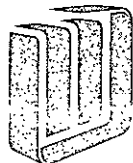


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**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA EXECUTIVE SECRETARY

April 24, 1992

(Engineering and Operations Committee--Action)  
Board of Directors (Finance and Insurance Committee--Action)

From: General Manager

Subject: Revision No. 1 to Appropriation No. 591 to Increase Funding  
from \$110,000 to \$1,875,000 to Finance All Estimated Costs to  
Replace the Domestic Water Treatment Systems at Five Aqueduct  
Pumping Plants and Delegation of Power to Award Contracts

Report

Intake, Gene, Iron Mountain, Eagle Mountain, and Hinds  
pumping plants have two separate water systems, one for fire  
protection and irrigation, and one for potable water to supply  
the needs of employees and their families who work and live at  
the facilities.

The potable water is currently treated by pressure-  
sand filtration which will not meet Surface Water Treatment  
Rule (SWTR) requirements effective in June 1993. Specifically,  
the systems would not meet SWTR requirements for multi-barrier  
treatment to remove or inactivate Giardia cysts and viruses,  
nor would they comply with SWTR monitoring, recording, and  
operating criteria.

In February 1990, your Board approved Appropriation  
No. 591 in the amount of \$110,000 to evaluate Metropolitan's  
domestic water systems at the five pumping plants, and  
authorized entering into an agreement with Brown and Caldwell  
Consultants (BCC) to evaluate the existing potable treatment  
systems and make recommendations for meeting the requirements  
of the SWTR. BCC concluded that the systems would not meet  
SWTR requirements and recommended pilot testing of alternative  
treatment systems. As a result, the Water Quality Division  
conducted a five-month pilot study of a membrane  
microfiltration unit. This system will meet the requirements  
of the SWTR; provide ease of operation, high reliability, and  
minimal operator involvement; is cost-competitive with other  
treatment systems; and will minimize waste streams and  
hazardous materials. The California Department of Health

Services is expected to give formal approval to Metropolitan's planned microfiltration facilities in mid-1992.

Based on the consultant's evaluation and recommendation, it is proposed that the domestic water treatment systems at the five pumping plants be brought into compliance with SWTR by utilizing a microfiltration unit as the replacement for the existing filtration system. District personnel will design the new system to be compatible with the existing water system, procure the necessary equipment and materials, and install the microfiltration system and appurtenances. The total estimated cost to replace the domestic water treatment systems is \$1,875,000, including the study costs. A breakdown of the estimated cost is attached.

In prior discussions, the Engineering and Operations and Finance and Insurance committees have indicated a desire to streamline contract award procedures. Consistent with this approach, this letter recommends delegation of power to the General Manager to award contracts once a capital project has been approved. This method, which will be used in future projects, departs from previous contract approval procedure by minimizing the Board's need to approve individual contract awards and would implement the provision in the Administrative Code for the delegation to the General Manager of the power to award specific classes of contracts.

The proposed project is exempt from the California Environmental Quality Act because it involves minor modifications of existing facilities with no expansion of use.

#### Board Committee Assignments

This letter is referred for action to:

The Engineering and Operations Committee because of its jurisdiction over the initiation, scheduling, and performance of construction programs, pursuant to Administrative Code Section 2431(b); and,

The Finance and Insurance Committee because of its jurisdiction over appropriations, pursuant to Administrative Code Section 2441(d).

Recommendations

**ENGINEERING AND OPERATIONS COMMITTEE FOR ACTION.**

It is recommended that your Board, consistent with the provisions of Administrative Code Section 8113, authorize the General Manager to have all work performed, and delegate to the General Manager the authority to award contracts for the replacement of the domestic water treatment systems at the five Aqueduct pumping plants.

**FINANCE AND INSURANCE COMMITTEE FOR ACTION.**

It is recommended that the Board authorize an increase of \$1,765,000 in Appropriation No. 591 to a total amount of \$1,875,000 from the 1991 Revenue Bond Construction Fund for replacement of the domestic water treatment systems at the five Aqueduct pumping plants.

  
for Carl Boronkay

CHT:ayb:rdl  
(app-591.ct)

Attachment A

## FISCAL STATEMENT

(Proposed F.Y. 92-93 Capital Program)  
(Program No. 5-5910-11)

A breakdown of the total estimated cost is as follows:

	<u>Initial Funding</u>	<u>Rev. No. 1</u>
Labor:		
Engineering		\$ 231,000
Environmental		9,000
Water Quality		23,000
District Forces Construction		<u>156,000</u>
Total Labor		\$ 419,000
Materials and Supplies		\$ 756,000
Incidental Expenses		25,000
Operating Equipment		15,000
Administrative Overhead		231,000
Contingencies		319,000
Water Systems Study	<u>110,000</u>	<u>110,000</u>
TOTAL	\$ <u>110,000</u>	\$ <u>1,875,000</u>

## Source of Funds:

1991 Revenue Bond Construction Fund

Class: One--Projects required for  
health and safety or to comply  
with governmental requirements.

## Projected Expenditures of funds:

Through 1991/92	\$ 110,600
FY 92/93	1,520,300
FY 93/94	<u>244,100</u>

TOTAL \$ 1,875,000

## Project Benefit:

Will bring the domestic water  
treatment systems at five pumping  
plants into compliance with the  
Surface Water Treatment Rule.

CHT/ayb/rdl  
(app-591.ct)