



MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

8-5

August 18, 1998

To: Board of Directors (Budget and Finance Committee--Action)
(Engineering and Operations Committee--Action)

From: *fa* General Manager Edward G. Meyer III

Submitted by: Gary M. Snyder
Chief Engineer Gary M. Snyder

Subject: Appropriate \$5,000,000 and Delegate Authority to Award a Contract for the Joseph Jensen Filtration Plant Finished Water Reservoir No. 1 Repair

Reference: Appropriation No. 15343

RECOMMENDATION(S)

To repair the Joseph Jensen Filtration Plant Finished Water Reservoir No. 1 (Reservoir No. 1), the Reservoir No. 1 overflow/service connection pipeline, plus provide temporary service to the Los Angeles Department of Water and Power (LADWP) LA-25 service connection, it is recommended that your Board:

1. Appropriate \$5,000,000 in budgeted funds to finance all associated costs;
2. Authorize the General Manager to have all work performed; and
3. Delegate to the General Manager the authority to award a lump-sum construction contract, in form approved by the General Counsel and not to exceed \$3,500,000, for the repairs.

EXECUTIVE SUMMARY

Reservoir No. 1 is over 25 years old and major portions of the roofing system are deteriorating due to weathering and need to be replaced with a new roofing system. In addition, repairs are needed to fix cracks on the perimeter walls and replace the failed concrete floor slab joint sealants. These repairs will eliminate a potential cross connection condition between the treated water in Reservoir No. 1 and surrounding groundwater. In addition, a perforated concrete baffle will be installed to improve circulation within the reservoir. It will also be necessary to install a temporary bypass pipeline to avoid an extended outage of LADWP's LA-25 service connection. The total estimated cost of this program is \$5,000,000.

JUSTIFICATION

Repair of Reservoir No. 1 will protect the treated water in the reservoir from contamination from external sources, improve operational flexibility, eliminate stagnant zones inside the reservoir, and stop further deterioration of the overflow/service connection pipelines.

ALTERNATIVE TO PROPOSED ACTION

Defer Repair

This alternative would reduce short-term capital expenditures but would increase the risk of treated water contamination, and could result in a violation of the California Department of Health Services' regulations.

FUNDING REQUEST

Program Name: Joseph Jensen Filtration Plant Finished Water Reservoir No. 1 Repair			
Source of Funds: Pay-As-You-Go Fund			
Appropriation No.: 15343	Board Action No.1	FY 98/99 Budget: \$163,000	
Requested Amount:	\$5,000,000	Capital Program No.:	95608-W
Total Appropriated Amount:	\$5,000,000	Capital Program Page No.:	E-47
Total Program Estimate:	\$5,000,000*	Program Category:	Water Quality

*This is an increase from the estimate of \$4,650,000 that was in the Capital Program for Fiscal Year 1998/99.

MBE / WBE

Appropriate Minority-Owned Business Enterprises (MBE) and Women-Owned Business Enterprises (WBE) anticipated levels of participation will be established prior to advertising of the construction contract.

ACTIONS AND MILESTONES

- Complete reservoir repair final design and advertise in April 1999
- Award reservoir repair construction contract in July 1999
- Complete overflow/service connection pipeline repairs in September 1999
- Complete reservoir repair construction in August 2000

CEQA COMPLIANCE / ENVIRONMENTAL DOCUMENTATION

The proposed project qualifies for a Class 1 Categorical Exemption under the California Environmental Quality Act (CEQA) because it consists of the repair of an existing public facility and does not involve any expansion of use beyond that which previously existed (State CEQA Guidelines, Section 15301). No other environmental documentation is required for this project.

DETAILED REPORT

Reservoir No. 1 is over 25 years old and major portions of the roofing system have delaminated and show signs of deterioration due to weathering. Its walls and floor slab are cracked. The poor condition of the roofing system, walls, and floor could allow entry of surrounding groundwater into the finished water reservoir.

It is proposed to remove and replace the existing roofing system. Cracks in the walls and floor slab will be repaired by using coatings and sealants. Ponding of rainwater outside the reservoir will be minimized by constructing site drainage improvements to divert storm water away from the structure. Water in the reservoir is not well-mixed due to the lack of a baffle system to provide circulation. As part of this program, a perforated concrete baffle will be installed to eliminate dead zones within the reservoir.

The reservoir baffle replacement had been originally authorized under Appropriation No. 15090 for the Jensen plant Expansion No. 1; however, it is more effective to include it in this program.

Metropolitan would perform design, preparation of plans and specifications, contract administration and construction inspection for the repairs. Construction would be by contract under competitive bidding procedures. In order to streamline award of the construction contract, this letter requests a delegation of authority for the General Manager to award the contract immediately following competitive bids.

Since Reservoir No. 1 must be removed from service to make the proposed repairs, a temporary bypass pipeline will be utilized to avoid disruption of water deliveries to the LA-25 service connection. While the bypass is in operation, repairs and maintenance will be performed to the reservoir overflow/service connection line which normally feeds Jensen finished water to LADWP. All pipeline repairs and refurbishment are expected to be completed within three months. The total estimated cost of the program is \$5,000,000. The requested funding is higher than the Fiscal Year 1998/99 Capital Budget amount of \$4,650,000, because reservoir cracks require more extensive repairs than originally envisioned. A breakdown of estimated costs is shown on the attached Financial Statement (Attachment A).

JIM\mg:rev8
(Jensen FWR #1 Repair)
Attachment(s)

Attachment A

FINANCIAL STATEMENT

(Capital Program No. 95608-W)

The breakdown of the total estimated remaining cost for the Jensen Finished Water Reservoir No. 1 Repair is as follows:

BOARD ACTION
NO. 1

Labor:

Engineering	
Study/Investigations	\$ 25,000
Preliminary Design	25,000
Final Design	150,000
Project Management	30,000
Contract Administration, Field Inspection and Construction Support	330,000
Operations	<u>25,000</u>
Subtotal Labor	\$ 585,000

Material and Supplies	35,000
Incidental Expenses	10,000
Professional/Technical Services	15,000
Operating Equipment	20,000
Administrative Overhead	323,000
Construction Contract	3,500,000
Contingencies	<u>512,000</u>
Total	<u>\$5,000,000</u>

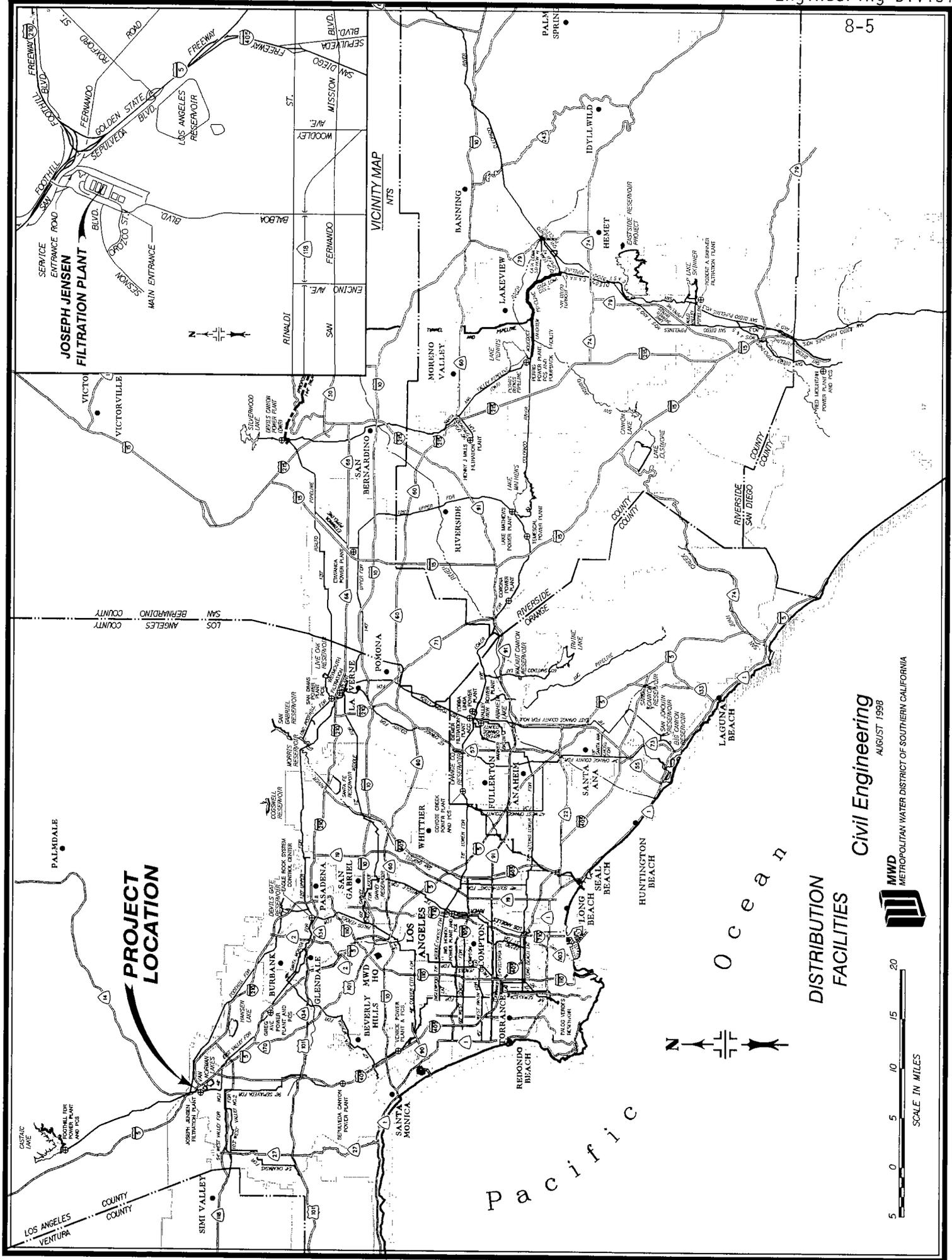
Source of Funds: Pay-As-You-Go Fund

Projected Expenditures of Funds :

Through Fiscal Year 1997/98	50,000
Fiscal Year 1998/99	350,000
Fiscal Year 1999/00	3,000,000
Fiscal Year 2000/01	1,088,000
Contingencies	<u>512,000</u>
Total	<u>\$5,000,000</u>

Capital Program for Fiscal Year 1998/99

Total Program Estimate	\$4,650,000
Program Estimate for FY 1998/99	\$ 163,000



PROJECT LOCATION

DISTRIBUTION FACILITIES

Civil Engineering
AUGUST 1998



MWD
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