff in the south half of the dam. Subcontractor, Sudhakar/IDM West, A Joint Venture, continued foundation drilling and grouting.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Eastside Reservoir Project P-1 Pumping Plant		
CONTRACTOR	Advanco Constructors, Div. of Zurn Constructors, Inc.		
SPECIFICATIONS NO.	1342	BID AMOUNT	\$62,200,000
CONTRACT NO.	1477	EXTRA WORK TO DATE	341,897
CONTRACT STARTING DATE	February 19, 1997	EARNINGS THIS MONTH	2,784,670
CONTRACT COMPLETION DATE	February 12, 1999	EARNINGS TO DATE	16,143,948
ESTIMATED COMPLETION DATE	February 1999	ESTIMATED PERCENT COMPLETE	25

SCOPE OF WORK

Providing all labor materials, equipment, and services necessary to construct the P-1 Pumping Plant at the Eastside Reservoir Project site.

CONSTRUCTION PROGRESS

Erection of forms, installation of reinforcing steel, and placement of structural concrete continued for the pumphouse slabs and walls, pressure conduit encasements, and other miscellaneous structures. Class L mass concrete was placed for the pressure control structure chamber walls, and Class C backfill concrete was placed around the pressure control conduit manifold encasement and the pumphouse flow measuring vault.

Pipe installation in the pumphouse walls, slabs, and various vaults continued. Laying and welding of the low level outlet and pressure control conduits continued.

Installation of the level probes in the pump bay was completed. Grounding grid installation for embeds continued. Excavation work, duct bank installation, and underground pipe installation in the electrical substation continued.

The contractor continued to receive Metropolitan-Furnished Equipment (MFE) that is stored in the MFE storage building.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Eastside Reservoir Project Inlet/Outlet Tower		
CONTRACTOR	Atkinson-Washington-Zachry, A Joint Venture		
SPECIFICATIONS NO.	1343	BID AMOUNT	\$40,598,600
CONTRACT NO.	1482	EXTRA WORK TO DATE	16,317
CONTRACT STARTING DATE	March 10, 1997	EARNINGS THIS MONTH	1,115,045
CONTRACT COMPLETION DATE	September 27, 1999	EARNINGS TO DATE	7,387,990
ESTIMATED COMPLETION DATE	September 1999	ESTIMATED PERCENT COMPLETE	18

SCOPE OF WORK

Provide labor, materials, equipment, and services necessary to construct the Inlet/Outlet Tower at the Eastside Reservoir Project site.

CONSTRUCTION PROGRESS

Placement of concrete in the foundation slab was completed and placement of concrete for the first lift of the wetwell walls continued. Placement of concrete for pipe pedestals on the foundation slab began.

Placement of reinforcing steel and installation of forms were started for the second lift of walls in the wetwell.

The tunnel transition was delivered to the site and placed on the temporary rail system awaiting installation in the structure.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Eastside Reservoir Project Inland Feeder Pressure Control Structure		
CONTRACTOR	Avanco Constructors, Div. of Zurn Constructors, Inc.		
SPECIFICATIONS NO.	1341	BID AMOUNT	\$22,369,407
CONTRACT NO.	1492	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	October 10, 1997	EARNINGS THIS MONTH	569,750
CONTRACT COMPLETION DATE	October 4, 1999	EARNINGS TO DATE	1,506,250
ESTIMATED COMPLETION DATE	October 1999	ESTIMATED PERCENT COMPLETE	7

SCOPE OF WORK

Provide labor, materials, equipment, and services necessary to construct the Inland Feeder Pressure Control Structure at the Eastside Reservoir Project site.

CONSTRUCTION PROGRESS

The contractor continued to receive MFE equipment at the site and submit material and products to Metropolitan. Installation of the 78-inch diameter reinforced concrete storm drain was completed. Backfill of the storm drain pipe was in progress. Installation of the temporary pump at the CRA transition structure was also completed.

Subcontractor, Nelson and Belding, completed clearing and grubbing operations for the Pressure Control Structure (PCS) and detention basin. Work continued on the following items: stockpiling of topsoil and excavated material; over-excavation and backfill for the PCS slab-on-grade and pipe encasement; backfill operation for the detention basin south and east embankments; and over-excavation and backfill of the five foot structural fill at the CRA connection channel.

Subcontractor, Hawker Land Surveying, completed establishment of secondary control points necessary for construction of detention basin embankments and excavation of the PCS.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Arrowhead East Tunnel		
CONTRACTOR	Shank/Balfour Beatty, a Joint Venture		
SPECIFICATIONS NO.	1358	BID AMOUNT	\$88,373,316
CONTRACT NO.	1480	EXTRA WORK TO DATE	23,745
CONTRACT STARTING DATE	April 23, 1997	EARNINGS THIS MONTH	1,261,186
CONTRACT COMPLETION DATE	March 1, 2002	EARNINGS TO DATE	11,746,793
ESTIMATED COMPLETION DATE	March 2002	ESTIMATED PERCENT COMPLETE	13

SCOPE OF WORK

The Arrowhead East section of the Inland Feeder Project includes approximately 27,350 feet of 12-foot diameter (finished) tunnel and 3,466 feet of 12-foot diameter pipeline from the contract limit line near Strawberry Creek Portal to the contract limit line near City Creek Portal. Work includes excavation and backfill, installation of pipeline and tunnel, protection and support of existing facilities, manholes, access facilities, and restoration.

CONSTRUCTION PROGRESS

The contractor completed welding and sand backfill of the pipeline laid last period. The annular space around the steel pipe of the Highway 330 tunnel was backfilled with concrete and grouting to fill all remaining voids.

Excavation for the remaining 400 feet of pipeline was completed; pipe laying continued. Approximately 1,450 concrete segments have been cast to date.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Inland Feeder Mentone Pipeline Station 1019 to 1053		
CONTRACTOR	Kenko, Inc., dba McGrand & Associates		
SPECIFICATIONS NO.	1382	BID AMOUNT	\$3,288,750
CONTRACT NO.	1481	EXTRA WORK TO DATE	17,347
CONTRACT STARTING DATE	February 18, 1997	EARNINGS THIS MONTH	138,060
CONTRACT COMPLETION DATE	February 3, 1998	EARNINGS TO DATE	2,733,537
ESTIMATED COMPLETION DATE	February 1998	ESTIMATED PERCENT COMPLETE	82

SCOPE OF WORK

Construction of Mentone Pipeline Station 1019 to 1053 for the Inland Feeder Project, located in San Bernardino County. The project consists of installing 3,400 linear feet of 145.5-inch diameter Metropolitan-furnished fabricated steel pipe and fittings, improving approximately 1/2 mile of County Street (Opal Avenue), relocating and modifying 1,300 linear feet of a sewer line, relocating 300 linear feet of 48-inch diameter water line at Opal Avenue, constructing 60 feet long protective slab over existing Bear Valley Canal at Nice Avenue, removing 265 feet of existing unreinforced trapezoidal concrete canal, constructing manhole and appurtenant structures, relocating 900 linear feet of an 8-inch diameter water line, constructing temporary access roads, constructing a masonry wall, supporting and protecting existing utilities, replacing existing landscaping and sprinklers, maintaining street closures and detouring traffic, miscellaneous construction and all other work as required.

CONSTRUCTION PROGRESS

The contractor installed the southern bulhead, mortar lined 800 linear feet of pipe, rough graded and completed curb and gutter construction on Opal Avenue.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Inland Feeder Riverside Pipeline - South		
CONTRACTOR	Steve P. Rados, Inc.		
SPECIFICATIONS NO.	1300	BID AMOUNT	\$34,400,000
CONTRACT NO.	1489	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	--	EARNINGS THIS MONTH	0
CONTRACT COMPLETION DATE	--	EARNINGS TO DATE	0
ESTIMATED COMPLETION DATE	--	ESTIMATED PERCENT COMPLETE	0

SCOPE OF WORK

Furnish and install approximately 7 miles of 145-1/2 inches inside diameter welded steel pipeline for the Inland Feeder Riverside Pipeline - South. The work includes the construction of a reinforced concrete box siphon, approximately 270 lineal feet in length, reinforced concrete transition structures with concrete-lined canal turnout from and return to the existing San Diego Canal, and appurtenant work.

CONSTRUCTION PROGRESS

A partial pay estimate was not submitted this period.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Inland Feeder Riverside Pipeline - North		
CONTRACTOR	L. H. Woods & Sons, Inc.		
SPECIFICATIONS NO.	1349	BID AMOUNT	\$42,651,552
CONTRACT NO.	1490	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	December 3, 1997	EARNINGS THIS MONTH	285,000
CONTRACT COMPLETION DATE	April 14, 2000	EARNINGS TO DATE	285,000
ESTIMATED COMPLETION DATE	April 2000	ESTIMATED PERCENT COMPLETE	1

SCOPE OF WORK

Furnish and install approximately 8.5 miles of 145-1/2-inch-diameter welded steel pipeline and constructing roads, utility lines, drainage structures, a bridge, and other appurtenances for the Inland Feeder Riverside Pipeline - North.

CONSTRUCTION PROGRESS

The first working day of this contract was December 3, 1997. The contractor has posted performance and payment bonds, submitted a preliminary project schedule, and begun transmittal of submittals. A partnering session was conducted on December 10 and 11, 1997.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Joseph Jensen Filtration Plant Expansion No. 1 Standby Emergency Power System Additions		
CONTRACTOR	Lamb Engineering & Construction Co.		
SPECIFICATIONS NO.	1285A	BID AMOUNT	\$3,087,493
CONTRACT NO.	1469	EXTRA WORK TO DATE	59,232
CONTRACT STARTING DATE	October 5, 1996	EARNINGS THIS MONTH	49,796
ACTUAL COMPLETION DATE	December 8, 1997	EARNINGS TO DATE	3,141,094
		ESTIMATED PERCENT COMPLETE	100

SCOPE OF WORK

Construction of a concrete masonry structure, new diesel-operated emergency power generators and controls, switchgear, underground fuel storage systems, and all appurtenances at the Joseph Jensen Filtration Plant. The work also requires modifications of existing site switchgear and facilities associated with the installation of new facilities.

CONSTRUCTION PROGRESS

The contract work was completed on December 8, 1997; the Notice of Completion was recorded on December 17, 1997.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Site Improvements at Joseph Jensen Filtration Plant		
CONTRACTOR	Acacia Landscaping & Erosion Control		
SPECIFICATIONS NO.	1373	BID AMOUNT	\$511,822
CONTRACT NO.	1474	EXTRA WORK TO DATE	25,029
CONTRACT STARTING DATE	January 8, 1997	EARNINGS THIS MONTH	6,824
CONTRACT COMPLETION DATE	January 5, 1998	EARNINGS TO DATE	529,893
ESTIMATED COMPLETION DATE	January 1998	ESTIMATED PERCENT COMPLETE	99

SCOPE OF WORK

Construction/installation of landscape screen planting for an area of approximately 15 acres along Balboa Boulevard. The work includes, but is not limited to, mowing and clearing; protection of existing trees and shrubs; construction of the irrigation system; landscape planting; 90-day maintenance period; and all other work as specified. A unit price of \$15 per square yard will be charged for any additional work.

CONSTRUCTION PROGRESS

Pursuant to an agreement between the contractor and the Resident Engineer, the contract time had been suspended as of June 18, 1997, to allow the contractor the ability to install the wildflower/native grass seed mix during the rainy season. The contractor has been performing maintenance as required by the contract.

This period the contractor remobilized and completed the second grow and kill operation on the wildflower/native grass area.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Joseph Jensen Filtration Plant Finished Water Reservoir #2 Repairs		
CONTRACTOR	Serrot Corporation		
SPECIFICATIONS NO.	1388	BID AMOUNT	\$1,092,999
CONTRACT NO.	1487	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	July 18, 1997	EARNINGS THIS MONTH	105,194
CONTRACT COMPLETION DATE	July 14, 1998	EARNINGS TO DATE	327,900
ESTIMATED COMPLETION DATE	July 1998	ESTIMATED PERCENT COMPLETE	30

SCOPE OF WORK

Repair of Finished Water Reservoir #2 by locating incipient caved areas; repair cracks and caved areas in existing asphalt concrete liner; repair joint separations; and modifications to sumps and all appurtenant work at the Joseph Jensen Filtration Plant in Granada Hills, California. The work also includes removal of a 2-year old synthetic rubber (Hypalon) floating cover measuring approximately 330,000 square feet, its storage, and reinstallation following repair and hydrostatic testing of the asphalt concrete liner; installation of approximately 40,000 square feet of new Hypalon material; modifications to the existing floating cover rainwater sump assemblies; and other repair and appurtenant work to bring the floating cover into full operating condition.

CONSTRUCTION PROGRESS

The contractor completed the following: repairs to the cracked and caved areas on the reservoir sides and bottom; and joint separation repairs along the baffle curbs and the inlet and outlet gate structures.

Metropolitan staff performed hydrotesting at the site on December 19, 1997.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF Joseph Jensen Filtration Plant, Module No. 1 Filter Materials Replacement

CONTRACTOR Kiewit Pacific Co.

SPECIFICATIONS NO.	1394	BID AMOUNT	\$2,468,600
CONTRACT NO.	1495	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	--	EARNINGS THIS MONTH	0
CONTRACT COMPLETION DATE	--	EARNINGS TO DATE	0
ESTIMATED COMPLETION DATE	--	ESTIMATED PERCENT COMPLETE	0

SCOPE OF WORK

Removing and disposing of existing anthracite, sand, and gravel from 16 filter units in Module No. 1; providing and installing new anthracite, silica sand and gravel, and either garnet sand and gravel or ilmenite sand and gravel in 16 filter units in Module No. 1; cleaning of filter beds; and other appurtenant work at the Joseph Jensen Filtration Plant.

CONSTRUCTION PROGRESS

Issuance of the Notice to Proceed has been delayed until approximately January 15, 1998.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Water Quality Laboratory Expansion		
CONTRACTOR	S. J. Amoroso Construction Co., Inc.		
SPECIFICATIONS NO.	1279A	BID AMOUNT	\$10,530,000
CONTRACT NO.	1466	EXTRA WORK TO DATE	156,606
CONTRACT STARTING DATE	September 3, 1996	EARNINGS THIS MONTH	282,195
CONTRACT COMPLETION DATE	March 3, 1998	EARNINGS TO DATE	9,555,371
ESTIMATED COMPLETION DATE	March 1998	ESTIMATED PERCENT COMPLETE	89

SCOPE OF WORK

Construction of the Water Quality Laboratory expansion in LaVerne.

CONSTRUCTION PROGRESS

Submittals for approval of materials and equipment continued to be received for review.

Electrical terminations continued throughout the new building.

Installation of plumbing piping and fixtures continued in the Administration and Laboratory wings. Installation of the laboratory specialty gas system also continued.

Installation of ductwork and piping for the HVAC system was completed. Testing of the piping was successfully completed. Installation of exterior glazing and the metal panel system continued at Areas 1, 2, 3, and 4.

Painting, woodwork, and installation of doors and associated hardware continued throughout the new facility.

Fume hood and casework installation continued in the Laboratory Wing.

Carpet and tile installation began at both the Administration and Laboratory wings.

Placement of landscape concrete continued. Landscape grading and planting were in progress. Installation of the landscape lighting began.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Standby Emergency Power Additions F. E. Weymouth Filtration Plant		
CONTRACTOR	Robert Mills dba Mills Construction Company		
SPECIFICATIONS NO.	1316A	BID AMOUNT	\$1,162,000
CONTRACT NO.	1494	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	October 24, 1997	EARNINGS THIS MONTH	91,925
CONTRACT COMPLETION DATE	October 20, 1998	EARNINGS TO DATE	145,450
ESTIMATED COMPLETION DATE	October 1998	ESTIMATED PERCENT COMPLETE	13

SCOPE OF WORK

Construction of a masonry building, diesel-operated emergency power system, all switchgear, power panels, conduits, wiring, emission control equipment, external fuel tanks, piping, controls, monitoring systems, accessories and appurtenances at the F. E. Weymouth Filtration Plant. The work also includes modifications to the existing system, existing emergency power equipment, switchgear, and controls.

CONSTRUCTION PROGRESS

The masonry block wall west of the generator building was completed. Reinforcing steel and concrete were placed for footing of the masonry block wall south of the load bank. Reinforcing steel and concrete were also placed for the generator foundation pad and approximately 75 percent of the building footings.

Installation of grounding cables within the building area was in progress. Excavation for ductbanks was also in progress.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Standby Emergency Power Additions, Robert B. Diemer Filtration Plant		
CONTRACTOR	Pickard Construction, Inc.		
SPECIFICATIONS NO.	1317A	BID AMOUNT	\$688,900
CONTRACT NO.	1476	EXTRA WORK TO DATE	19,521
CONTRACT STARTING DATE	January 9, 1997	EARNINGS THIS MONTH	70,631
CONTRACT COMPLETION DATE	February 27, 1998	EARNINGS TO DATE	479,533
ESTIMATED COMPLETION DATE	February 1998	ESTIMATED PERCENT COMPLETE	67

SCOPE OF WORK

Construction of a concrete masonry structure, relocation of an existing generator from the Skinner Filtration Plant to the new structure, controls, switchgear, an outdoor yard containing a step-up transformer, a load bank and an underground fuel storage system, and all appurtenances at the Diemer Filtration Plant. The work also requires modification of existing power supply, existing site switchgear and facilities associated with the installation of new facilities.

CONSTRUCTION PROGRESS

The contractor completed the built-up roof, site grading, drywall in the generator room, and concrete pads for the fuel tank, step-up transformer, and generator loadbank.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Garvey Reservoir Composite Lining Construction		
CONTRACTOR	Serrot Corporation		
SPECIFICATIONS NO.	1254	BID AMOUNT	\$9,190,000
CONTRACT NO.	1472	EXTRA WORK TO DATE	218,866
CONTRACT STARTING DATE	November 18, 1996	EARNINGS THIS MONTH	266,974
CONTRACT COMPLETION DATE	January 16, 1998	EARNINGS TO DATE	9,167,562
ESTIMATED COMPLETION DATE	January 1998	ESTIMATED PERCENT COMPLETE	97

SCOPE OF WORK

Constructing a composite lining for the Garvey Reservoir in Monterey Park. Work includes constructing approximately 1,800,000 square feet of each of the following: primary Hypalon lining, secondary Hypalon lining, geotextile fabric, and composite drainage course. Appurtenant work is also included.

CONSTRUCTION PROGRESS

The contractor continued to deliver material to the site. The material comprises a large portion of the contractor's pay estimate this period.

The contractor installed approximately 86,000 sq. feet of 22 oz. geotextile, 110,000 sq. feet of 36 mil Hypalon, 104,000 sq. feet of geocomposite drainage net, and 145,000 sq. feet of 90 mil Hypalon.

The contractor continued installation of the 60 mil attachment strips to the concrete pipe cradle and installed approximately 700 linear feet of fluid membrane to the concrete cradle. Work on the batten assembly and stainless steel stud installation was completed this period.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Orange County Feeder Relocation Station 1331+50.00 to Station 1340+80.00BK		
CONTRACTOR	Colich & Sons		
SPECIFICATIONS NO.	1368	BID AMOUNT	\$1,085,458
CONTRACT NO.	1485	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	April 28, 1997	EARNINGS THIS MONTH	294,364
CONTRACT COMPLETION DATE	February 2, 1998	EARNINGS TO DATE	1,055,218
ESTIMATED COMPLETION DATE	February 1998	ESTIMATED PERCENT COMPLETE	97

SCOPE OF WORK

Construction of approximately 930 feet of 35-inch-inside-diameter welded steel pipeline, including the construction of a manhole, jacked casing, concrete piles, cast drilled holes, cap for the piles, pipe encasement, abandoning-in-place portion of existing pipeline, removal of other portions of the existing facility, and all other appurtenances. The construction work also includes relocation of existing 51-inch and 54-inch reinforced concrete storm drain pipes and appurtenances in Gene Autry Way, located in the City of Anaheim.

CONSTRUCTION PROGRESS

Grouting of vertical inspection pipes and cast-in drilled hole caissons, as well as installing rebar and placing concrete for the caisson pile cap and pipe encasement were in progress.

Excavation and installation of the remaining Stage 2 pipe during the December shutdown were completed. Chlorinating and testing of all Stage 2 pipeline were also completed.

The encasement at the south end tie-in to the existing line was completed.

Currently, deductions for retention and a stop notice exceed the amount earned for the period; therefore, no payment is being made this period.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Protective Roof Structure for San Jacinto Diversion Structure		
CONTRACTOR	Advanco Constructors, Div. of Zurn Constructors, Inc.		
SPECIFICATIONS NO.	1318	BID AMOUNT	\$739,826
CONTRACT NO.	1486	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	September 18, 1997	EARNINGS THIS MONTH	87,200
CONTRACT COMPLETION DATE	March 11, 1998	EARNINGS TO DATE	121,200
ESTIMATED COMPLETION DATE	March 1998	ESTIMATED PERCENT COMPLETE	16

SCOPE OF WORK

Construction of a protective roof, reinforced concrete, concrete caissons, walls, floor slabs, access ramp, and other appurtenances to be built over the existing San Jacinto Diversion Structure, located north of the City of San Jacinto in Riverside County.

CONSTRUCTION PROGRESS

Excavation for demolition work and shoring was in progress, as well as demolition of the EMWD vault and gauging structure. Pot holing for existing utilities was also in progress.

Relocation of the ductbank and grading of the north slope were in progress. Drilling for installation of caissons began.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Robert A. Skinner Filtration Plant Module 4 Filter Materials Replacement		
CONTRACTOR	ERS Industrial Services, Inc.		
SPECIFICATIONS NO.	1257	BID AMOUNT	\$549,000
CONTRACT NO.	1488	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	October 15, 1997	EARNINGS THIS MONTH	92,455
CONTRACT COMPLETION DATE	February 27, 1998	EARNINGS TO DATE	399,305
ESTIMATED COMPLETION DATE	February 1998	ESTIMATED PERCENT COMPLETE	73

SCOPE OF WORK

Removal and disposal of existing anthracite, sand, and gravel from 18 filter units in Module 4; providing and installing new filter anthracite, sand, and gravel in 18 filter units in Module 4; cleaning of filter beds; and other appurtenant work at the Robert A. Skinner Filtration Plant in Winchester, California.

CONSTRUCTION PROGRESS

The contractor completed removing old filter materials and cleaning the second bank of nine filters.

The contractor continued receiving gravel, sand, and anthracite filter media for the second bank of nine filters.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Seismic Upgrade and Rock Anchor Installation of Discharge Pipelines at Hinds Pumping Plant		
CONTRACTOR	Mitchell Pacific Constructors, Inc.		
SPECIFICATIONS NO.	1391	BID AMOUNT	\$1,992,757
CONTRACT NO.	1491	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	September 23, 1997	EARNINGS THIS MONTH	357,770
CONTRACT COMPLETION DATE	September 16, 1998	EARNINGS TO DATE	1,130,104
ESTIMATED COMPLETION DATE	September 1998	ESTIMATED PERCENT COMPLETE	57

SCOPE OF WORK

Construction of modifications to three existing ten-foot-diameter discharge pipelines at the Hinds Pumping Plant, located in Desert Center, California. Modifications include seismic upgrading by installing 151 rock anchors to restrain pipeline movement and structural framing to support such restraining. All construction is in a mountainous terrain where road access, access for installing rock anchors, and access to the pipelines may be limited.

CONSTRUCTION PROGRESS

Drilling and anchor installation continued at the lower reach.

Rebar, formwork, and concrete installations for the anchor footings were completed at the middle and upper reaches. The contractor continued excavation and structural steel work in preparation for the installation of anchor footings at the lower reach.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

December 1997

CONSTRUCTION OF	Iron Mountain Landfill Closure Project		
CONTRACTOR	Mitchell Pacific Constructors, Inc.		
SPECIFICATIONS NO.	1381	BID AMOUNT	\$520,700
CONTRACT NO.	1493	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	October 8, 1997	EARNINGS THIS MONTH	209,801
ACTUAL COMPLETION DATE	December 31, 1997	EARNINGS TO DATE	520,700
		ESTIMATED PERCENT COMPLETE	100

SCOPE OF WORK

Construction of a landfill final cover system at Iron Mountain consisting of various layers of earth, high density polyethylene (HPDE) geomembrane, geotextile, and rock material over the existing landfill waste cells. The work also includes drainage improvements and installation of perimeter subdrains, passive gas collection systems, and other appurtenances.

CONSTRUCTION PROGRESS

Placing and seaming of the Hypalon panels at Cell Areas Nos. 1 and 2 were completed. Geofabric installation and field testing were also completed.

Fill operations for Cell Areas Nos. 1 and 2 were completed. In addition, installation of the gas recovery system and survey monuments were completed.

Finish grading and demobilization were completed.

Contract work was completed on December 31, 1997; the Notice of Completion was recorded on January 7, 1998.

**CONSTRUCTION PROGRESS AND
SUMMARY OF CONTRACT COMPLETION DATA**

FOR THE MONTH OF DECEMBER 1997

(CHRONOLOGICALLY ESTIMATED BY COMPLETION DATE)

Twenty-three construction contracts, having a contract value in excess of \$1 billion were in progress during the month of December 1997. Contract earnings under these contracts were \$21,693,737 this month. Status of these contracts at the end of the month follows:

Cont. No.	Spec. No.	Feature	Contractor	Estimated Completion Date	Percent Complete
1474	1373 (102743) (4-7971)	Site Improvements at Joseph Jensen Filtration Plant	Acacia Landscaping & Erosion Control	01-98	99
1472	1254 (100862) (4-6693)	Garvey Reservoir Composite Lining Construction	Serrot Corporation	01-98	97
1485	1368 (701233) (7-7488)	Orange County Feeder Relocation Station 1331+50.00 to Station 1340+80.00BK	Colich & Sons	02-98	97
1476	1317A (100365) (4-6274)	Standby Emergency Power Additions, Robert B. Diemer Filtration Plant	Pickard Construction, Inc.	02-98	67
1481	1382 (102824)	Inland Feeder Contract No. 4 - Mentone Pipeline Station 1019 to 1053	Kenko, Inc., dba McGrand & Associates	02-98	82
1488	1257 (6-7347) (100862)	Robert A. Skinner Filtration Plant Module 4 Filter Materials Replacement	ERS Industrial Services, Inc.	02-98	73
1466	1279A (100545) (4-7230)	Water Quality Laboratory Expansion	S. J. Amoroso Construction Co., Inc.	03-98	89
1486	1318 (4-6595) (100429)	Protective Roof Structure for San Jacinto Diversion Structure	Advanco Constructors, Div. of Zurn Constructors, Inc.	03-98	16
1471	1345 (102767) (4-9603)	Eastside Reservoir Project P-1 Pressure Tunnel	Atkinson-Washington-Zachry, A Joint Venture	07-98	63
1487	1388 (102730)	Joseph Jensen Filtration Plant Finished Water Reservoir #2 Repairs	Serrot Corporation	07-98	30
1491	1391 (4-6302) (100369)	Seismic Upgrade and Rock Anchor Installation of Discharge Pipelines at Hinds Pumping Plant	Mitchell Pacific Constructors, Inc.	09-98	57
1494	1316A (100364)	Standby Emergency Power Additions F. E. Weymouth Filtration Plant	Robert Mills dba Mills Construction Company	10-98	13
1477	1342 (4-9605)	Eastside Reservoir Project P-1 Pumping Plant	Advanco Constructors, Div. of Zurn Constructors, Inc.	02-99	25

Construction Progress and
Summary of Contract Completion Data

Cont. No.	Spec. No.	Feature	Contractor	Estimated Completion Date	Percent Complete
1452	1326 (102738) (4-7964)	Eastside Reservoir Project West Dam, Saddle Dam, and Forebay	Atkinson-Washington-Zachry, A Joint Venture	06-99	59
1473	1328 (4-7999)	Eastside Reservoir Project East Dam	Kiewit-Granite, A Joint Venture	07-99	57
1482	1343 (4-9604)	Eastside Reservoir Project Inlet/Outlet Tower	Atkinson-Washington-Zachry, A Joint Venture	09-99	18
1492	1341 (4-7535) (100661)	Eastside Reservoir Project Inland Feeder Pressure Control Structure	Advanco Constructors, Div. of Zurn Constructors, Inc.	10-99	7
1490	1349 (100627)	Inland Feeder Riverside Pipeline - North	L. H. Woods & Sons, Inc.	04-00	1
1480	1358 (102844)	Inland Feeder Contract No. 2 - Arrowhead East Tunnel	Shank/Balfour Beatty	03-02	13
1489	1300 (100628)	Inland Feeder Riverside Pipeline - South	Steve P. Rados, Inc.	--	0
1495	1394 (102829)	Joseph Jensen Filtration Plant, Module No. 1 Filter Materials Replacement	Kiewit Pacific Co.	--	0

AWARDED CONTRACTS:

No construction or procurement contracts were awarded this month.

COMPLETED CONTRACTS

Construction

Contract No. 1469, standby emergency power system additions for the Joseph Jensen Filtration Plant Expansion No. 1, was completed on December 8, 1997; the Notice of Completion was recorded on December 17, 1997.

Contract No. 1493, Iron Mountain landfill closure project, was completed on December 31, 1997; the Notice of Completion was recorded on January 7, 1998.

Procurement

Final delivery for Contract No. 1468 was received on November 22, 1997.