

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

October 26, 1993

*To:* Board of Directors (Water Problems Committee--Information)  
 (Engineering & Operations Committee--Action)

*From:* General Manager

*Subject:* Authorization to Extend the Term of Agreements Nos. 3734 and  
 3733 for the Chino Basin Short-Term Conjunctive-Use Project

Report

Your Board, on August 20, 1992, authorized the General Manager to enter into agreements to implement a Chino Basin Short-Term Conjunctive-Use Project. The project involved the storage of up to 5,000 acre-feet of water in the Chino Basin by in-lieu exchange and the subsequent extraction of that stored water over a two-year period using Cucamonga County Water District (CCWD) facilities. A status report on the project is attached.

Under agreement terms for use of CCWD's facilities, Metropolitan was to be provided the use of a minimum of 5,000 gpm of flow capacity from CCWD's well system near Metropolitan's CB-5 service connection. Circumstances surrounding recent well contamination in other areas of CCWD's distribution system make it difficult to extract the stored water within the term of the agreement for project extraction without affecting CCWD's ability to provide water to its service area. Extension of the term of the agreements from two to three years will permit delivery of all of the stored water without compromising CCWD's delivery capability.

The project has been determined to be categorically exempt from the requirements of the California Environmental Quality Act because it consists of a minor alteration of existing public facilities beyond that previously existing. A Notice of Exemption was filed with the San Bernardino County and State Clearinghouse in August 1992.

Board Committee Assignments

This letter is referred to:

The Engineering and Operations Committee for action because of its responsibilities related to storage facilities

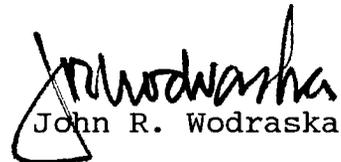
for delivery of water pursuant to Administrative Code Sections 2431 (c) and (d); and

The Water Problems Committee for information because of its responsibilities related to importation, exchange, and underground storage of water pursuant to Administrative Code Sections 2481 (c) and (d).

Recommendation

**ENGINEERING & OPERATIONS COMMITTEE FOR ACTION.**

It is recommended that the General Manager be authorized to amend the appropriate agreements to extend the term of the recovery of Metropolitan's stored groundwater under the project by one year as described in this letter.

  
John R. Wodraska

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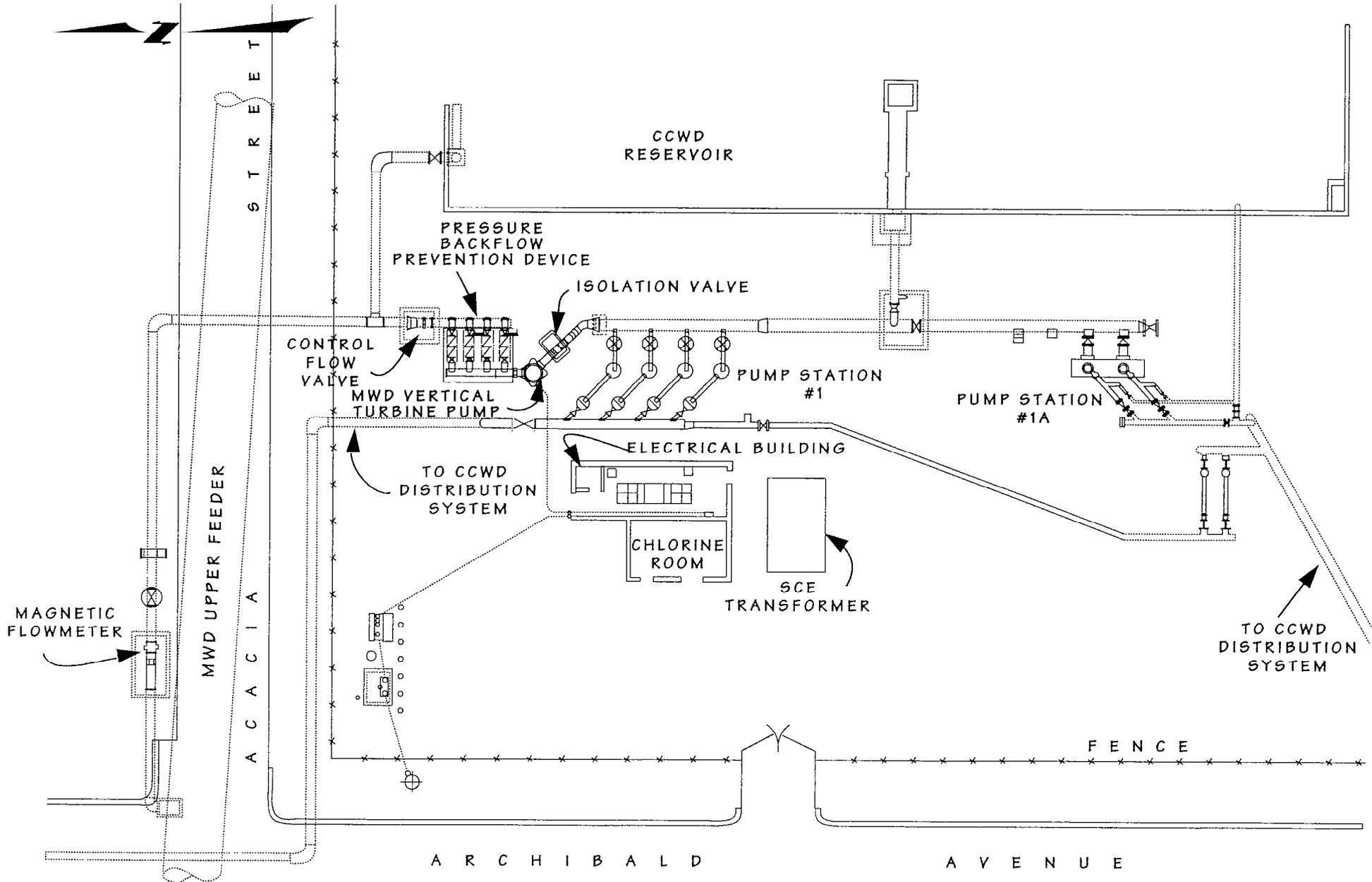
**Chino Basin Short-Term Conjunctive-Use Project  
Status Report - October 1993**

Storage of 4,806 acre-feet of water was accomplished by in-lieu exchange in 1992. Construction of the facilities that allow Metropolitan to place groundwater into its system for the first time is now complete and the project is now capable of delivering up to 1,000 acre-feet per month of high-quality groundwater to Metropolitan's Upper Feeder.

Extraction of water will be accomplished using CCWD's extraction wells at no capital cost to Metropolitan. Metropolitan will pay energy costs to pump the groundwater. Metropolitan required facility modifications involved installation of new valves, a meter and a transfer pump to reverse flows at the CB-5 service connection and permit injection into the Upper Feeder (see attached site plan). Cross-connection protection was provided to avoid introduction of untreated Upper Feeder water into CCWD's potable distribution system. The design provides for resumed use of the CB-5 service connection to deliver Upper Feeder water into CCWD's system during emergencies.

Preliminary design of the facility modifications prepared prior to approval of the project were estimated to not exceed \$300,000. During final design it was discovered that the cross-connection protection methods required by the local Health Department were more extensive than initially anticipated. While this did not substantially affect materials price, the effect on complexity of design and construction cost was significant. During construction, discovery of underground utilities not recorded in as-built drawings for the CCWD site also resulted in increased construction cost. As a result of the above difficulties, capital costs for the facility modifications totalled about \$485,000. Sufficient funds are available under Appropriation No. 3990 for the increased costs.

This test effort has been pursued to enable Metropolitan to gain experience in conjunctive use at a small scale with low risk. Many valuable lessons have been learned and it is important to recognize that this endeavor demonstrates that conjunctive use can be accomplished as a reliable water supply strategy. In the months ahead, staff will be evaluating the effectiveness of the extraction facilities, the various water accounting mechanisms required by the Chino Basin Watermaster, and other institutional arrangements related to the proposed larger Chino Basin Conjunctive-Use Demonstration Project.



**CB-5 CONJUNCTIVE USE CONNECTION SITE PLAN**