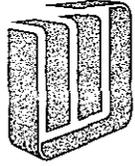


FILED by order  
of the Board of Directors of  
The Metropolitan Water District  
of Southern California  
at its meeting held JUL 14 1992



**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

*Doris E. Duff*  
Executive Secretary

June 30, 1992

To: Board of Directors (Water Problems Committee--Information)  
From: General Manager  
Subject: San Gabriel Basin Groundwater Storage Program Report

Report

The San Gabriel Groundwater Basin (Basin) supplies approximately 90 percent of the water supply for 1 million people living and working in the San Gabriel Valley. Approximately 240,000 acre-feet per year of groundwater is extracted annually for domestic, municipal, and industrial use. The current water resources management structure in the Basin includes three municipal water districts and 45 water purveyors (see Figure 1). Two of the three municipal water districts in the Basin, Upper San Gabriel Valley Municipal Water District (Upper District) and Three Valleys Municipal Water District (Three Valleys) are member agencies of Metropolitan. The third, San Gabriel Valley Municipal Water District (SGVMWD), is a State Water Project contractor. Upper District and Three Valleys provide both treated water for municipal and industrial uses, and raw water for groundwater replenishment. SGVMWD provides raw water for groundwater replenishment. A third Metropolitan member agency, the City of San Marino, is served by two investor-owned utilities which extract groundwater from the Basin.

Groundwater contamination from Volatile Organic Compounds (VOC) in the Basin was first detected in 1979 (see Figure 2). In May 1984, the Basin was added to the Superfund National Priority List. The largest area of high-level VOC contamination in the Basin is centered in the Baldwin Park area. To address contamination in this area, the Environmental Protection Agency is conducting an investigation called the Baldwin Park Operable Unit Feasibility Study (OUFS). The Baldwin Park OUFS will evaluate several alternatives for pumping contaminated water from the Baldwin Park area of the basin and treating it to remove the hazardous substances. The objective of the alternatives will be to remove large amounts of contaminants from the groundwater basin and to control the spread of contaminants from this area. Information and data prepared

for Metropolitan's conjunctive-use feasibility study (to be completed in July) is being used to formulate one or more of the alternatives. The Baldwin Park OUFS and a proposed plan recommending one of the alternatives are scheduled to be released for public comment this Fall.

In Metropolitan's San Gabriel Groundwater Storage Program large amounts of water would be extracted from the contaminated Baldwin Park area of the Basin and treated to remove VOCs and nitrates. The treated water would be exported via Metropolitan's Middle Feeder pipeline for use as a potable supply in Metropolitan's service area. The program would contribute to improving Metropolitan's water supply situation by preserving the Basin as a source of local supply (and thereby lessening anticipated increases in local demands for imported water from Metropolitan because of the contamination). It would also improve the efficiency of Metropolitan's existing system by providing water storage capacity in a cost effective and environmentally-responsible manner. The program would utilize the storage capacity of Domenigoni Reservoir by facilitating delivery of imported water when recharge capacity is available in the Basin.

There are common facilities required for both the Metropolitan Program and the other clean-up alternatives being evaluated in the Baldwin Park OUFS. Staff has been meeting with representatives from both the U.S. and California environmental protection agencies to identify the requirements to implement Metropolitan's Program as a cooperative effort, thus making it eligible for funding from the Superfund Program. The amount of funding would be based on the cost determined to be necessary and appropriate for basin clean-up.

Efforts have been made to provide alternative and/or additional federal funding for the Program in Section 1914 of House of Representatives Bill 429 (H.R. 429) and House of Representatives Bill 3207 (H.R. 3207). At its April 1992 meeting, your Board gave the General Manager the authority to support these efforts.

H.R. 429 has passed both houses of Congress and is awaiting conference committee action. The prospect for final consideration in the current congressional session is good. If H.R. 429 is enacted into law, funding could be available as early as fiscal year 1994. H.R. 3207 is awaiting action by the House Committee on Public Works and Transportation.

Board Committee Assignment

This letter is referred for information to the Water Problems Committee pursuant to Sections 2481(d) and (i) of Metropolitan's Administrative Code granting it authority regarding policies dealing with the sale and delivery of water for various uses, and underground storage of water and the use thereof.

Recommendation

For information only.



Carl Boronkay

TH:bvf



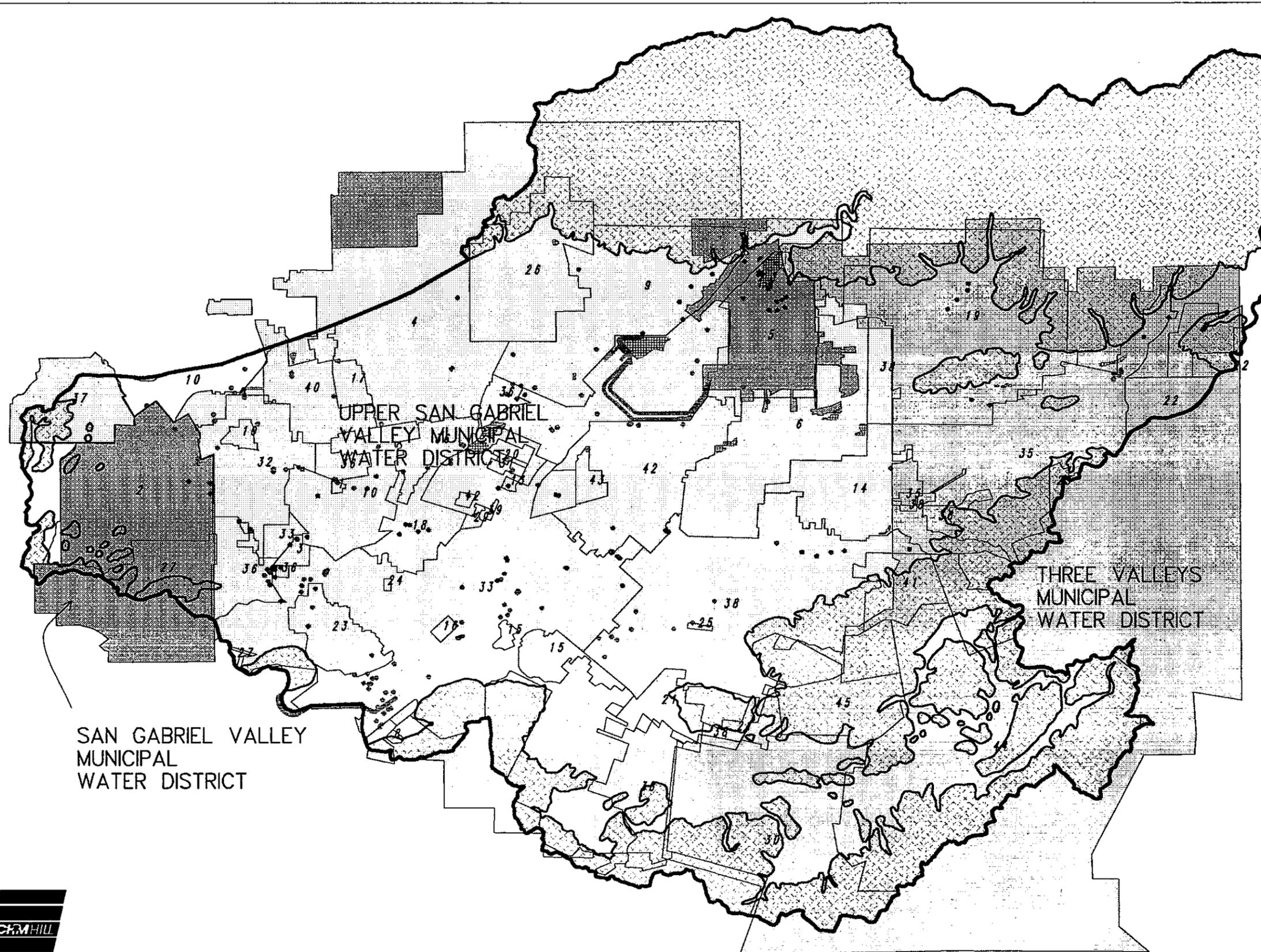
LEGEND:

- HYDROLOGIC BOUNDARY
- ALLUVIAL AQUIFER BOUNDARY
- WATER PURVEYOR BOUNDARY
- DAW
- PRODUCTION WELL
- SPREADING BASIN
- BEDROCK

CODE	PRODUCER'S NAME
1	ADAMS RANCH MUTUAL WATER COMPANY
2	CITY OF ALHAMBRA
3	AMARILLO MUTUAL WATER COMPANY
4	CITY OF ARCADIA
5	CITY OF AZUSA
6	AZUSA VALLEY WATER COMPANY
7	BASILINE WATER COMPANY
8	BEVERLY ACRES MUTUAL WATER COMPANY
9	CALIFORNIA-AMERICAN WATER COMPANY-DUARTE SYSTEM
10	CALIFORNIA-AMERICAN WATER COMPANY-SAN MARINO SYSTEM
11	CALIFORNIA DOMESTIC WATER COMPANY
12	CEDAR AVENUE MUTUAL WATER COMPANY
13	CHAMPION MUTUAL WATER COMPANY
14	CITY OF COVINA
15	CITY OF INDUSTRY WATERWORKS SYSTEM
16	DEL RIO MUTUAL WATER COMPANY
17	EAST PASADENA WATER COMPANY
18	CITY OF EL MONTE
19	CITY OF GLENDORA
20	HEMLOCK MUTUAL WATER COMPANY
21	LA PUENTE VALLEY COUNTY WATER DISTRICT
22	CITY OF LA VERNE
23	COUNTY OF LOS ANGELES
24	LOS FLORES MUTUAL WATER COMPANY
25	MAPLE WATER COMPANY
26	CITY OF MONROVIA
27	CITY OF MONTEREY PARK
28	CITY OF PASADENA
29	RICHWOOD MUTUAL WATER COMPANY
30	ROWLAND AREA COUNTY WATER DISTRICT
31	RURBAN HOMES MUTUAL WATER COMPANY
32	SAN GABRIEL COUNTY WATER DISTRICT
33	SAN GABRIEL VALLEY WATER COMPANY
34	CITY OF SIERRA MADRE
35	SOUTHERN CALIFORNIA WATER COMPANY-SAN DIMAS DISTRICT
36	SOUTHERN CALIF. WATER CO.-SAN GABRIEL VALLEY DISTRICT
37	CITY OF SOUTH PASADENA
38	SUBURBAN WATER SYSTEMS
39	STERLING MUTUAL WATER COMPANY
40	SUNNY SLOPE WATER COMPANY
41	VALENCIA HEIGHTS WATER COMPANY
42	VALLEY COUNTY WATER DISTRICT
43	VALLEY VIEW MUTUAL WATER COMPANY
44	WALNUT VALLEY WATER DISTRICT
45	CITY OF WEST COVINA

SOURCE: UNPUBLISHED MAP OF PURVEYOR DATA  
STETSON ENGINEERS INC., APRIL 1988.

FIGURE 1  
PRODUCTION WELLS AND  
WATER DISTRICTS IN THE  
SAN GABRIEL BASIN



SAN GABRIEL VALLEY  
MUNICIPAL  
WATER DISTRICT

UPPER SAN GABRIEL  
VALLEY MUNICIPAL  
WATER DISTRICT

THREE VALLEYS  
MUNICIPAL  
WATER DISTRICT



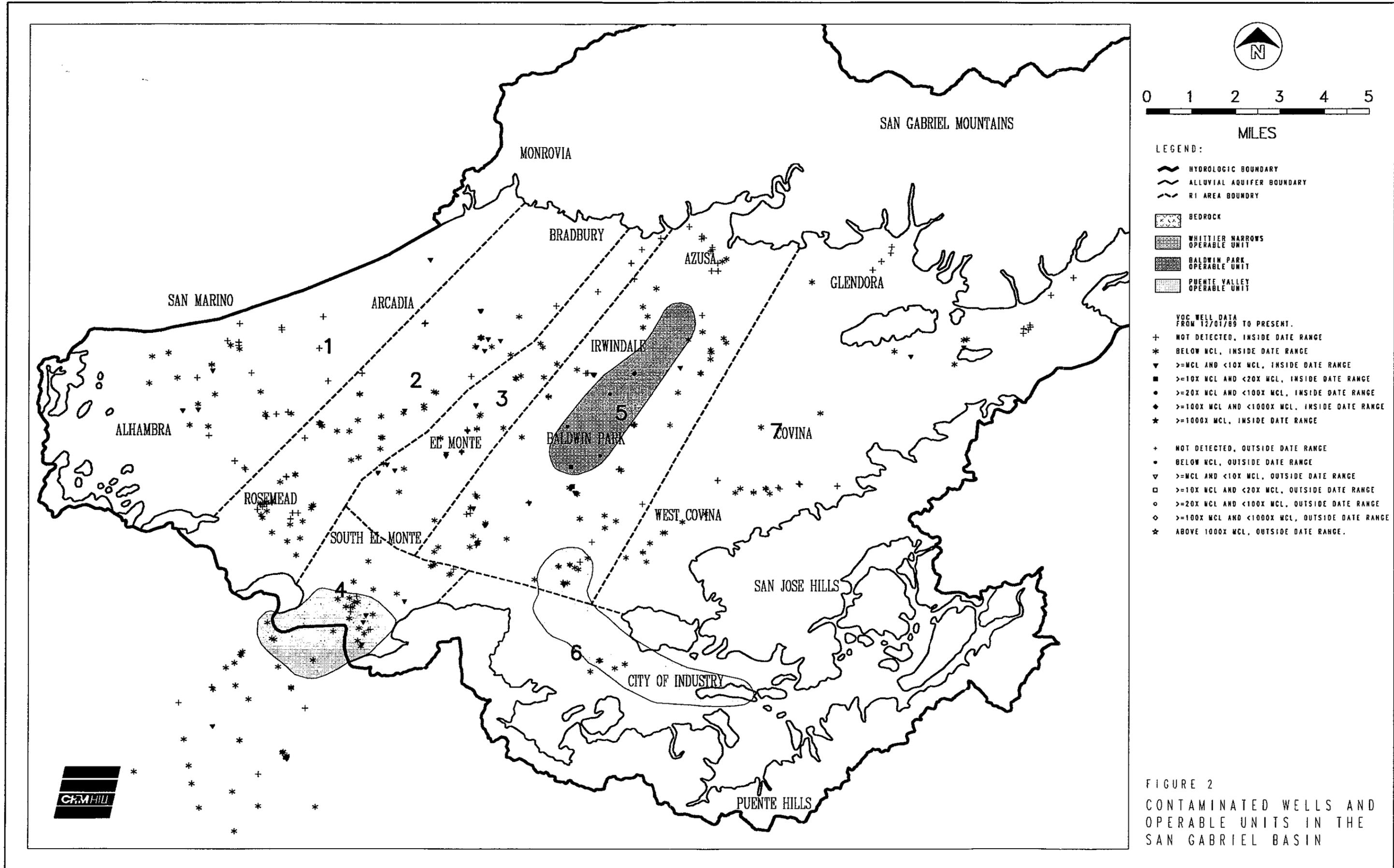


FIGURE 2  
CONTAMINATED WELLS AND  
OPERABLE UNITS IN THE  
SAN GABRIEL BASIN