

Appendix L Water Supply Assessment

Appendices

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October 4, 2017

Re: City of Hope Water Supply Assessment

City of Hope,

The attached Water Supply Assessment (WSA) was prepared on behalf of California-American Water (CAW) to satisfy the requirements of California Water Code Section 10910 (Senate Bill 610) for the City of Hope Specific Plan (Project).

As required by Senate Bill 610, this WSA assessed whether the total projected water supplies available during average, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand for the Project, in addition to CAW's existing and planned future uses. The water demands of the proposed Project were accounted for in CAW's *2015 Urban Water Management Plan for the Southern Division- Los Angeles County District*. This WSA concludes that CAW's total projected water supplies are sufficient to meet the projected water demand for the Project, provided that CAW's groundwater production capacity is increased to provide the ability to access these supplies, as discussed in Chapter 9 of the WSA.

This WSA is approved by CAW on October 4, 2017 and is being provided to the City of Duarte as the Lead Agency for the Project to support your determination of whether water supplies will be sufficient to satisfy the demands of the project in addition to planned and future uses.

Should you have any concerns or require additional information regarding this WSA please contact me.

Sincerely,

Mark Reifer
Engineering Manager – Project Delivery

California-American Water Southern Division-
Los Angeles County District

Final Water Supply Assessment

for the

City of Hope Specific Plan

Prepared for:

The City of Duarte

Prepared Under the Responsible Charge of:

Laine Carlson

California R.C.E. No. 72424, Expires 6/30/2018



9/22/2017



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1 INTRODUCTION AND PURPOSE

This Water Supply Assessment (WSA) was prepared on behalf of California-American Water (CAW) by Water Systems Consulting, Inc. (WSC) to satisfy the requirements of California Water Code (CWC) Section 10910 (Senate Bill 610) for the City of Hope Specific Plan (Project), which is proposed by the City of Hope National Medical Center (COH). The Project lies primarily within the city limits of the City of Duarte (City), with a smaller portion at its eastern and southern edges located within the City of Irwindale. The entire Project lies within CAW's Duarte water service area. The City is the Lead Agency for the Project's Environmental Impact Report (EIR) which is required by the California Environmental Quality Act (CEQA).

As required by Senate Bill 610 (SB 610), CAW is responsible for assessing whether the total projected water supplies available during average, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand for the Project, in addition to CAW's existing and planned future uses. A water supplier's Urban Water Management Plan (UMWP) serves as a foundational document for a WSA. The water demands of the proposed Project were accounted for in CAW's 2015 UWMP for the Southern Division- Los Angeles County District (2015 UWMP) (1). Content from the 2015 UWMP has been updated and incorporated into this document. Additional information from other sources is also incorporated into this WSA to document supplies from all sources, including groundwater and purchased water. Documentation includes identifying and quantifying water rights, contracts, and/or entitlements to the supply. CAW must provide the results of the assessment to the City, as the Lead Agency, for inclusion in the CEQA document for the project. This WSA includes the following:

- Description of the Project and proposed water demand (Section 2 & 3)
- Overview of CAW's water system (Section 4)
- Information on CAW's current and projected water demands in the Duarte water service area (Section 5)
- Information on CAW's current and projected water supplies (Section 6)
- Discussion of water supply reliability (Section 7)
- Comparison of water supplies and water demands for average, single dry, and multiple dry years (Section 8)
- Determination of water supply sufficiency and a description of the facilities necessary to provide additional water supplies to serve the demands of the Project (Section 9)

1.1 LEGISLATION

The City has determined that the Project is subject to review under CEQA (*Public Resources Code, Section 21000 et seq.*), and the state CEQA Guidelines (*California Code of Regulations, Section 15000 et seq.*) The city has determined that the Project is a "project" as defined in CWC 10912 and has determined that an EIR is required for the Project.

SB 610 amended the Public Resources Code, effective January 1, 2002, to incorporate CWC requirements for certain types of development projects to improve the link between information on water supply availability and certain land use decisions made by cities and counties. SB 610 seeks to promote more collaborative planning between local water suppliers and cities and counties and requires detailed information regarding water availability be provided to the city and county decision-makers prior to approval of specified large development projects.

Under SB 610, water suppliers must prepare WSAs for projects meeting certain project size criteria and deliver them to local governments for inclusion in any environmental documentation. The criteria that trigger preparation of a WSA are shown below with this Project's applicable criteria marked with an "x".

- A proposed residential development of more than 500 dwelling units.
- A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.
- A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.
- A proposed hotel or motel, or both, having more than 500 rooms.
- A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area.
- A mixed-use project that includes one or more of the projects specified in this subdivision.
- A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.

The Project requires a WSA because it proposes construction of uses that exceed the thresholds of a development that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.

1.2 DEFINITIONS

For the purposes of this WSA, the following defined terms are used:

- **Groundwater production:** The amount of water produced from CAW groundwater supply sources and put into the distribution system based on metered flows at each well. CAW provided annual groundwater production data for 1995-2015.
- **Purchased Water:** The amount of water purchased from CAW's wholesale supply sources and put into the distribution system based on metered flows at each supply connection. CAW provided annual purchased water data for 2005-2015.
- **Consumption:** The amount of billed metered water consumed by customers. CAW provided annual consumption data for 1995-2015.
- **Demand:** The amount of water distributed through the entire water system, which is the sum of groundwater production and purchased water. Demand includes non-revenue water, which is equal to the difference between water put into the distribution system and consumption.
- **Non-revenue water:** Unmetered water use and losses from the distribution system due to leaks, unauthorized connections or theft.

- **Unit Factor:** The calculated amount of water demand per unit (e.g., acre, sqft, dwelling unit, etc.) of a specific type of use (e.g., land use, development type, business type, etc.).

2 PROJECT DESCRIPTION

The proposed Project is an expansion of the existing COH facility located at 1500 Duarte Road in the City of Duarte, California, and within CAW's Duarte service area (see Figure 2-1). The Project is generally bounded by Duarte Road to the north; Cinco Robles Drive, the Duarte Flood Control Channel, and Buena Vista Street to the west; and the Sante Fe Flood Control Basin to the south and east.

Currently, the COH campus is developed with a mix of hospital-related uses, including inpatient, outpatient, research, office, industrial, warehouse, assembly, hospitality (short-term stay housing provided by COH for family members of patients and guests), and housing (residential), that total 1,600,000 gross square feet of building space. The existing housing consists of one single-story and two 2-story residential units along Cinco Robles that are rented out. The COH also owns several vacant parcels (approximately 2.5 acres) of land along Cinco Robles Drive. The COH's central utility plant is along the southern end of the project site. Other existing improvements throughout the project site include stop controlled, two-lane roadways; driveways and drive aisles; asphalt-paved parking areas; parking structures; walkways and sidewalks; and other hardscape improvements. There is also a vacant area, approximately three acres in size, located at the southern portion of the campus.

The City of Hope is seeking approval of the City of Hope Specific Plan, which would provide comprehensive direction for enhancement and development of its approximately 116-acre campus over a 20-year period. The proposed development within the Specific Plan includes 1,426,000 square feet of additions to the existing outpatient, inpatient, research, office, industrial, warehouse and hospitality uses. New parking structures and surface lots are also proposed, as well as internal driveways and open space improvements. In addition, the Specific Plan proposes to consolidate modular buildings that are currently dispersed throughout the campus, demolish 387,500 square feet of outdated buildings, and construct new floor area within larger development sites that provide flexibility for future buildout of the campus.

The proposed net new development is 1,038,500 gross square feet (GSF). A net reduction in landscape coverage of the campus is anticipated. There is currently no grey water or recycled water use planned for the site.

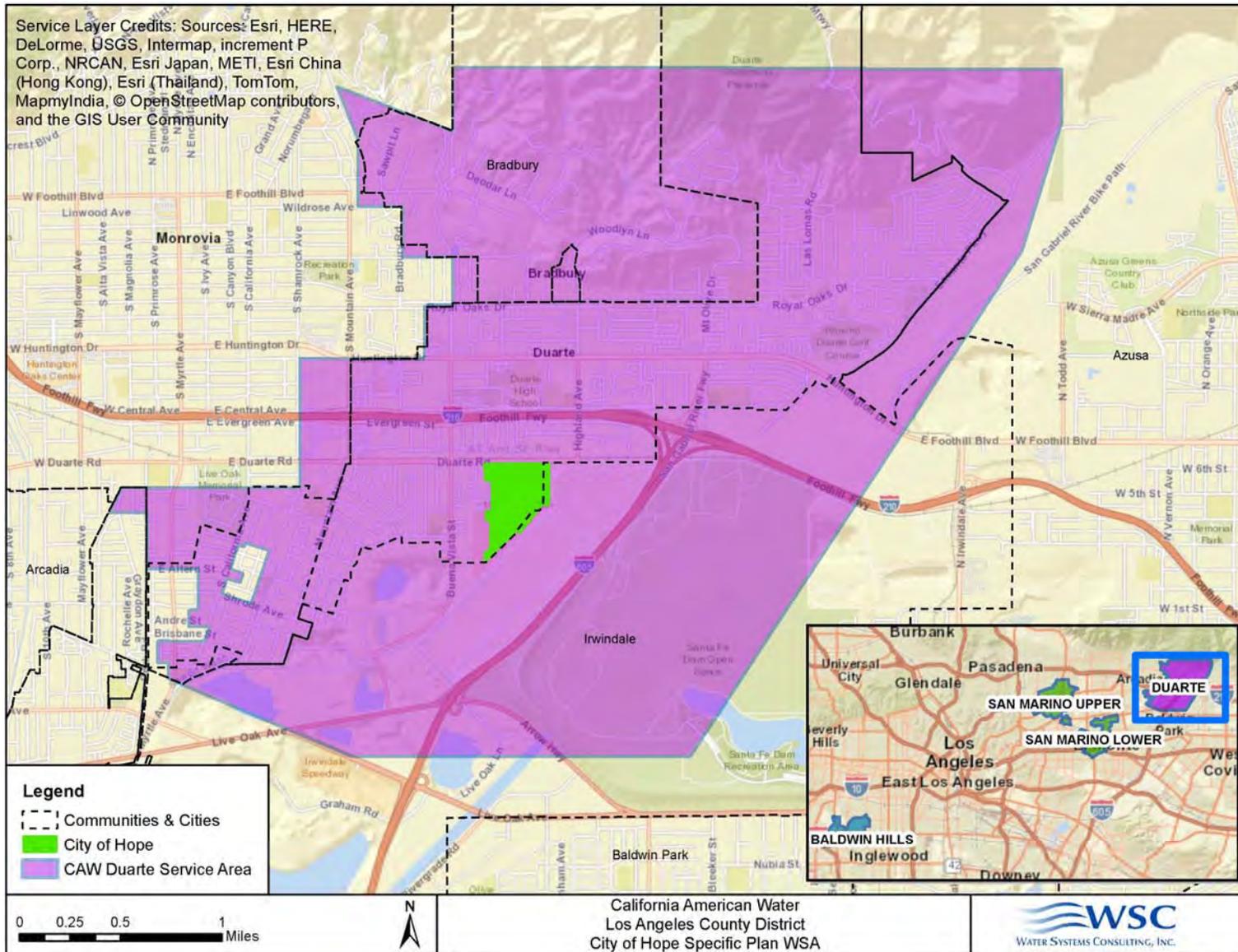


Figure 2-1. Project Vicinity Map

Construction of the proposed project is anticipated to occur in four phases as shown in Table 2-1. The construction of Phase I is anticipated to be completed by 2020, Phase II by 2025, Phase III by 2030, and Phase IV by 2035.

Table 2-1. Project Construction Phasing

Proposed Land Use	Proposed New Building (GSF)	Proposed Demolition (GSF)	Proposed Net New Development (GSF)
Outpatient (Clinic)	280,000	(30,000)	250,000
Research	180,000	(23,500)	156,600
Office	60,000	(44,500)	15,500
<i>Phase I Subtotal</i>	<i>520,000</i>	<i>(98,000)</i>	<i>422,000</i>
Inpatient (Hospital)	210,000	0	210,000
Research	61,000	(17,500)	43,500
Office	0	(60,500)	(60,500)
Hospitality¹	0	(3,500) (8 rooms)	(3,500) (8 rooms)
Warehouse	0	(22,000)	(22,000)
Industrial	20,000	(3,500)	16,500
<i>Phase II Subtotal</i>	<i>291,000</i>	<i>(107,000)</i>	<i>184,000</i>
Outpatient (Clinic)	180,000	0	180,000
Inpatient (Hospital)	0	(70,500)	(70,500)
Office	70,000	(13,000)	57,000
Assembly	0	(29,000)	(29,000)
Hospitality¹	75,000 80 rooms	(14,500) (32 rooms)	60,500 48 Rooms
Industrial	40,000	0	40,000
Warehouse	0	(26,500)	(26,500)
<i>Phase III Subtotal</i>	<i>365,000</i>	<i>153,500</i>	<i>211,500</i>
Research	130,000	(29,000)	101,000
Office	120,000	0	120,000
<i>Phase IV Subtotal</i>	<i>250,000</i>	<i>(29,000)</i>	<i>221,000</i>
Grand Total	1,426,000	(387,500)	1,038,500

¹COH's current hospitality uses consist of forty (40) rooms in 10 buildings (four units per building). Two (2) of those buildings would be demolished in Phase 2 of the Project, and the remaining eight (8) would be demolished in Phase 3. The proposed hospitality uses under the Project, which would consist of 75,000 square feet of floor area, would contain eighty (80) rooms. (2)

3 PROJECT WATER DEMAND

Estimated water demand for the Project was provided by KPFF Consulting Engineers (KPFF), the civil engineer for the Project. KPFF assumed that 90% of the total water used by the Project is returned to the sewer as wastewater. Projected wastewater flow was determined using Los Angeles County Sanitation District Ordinance No. 22 (2), which provides unit sewer flows for various land use categories. Water demand factors were calculated by dividing the unit sewer flow by 0.9 to reflect the assumed return-to-sewer ratio of 90%. These water demand factors for each land use type were then multiplied by the respective proposed net new development square footage to determine the projected net additional project water demand. The resulting water demand projections are presented in Table 3-1.

WSC performed an independent review of the Project water demand estimates prepared by KPFF and conducted its own analysis using additional industry standard references, water demand factors used by other water purveyors, and historic water use by COH. WSC compared the results of its analysis with the estimates prepared by KPFF and determined that the KPFF estimates are conservative and reasonable for the proposed uses. The final Project demand estimates are presented in Table 3-1.

Note that KPFF's analysis accounts for domestic water use for the gross square footage of the buildings only and that water use for site landscaping and fire service demand are excluded. According to COH, a net reduction in landscape coverage of the campus is anticipated. This is supported by the hydrology analysis, which assumes a 5% increase in impervious surfaces as a result of the Project (4). Details on the current and future irrigation water use for the Project were not available as of the writing of this WSA, so it is conservatively assumed that there will be no net change in water use for landscaping. Water for fire protection purposes is used for emergencies only and is not included in the water demands for the Project. If fire flow requirements at COH are increased as a result of the Project, COH will need to coordinate with CAW to determine whether additional fire flow is or can be made available for the Project. This would require evaluation of CAW's distribution system capacity and may require offsite improvements to increase fire flow availability, but would not impact the water demand and supply analysis presented in this WSA.

As discussed in Section 2, it is anticipated that various phases of the Project will be completed at different times. The estimated Net Additional Project Water Demand by Project phase is shown in Table 3-2.

3.1 HISTORIC PROJECT SITE WATER CONSUMPTION

As described previously, the Project site is currently occupied by the COH campus. The existing COH water consumption was accounted for in the 2015 UWMP based on historical water consumption. COH used 373 acre feet per year (AFY) in 2015 and averaged 385 AFY from 2011-2015. COH is one of the largest water users in the Los Angeles County District and the completion of this Project is anticipated to nearly double COH's 2011-2015 average consumption.

Table 3-1. Net Additional Project Water Demand Estimate

Proposed Land Use	Proposed Net New Development (GSF)	Water Demand Factor (gpd/1K GSF) ¹	Net Additional Project Water Demand (AFY)
Outpatient (Clinic)	250,000	0.37	93.25
Research	156,600	0.37	58.19
Office	15,500	0.25	3.85
<i>Phase I Subtotal</i>	<i>422,000</i>		<i>155.30</i>
Inpatient (Hospital)	210,000	0.37	78.33
Research	43,500	0.37	16.23
Office	-60,500	0.25	-15.04
Hospitality	-3,500	0.16	-0.54
Warehouse	-22,000	0.03	-0.69
Industrial	16,500	0.03	0.52
<i>Phase II Subtotal</i>	<i>184,000</i>		<i>78.80</i>
Outpatient (Clinic)	180,000	0.37	67.14
Inpatient (Hospital)	-70,500	0.37	-26.30
Office	57,000	0.25	14.17
Assembly	-29,000	0.16	-4.52
Hospitality²	60,500 (40 rooms)	0.16	6.40
Industrial	40,000	0.03	1.25
Warehouse	-26,500	0.03	-0.83
<i>Phase III Subtotal</i>	<i>211,500</i>		<i>57.33</i>
Research	101,000	0.37	37.67
Office	120,000	0.25	29.84
<i>Phase IV Subtotal</i>	<i>221,000</i>		<i>67.51</i>
Grand Total	1,038,500		358.93

¹ From EIR Support – Water Analysis (2)
² Water Demand Factor for Hospitality is based on # of rooms.

Table 3-2. Net Additional Project Water Demand Summary by Phase, AFY

Phase (Year Completed)	Net Additional Project Water Demand, AFY
Phase I (2020)	155.30
Phase II (2025)	78.80
Phase III (2030)	57.33
Phase IV (2035)	67.51
Total Net Additional Project Demand	358.93

4 PUBLIC WATER SYSTEM OVERVIEW

CAW's Southern Division - Los Angeles County District consists of the Baldwin Hills, Duarte, and San Marino water service areas. The water systems within these three service areas are not interconnected with each other and have independent water supplies. All three service areas of the Los Angeles County District are located in Los Angeles County, California. In 2015, the Los Angeles County District provided water to 27,838 connections and served a population of approximately 101,777 people. In 2015, this population made up 1% of the Los Angeles County population. Figure 4-1 shows the location of all three service areas in Los Angeles County.

The Project is located entirely within CAW's Duarte water service area, which is shown in Figure 4-2. The Duarte water service area encompasses approximately 6,459 acres and is located approximately 20 miles northeast of downtown Los Angeles. The Duarte water service area spans both sides of Interstate 210 immediately west of the Interstate 210/ Interstate 605 freeway interchange. The San Gabriel River runs along the eastern border of the Duarte water service area. In 2015, CAW's Duarte water service area provided water to 7,469 customers in the cities of Azusa, Bradbury, Duarte, Irwindale, and Monrovia. CAW served approximately 29,156 people in the Duarte water service area in 2015. Because the Project is located in the Duarte water service area, which is operated separately from San Marino and Baldwin Hills service areas, only the Duarte service area will be discussed in subsequent sections of this WSA.

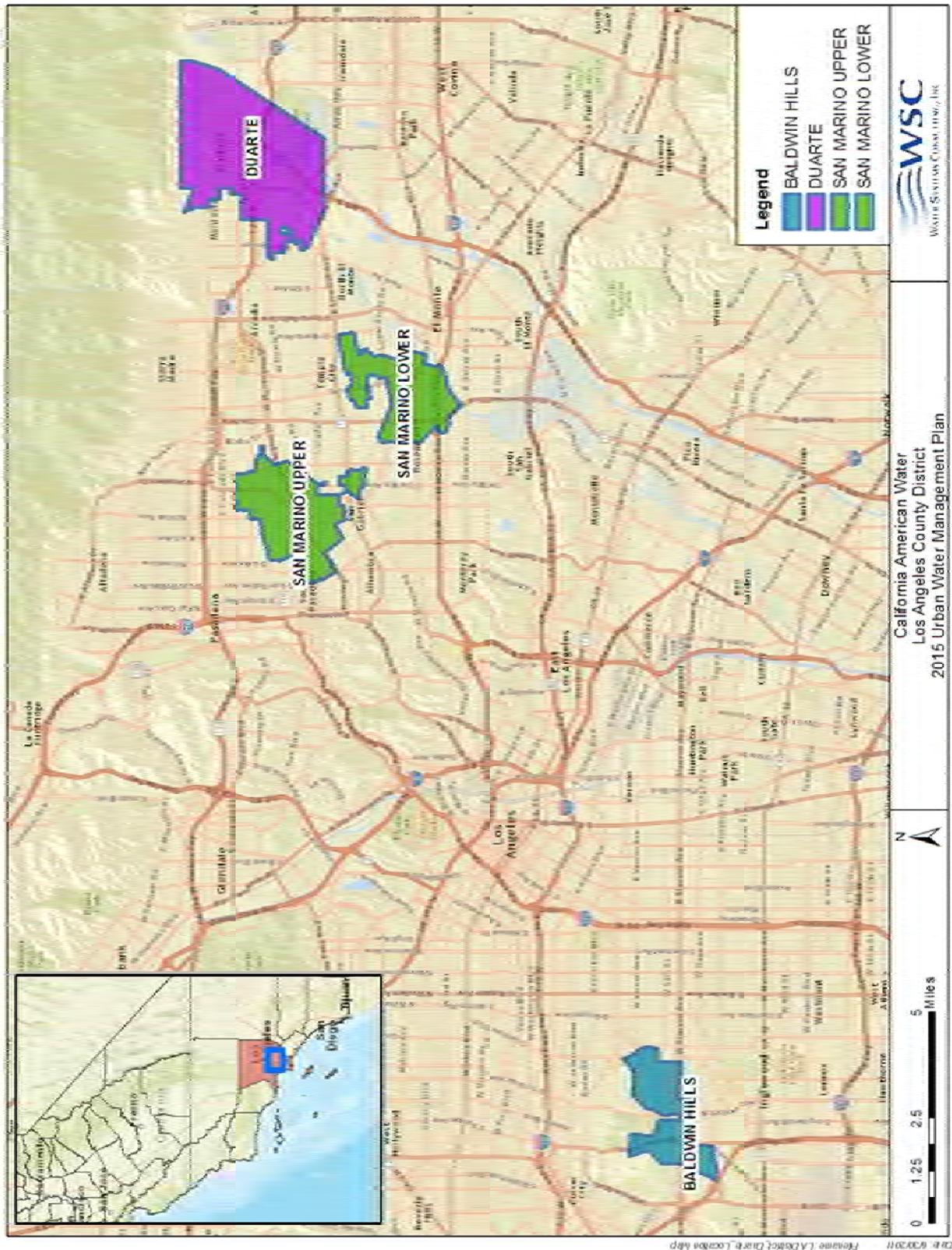


Figure 4-1. CAW Los Angeles County District Water Service Areas (1)

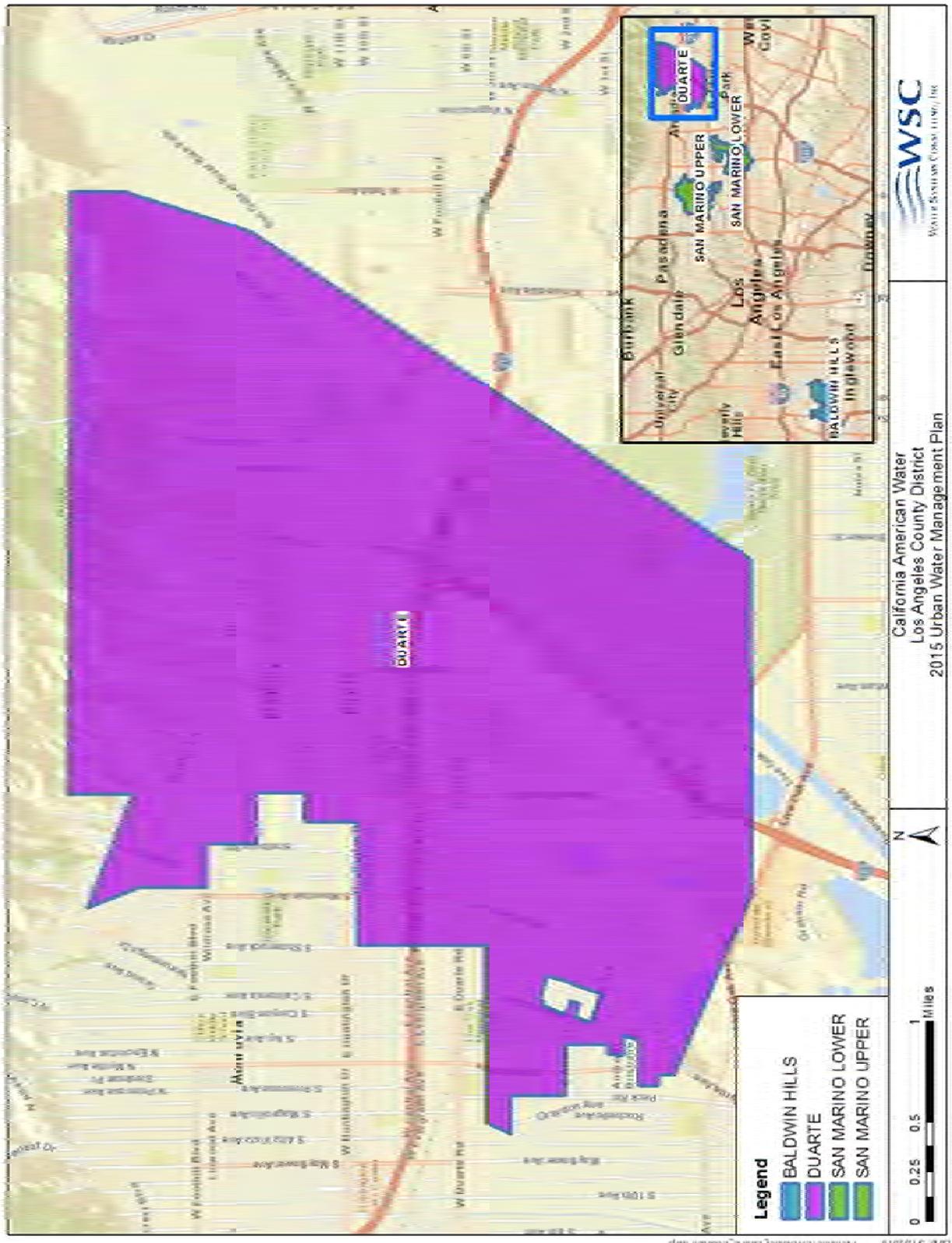


Figure 4-2. CAW Duarte Water Service Area (1)

4.1 CLIMATE

The Los Angeles County District has a Mediterranean climate as evidenced by its dry, warm to hot summers, and mild, somewhat rainy winters with modest transitions in temperature. The warmest month of the year is typically August and the coldest month is typically January. The average temperature is a mild 63.9 degrees Fahrenheit. On average, the weather station used to record climate data receives 20.2 inches of rainfall per year. Table 4-1 and Table 4-2 present monthly climate data in more detail.

Table 4-1. Precipitation and Evapotranspiration in the Los Angeles County District (January through June)

	January	February	March	April	May	June
Standard Average ETo, in¹	2.23	2.41	3.67	4.28	5.02	5.62
Average Rainfall, in²	4.39	4.54	3.39	1.39	0.43	0.13
Average Temperature, °F²	54.55	55.95	57.9	61.1	64.25	68.7

¹ Data from California Irrigation Management Information System (CIMIS), Station 159 in Monrovia, (period of record is from January 2005 through November 2015) <http://www.cimis.water.ca.gov/cimis/data.jsp> (4)
²Data from Western Regional Climate Center, Station:(046719) Pasadena, California, (1893-December 31, 2015) <http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6719> (5)

Table 4-2. Precipitation and Evapotranspiration in the Los Angeles County District (July through December)

	July	August	Sept.	Oct.	Nov.	Dec.	Annual
Standard Average ETo, in¹	6.30	6.14	5.86	3.47	2.44	1.82	57.06
Average Rainfall, in²	0.03	0.08	0.36	0.7	1.67	3.14	20.24
Average Temperature, °F²	74.15	74.75	72.8	67	60.5	55.2	63.9

¹ Data from California Irrigation Management Information System (CIMIS), Station 159 in Monrovia, (period of record is from October 1999 through April 2011) <http://www.cimis.water.ca.gov/cimis/data.jsp>
²Data from Western Regional Climate Center, Station:(046719) Pasadena, California, (1893-December 31, 2015) <http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6719> (5)

4.2 SERVICE AREA POPULATION

In the greater Southern California region, the population growth rate from 2010-2015 is an extension of the slow growth pattern observed during the 2000-2010 period. The average annual growth rate for the 2010-2015 period was only 0.7 percent, which was lower than the 0.9 percent growth rate of the 2000-2010 period (6). Similar to the Southern California region, Los Angeles County’s growth has slowed from 2010 to 2015, growing by approximately 0.72 percent per year during this time period according to U.S. Census populations (7).

The historical, current and projected populations for the Duarte water service area are shown in Table 4-3. The population projections were calculated based on 2000 and 2010 census block data as well as calculated growth rates from the Southern California Association of Governments’ (SCAG) population projections by census tract. It is not anticipated that the project will result in additional permanent residents within the Duarte water service area in excess of these projections.

Table 4-3. Historical, Current and Projected Population (1)

	2005	2010	2015	2020	2025	2030	2035
CAW Duarte Water Service Area	29,302	29,643	29,156	29,625	30,208	30,801	31,407

4.2.1 Other Demographic Factors

The Duarte service area is located within the West San Gabriel Valley Planning Area as defined in the Los Angeles County General Plan (Figure 4-3). The projected population growth within the unincorporated portion of the West San Gabriel Valley Planning Area is 33% and the projected employment growth is 10% between 2010 and 2035 (8).

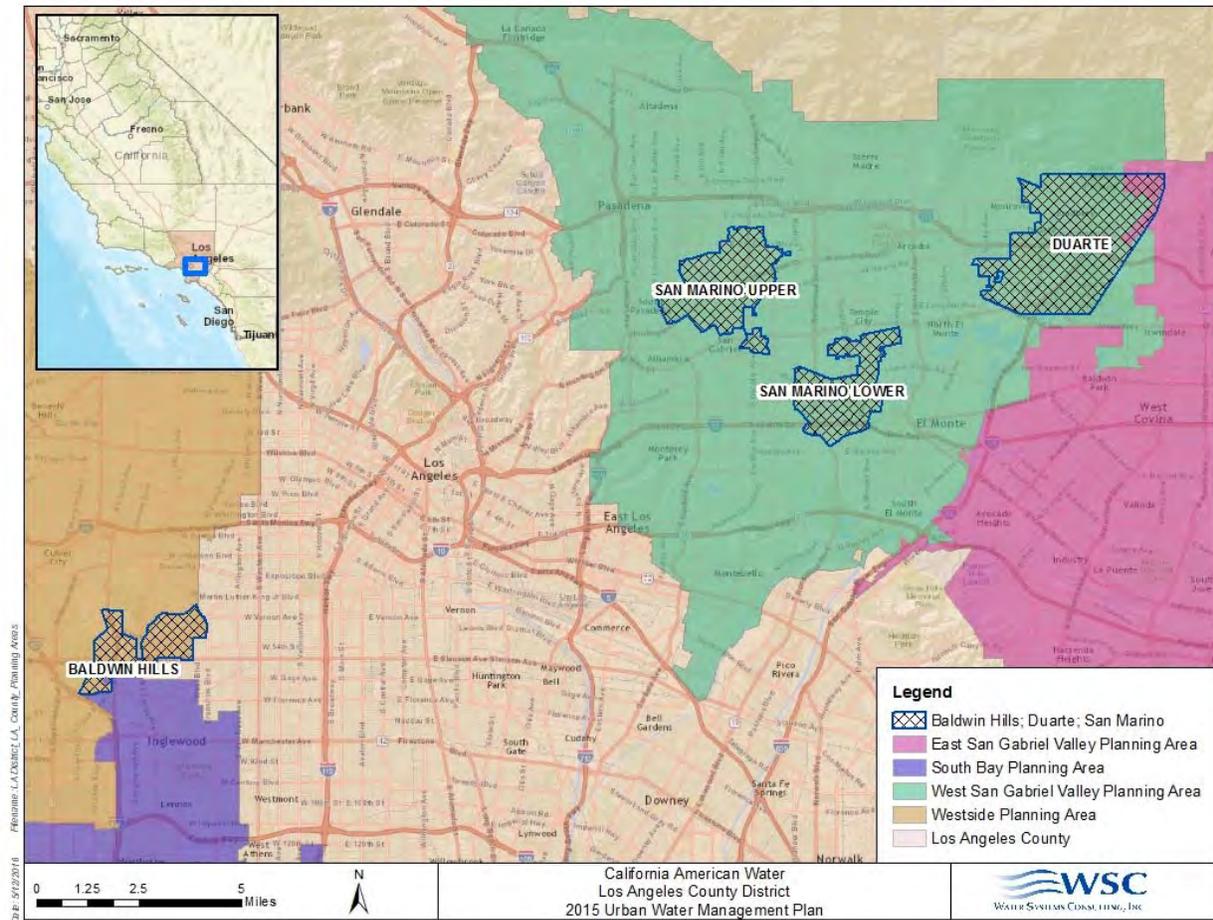


Figure 4-3. Los Angeles County Planning Areas (1)

Most of the communities in the Los Angeles District service areas are approaching buildout and have little or no available vacant land left to develop. Most growth is anticipated to come from redevelopment and higher density development. The L.A. County General Plan Housing Element states:

“There will be a continued decrease in land available for new housing throughout the County, coupled with a continued increase in pressure to preserve open space and agricultural land; and higher density housing is needed to balance the shortages of land for development and the increasing needs for housing and commerce” (9).

To make sure the demographic factors impacting the Duarte water service area are accurately captured, the growth rates utilized for projections calculated for this WSA are based on the most current and detailed data available from the Southern California Association of Governments’ (SCAG) population projections by census tract.

4.3 DUARTE WATER SYSTEM PRODUCTION FACILITIES

CAW currently operates both a domestic and an irrigation water system in the Duarte water service area.

The irrigation system provides non-potable water from a surface water supply to 60 dedicated irrigation connections within the City of Bradbury with a total maximum day demand of approximately 1 million gallons per day (mgd) (10). Due to the age and poor condition of the irrigation system piping, CAW is in the process of retiring the irrigation system and transferring the irrigation connections onto the domestic water system. It is anticipated that the irrigation system will be completely abandoned by 2020 and that the domestic system supply and facilities will be used to meet these irrigation demands.

The Duarte domestic water system is supplied by nine (9) groundwater wells that pump from the Main San Gabriel Basin (MSGB). Most of the wells in the Duarte system are in poor physical condition and have diminished in performance as they are approaching the end of their useful lives (10). Additionally, the well yields decline during prolonged dry periods since the static groundwater levels in the basin decline. A list of the wells in the Duarte system, along with their age and current reliable well yield, is shown in Table 4-4.

CAW's 2013 Comprehensive Planning Study (CPS) anticipated that the Duarte water system would have a production capacity deficit of 5.09 mgd by 2020. This capacity deficit limits CAW's ability to extract the groundwater supply that is available to serve the Duarte system. The CPS recommended a comprehensive well improvement program to restore the production capacity of existing wells. The CPS also recommended that a new well be installed to improve reliability and to meet the increased demands from the irrigation customers. In 2015, CAW installed a new well, the Lemon Well. The anticipated capacity for this well prior to drilling was 1,000 gpm; however, the actual production capacity is only 200 gpm.

As required by the California Waterworks Standards, a water system must be able to meet the maximum day demand (MDD) with the largest source out of service. The current reliable supply capacity of the Duarte System with the largest well out of service is 5,639 gpm, as shown in Table 4-4. The 2015 and projected future ADD and MDD for the Duarte system is shown in Table 4-5. The 2015 MDD anticipated in the 2013 CPS is 9,028 gpm, which is greater than the current reliable supply capacity of 5,639 gpm; therefore, there is an existing supply capacity deficit in the Duarte system of 3,329 gpm, or 4.8 mgd, even with the new Lemon Well. The proposed improvements recommended as part of the ongoing well improvement program are expected to result in an increase in well yield for the remaining wells, and are projected to bring the reliable supply capacity to 8,700 gpm. However, based on the projected MDD values shown in Table 4-5, this would still leave a deficit in supply capacity deficit of 223 gpm in 2025 for the existing customers, not including the additional demands associated with this Project. With the total additional demands from this Project, the deficit would increase to 650 gpm. Note that the Proposed Well Yield values shown in Table 4-4 are estimates, and the actual improvement to well yield cannot be confirmed until the improvements are complete.

Additionally, the Sante Fe well is required to be relocated in the near future because it lies within the Zone of Control of Upper San Gabriel Municipal Water District’s (Upper District) Indirect Reuse Replenishment Project (IRRP), a recycled water recharge project that will help replenish the groundwater supply in the MSGB. Although the well will be replaced with a new well in a different location, the actual production capacity of the new well is uncertain and there is a risk that the capacity of the new well could be lower than that of the existing well, further increasing the supply capacity deficit.

CAW will continue to monitor demands and the results of the ongoing well improvement program to determine whether additional well improvements or new wells are needed to meet existing and projected demands.

Table 4-4. Duarte System Well Yield

Well	Year Installed ¹	Current Reliable Well Yield, gpm ^{1,2}	Proposed Well Yield, gpm ⁴
Bacon	1948	255	400
Fish Canyon	1920	294	500
Wiley	Unknown	1,378	1,400
Encanto	1992	1,093	2,000
Las Lomas No. 2	1992	283	1,200
Buena Vista	1952	1,377	2,200
Crownhaven	1967	1,112	1,600
Sante Fe	1930	1,025	1,400
Lemon	2015	200	200
Total		7,017	10,900
Reliable Supply Capacity ³		5,639	8,700

¹Well ages and yields are from Table 5.2-1 of the 2013 CPS, except for Lemon Well, which was provided by CAW for this WSA
²Reliable well yield is based on reduced capacity available during a dry year due to lower groundwater levels
³Capacity with the largest well out of service
⁴Represents potential well yield during normal operating conditions (not a dry year) and assumes that proposed improvements to existing wells are made to increase capacity. Note that total projected capacity decreases by approximately 2,000 gpm during a drought condition (10)

Table 4-5. Duarte System Maximum Day Demand Projections

	ADD, mgd ¹	MDD, mgd ¹	MDD, gpm
2015	6.58	13.00	9,028
2020	6.54	12.92	8,972
2025	6.50	12.85	8,923

¹From Table 5.1-4 of the CPS. Includes the demand from the irrigation system which will be transferred to the domestic system. Projections do not include additional COH demands from the proposed Project.

4.3.1 Required Production Capacity for Project

The existing supply capacity deficit discussed previously does not account for the additional water demands of the proposed Project, which will increase this capacity deficit. COH is not required to contribute to any improvements related to addressing the current capacity deficit discussed above; however, the cost of addressing the additional deficit created by the demands of the Project will be attributed to the Project and to COH. The production capacity required to serve the projected demands of the Project is equal to the MDD of the Project, which is presented in Table 4-6. As shown, the Project will require a production capacity of 185 gpm (0.27 mgd) by 2020 and 427 gpm (0.61 mgd) at full buildout by 2035. Because the Duarte System obtains 100% of its potable supply from groundwater wells and does not have access to any other potable supplies, it is recommended that a new well be constructed to meet the demands of the Project. Based on typical well capacities in the Duarte system, it is anticipated that the buildout production capacity could be met with one additional well, although the capacity of a well cannot be confirmed until after it is drilled. The well could potentially be located on the COH campus, if such a location is outside the Zone of Control of the IRRP. The required improvements are discussed further in Section 9.1

Table 4-6. Required Additional Production Capacity for the Project

Net Additional Project Water Demand	2015	2020	2025	2030	2035
ADD, gpm¹	0	96	145	181	222
MDD, gpm² (Required Production Capacity)	0	185	278	347	427
¹ Net Additional Project Water Demand from Table 3-2 , expressed in gpm					
² MDD is calculated at 1.92 x ADD based on peaking factor used for the Duarte Water System in CAW's 2013 CPS					

4.3.1.1 Conceptual Alternative Supply Options

As discussed above, it is recommended that the production capacity needed to serve the additional demands of the Project be obtained by drilling a new well. However; two potential conceptual alternatives and their considerations are summarized below.

- 1) Purchasing wholesale potable water from a neighboring water agency.
 - o CAW's Duarte System currently has an emergency interconnection with the City of Monrovia. However, this connection is intended to be used in short-term emergency conditions only and not to be used on a regular basis to meet CAW's customer demands.

- 2) Purchasing potable water from Metropolitan Water District of Southern California (MWD).
- MWD sells wholesale water through its 26 member agencies; Upper District is the member agency who serves the Duarte area. Upper District supplies treated (potable) imported water from MWD to several agencies within its service area through eight turnouts, or service connections, from the MWD system (12). The nearest service connection (USG-7) is located in the City of Monrovia and serves as an emergency connection to the City of Monrovia. The City of Monrovia historically has not utilized imported water supplies to meet demands (12).
 - CAW does not currently have access to imported water from Upper District and would need to enter into a service contract with Upper District in order to obtain new service.
 - CAW does not have a physical connection to the Upper District turnout and may need to construct a pipeline to connect to USG-7, which is approximately 4 miles away. The estimated capital cost for 4 miles of 8-inch pipeline is approximately \$4 Million.
 - The cost of purchasing treated imported water through MWD is higher than the cost of CAW’s current groundwater supplies. The current approved MWD water rates are shown in Table 4-7. Imported water rates have increased annually and are expected to continue increasing. In addition, MWD can adopt higher drought surcharge rates and reduce supply allocations based on water supply conditions pursuant to their Water Supply Allocation Plan. The increased costs of obtaining imported water service would be spread over CAW’s entire customer base, effectively increasing the cost of water for all customers in the Duarte water service area.
 - The supply reliability of imported water is lower than that of CAW’s current groundwater source.

Table 4-7. Treated Imported Water Rates

Fee Component	2016	2017	2018
Full Service Tier 1 Treated Volumetric Cost (\$/AF)¹	\$942	\$979	\$1,015
Full Service Tier 2 Treated Volumetric Cost (\$/AF)¹	\$1,076	\$1,073	\$1,101
Upper District Surcharge (\$/AF)⁴	\$103	\$103	TBD
Readiness-to-Serve Charge (\$M)^{1,2}	\$153	\$135	\$140
Capacity Charge (\$/cfs)^{1,3}	\$10,900	\$8,000	\$8,700
Notes:			
1. From MWD 2016/17 and 2017/18 Biennial Budget			
2. Total annual charge spread spread across all member agencies based on a ten-year rolling average of total demands			
3. Annual charge to each member agency based on a three-year trailing peak flow rate.			
4. From Upper District Budget Fiscal Year 2016/17			

Due to the increased cost and complexity as well and the reduced supply reliability of imported water, CAW does not plan to obtain imported water service at this time. A new well remains CAW’s preferred option for meeting the additional demands of the Project. This is consistent with CAW’s existing supply strategy for the Duarte System and groundwater is CAW’s lowest cost potable supply.

5 DUARTE WATER SERVICE AREA WATER DEMAND ANALYSIS

As defined in Section 1, water demand is the sum of consumption and non-revenue water. For the demand estimates in the 2015 UWMP, historical non-revenue water was estimated by examining production and delivery records for each system from 2010 to 2015. The volume of non-revenue water was calculated as the difference between production and customer deliveries for each service area from 2011 through 2015. The average non-revenue water calculated from 2011-2015 was 14% of production and was used to project non-revenue water volumes for years 2020-2035. The Net Additional Project Water Demand presented in Section 3 is sufficiently conservative and is assumed to include this non-revenue water volume; therefore, no adjustments to the Net Additional Project Water Demand are needed to account for non-revenue water.

Table 5-1 and Figure 5-1 summarize actual and projected demand in the Duarte water service area, including and excluding the Net Additional Project Water Demand. The Net Additional Project Water Demand was included in the 2015 UWMP demands to determine the total service area demand, which is used in subsequent sections of this WSA. As described in detail in Appendix D and Appendix E of the 2015 UWMP, demands were calculated based on gallons per capita per day (GPCD) targets per the requirements of Senate Bill x 7-7 (SB7). The GPCD metric provides a way to gauge water use per person historically in order to project expected future demand patterns based on population projections. CAW expects to meet or be below its required SB7 GPCD targets with or without the Net Additional Project Water Demand, as shown for the Duarte service area in Figure 5-1. However, as discussed in Section 4.3.1, additional source water capacity will be needed to serve this Project due to the current supply capacity deficit.

Table 5-1. Historic and Projected Duarte Demand with the Project, AFY

	2005	2010	2015	2020	2025	2030	2035
Water Consumption	6,145	5,450	4,775	5,884	5,999	6,117	6,237
Net Additional Project Water Demand	0	0	0	155	234	291	359
Non-revenue Water	1,149	690	654	946	965	984	1,003
Total Duarte Demand	7,294	6,139	5,429	6,830	6,964	7,101	7,240

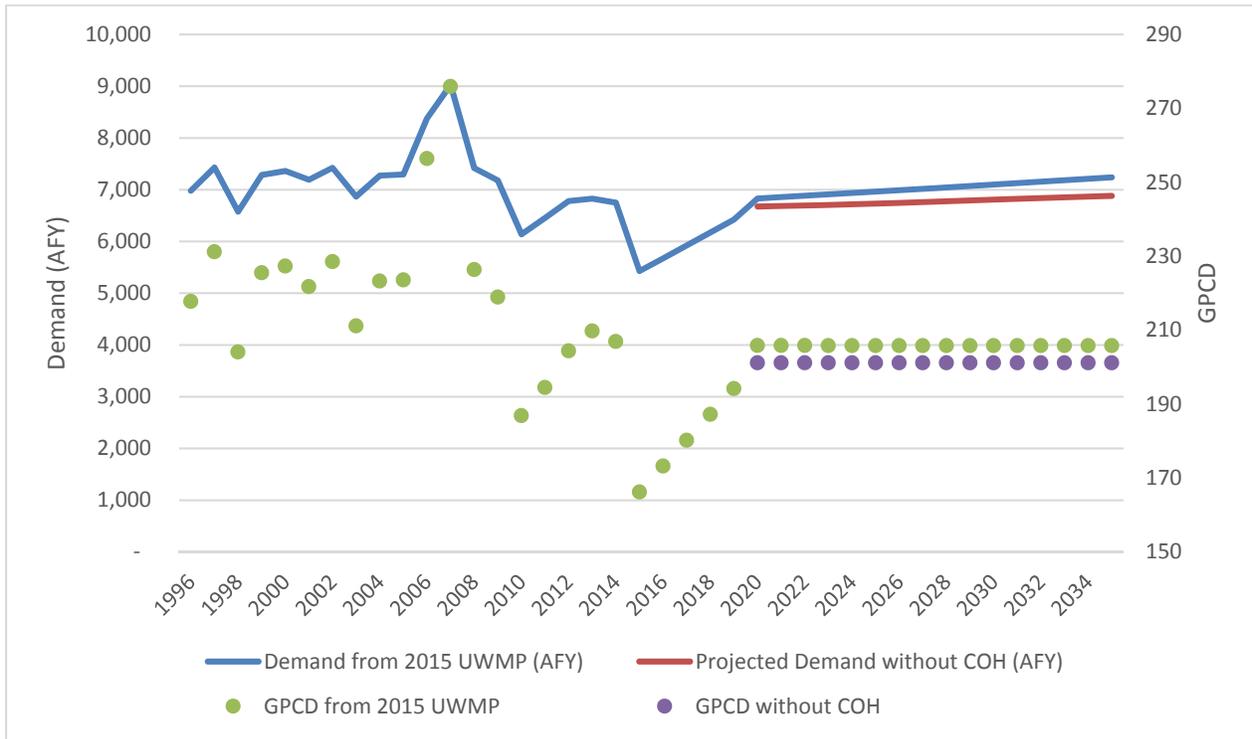


Figure 5-1. Duarte System Historic and Projected Demand and GPCD with and without the Project

6 WATER SUPPLY ANALYSIS

6.1 WATER SOURCES

The current and future water supplies for the Duarte service area consist of groundwater from the Main San Gabriel Basin (MSGB), surface water, and wholesale purchases. Groundwater is the primary source of supply. The amount of demand that is not met by groundwater allocations is met by surface water used to recharge the MSGB, and by purchasing replacement water (also known as supplemental water) for indirect offset of over pumping groundwater in MSGB. The following sections describe each water source in more detail

6.1.1 Groundwater

Groundwater is the primary source of supply for the Duarte service area. Projected groundwater supplies are determined by CAW's stipulated allocation as defined in the Judgment of the MSGB as well as CAW's ability to pump beyond their allocation in the MSGB.

6.1.1.1 Main San Gabriel Basin

The Duarte service area overlies the MSGB. The MSGB is an unconfined aquifer which provides up to 90 billion gallons of groundwater annually to San Gabriel Valley's 1.4 million residents. The total surface area of the MSGB is 167 square miles and contains about 2.8 trillion gallons of groundwater (11). The San Gabriel Mountains border the north with smaller hills including San Jose, Puente, Merced, and Repetto forming the east, south, and southwest borders. Figure 6-1 shows the MSGB boundary.

The MSGB is an adjudicated basin that is subject to an entry of judgment through the Upper San Gabriel Valley Municipal Water District v. City of Alhambra, et al., Los Angeles County Case No. 924128, Judgment entered January 4, 1973 (MSGB Judgment). The MSGB Judgment states that "in each and every calendar year commencing with 1953, the Basin has been and is in Overdraft" (12). CAW's Duarte service area has an adjudicated right to 1.84634% of the annually determined Operating Safe Yield (OSY) for the MSGB as defined by the MSGB Judgment attached in Appendix A.

The amount of water parties of the MSGB Judgment may extract from the MSGB is not restricted, but the MSGB Judgment provides a means for replacing all annual extractions in excess of a Party's annual right with Supplemental Water. If a producer extracts water in excess of its portion of the annual OSY, it must pay a Replacement Water assessment, which will be used by the MSGB Watermaster to purchase Supplemental Water through three Responsible Agencies: Upper District, San Gabriel Valley Municipal Water District, and Three Valleys Municipal Water District. See Section 6.1.3.1 for more information on the replacement water mechanism.

The MSGB Watermaster’s *Five-Year Water Quality and Supply Plan 2015-2016 to 2019-2020* (13) serves as the groundwater management plan for the MSGB and is attached in Appendix . For the purposes of supply projection, it is assumed that CAW’s MSGB groundwater allocation will be equal to 1.84634% of the annually adopted OSY, which is set each year based on the hydrologic conditions of the MSGB. As shown in Table 6-1, the OSY for Fiscal Year (FY) 2015/16-2019/20 has been adopted by the MSGB Watermaster and is 150,000 AFY in FY 2015/16 and 130,000 AFY from FY 2016/17 to 2019/20. For the purposes of supply projection, the 10-year average OSY (FY 2010/11 to 2019/20) of 158,000 AFY is used for all subsequent years and as the average year.

Table 6-1. MSGB OSY and CAW Allocations, AFY

Calendar Year ¹	MSGB Operating Safe Yield	CAW Allocation (1.84634%)
CY 2004	170,000	3,139
CY 2005	205,000	3,785
CY 2006	240,000	4,431
CY 2007	225,000	4,154
CY 2008	195,000	3,600
CY 2009	175,000	3,231
CY 2010	170,000	3,139
CY 2011	190,000	3,508
CY 2012	205,000	3,785
CY 2013	190,000	3,508
CY 2014	165,000	3,046
CY 2015	140,000	2,585
CY 2016	130,000	2,400
CY 2017²	130,000	2,400
CY 2018²	130,000	2,400
CY 2019²	130,000	2,400
10-Year Average (FY 10/11-FY 19/20)	162,500	3,028

¹ Based on Fiscal Year (FY) Operating Safe Yields from the *Five-Year Water Quality and Supply Plan 2015-2016 to 2019-2020* (13) Calendar year (CY) values calculated based on half of the previous FY plus half the subsequent FY.
² It is expected that a new resolution will revise the Operating Safe Yield for CY 2017-2019 to 150,000 afy in November 2016.

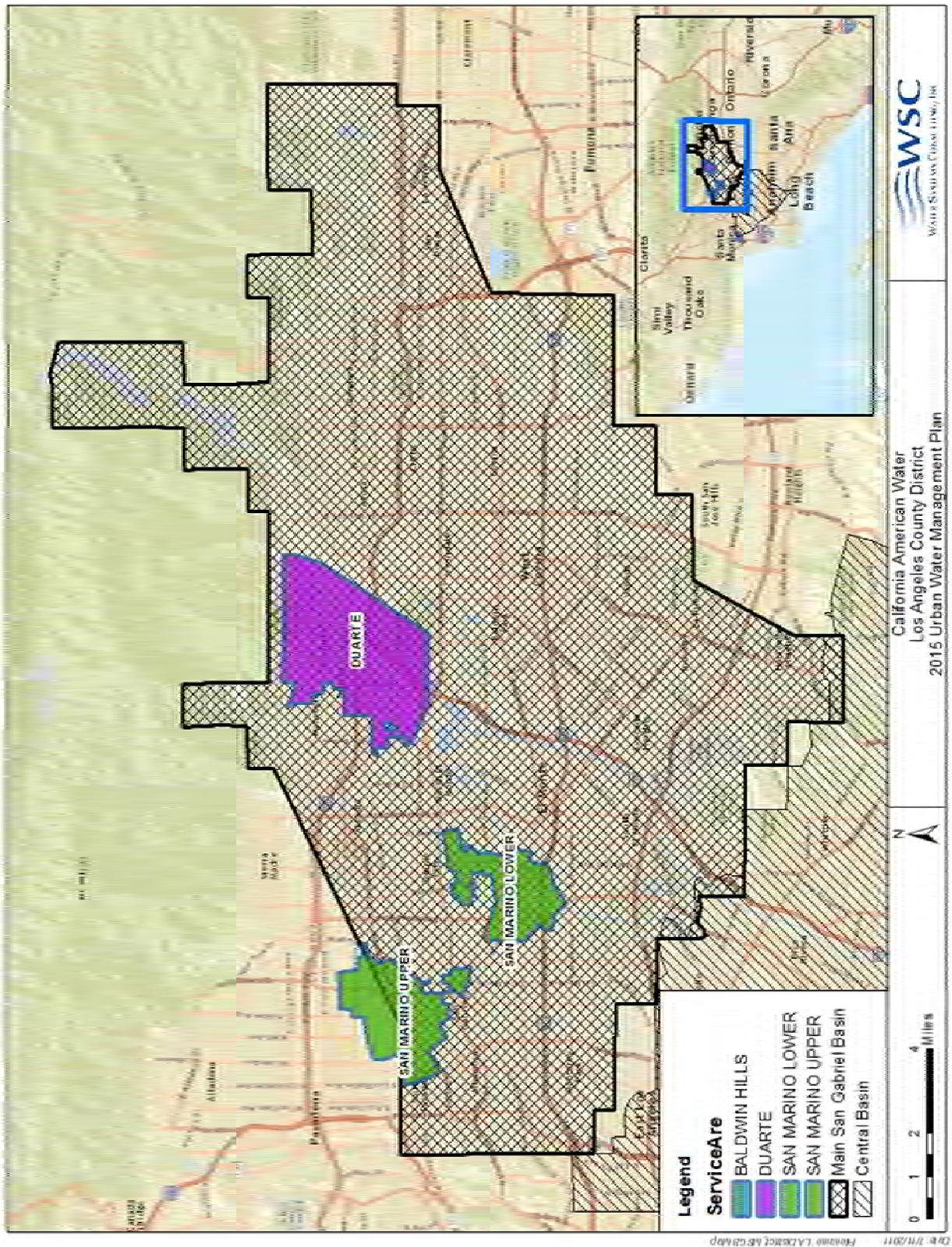


Figure 6-1. Main San Gabriel Basin Boundary (1)

Table 6-2 shows the volume of groundwater that has been pumped from the MSGB since 2011 and Table 6-3 shows the volume of groundwater that is projected to be pumped through 2035.

Table 6-2. Duarte Groundwater- Volume Pumped, AFY

Basin Name	2011	2012	2013	2014	2015
MSGB	6,054	6,475	5,868	6,285	5,002
Groundwater as a percent of total water supply	94%	95%	86%	93%	92%

Table 6-3. Duarte Groundwater-Projected to be Pumped, AFY

Basin Name ¹	2020	2025	2030	2035
MSGB	6,831	6,963	7,101	7,240
Groundwater as a percent of total water supply	100%	100%	100%	100%

¹ For more information on how these values were calculated, see Section 6.1.

6.1.2 Surface Water

In the Duarte service area, CAW is classified as an "Integrated Producer" in the MSGB Judgement that provides for two types of water allocation rights including a diversion component and a pumping component, which was discussed in Section 6.1.1.1. CAW has surface water diversion rights from the San Gabriel River. The surface water diversion right is fixed at an annual allocation of 1,672 AFY. Historically, the surface water has been diverted from the San Gabriel River located in the San Gabriel watershed. Surface water that is released from the San Gabriel Reservoir is delivered through a weir located adjacent to the City of Pasadena power plant and water from Morris Reservoir is diverted directly from the San Gabriel River. Water from both sources is intercepted by CAW's infrastructure and flows by gravity to the Woodlyn Lane and Lemon Irrigation reservoirs to supply Duarte's irrigation system. The remainder is either applied to the Fish Canyon spreading grounds or returned to the San Gabriel River and spread further downstream. The spreading functions recharge the aquifers which supply Duarte's wells. The reservoir and spreading activity is managed by the Los Angeles County Department of Public Works in conjunction with water purveyors with surface water diversion rights.

As described in Section 4.3, the use of surface water for non-potable irrigation is expected to be discontinued by 2020. The fixed surface water diversion right not used for irrigation is transferred to the Los Angeles County spreading basins for groundwater recharge. It is assumed that once the irrigation system is retired, full allocation of 1,672 AFY will be applied to the spreading grounds. The surface water rights are recovered through additional pumping rights within the MSGB.

6.1.3 Wholesale Water

CAW obtains wholesale water from Upper District, which is a member agency of MWD. MWD acquires water from the Colorado River Aqueduct and the California State Water Project (SWP) and distributes treated and untreated water to its member agencies. Untreated water from Upper District is used indirectly for groundwater replacement in the MSGB. The total current and projected supply from Upper District is shown in Table 6-4 and is equal to the difference in projected demand and groundwater plus surface water allocations.

Table 6-4. Current & Projected Wholesale Supplies, AFY

	2015	2020	2025	2030	2035
Upper District Replacement Water¹	1,148	2,242	2,374	2,512	2,651

¹ For more information on how these values were calculated, see Section 6.1.

6.1.3.1 MSGB Watermaster and Upper District

Water producers within the MSGB are subject to the terms of the MSGB Judgment. Per the MSGB Judgment (attached in Appendix), parties are allowed to exceed their portion of the OSY, provided they pay an assessed replacement fee to the MSGB Watermaster. For more information regarding MSGB allocations and replacement water, see Section 6.1.1.1. Most years, the MSGB is over pumped because total demand from the various producers, including CAW, exceeds the available OSY established by the Watermaster. The Watermaster uses the funds generated from the replacement fees to purchase replacement water from Responsible Agencies that have access to supplemental water. The authorized Responsible Agency for CAW is the Upper District. Untreated MWD water is purchased from Upper District as Replacement Water and is delivered to spreading grounds to replenish the aquifer. According to the MSGB Judgment, “If any Responsible Agency shall, for any reason, be unable to deliver Supplemental Water to Watermaster when needed, Watermaster shall collect funds at an appropriate level and hold them in trust... ..for purchase of such water when available” (12). Imported water has historically been available for this purpose. However, in recent years, drought mandated cutbacks from the SWP and the Colorado River Aqueduct have limited the availability of imported water. Water supply reliability is discussed in Section 7. The projected supply for Upper District is shown in Table 6-5.

Table 6-5. Upper District Projected Average Year Supply, AFY

Upper District Sources	2015	2020	2025	2030	2035
Surface Water-Treated¹	9,069	11,436	10,351	9,441	9,288
Surface Water-Untreated²	39,841	42,000	42,000	42,000	42,000
Recycled Water	0	18,984	19,896	20,332	20,731
Supply Totals	51,499	72,420	72,247	71,773	72,019
Demand Totals	51,499	56,821	56,086	55,261	55,228
Difference	0	15,599	16,161	16,512	16,791

Source: Table Adapted from Upper District Final 2015 UWMP, Table 6-8, 6-9 and 7-2 (14)
¹ Upper District Receives treated imported water from MWD
² Upper District receives untreated imported surface water from MWD for groundwater replenishment

6.2 TRANSFER OPPORTUNITIES

CAW leases unused portions of other purveyors’ allocations in the MSGB, when available. Typically, these opportunities are available only when other purveyors experience well contamination or other production interruptions. This supply is not considered a reliable source and is not quantifiable as a projected future supply source.

6.3 FUTURE WATER PROJECTS

Other than the redevelopment of existing infrastructure and the well improvement program described in Section 4.3, there are currently no planned future projects to bring in new supply sources to the Duarte system.

The Upper District, in coordination with MWD, is working to expand its existing recycled water program by developing the Indirect Reuse Replenishment Project (IRRP). The IRRP will replenish the Main San Gabriel Groundwater Basin with up to 10,000 acre feet annually with highly treated recycled water. The projected completion date for this project is 2018. It is anticipated that the IRRP will help Upper District improve supply reliability within the MSGB.

MWD and the Sanitation Districts of Los Angeles County are developing a multi-phased program to explore the potential of a water purification project to beneficially reuse water currently discharged to the Pacific Ocean for recharge of regional groundwater basins. MWD would build a new water purification plant at the Sanitation District’s Joint Water Pollution Control Plant in Carson and distribution pipelines to recharge locations in Los Angeles and Orange Counties. The initial program activities include a 1 MGD demonstration project and feasibility studies. The full scale program could ultimately result in a new purification plant to produce up to 168,000 AFY of purified water for groundwater replenishment. In 2016 and 2017, the participating agencies are expected to review the feasibility studies and consider approval of the first phase of the full-scale project (16). This program would represent the first in-region production of water by MWD and would diversify the region’s water supply sources and likely result in increased supply reliability from MWD for Upper District.

6.4 WATER SUPPLY SUMMARY

Historically, CAW has been able to supply 100% of its demand in the Duarte service area through its groundwater and surface water sources. The 2015 UWMP presented historic water supplies from 2015 and projected water supplies from 2020-2035. The projected supplies presented in this WSA have been revised slightly from those presented in the 2015 UWMP due to a revised MSGB OSY assumption, as shown in Figure 6-2 and described in the previous sections. The 2015 UWMP will be amended to account for this revision and any others required by the California Department of Water Resources (DWR's) pending review for completeness.

CAW has historically exceeded its groundwater allocation in the MSGB and made up for the over production by purchasing replacement water from the Upper San Gabriel Valley Municipal Water District (Upper District). The use of surface water for non-potable irrigation is expected to be discontinued by 2020. The surface water diversion right not used for irrigation is transferred to the Los Angeles County spreading basins for groundwater recharge. It is assumed that once the irrigation system is retired, full allocation of 1,672 AFY will be applied to the spreading grounds. The surface water rights are recovered through additional pumping rights within the MSGB.

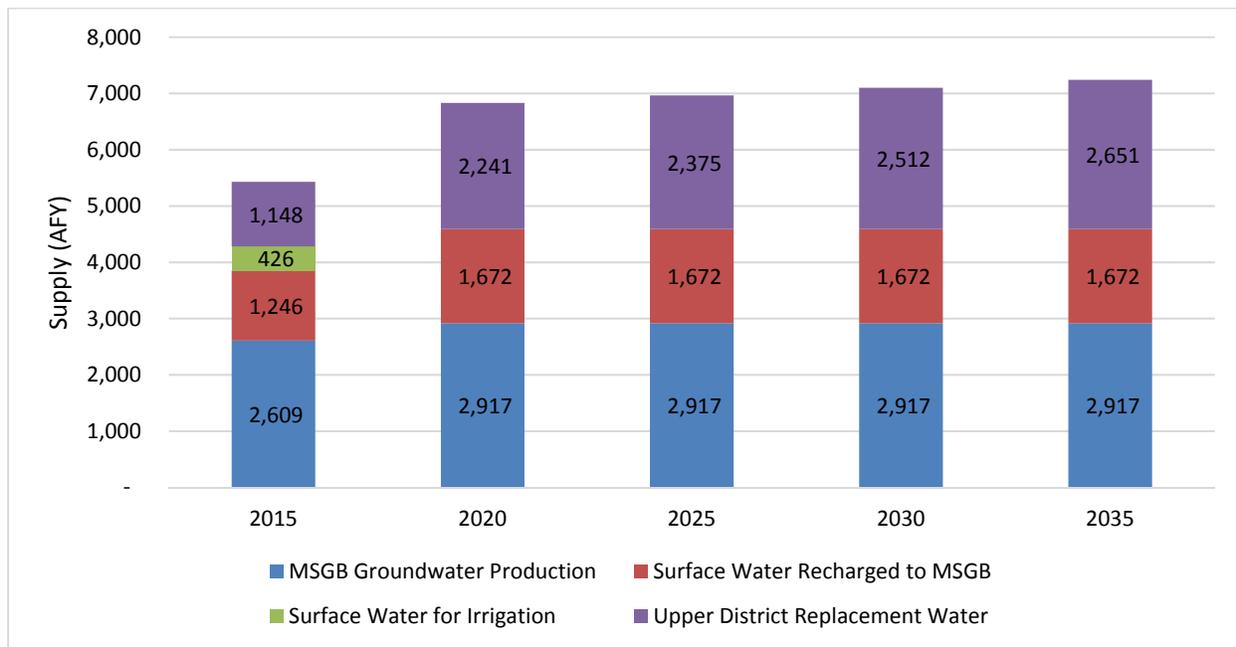


Figure 6-2. Duarte Water Supplies- Actual and Projected in 2015 UWMP, AFY

Based on review of the 2015 UWMP, it was determined that a slight revision to the 2015 UWMP supply projection methodology is appropriate and will be applied for the purposes of this WSA. This WSA assumes that:

- The projected allocation of MSGB groundwater will be equal to 1.84634% of the operating safe yield (OSY). The OSY for Fiscal Year (FY) 2015/16 was adopted by the MSGB Watermaster and is 150,000 AFY and 130,000 AFY from FY 2015/16 to 2019/20 (10). For the purposes of supply projection, the 10-year average OSY from FY 2010/11 to 2019/20 of 158,000 AFY is used for all subsequent years as the average year. See Section 6.1.1.1.
- The projected availability of surface water diversion rights from the San Gabriel River is fixed at an annual allocation of 1,672 AFY. Historically, the surface water has been diverted from the San Gabriel River located in the San Gabriel watershed. See Section 6.1.2.
- The remaining service area demand not met by groundwater allocations or surface water will be met through overpumping MSGB groundwater. As provided for in the MSGB Judgment, Replacement Water or pre-purchased Cyclic Storage water will be purchased from the MSGB Watermaster through Upper District for pumping beyond CAW's allocation. The supply required to serve the Project is included in the total Replacement Water volumes presented in subsequent sections of this WSA. See Section 6.1.3.1.

Total historic and projected water supplies are shown in Table 6-6. Details of how the projected supplies were developed are discussed further in Sections 6.1.1 and 6.1.3.

Table 6-6. Water Supplies- Historic and Projected, AFY

Water Supply Sources	2015 ¹	2020	2025	2030	2035
Duarte					
Groundwater – MSGB²	2,609	2,917	2,917	2,917	2,917
Surface Water Recharged to MSGB²	1,246	1,672	1,672	1,672	1,672
Surface Water for Irrigation³	426	0	0	0	0
Upper District Replacement Water⁴	1,148	2,241	2,375	2,512	2,651
Total	5,429	6,830	6,964	7,101	7,240

¹ The supplies from 2015 are based on actual production and purchases.

² For more information on the MSGB allocation see Section 6.1.1.1.

³ For more information on MSGB Surface Water see Section 6.1.2. The irrigation system provides non-potable water from a surface water supply and CAW is in the process of retiring the irrigation system by 2020. The fixed surface water diversion right not used for future irrigation is transferred to the Los Angeles County spreading basins for groundwater recharge. It is assumed that once the irrigation system is retired, full allocation of 1,672 AFY will be applied to the spreading grounds. The surface water rights are recovered through additional pumping rights within the MSGB.

⁴ The amount of demand in each year not met by the allocations in the MSGB is assumed to be pumped from the MSGB and untreated replacement water will be purchased from MWD through Upper District. For more information, see Section 6.1.3.

7 WATER SUPPLY RELIABILITY

7.1 WATER SUPPLY RELIABILITY

Table 7-1 summarizes the primary factors affecting the supply reliability of the Duarte system. The legal factors affecting supply include groundwater adjudications, discussed in Appendix A, and Replacement Water purchases for excess pumping. Environmental factors related to wholesale supply reliability are reduced deliveries of SWP due to reduced pumping in the Sacramento Delta. The MWD UWMP states that the “listing of several fish species as threatened or endangered under the federal or California Endangered Species Acts (ESAs) have adversely impacted operations and limited the flexibility of the SWP” (15). Water quality factors influence groundwater production capacity and efficiency in the MSGB and Raymond Basin. All of the supplies are subject to reduction as a result of climatic factors.

Table 7-1. Factors resulting in Inconsistency of Supply

Water Supply Sources	Legal	Environmental	Water Quality	Climatic
MSGB	X		X	X
MWD	X	X		X

Table 7-2 shows the supply reliability base years used to approximate average, single dry and multiple dry years conditions for all supply sources of the Duarte system.

Table 7-2. Supply Reliability Base Years

Supply Reliability	Average Water Year	Single Dry	Multiple Dry Years
MSGB¹	2010-2018	2016	2016-2018
Upper District²	FY 2005-2006	FY 2013-2014	FY 2011/12-2013/14
¹ Source: Drought conditions from 2013-2015 have reduced the operating safe yield in the MSGB from 2016 through 2019 to the lowest it’s been since 1973-1974. (10)			
² Source: Upper District 2015 UWMP (15)			

Table 7-3 shows supply availability during average, single dry and multiple dry years. The average, single dry and multiple dry years for the MSGB were calculated based on historic and projected OSYs. The values in Table 7-3 are based on historical and projected groundwater production records and allocations. However, groundwater production amounts and wholesale supplies could change in the future depending on OSY reductions and availability of wholesale supplies.

Table 7-3. Duarte Supply Reliability- Average, Single Dry Year & Multiple Dry Years Supply, AFY

Water Supply Sources	Average / Normal Water Year	Single Dry Water Year (2016)	Multiple Dry Water Years		
			Year 1 (2016)	Year 2 (2017)	Year 3 (2018)
MSGB ¹	3,028	2,422	2,422	2,422	2,422
Surface Water Recharged to MSGB ²	1,672	1,672	1,672	1,672	1,672
Surface Water for Irrigation ²	0	0	0	0	0
Upper District Replacement Water ³	1,627	1,580	1,580	1,828	2,078
Total Water Supply	6,327	5,675	5,675	5,923	6,172
% of Normal ⁴	100%	90%	90%	94%	98%

¹ The multiple dry years are based on projected safe yield for 2016, 2017, and 2018. The single dry year is based on the 1.84634% of the 2016 MSGB safe yield and the average year is based on 1.8634% of the FY 2010/11-2019/20 MSGB safe yield (13).

² Available fixed surface water allocation of 1,672 AFY. The irrigation system provides non-potable water from a surface water supply and CAW is in the process of retiring the irrigation system by 2020. The fixed surface water diversion right not used for irrigation is transferred to the Los Angeles County spreading basins for groundwater recharge. It is assumed that once the irrigation system is retired, full allocation of 1,672 AFY will be applied to the spreading grounds. The surface water rights are recovered through additional pumping rights within the MSGB.

³ It is assumed that all demand not met by the allocations in the MSGB will be met by purchasing replacement water from Upper District. Historic volumes of replacement were calculated based on total demands and actual OSYs. Future volumes of replacement water will vary depending upon OSYs and total demands in a given future year.

⁴ Percentage of normal shown is based on actual year comparisons; however, it is assumed that all demand not met by the allocations in the MSGB will be met by purchasing replacement water from Upper District to supply 100% of demands.

Table 7-4 shows the three-year minimum supply available, which reflects the driest three-year historic sequence in the history of CAW’s supply. The three-year minimum supply closely mirrors the multiple dry years established in Table 7-3. The driest three-year period on record for the groundwater sources is 2006-2008; however, since the MSGB is projected to have a lower OSY from 2016-2018 than for any year from 2006-2008, those values are used.

Table 7-4. Three-Year Minimum Supply, AFY

Supply Source	2016	2017	2018
MSGB¹	2,422	2,422	2,422
Surface Water Recharged to MSGB²	1,672	1,672	1,672
Surface Water for Irrigation²	0	0	0
Upper District Replacement Water³	1,580	1,828	2,078
Subtotal	5,675	5,923	6,172
¹ The multiple dry years are based on projected safe yield for 2016, 2017, and 2018. The single dry year is based on the 1.84634% of the 2016 MSGB safe yield and the average year is based on 1.84634% of the FY 2010/11-2019/20 MSGB safe yield (23). ² Available fixed surface water allocation of 1,672 AFY ³ It is assumed that all demand not met by the allocations in the MSGB will be met by purchasing replacement water from Upper District.			

7.1.1 Wholesale Supply Reliability

The Duarte water system relies on wholesale supplies for indirect groundwater replacement. The historic average, single dry, and multiple dry years are shown in Table 7-2 for CAW’s wholesale supply source. The single dry and multiple dry years supply for Upper District are shown in Figure 7-7-1 and Figure 7-7-2. Upper District’s UWMP indicates a surplus supply for the UWMPs’ planning horizon.

	2020	2025	2030	2035	2040 (Opt)
Supply totals	73,121	72,933	72,440	72,683	72,675
Demand totals	63,121	62,933	62,440	62,683	62,675
Difference	10,000	10,000	10,000	10,000	10,000
NOTES:					

Figure 7-7-1. Upper District Single Dry Year Supply (15)

		2020	2025	2030	2035	2040 (Opt)
First year	Supply totals	70,893	74,759	74,339	74,429	74,470
	Demand totals	60,893	64,759	64,339	64,429	64,470
	Difference	10,000	10,000	10,000	10,000	10,000
Second year	Supply totals	70,893	74,759	74,339	74,429	74,470
	Demand totals	60,893	64,759	64,339	64,429	64,470
	Difference	10,000	10,000	10,000	10,000	10,000
Third year	Supply totals	70,893	74,759	74,339	74,429	74,470
	Demand totals	60,893	64,759	64,339	64,429	64,470
	Difference	10,000	10,000	10,000	10,000	10,000
Fourth year <i>(optional)</i>	Supply totals					
	Demand totals					
	Difference	0	0	0	0	0
Fifth year <i>(optional)</i>	Supply totals					
	Demand totals					
	Difference	0	0	0	0	0
Sixth year <i>(optional)</i>	Supply totals					
	Demand totals					
	Difference	0	0	0	0	0
NOTES:						

Figure 7-7-2. Upper District Multiple Dry Years Supply (15)

Additionally, the MSGB Watermaster and Upper District have multiple ongoing initiatives designed to manage and enhance supply reliability to continue to provide sufficient supply even in dry years. Based on the 2015 UWMP and the following supply reliability management plans and actions, it is anticipated that MSGB Replacement Water will be available from Upper District to meet CAW's total projected demands, including the Net Additional Project Demand.

7.1.1.1 *MSGB Watermaster Water Management Actions*

The following ongoing water management actions are identified in the MSGB Annual Report (17).

- Established Financial Incentives to Encourage Pre-Purchase of Supplemental Water.
 - This new program provides a price incentive for those that pre-order and prepay for Supplemental Water. The incentive encourages producers to order water early, allowing Watermaster to better predict the amount of pre-purchase water that will be needed, and have the funds available to immediately purchase supply in a very competitive environment.
- Redrafted Cyclic Storage Agreements with Responsible Agencies to Allow More Flexibility.
 - In collaboration with municipal water districts, Watermaster completed agreements for MWD to earmark 140,000 acre feet of water in cyclic storage. There were numerous other cyclic storage actions this year, all helping the region get through the drought. CAW has the ability to proactively purchase Replacement Water through the Cyclic Storage mechanism identified in the MSGB Judgment.
- Basin Water Management Committee (BWMC) Ad Hoc Committee for Drought and Emergency Preparedness.
 - The main goal of the Committee is to identify which agencies will be most impacted by the low water levels and to develop plans to provide supply to those agencies, as well as the information they need to prepare proactively for the worsening drought. Actions included: updating the list of emergency water supply interconnections and identifying potential needs; coordinating emergency supplemental water supply deliveries to impacted areas in San Gabriel Canyon; seeking alternative sources of supply; and conducting groundwater elevation modeling and forecasting to improve planning.
- Water Resource Development Assessment (RDA) Implemented to Store 100,000 Acre-Feet of Water.
 - On May 14, 2014, the MSGB Watermaster Board adopted Resolution No. 05-14-263 establishing the Water Resource Development Assessment for implementation on all FY 2014-15 production. This program began levying a \$20 per acre-foot assessment on all production beginning in 2014-15, with planned incremental increases up to \$25 per acre-foot over the next five years. The funds will be available to purchase supplemental water to store for future shortages, reaching a planned 100,000 acre-feet of imported water in storage over 10 years.

- Implemented New In-Lieu Program.
 - This program paid a water producer the difference in cost to purchase treated surface water in-lieu of purchasing untreated imported water for Basin replenishment after over pumping. The result was to keep about 5,000 acre-feet of water in groundwater storage. The program will increase the In-Lieu Assessment depending on how low groundwater levels fall, while increasing the amount in storage to as much as 40,000 acre-feet.
- Collaborated to Purchase Water Early Before Drought Reductions.
 - With imported water supplies through Metropolitan Water District cut by 15% due to the drought, Watermaster utilized reserve funds to order 20,000 acre-feet of water before the allocation took effect.
- Cooperative Effort Resulted in 25,000 Acre-Foot Special Delivery of Imported Water.
 - A cooperative effort between Watermaster, Central Basin Municipal Water District (CBMWD), Water Replenishment District, and Upper District; resulted in obtaining 25,000 acre-feet of water from the State Water Project in a one-time only agreement.
- Three Year Purchase Water Plan Implemented.
 - The Three-Year Purchased Water Plan improves proactive water supply development and prepares for future droughts and shortfalls in imported water. This program looks ahead three years, utilizing a number of criteria to estimate the amount of supplemental water that will be needed—making it easier to seek out and purchase that water in advance when it becomes available.
- Continued Coordination on Flood Control.
 - Watermaster has been actively engaged in monthly meetings with LA County Department of Public Works, Upper District, and area municipalities to plan stormwater related activities. Six new stormwater capture projects have been identified with a potential of 15,000 acre-feet of new water. To-date, four of the six projects are in various phases of implementation.
- Supported SB 485 to Protect Rights to San Gabriel River Water.
 - Staff developed language to protect rights to the San Gabriel River for inclusion in SB 485 (Hernandez). The legislation, proposed by the Sanitation Districts of Los Angeles County, is intended to allow the Sanitation Districts to assist local jurisdictions in Los Angeles County in stormwater and dry weather runoff management projects.

7.1.1.2 Upper District Water Management Actions

The following ongoing water management actions are identified in the Upper District 2015 UWMP (15).

- Upper District's Water Use Efficiency Plan (WUE Plan)
 - The WUE Plan identifies key WUE programs to save up to 5,108 AFY by 2020 (18). The WUE Plan was prepared in coordination with the Integrated Resources Plan. These plans provide adaptive strategies for Upper District to meet water demand, reliability, and efficiency goals.

- Integrated Resources Plan (IRP)
 - Upper District's IRP incorporates and enhances demand and supply reliability analyses from the 2010 UWMP and WUE Plan. The IRP projects demand based on the most recent land use and demographic data from SCAG. Upper District determined the most beneficial strategy for reducing demands on imported water is through an adaptive management strategy that involves the implementation of a suite of projects including direct and indirect recycled water reuse, stormwater capture, water transfers, and conservation measures that can be phased over time. Upper District evaluated these options based on yield, cost, reliability, and impact to the environment in order to develop strategies to meet projected water demands.
- Recycled Water Programs
 - Upper District's direct use recycled water program has been developed as part of Upper District's continuing effort to augment MWD's imported water supply. As discussed in Section 6.5.4.1 of Upper District's 2015 UWMP, Upper District's direct use recycled water program is currently being expanded to include the South El Monte Recycled Water Expansion Project and the La Puente Valley County Water District Recycled Water Project. This project will reduce local demands on groundwater produced from the MSGB.
 - Upper District is also developing the Indirect Reuse Replenishment Project (IRRP) with the goal of replenishing the MSGB while offsetting imported water demands. The IRRP will provide up to 10,000 AFY of treated recycled water from the SJCWRP for groundwater replenishment at the Santa Fe Spreading Grounds to be used for indirect potable use. These recycled water supplies used for groundwater replenishment will augment imported water supplies currently used for groundwater replenishment in the MSGB.

The Upper District has reviewed this WSA and provided a letter dated October 24, 2016 which provides confirmation of the MSGB Replacement Water supply analysis presented in this WSA. A copy of this letter is attached in Appendix C.

Upper District is a member of MWD. MWD's 2015 UWMP, under the historic hydrology conditions, projects 100% reliability for its customers. During the historic dry year periods identified for each wholesale source, the Duarte water system's wholesale demands have always been met. Additionally, numerous water supply reliability management initiatives are underway to enhance and preserve local water supplies.

8 WATER SUPPLY AND DEMAND ANALYSIS

Based on analysis of Net Additional Project Demand in addition to 2015 UWMP projected demands for existing customers (Table 5-1) and available supplies (Table 6-6), the projected availability of groundwater will be equal to 100% of average year allocations for the MSGB plus the amount required to replace water pumped in excess of CAW’s MSGB allocation. In dry years when MSGB allocations are reduced due to OSY reductions, additional Replacement Water would be purchased to meet the total supply needs.

Note that there is an additional cost for MSGB Replacement Water so any new customer adds to the existing overproduction and further increases the cost of the overall water supply. Currently, these increased costs are spread over the entire customer base and are not charged to the new customers.

Table 8-1 shows a supply and demand comparison during an average year scenario. Table 8-2 shows a supply and demand comparison during a single dry year scenario. Table 8-3 shows a supply and demand comparison during a multiple dry year scenario.

Table 8-1. Duarte Supply and Demand Comparison- Average Year, AFY

	2020	2025	2030	2035
Supply totals	6,830	6,964	7,101	7,240
Demand totals	6,830	6,964	7,101	7,240
Difference	0	0	0	0
Difference as % of Supply	0%	0%	0%	0%
Difference as % of Demand	0%	0%	0%	0%

Table 8-2. Duarte Supply and Demand Comparison- Single Dry Year, AFY

	2020	2025	2030	2035
Supply totals	6,830	6,964	7,101	7,240
Demand totals	6,830	6,964	7,101	7,240
Difference	0	0	0	0
Difference as % of Supply	0%	0%	0%	0%
Difference as % of Demand	0%	0%	0%	0%

Table 8-3. Duarte Supply and Demand Comparison- Multiple Dry-Years, AFY

		2020	2025	2030	2035
Multiple-dry year first year supply	Supply totals	6,830	6,964	7,101	7,240
	Demand totals	6,830	6,964	7,101	7,240
	Difference	0	0	0	0
	Difference as % of Supply	0%	0%	0%	0%
	Difference as % of Demand	0%	0%	0%	0%
Multiple-dry year second year supply	Supply totals	6,830	6,964	7,101	7,240
	Demand totals	6,830	6,964	7,101	7,240
	Difference	0	0	0	0
	Difference as % of Supply	0%	0%	0%	0%
	Difference as % of Demand	0%	0%	0%	0%
Multiple-dry year third year supply	Supply totals	6,830	6,964	7,101	7,240
	Demand totals	6,830	6,964	7,101	7,240
	Difference	0	0	0	0
	Difference as % of Supply	0%	0%	0%	0%
	Difference as % of Demand	0%	0%	0%	0%

9 DETERMINATION OF WATER SUPPLY SUFFICIENCY

This WSA concludes that CAW's total projected water supplies available during average, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand for the Project, in addition to CAW's existing and planned future uses, provided that CAW's groundwater production capacity in MSGB is increased to provide the ability to access these supplies.

In the event that new infrastructure is required to convey or deliver a sufficient water supply to a Project, SB 610 requires that the WSA provide information relating to capital costs, financing and permitting of the necessary infrastructure. This information is presented in the following sections.

9.1 WATER SUPPLY RELATED SYSTEM IMPROVEMENTS

As discussed in Section 4.3, there is an existing well capacity deficit in the Duarte system so additional capacity will need to be added to serve the additional demands of the Project. In order to produce the additional supply for the Project and convey it to the Project, the following facility improvements are anticipated:

- Drilling and equipping of one (1) new well to produce additional water supply from the MSGB. The size is anticipated to be at least 430 gpm to meet the projected buildout MDD of the Project.
- Property for the new well. This could be located on the COH campus or at another location for which property would need to be acquired.
- Water main extension. Depending on the location of the new well, a water main extension from the new well to existing CAW distribution system may be needed.

In accordance with CAW's Rule No. 15, which describes CAW's effective rules regarding service as approved by the California Public Utilities Commission (attached in Appendix D), COH would need to enter into a main extension agreement with CAW. The mainline extension agreement would identify water system improvements required to serve the proposed customers and the estimated construction costs. COH would be required to advance the full construction cost at the time of the main extension agreement and CAW would manage the bidding, construction and inspection of the facilities. In lieu of providing the advance, COH could arrange for the installation of the facilities themselves and pay the costs directly, including the cost of inspection and supervision by CAW. For the water main extension only, the amount advanced for the construction of the improvements would be subject to refund by CAW to COH over a period of 40 years, as outlined in Appendix D. The drilling and equipping of the new well and the property for the new well are not eligible for refund because they are special facilities needed only to serve COH.

9.1.1 Well Location

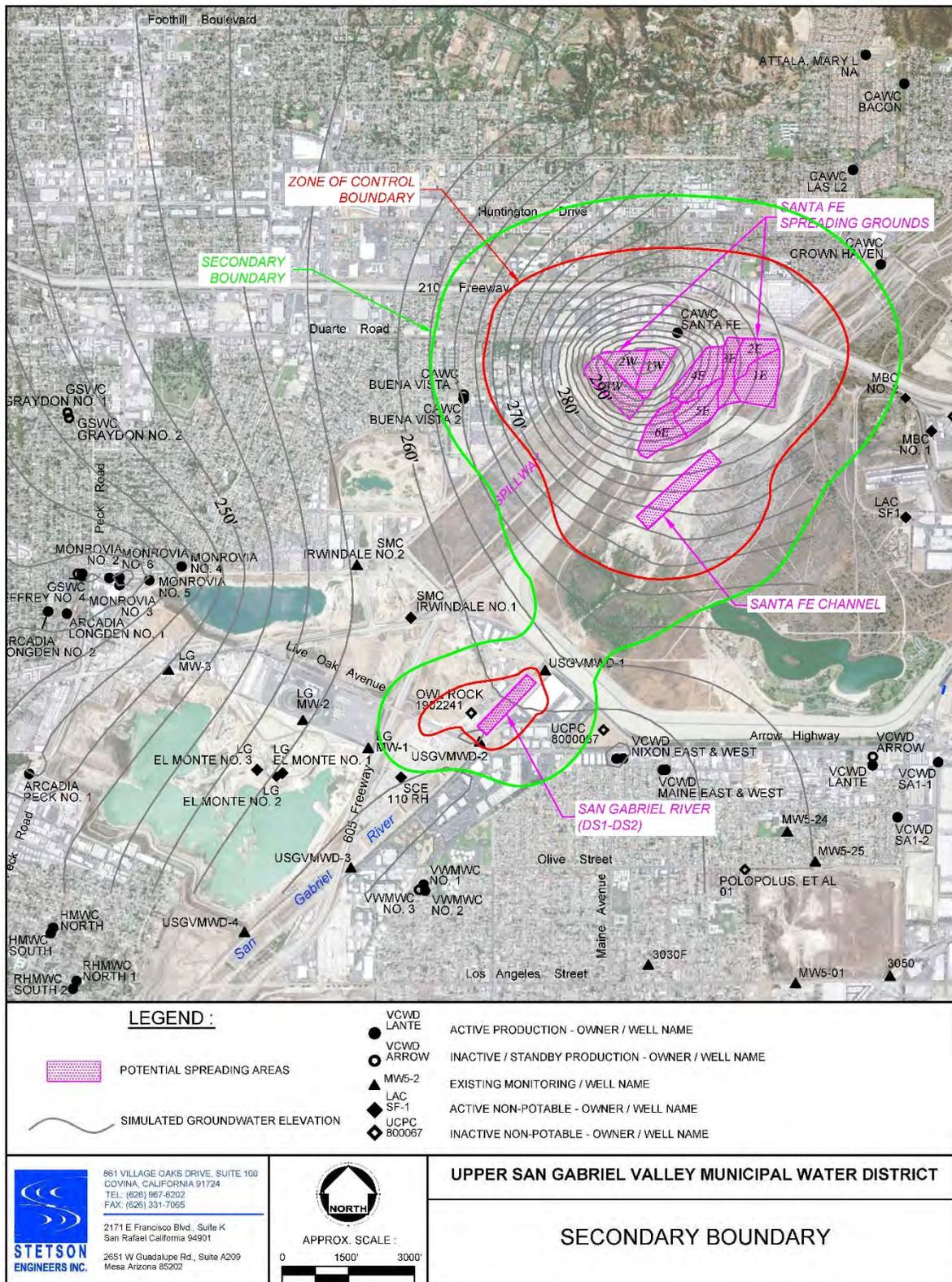
If the COH campus has available space that could be allocated, the new well could potentially be located on the COH campus. However, the COH campus is near Upper District's IRRP Project so some areas are restricted from installing a new well. Figure 9-1 shows a map of the IRRP Zone of Control and Secondary Boundary. As shown, most of the COH campus is within the red Zone of Control of the IRRP, which means a well cannot be drilled there.

Portions at the southwest corner of the COH campus lie within the Secondary Boundary of the IRRP, which means a well may be able to be drilled there, subject to certain limitations. The MSGB Watermaster's groundwater model would need to be used to evaluate the impact of the proposed new well on the project's Zone of Control, which is based on a travel time of one year from the recharge site. If the proposed well causes the travel time for the recycled water recharged to reach the new well, or to reach any other existing well (such as CAW's nearby Buena Vista Well), to be reduced to one year or less, the MSGB Watermaster and the State Water Resources Control Board – Division of Drinking Water (DDW) may not allow the well to be constructed or used for potable water. If the new well does not impact the Zone of Control and is permitted to be drilled and used for potable water, DDW may apply some additional monitoring or treatment requirements because of the nearby RW project; this would require additional analysis and consultation with DDW to confirm.

A small portion at the southwest corner of the COH campus lies outside the Secondary Boundary of the IRRP, which means there may not be restrictions on the well, however, the proposed location would still need to be reviewed and approved by the MSGB Watermaster and DDW.

For the purposes of this WSA, the estimated capital costs for the well will include offsite property acquisition in the event that a suitable space for the new well is not available on the COH campus. If the well is ultimately sited on the COH campus, the cost of property acquisition could be eliminated to reduce the total project cost.

Note that the MWD recharge project discussed in Section 6.3 also proposes to use the nearby Sante Fe spreading grounds for recycled water recharge and may impact the Zone of Control and Secondary Boundary shown in Figure 9-1. This project is still in the demonstration and feasibility study phase so details of these potential impacts are not available as of the writing of this WSA. The proposed well will need to be discussed with the MSGB Watermaster and MWD to determine if there are any additional restrictions anticipated in connection with this project which may affect the well location.



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Figure 9-1. IRRP Zone of Control and Secondary Boundary

9.1.2 Capital Cost Opinions

The capital cost opinions (estimates) included in this WSA are based upon the Class 4 Conceptual Report Classification of Opinion of Probable Construction Cost as developed by the Association for the Advancement of Cost Engineering (AACE) Cost Estimate Classification System. The purpose of a Class 4 Estimate is to provide a conceptual level effort that has an expected accuracy range from -30% to +50% and the inclusion of an appropriate contingency for planning and feasibility studies. The conceptual nature of the design concepts and associated costs presented in this WSA are based upon limited design information available at this stage of the projects. These cost estimates have been developed using a combination of data from RS Means CostWorks®, recent bids, experience with similar projects, current and foreseeable regulatory requirements and an understanding of the necessary project components. As the projects progress, the design and associated costs could vary significantly from the project components identified in this report. Cost opinions are in 2016 dollars (ENR Construction Cost Index of 10,386 for August 2016).

Table 9-1 presents a summary of the Total Estimated Capital Cost for the representative water improvements that are anticipated to be required to produce the additional water supply required to serve the Project. Because there is already a deficiency in the system to serve the current customers, CAW does not have excess capacity to serve the additional COH demands and will require these improvements to be constructed during Phase I of Project buildout to serve the additional demands. It is envisioned that these improvements would be constructed by CAW and funded by COH in accordance with CAW's Rule 15.

Table 9-1. Estimated Capital Costs for Representative Water System Improvements

Facility Description	Estimated Construction Cost ⁴	Total Estimated Capital Cost ⁵
Well Drilling¹	\$ 828,000	\$ 1,076,000
Well Equipping¹	\$ 545,000	\$ 709,000
Well Building & Site Improvements¹	\$ 281,000	\$ 365,000
Water Main Extension²	\$ 154,000	\$ 200,000
Property Acquisition³		\$ 500,000
Total	\$ 1,798,000	\$ 2,838,000

¹ Based on well drilled 700 ft deep, equipped with a 430 gpm pumping unit and housed in a masonry building. The cost assumes that the water produced from the new well will meet all drinking water quality standards and does not include the cost of treatment. If the water produced from the well requires treatment, the cost of a treatment system could be up to an additional \$2,000,000, depending on the contaminants that need to be removed.

² Assumes 1,000 feet of 8-inch diameter water main will be required to connect to the existing CAW distribution. Actual size and length will be determined based on well location and hydraulic analysis of nearby water distribution system. The cost of the Water Main Extension is refundable to COH over a 40-year period.

³ Based on 0.25 acres of property at \$2 Million per acre. Required site size is approximately 100 ft x 100 ft. Property acquisition costs can be reduced or eliminated if the well can be located on the COH campus. See Section 9.1.1 for discussion of well location options and restrictions.

⁴ The following markups are applied to the raw cost estimates to calculate the Estimated Construction Cost: 30% for Contingency & Unaccounted-For Items, 3% for Mobilization, 1% for Contractor Insurance & Bonds, 1% for Stormwater Pollution Prevention Measures

⁵ The following markups are applied to the Estimated Construction Cost to calculate the Total Estimated Capital Cost: 30% for pre-construction professional services such as design, surveying, permitting, legal and admin costs as well as professional services during construction, such as materials testing, construction engineering and inspection.

9.1.3 Phased Implementation

The following provisions related to phased implementation of the Project do not impact the overall analysis or conclusions of this WSA. These provisions were mutually developed by COH and CAW to provide schedule flexibility during specific phases of Project development and are limited to Project elements that can be constructed without increasing the net water use at COH. Should COH wish to commence development of Project components, including new buildings, prior to the construction and operation of any water system improvements that are determined necessary to meet increased demand from the Project, such development may occur if COH demonstrates that such Project components will not create an increase in demand, as follows:

- 1) COH shall provide evidence to CAW demonstrating that the water demands of any building with occupiable square footage to be constructed as part of Project are offset completely by an equivalent reduction in water use at the COH campus through one or more of the following: (a) reduced irrigation use; (b) demolition of existing buildings with occupiable square footage; (c) installation of water-efficiency measures in existing buildings (such as no flush toilets); and/or (d) any other quantifiable water reduction measures. The water demands for such new building shall be based on actual building design as opposed to estimates at the time of the WSA.
- 2) Prior to the issuance of building permits for such building pursuant to (1) above by the City of Duarte or City of Irwindale, whichever jurisdiction has permitting authority pursuant to the provisions of the City of Hope Specific Plan, COH shall request and obtain from CAW a conditional “will serve” letter for that building. The conditional will serve letter will provide that water service will be furnished to the Project in accordance with and after demonstrating satisfaction of the rules and regulations of the California Public Utilities Commission (“CPUC”) and all applicable CAW tariffs on file with the CPUC.
- 3) To demonstrate that an increase in demand is not anticipated and that water service improvements are not needed to provide service to the Project components, COH will present an initial plan demonstrating that COH can make quantifiable modifications to water use at the COH campus to achieve the water reduction levels identified through (1) above by the time the building is scheduled to be completed and occupied. For example, in the case of demonstrating reduced irrigation use, the plan shall provide specific, quantifiable details on how water use will be reduced at the COH campus through (a) turf reduction, including, but not limited to (i) replanting with low-water, native species and replacing spray irrigation systems and (ii) replacement with non-planted materials (mulch, decomposed granite, gravel, etc.); and (b) repair and replacement of galvanized irrigation pipelines to reduce existing leakage in the system.

- 4) Prior to the issuance of a certificate of occupancy for such building pursuant to (1) above by the City of Duarte or City of Irwindale, whichever jurisdiction has permitting authority pursuant to the provisions of the City of Hope Specific Plan, COH shall request and obtain from CAW a final “will serve” letter for that building. CAW will issue the final “will serve” letter provided that COH presents evidence to CAW that all conditions of the conditional “will serve” letter have been satisfied, including compliance with CPUC rules and regulations, and all applicable CAW tariffs on file with the CPUC. Prior to issuance of the final “will serve” letter, COH shall demonstrate that during the construction period of the new building it has achieved the water reduction levels identified through (1), (2) and (3) above, such that water system improvements are not needed to supply the water demand of the building, and that such identified water reduction measures will remain in place until such time as well improvements or an alternative solution has been completed by CAW or, alternatively, COH has complied with Rule 15 with respect to any water system improvements needed to serve increased demand resulting from the building.
- 5) To demonstrate that the proposed water reduction levels have been achieved, the following procedure shall be used:
 - a. The five year average (2011-2015) water use for the COH campus for each calendar month shall serve as the baseline against which to measure COH’s water reduction efforts. Commencing at the time COH has implemented its proposed water reduction measures, COH shall provide monthly water use reports to CAW for the COH campus that compare that month against the five year average water use for that same month. A minimum six month period will be used to determine if COH’s average monthly water use—as compared to the five year average baseline—has been reduced in an amount equal to or more than the water demand of the new building.
 - b. If, however, the monthly reports demonstrate that COH did not fully offset the new building’s water use at the COH campus during the minimum six month period, COH shall (i) present a detailed plan of additional quantifiable water reduction measures at the COH campus to make up for any shortfall and (ii) commit to implementing those measures on an immediate basis.

9.2 PERMITTING

Anticipated regulatory approvals and permits required for construction of the water improvements described previously include, but may not be limited to:

- CEQA compliance
- Well review and permit from the MSGB Watermaster
- State Water Resources Control Board Division of Drinking Water permits and source water assessment
- Development Permit(s) from the agency or agencies having jurisdiction over the project area(s)
- Encroachment Permit(s) from the agency or agencies having jurisdiction over the project area(s)
- County of Los Angeles County Public Health well drilling permit
- Regional Water Quality Control Board permit

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APPENDIX A. MSGB ADJUDICATION

**SUPERIOR COURT OF THE STATE OF CALIFORNIA
FOR THE COUNTY OF LOS ANGELES**

**Upper San Gabriel Valley
Municipal Water District,
Plaintiff,
vs.
City of Alhambra, et al,
Defendants**

Case No.: 924128

AMENDED JUDGMENT
(And Exhibits Thereto)

Honorable Florence T. Pickard
Assigned Judge Presiding

Original Judgment
Signed and Filed: December 29, 1972
Entered: January 4, 1973
Book 6791, Page 197

JUDGMENT AS AMENDED AUGUST 24, 1989
(Including Amendments through February 24, 1992)

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9 FOR THE COUNTY OF LOS ANGELES

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11 Upper San Gabriel Valley

12 Municipal Water District,

13 Plaintiff,

14 vs.

15 City of Alhambra, et al,

16 Defendants

Case No.: 924128

AMENDED JUDGMENT

(And Exhibits Thereto)

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23 HONORABLE FLORENCE T. PICKARD

24 Assigned Judge Presiding

25 DEPARTMENT 38

26 August 24, 1989

27 (This version includes subsequent Amendments through February 24, 1992

28 and updated Appendices through November 2000.)

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- 4 “B” – Boundaries of Relevant Watershed
- 5 “C” – Table Showing Base Annual Diversion Rights of Certain Diverters
- 6 “D” – Table Showing Prescriptive Pumping Rights and Pumper’s Share of Each
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- 11 “H” – Watermaster Operating Criteria
- 12 “J” – Puente Narrows Agreement
- 13 “K” – Overlying Rights
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- 16 Exercise Overlying Rights and Their Respective Consumptive Use Portions,
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7
8 SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES

9 Upper San Gabriel Valley

10 Municipal Water District,

11 Plaintiff,

12 vs.

13 City of Alhambra, et al,

14 Defendant

Case No.: 924128

15 **AMENDED JUDGMENT**

Hearing: August 24, 1989
Department 38, 9:00 A.M.

16
17 The Petition of the MAIN SAN GABRIEL BASIN WATERMASTER for this
18 AMENDED JUDGMENT herein, came on regularly for hearing in this Court before the
19 **HONORABLE FLORENCE T. PICKARD**, ASSIGNED JUDGE PRESIDING, on August
20 24, 1989; Ralph B. Helm appeared as attorney for Watermaster - Petitioner; and good cause
21 appearing, the following **ORDER** and **AMENDED JUDGMENT** are, hereby, made:

22 **I. INTRODUCTION**

23 1. Pleadings, Parties, and Jurisdiction. The complaint herein was filed on January 2,
24 1968, seeking an adjudication of water rights. By amendment of said complaint and dismissals
25 of certain parties, said adjudication was limited to the Main San Gabriel Basin and its Relevant
26 Watershed. Substantially all defendants and the cross-defendant have appeared herein, certain
27 defaults have been entered, and other defendants dismissed. By the pleadings herein and by
28 Order of this Court, the issues have been made those of a full inter se adjudication of water

1 rights as between each and all of the parties. This Court has jurisdiction of the subject matter of
2 this action and of the parties herein.

3 2. Stipulation for Entry of Judgment. A substantial majority of the parties, by
4 number and by quantity of rights herein Adjudicated, Stipulated for entry of a Judgment in
5 substantially the form of the original Judgment herein.

6 3. Lis Pendens. (New) A Lis Pendens was recorded August 20, 1970, as Document
7 2650, in Official Records of Los Angeles County, California, in Book M 3554, Page 866.

8 4. Findings and Conclusions. (Prior Judgment Section 3) Trial was had before the
9 Court, sitting without a jury, John Shea, Judge Presiding, commencing on October 30, 1972, and
10 Findings of Fact and Conclusions of Law have been entered herein.

11 5. Judgment. (New) Judgment (and Exhibits Thereto), Findings of Fact and
12 Conclusions of Law (and Exhibits Thereto), Order Appointing Watermaster, and Initial
13 Watermaster Order were signed and filed December 29, 1972, and Judgment was entered
14 January 4, 1973, in Book 6791, Page 197.

15 6. Intervention After Judgment. (New) Certain defendants have, pursuant to the
16 Judgment herein and the Court's continuing jurisdiction, intervened and appeared herein after
17 entry of Judgment.

18 7. Amendments of Judgment. (New) The original Judgment herein was previously
19 amended on March 29 1979, by: (1) adding definition (r [1]) thereto, (2) amending definition
20 (bb) therein, (3) adding Exhibit "K" thereto, (4) adding Sections 14.5 and 16.5 thereto, and (5)
21 amending Sections 37(b), 37(c), 37(d), and Section 47 therein; it was again amended on
22 December 21, 1979, by amending Section 38(c) thereof; again amended on February 21, 1980,
23 by amending Section 24 thereof; again amended on September 12, 1980, by amending Sections
24 35(a), 37(a), and 38(a); again amended on December 22, 1987, by adding Section 37(e) thereto;
25 amended again on July 22, 1988 by amending Section 37(e) thereof and Ordering an Amended
26 Judgment herein; again amended on January 29, 1991, by amending Sections 10(j), 40, and by
27 adding Sections 40(a), 40(b), 40(c), 40(d), 40(e) and 40(f); again amended on April 2, 1991, by
28 amending Sections 10(ff), 10(jj), and 34(h); and last amended on February 24, 1992, by

1 amending Section 40(b).

2 8. Transfers. (New) Since the entry of Judgment herein there have been numerous
3 transfers of Adjudicated water rights. To the date hereof, said transfers are reflected in Exhibits
4 “C”, “D”, and “E”.

5 9. Producers and Their Designees. (New) The current status of Producers and their
6 Designees is shown on Exhibit “L”.

7 10. Definitions. (Prior Judgment Section 4) As used in this Judgment, the following
8 terms shall have the meanings herein set forth:

9 (a) Base Annual Diversion Right – The average annual quantity of water which
10 a Diverter is herein found to have the right to Divert for Direct Use.

11 (b) Direct Use – Beneficial use of water other than for spreading or Ground
12 Water recharge.

13 (c) Divert or Diverting – To take waters of any surface stream within the
14 Relevant Watershed.

15 (d) Diverter – Any party who Diverts.

16 (e) Elevation – Feet above mean sea level.

17 (f) Fiscal Year – A period July 1 through June 30, following.

18 (g) Ground Water – Water beneath the surface of the ground and within the zone
19 of saturation.

20 (h) Ground Water Basin – An interconnected permeable geologic formation
21 capable of storing a substantial Ground Water supply.

22 (i) Integrated Producer – Any party that is both a Pumper and a Diverter, and
23 has elected to have its rights adjudicated under the optional formula provided in Section
24 18 of this Judgment.

25 (j) In-Lieu Water Cost – The differential between a particular Producer’s cost of
26 Watermaster directed produced, treated, blended, substituted, or Supplemental Water
27 delivered or substituted to, for, or taken by, such Producer in-lieu of his cost of otherwise
28 normally Producing a like amount of Ground Water from the Basin. (Amended 1/29/91)

1 (k) Key Well – Baldwin Park Key Well, being elsewhere designated as State
2 Well No. 1S/10W-7R2, or Los Angeles County Flood Control District Well No. 3030-F.
3 Said well has a ground surface Elevation of 386.7.

4 (l) Long Beach Case – Los Angeles Superior Court Civil Action No. 722647,
5 entitled, “Long Beach, et al., v. San Gabriel Valley Water Company, et al.”

6 (m) Main San Gabriel Basin or Basin – The Ground Water Basin underlying the
7 area shown as such on Exhibit “A”.

8 (n) Make-Up Obligation – The total cost of meeting the obligation of the Basin
9 to the area at or below Whittier Narrows, pursuant to the Judgment in the Long Beach
10 Case.

11 (o) Minimal Producer – Any party whose Production in any Fiscal Year does
12 not exceed five (5) acre feet.

13 (p) Natural Safe Yield – The quantity of natural water supply which can be
14 extracted annually from the Basin under conditions of long term average annual supply,
15 net of the requirement to meet downstream rights as determined in the Long Beach Case
16 (exclusive of Pumped export), and under cultural conditions as of a particular year.

17 (q) Operating Safe Yield – The quantity of water which the Watermaster
18 determines hereunder may be Pumped from the Basin in a particular Fiscal Year, free of
19 the Replacement Water Assessment under the Physical Solution herein.

20 (r) Overdraft – A condition wherein the total annual Production from the Basin
21 exceeds the Natural Safe Yield thereof.

22 (s) Overlying Rights – (Prior Judgment Section 4(r)[1]) The right to Produce
23 water from the Basin for use on Overlying Lands, which rights are exercisable only on
24 specifically defined Overlying Lands and which cannot be separately conveyed or
25 transferred apart therefrom.

26 (t) Physical Solution – (Prior Judgment Section 4(s)) The Court decreed method
27 of managing the waters of the Basin so as to achieve the maximum utilization of the
28 Basin and its water supply, consistent with the rights herein declared.

1 (u) Prescriptive Pumping Right – (Prior Judgment Section 4(t)) The highest
2 continuous extractions of water by a Pumper from the Basin for beneficial use in any five
3 (5) consecutive years after commencement of Overdraft and prior to filing of this action,
4 as to which there has been no cessation of use by that Pumper during any subsequent
5 period of five (5) consecutive years, prior to the said filing of this action.

6 (v) Produce or Producing – (Prior Judgment Section 4(u)) To Pump or Divert
7 Water.

8 (w) Producer – (Prior Judgment Section 4(v)) A party who Produces water.

9 (x) Production – (Prior Judgment Section 4(w)) The annual quantity of water
10 Produced, stated in acre feet.

11 (y) Pump or Pumping – (Prior Judgment Section 4(x)) To extract Ground Water
12 from the Basin by Pumping or any other method.

13 (z) Pumper – (Prior Judgment Section 4(y)) Any party who Pumps water.

14 (aa) Pumper's Share – (Prior Judgment Section 4(z)) A Pumper's right to a
15 percentage of the entire Natural Safe Yield, Operating Safe Yield and appurtenant
16 Ground Water storage.

17 (bb) Relevant Watershed – (Prior Judgment Section 4(aa)) That portion of the
18 San Gabriel River watershed tributary to Whittier Narrows which is shown as such on
19 Exhibit "A", and the exterior boundaries of which are described in Exhibit "B".

20 (cc) Replacement Water – (Prior Judgment Section 4(bb)) Water purchased by
21 Watermaster to replace: (1) Production in excess of a Pumper's Share of Operating Safe
22 Yield; (2) The consumptive use portion resulting from the exercise of an Overlying
23 Right; and (3) Production in excess of a Diverter's right to Divert for Direct Use.

24 (dd) Responsible Agency – (Prior Judgment Section 4(cc)) The municipal water
25 district which is the normal and appropriate source from whom Watermaster shall
26 purchase Supplemental Water for replacement purposes under the Physical Solution,
27 being one of the following:

28 (1) Upper District – Upper San Gabriel Valley Municipal Water District,

1 a member public agency of the Metropolitan Water District of Southern
2 California (MWD).

3 (2) San Gabriel District – San Gabriel Valley Municipal Water District,
4 which has a direct contract with the State of California for State Project Water.

5 (3) Three Valleys District – Three Valleys Municipal Water District,
6 formerly, “Pomona Valley Municipal Water District”, a member public agency of
7 MWD.

8 (ee) Stored Water – (Prior Judgment Section 4(dd)) Supplemental Water stored in
9 the Basin pursuant to a contract with Watermaster as authorized by Section 34(n).

10 (ff) Supplemental Water – (Prior Judgment Section 4(ee)) Nontributary water
11 imported through a Responsible Agency and reclaimed water. (Amended 4/2/91)

12 (gg) Transporting Parties – (Prior Judgment Section 4(ff)) Any party presently
13 transporting water (i.e., during the 12 months immediately preceding the making of the
14 findings herein) from the Relevant Watershed or Basin to an area outside thereof, and
15 any party presently or hereafter having an interest in lands or having a service area
16 outside the Basin or Relevant Watershed contiguous to lands in which it has an interest
17 or a service area within the Basin or Relevant Watershed. Division by a road, highway,
18 or easement shall not interrupt contiguity. Said term shall also include the City of Sierra
19 Madre, or any party supplying water thereto, so long as the corporate limits of said City
20 are included within one of the Responsible Agencies and if said City, in order to supply
21 water to its corporate area from the Basin, becomes a party to this action bound by this
22 Judgment.

23 (hh) Water Level – (Prior Judgment Section 4(gg)) The measured Elevation of
24 water in the Key Well, corrected for any temporary effects of mounding caused by
25 replenishment or local depressions caused by Pumping.

26 (ii) Year – (Prior Judgment Section 4(hh)) A calendar year, unless the context
27 clearly indicates a contrary meaning.

28 (jj) Reclaimed Water – Water which, as a result of treatment of waste, is suitable

1 for a direct beneficial use or a controlled use that would not otherwise occur. (Amended
2 4/2/91)

3 11. Exhibits. (Prior Judgment Section 5) The following exhibits are attached to this
4 Judgment and incorporated herein by this reference:

5 Exhibit "A" – Map entitled, "San Gabriel River Watershed Tributary to Whittier
6 Narrows", showing the boundaries and relevant geologic and hydrologic features in the
7 portion of the watershed of the San Gabriel River lying upstream from Whittier Narrows.

8 Exhibit "B" – Boundaries of Relevant Watershed.

9 Exhibit "C" – Table Showing Base Annual Diversion Rights of Certain Diverters.

10 Exhibit "D" – Table Showing Prescriptive Pumping Rights and Pumper's Share
11 of Each Pumper.

12 Exhibit "E" – Table Showing Production Rights of Each Integrated Producer.

13 Exhibit "F" – Table Showing Special Category Rights.

14 Exhibit "G" – Table Showing Non-consumptive Users.

15 Exhibit "H" – Watermaster Operating Criteria.

16 Exhibit "J" – Puente Narrows Agreement.

17 Exhibit "K" – Overlying Rights, Nature of Overlying Right, Description of
18 Overlying Lands to which Overlying Rights are Appurtenant, Producers Entitled to
19 Exercise Overlying Rights and their Respective Consumptive Use Portions, and Map of
20 Overlying Lands.

21 Exhibit "L" – (New) List of Producers And Their Designees, as of November
22 2000.

23 Exhibit "M" – (New) Watermaster Members, Officers and Staff, Including
24 Calendar Year 2000.

25 **II. DECREE**

26 **NOW, THEREFORE, IT IS HEREBY DECLARED, ORDERED, ADJUDGED**
27 **AND DECREED:**

28 **A. DECLARATION OF HYDROLOGIC CONDITIONS**

1 capacity of the Basin are owned by Pumpers in undivided Pumpers' Shares as hereinafter
2 individually declared, subject to the control of Watermaster, pursuant to the Physical
3 Solution herein decreed. Nothing herein shall be deemed in derogation of the rights to
4 spread water pursuant to rights set forth in Exhibit "G".

5 16. Surface Rights. (Prior Judgment Section 10) Certain of the aforesaid prior and
6 paramount prescriptive water rights of Diverters to Divert for Direct Use stream flow within the
7 Relevant Watershed are hereby declared and found in terms of Base Annual Diversion Right as
8 set forth in Exhibit "C". Each Diverter shown on Exhibit "C" shall be entitled to Divert for
9 Direct Use up to two hundred percent (200%) of said Base Annual Diversion Right in any one
10 (1) Fiscal Year; provided that the aggregate quantities of water Diverted in any consecutive ten
11 (10) Fiscal Year period shall not exceed ten (10) times such Diverter's Base Annual Diversion
12 Right.

13 17. Ground Water Rights. (Prior Judgment Section 11) The Prescriptive Pumping
14 Right of each Pumper, who is not an Integrated Producer, and his Pumper's Share are declared
15 as set forth in Exhibit "D".

16 18. Optional Integrated Production Rights. (Prior Judgment Section 12) Those
17 parties listed on Exhibit "E" have elected to be treated as Integrated Producers. Integrated
18 Production Rights have two (2) historical components:

19 (1) a fixed component based upon historic Diversions for Direct Use; and

20 (2) a mutually prescriptive Pumper's Share component based upon Pumping
21 during the period 1953 through 1967.

22 Assessment and other Watermaster regulation of the rights of such parties shall relate to
23 and be based upon each such component. So far as future exercise of such rights is concerned,
24 however, the gross quantity of the aggregate right in any Fiscal Year may be exercised, in the
25 sole discretion of such party, by either Diversion or Pumping or any combination or
26 apportionment thereof; provided, that for Assessment purposes the first water Produced in any
27 Fiscal Year (other than "Carry-over", under Section 49 hereof) shall be deemed an exercise of
28 the Diversion Component, and any Production over said quantity shall be deemed Pumped

1 water, regardless of the actual method of Production.

2 19. Special Category Rights. (Prior Judgment Section 13) The parties listed on
3 Exhibit "F" have water rights in the Relevant Watershed which are not ordinary Production
4 rights. The nature of each such right is as described in Exhibit "F".

5 20. Non-consumptive Practices. (Prior Judgment Section 14) Certain Producers
6 have engaged in Water Diversion and spreading practices which have caused such Diversions to
7 have a non-consumptive or beneficial impact upon the aggregate water supply available in the
8 Basin. Said parties, and a statement of the nature of their rights, uses and practices, are set forth
9 in Exhibit "G". The Physical Solution decreed herein, and particularly its provisions for
10 Assessments, shall not apply to such non-consumptive uses. Watermaster may require reports
11 on the operations of said parties.

12 21. Overlying Rights. (Prior Judgment Section 14.5) Producers listed in Exhibit "K"
13 hereto were not parties herein at the time of the original entry of Judgment herein. They have
14 exercised in good faith Overlying Rights to Produce water from the Basin during the periods
15 subsequent to the entry of Judgment herein and have by self-help initiated or maintained
16 appurtenant Overlying Rights. Such rights are exercisable without quantitative limit only on
17 specifically described Overlying Land and cannot be separately conveyed or transferred apart
18 therefrom. As to such rights and their exercise, the owners thereof shall become parties to this
19 action and be subject to Watermaster Replacement Water assessments under Section 45(b)
20 hereof, sufficient to purchase Replenishment Water to offset the net consumptive use of such
21 Production and practices. In addition, the gross amount of such Production for such overlying
22 use shall be subject to Watermaster Administration Assessments under Section 45(a) hereof and
23 the consumptive use portion of such Production for overlying use shall be subject to
24 Watermaster's In-Lieu Water Cost Assessments under Section 45(d) hereof. The Producers
25 presently entitled to exercise Overlying Rights, a description of the Overlying Land to which
26 Overlying Rights are appurtenant, the nature of use and the consumptive use portion thereof are
27 set forth in Exhibit "K" hereto. Watermaster may require reports and make inspections of the
28 operations of said parties for purposes of verifying the uses set forth in said Exhibit "K", and, in

1 the event of a material change, to redetermine the net amount of consumptive use by such parties
2 as changed, in the exercise of such Overlying Rights.

3 Annually, during the first two (2) weeks of June in each calendar year, such Overlying
4 Rights Producers shall submit to Watermaster a verified statement as to the nature of the then
5 current uses of said Overlying Rights on said Overlying Lands for the next ensuing Fiscal Year,
6 whereupon Watermaster shall either affirm the prior determination or redetermine the net
7 amount of the consumptive use portion of the exercise of such Overlying Right by said
8 Overlying Rights Producer.

9 **C. INJUNCTION**

10 22. Injunction Against Unauthorized Production. (Prior Judgment Section 15)
11 Effective July 1, 1973, each and every party, its officers, agents, employees, successors and
12 assigns, to whom rights to waters of the Basin or Relevant Watershed have been declared and
13 decreed herein is **ENJOINED AND RESTRAINED** from Producing water for Direct Use from
14 the Basin or the Relevant Watershed except pursuant to rights and Pumpers' Shares herein
15 decreed or which may hereafter be acquired by transfer pursuant to Section 55, or under the
16 provisions of the Physical Solution in this Judgment and the Court's continuing jurisdiction,
17 provided that no party is enjoined from Producing up to five (5) acre feet per Fiscal Year.

18 23. Injunction re Non-consumptive Uses. (Prior Judgment Section 16) Each party
19 listed in Exhibit "G", its officers, agents, employees, successors and assigns, is **ENJOINED**
20 **AND RESTRAINED** from materially changing said non-consumptive method of use.

21 24. Injunction re Change in Overlying Use Without Notice Thereof to Watermaster.
22 (Prior Judgment Section 16.5) Each party listed in Exhibit "K", its officers, agents, employees,
23 successors and assigns, is **ENJOINED AND RESTRAINED** from materially changing said
24 overlying uses at any time without first notifying Watermaster of the intended change of use, in
25 which event Watermaster shall promptly redetermine the consumptive use portion thereof to be
26 effective after such change.

27 25. Injunction Against Unauthorized Recharge. (Prior Judgment Section 17) Each
28 party, its officers, agents, employees, successors and assigns, is **ENJOINED AND**

1 **RESTRAINED** from spreading, injecting or otherwise recharging water in the Basin except
2 pursuant to: (a) an adjudicated non-consumptive use, or (b) consent and approval of or Cyclic
3 Storage Agreement with Watermaster, or (c) subsequent order of this Court.

4 26. Injunction Against Transportation from Basin or Relevant Watershed. (Prior
5 Judgment Section 18) Except upon further order of Court, all parties, other than Transporting
6 Parties and MWD in its exercise of its Special Category Rights, to the extent authorized therein,
7 are **ENJOINED AND RESTRAINED** from transporting water hereafter Produced from the
8 Relevant Watershed or Basin outside the areas thereof. For purposes of this Section, water
9 supplied through a city water system which lies chiefly within the Basin shall be deemed
10 entirely used within the Basin. Transporting Parties are entitled to continue to transport water to
11 the extent that any Production of water by any such party does not violate the injunctive
12 revisions contained in Section 22 hereof; provided that said water shall be used within the
13 present service areas or corporate or other boundaries and additions thereto so long as such
14 additions are contiguous to the then existing service area or corporate or other boundaries;
15 except that a maximum of ten percent (10%) of use in any Fiscal Year may be outside said then
16 existing service areas or corporate or other boundaries.

17 **D. CONTINUING JURISDICTION**

18 27. Jurisdiction Reserved. (Prior Judgment Section 19) Full jurisdiction, power and
19 authority are retained by and reserved to the Court for purposes of enabling the Court upon
20 application of any party or of the Watermaster, by motion and upon at least thirty (30) days
21 notice thereof, and after hearing thereon, to make such further or supplemental orders or
22 directions as may be necessary or appropriate for interim operation before the Physical Solution
23 is fully operative, or for interpretation, enforcement or carrying out of this Judgment, and to
24 modify, amend or amplify any of the provisions of this Judgment or to add to the provisions
25 thereof consistent with the rights herein decreed. Provided, that nothing in this paragraph shall
26 authorize:

- 27 (1) modification or amendment of the quantities specified in the declared rights
28 of any party;

1 (2) modification or amendment of the manner of exercise of the Base Annual
2 Diversion Right or Integrated Production Right of any party; or

3 (3) the imposition of an injunction prohibiting transportation outside the
4 Relevant Watershed or Basin as against any Transporting Party transporting in
5 accordance with the provisions of this Judgment or against MWD as to its Special
6 Category Rights.

7 **E. WATERMASTER**

8 28. Watermaster to Administer Judgment. (Prior Judgment Section 20) A
9 Watermaster comprised of nine (9) persons, to be nominated as hereinafter provided and
10 appointed by the Court, shall administer and enforce the provisions of this Judgment and any
11 subsequent instructions or orders of the Court thereunder.

12 29. Qualification, Nomination and Appointment. (Prior Judgment Section 21) The
13 nine (9) member Watermaster shall be composed of six (6) Producer representatives and three
14 (3) public representatives qualified, nominated and appointed as follows:

15 (a) Qualification. Any adult citizen of the State of California shall be eligible to
16 serve as Watermaster; provided, however, that no officer, director, employee or agent of
17 Upper District or San Gabriel District shall be qualified as a Producer member of
18 Watermaster.

19 (b) Nomination of Producer Representatives. A meeting of all parties shall be
20 held at the regular meeting of Watermaster in November of each year, at the offices of
21 Watermaster. Nomination of the six (6) Producer representatives shall be by cumulative
22 voting, in person or by proxy, with each Producer entitled to one (1) vote for each one
23 hundred (100) acre feet, or portion thereof, of Base Annual Diversion Right or
24 Prescriptive Pumping Right or Integrated Production Right.

25 (c) Nomination of Public Representatives. On or before the regular meeting of
26 Watermaster in November of each year, the three (3) public representatives shall be
27 nominated by the boards of directors of Upper District (which shall select two [2]) and
28 San Gabriel District (which shall select one [1]). Said nominees shall be members of the

1 board of directors of said public districts.

2 (d) Appointment. All Watermaster nominations shall be promptly certified to
3 the Court, which will in ordinary course confirm the same by an appropriate order
4 appointing said Watermaster; provided, however, that the Court at all times reserves the
5 right and power to refuse to appoint, or to remove, any member of Watermaster.

6 30. Term and Vacancies. (Prior Judgment Section 22) Each member of Watermaster
7 shall serve for a one (1) year term commencing on January 1, following his appointment, or until
8 his successor is appointed. In the event of a vacancy on Watermaster, a successor shall be
9 nominated at a special meeting to be called by Watermaster within ninety (90) days (in the case
10 of a Producer representative) or by action of the appropriate district board of directors (in the
11 case of a public representative).

12 31. Quorum. (Prior Judgment Section 23) Five (5) members of the Watermaster
13 shall constitute a quorum for the transaction of affairs of the Watermaster. Action by the
14 affirmative vote of five (5) members shall constitute action by Watermaster, except that the
15 affirmative vote of six (6) members shall be required:

16 (a) to approve the purchase, spreading or injection of water for Ground Water
17 recharge, or

18 (b) to enter in any Agreement pursuant to Section 34 (n) hereof.

19 32. Compensation. (Prior Judgment Section 24) Each Watermaster member shall
20 receive compensation of One Hundred Dollars (\$100.00) per day for each day's attendance at
21 meetings of Watermaster or for each day's service rendered as a Watermaster member at the
22 request of Watermaster, together with any expenses incurred in the performance of his duties
23 required or authorized by Watermaster. No member of the Watermaster shall be employed by or
24 compensated for professional services rendered by him to Watermaster, other than the
25 compensation herein provided, and any authorized travel or related expense.

26 33. Organization. (Prior Judgment Section 25) At its first meeting in each year,
27 Watermaster shall elect a chairman and a vice chairman from its membership. It shall also select
28 a secretary, a treasurer and such assistant secretaries and assistant treasurers as may be

1 appropriate, any of whom may, but need not be, members of Watermaster.

2 (a) Minutes. Minutes of all Watermaster meetings shall be kept, which shall
3 reflect all actions taken by Watermaster. Draft copies thereof shall be furnished to any
4 party who files a request therefor in writing with Watermaster. Said draft copies of
5 minutes shall constitute notice of any Watermaster action therein reported; failure to
6 request copies thereof shall constitute waiver of notice.

7 (b) Regular Meetings. Watermaster shall hold regular meetings at places and
8 times to be specified in Watermaster's rules and regulations to be adopted by
9 Watermaster. Notice of the scheduled or regular meetings of Watermaster and of any
10 changes in the time or place thereof shall be mailed to all parties who shall have filed a
11 request therefor in writing with Watermaster.

12 (c) Special Meetings. Special meetings of Watermaster may be called at any
13 time by the chairman or vice chairman or by any three (3) members of Watermaster by
14 written notice delivered personally or mailed to each member of Watermaster and to
15 each party requesting notice, at least twenty-four (24) hours before the time of each such
16 meeting in the case of personal delivery, and forty-eight (48) hours prior to such meeting
17 in the case of mail. The calling notice shall specify the time and place of the special
18 meeting and the business to be transacted at such meeting. No other business shall be
19 considered at such meeting.

20 (d) Adjournments. Any meeting of Watermaster may be adjourned to a time
21 and place specified in the order of adjournment. Less than a quorum may so adjourn
22 from time to time. A copy of the order or notice of adjournment shall be conspicuously
23 posted on or near the door of the place where the meeting was held within twenty-four
24 (24) hours after adoption of the order of adjournment.

25 34. Powers and Duties. (Prior Judgment Section 26) Subject to the continuing
26 supervision and control of the Court, Watermaster shall have and may exercise the following
27 express powers, and shall perform the following duties, together with any specific powers,
28 authority and duties granted or imposed elsewhere in this Judgment or hereafter ordered or

1 authorized by the Court in the exercise of its continuing jurisdiction.

2 (a) Rules and Regulations. To make and adopt any and all appropriate rules and
3 regulations for conduct of Watermaster affairs. A copy of said rules and regulations and
4 any amendments thereof shall be mailed to all parties.

5 (b) Acquisition of Facilities. To purchase, lease, acquire and hold all necessary
6 property and equipment; provided, however, that Watermaster shall not acquire any
7 interest in real property in excess of year-to-year tenancy for necessary quarters and
8 facilities.

9 (c) Employment of Experts and Agents. To employ such administrative
10 personnel, engineering, geologic, accounting, legal or other specialized services and
11 consulting assistants as may be deemed appropriate in the carrying out of its powers and
12 to require appropriate bonds from all officers and employees handling Watermaster
13 funds.

14 (d) Measuring Devices, etc. To cause parties, pursuant to uniform rules, to
15 install and maintain in good operating condition, at the cost of each party, such necessary
16 measuring devices or meters as may be appropriate; and to inspect and test any such
17 measuring device as may be necessary.

18 (e) Assessments. To levy and collect all Assessments specified in the Physical
19 Solution.

20 (f) Investment of Funds. To hold and invest any and all funds which
21 Watermaster may possess in investments authorized from time to time for public
22 agencies in the State of California.

23 (g) Borrowing. To borrow in anticipation of receipt of Assessment proceeds an
24 amount not to exceed the annual amount of Assessments levied but uncollected.

25 (h) Purchase of and Recharge with Supplemental Water. To purchase
26 Supplemental Water and to introduce the same into the Basin, including a maximum of
27 30,000 acre-feet per year of Reclaimed Water, for replenishment, Replacement Water,
28 and cyclic storage purposes in the Basin, subject to the affirmative vote of six (6)

1 members of Watermaster, provided, the California Department of Health Services and
2 the Los Angeles Regional Water Quality Control Board have approved such Reclaimed
3 Water for said uses, Watermaster has given prior notice to all parties of its intention to
4 use said Reclaimed Water for such purposes, held noticed hearings thereon, and
5 approves such uses. Reclaimed Water used by Watermaster as Supplemental Water for
6 said purposes shall not be a violation of Sections 3(b) or 3(c) of Exhibit "H" hereto.
7 (Amended 4/2/91)

8 (i) Contracts. To enter into contracts for the performance of any administrative
9 powers herein granted, subject to approval of the Court.

10 (j) Cooperation with Existing Agencies. To act jointly or cooperate with
11 agencies of the United States and the State of California or any political subdivision,
12 municipality or district to the end that the purposes of the Physical Solution may be fully
13 and economically carried out. Specifically, in the event Upper District has facilities
14 available and adequate to accomplish any of the administrative functions of
15 Watermaster, consideration shall be given to performing said functions under contract
16 with Upper District in order to avoid duplication of facilities.

17 (k) Assumption of Make-Up Obligation. Watermaster shall assume the Make-
18 Up Obligation for and on behalf of the Basin.

19 (m) Water Quality. Water quality in the Basin shall be a concern of
20 Watermaster, and all reasonable steps shall be taken to assist and encourage appropriate
21 regulatory agencies to enforce reasonable water quality regulations affecting the Basin,
22 including regulation of solid and liquid waste disposal.

23 (n) Cyclic Storage Agreements. To enter into appropriate contracts, to be
24 approved by the Court, for utilization of Ground Water storage capacity of the Basin for
25 cyclic or regulatory storage of Supplemental Water by parties and non-parties, for
26 subsequent recovery or Watermaster credit by the storing entity, pursuant to uniform
27 rules and conditions, which shall include provision for:

28 (1) Watermaster control of all spreading or injection and extraction

1 scheduling and procedures for such stored water;

2 (2) calculation by Watermaster of any special costs, damages or burdens
3 resulting from such operations;

4 (3) determination by Watermaster of, and accounting for, all losses in
5 stored water, assuming that such stored water floats on top of the Ground Water
6 supplies, and accounting for all losses of water which otherwise would have
7 replenished the Basin, with priorities being established as between two or more
8 such contractors giving preference to parties over non-parties; and

9 (4) payment to Watermaster for the benefit of the parties hereto of all
10 special costs, damages or burdens incurred (without any charge, rent, assessment
11 or expense as to parties hereto by reason of the adjudicated proprietary character
12 of said storage rights, nor credit or offset for benefits resulting from such
13 storage); provided, that no party shall have any direct interest in or control over
14 such contracts or the operation thereof by reason of the adjudicated right of such
15 party, the Watermaster having sole custody and control of all Ground Water
16 storage rights in the Basin pursuant to the Physical Solution herein, and subject to
17 review of the Court.

18 (o) Notice List. Maintain a current list of party designees to receive notice
19 hereunder, in accordance with Section 54 hereof.

20 35. Policy Decisions – Procedure. (Prior Judgment Section 27) It is contemplated
21 that Watermaster will exercise discretion in making policy decisions relating to Basin
22 management under the Physical Solution decreed herein. In order to assure full participation
23 and opportunity to be heard for those affected, no policy decision shall be made by Watermaster
24 until thirty (30) days after the question involved has been raised for discussion at a Watermaster
25 meeting and noted in the draft of minutes thereof.

26 36. Reports. (Prior Judgment Section 28) Watermaster shall annually file with the
27 Court and mail to the parties a report of all Watermaster activities during the preceding year,
28 including an audited statement of all accounts and financial activities of Watermaster, summary

1 reports of Diversions and Pumping, and all other pertinent information. To the extent practical,
2 said report shall be mailed to all parties on or before November 1.

3 37. Review Procedures. (Prior Judgment Section 29) Any action, decision, rule or
4 procedure of Watermaster (other than a decision establishing Operating Safe Yield, see Section
5 43(c)) shall be subject to review by the Court on its own motion or on timely motion for an
6 Order to Show Cause by any party, as follows:

7 (a) Effective Date of Watermaster Action. Any order, decision or action of
8 Watermaster shall be deemed to have occurred on the date that written notice thereof is
9 mailed. Mailing of draft copies of Watermaster minutes to the parties requesting the
10 same shall constitute notice to all such parties.

11 (b) Notice of Motion. Any party may, by a regularly noticed motion, petition
12 the Court for review of said Watermaster's action or decision. Notice of such motion
13 shall be mailed to Watermaster and all parties. Unless so ordered by the Court, such
14 petition shall not operate to stay the effect of such Watermaster action.

15 (c) Time for Motion. Notice of motion to review any Watermaster action or
16 decision shall be served and filed within ninety (90) days after such Watermaster action
17 or decision.

18 (d) De Novo Nature of Proceeding. Upon filing of such motion for hearing, the
19 Court shall notify the parties of a date for taking evidence and argument, and shall
20 review de novo the question at issue on the date designated. The Watermaster decision
21 or action shall have no evidentiary weight in such proceeding.

22 (e) Decision. The decision of the Court in such proceeding shall be an
23 appealable Supplemental Order in this case. When the same is final, it shall be binding
24 upon the Watermaster and the parties.

25 **F. PHYSICAL SOLUTION**

26 38. Purpose and Objective. (Prior Judgment Section 30) Consistent with the
27 California Constitution and the decisions of the Supreme Court, the Court hereby adopts and
28 Orders the parties to comply with this Physical Solution. The purpose and objective of these

1 provisions is to provide a legal and practical means for accomplishing the most economic, long
2 term, conjunctive utilization of surface, Ground Water, Supplemental Water and Ground Water
3 storage capacity to meet the needs and requirements of the water users dependent upon the Basin
4 and Relevant Watershed, while preserving existing equities.

5 39. Need for Flexibility. (Prior Judgment Section 31) In order that Watermaster may
6 be free to utilize both existing and new and developing technological, social and economic
7 concepts for the fullest benefit of all those dependent upon the Basin, it is essential that the
8 Physical Solution hereunder provide for maximum flexibility and adaptability. To that end, the
9 Court has retained continuing jurisdiction to supplement the broad discretion herein granted to
10 the Watermaster.

11 40. Watermaster Control. (Prior Judgment Section 32) In order to develop an
12 adequate and effective program of Basin management, it is essential that Watermaster have
13 broad discretion in the making of Basin management decisions within the ambit hereinafter set
14 forth. The maintenance, improvement, and control of the water quality and quantity of the
15 Basin, withdrawal and replenishment of supplies of the Basin and Relevant Watershed, and the
16 utilization of the water resources thereof, must be subject to procedures established by
17 Watermaster in implementation of the provisions of this Judgment. Both the quantity and
18 quality of said water resource are thereby preserved and its beneficial utilization maximized.
19 (Amended 1/29/91)

20 (a) Watermaster shall develop an adequate and effective program of Basin
21 management. The maintenance, improvement, and control of the water quality and
22 quantity of the Basin, withdrawal and replenishment of supplies of the Basin and
23 Relevant Watershed, and the utilization of the water resources thereof, must be subject to
24 procedures established by Watermaster in implementation of the Physical Solution
25 provisions of this Judgment. All Watermaster programs and procedures shall be adopted
26 only after a duly noticed public hearing pursuant to Section 37 and 40 of the Amended
27 Judgment herein. (Amended 1/29/91)

28 (b) Watermaster shall have the power to control pumping in the Basin by water

1 Producers therein for Basin cleanup and water quality control so that specific well
2 production can be directed as to a lesser amount, to total cessation, as to an increased
3 amount, and even to require pumping in a new location in the Basin. Watermaster's
4 right to regulate pumping activities of Producers shall be subordinate to any conflicting
5 Basin cleanup plan established by the EPA or other public governmental agency with
6 responsibility for ground water management or clean up, whether existing at the time of
7 this Judgment or subsequent hereto. (Amended 2/24/92)

8 (c) Watermaster may act individually or participate with others to carry on
9 technical and other necessary investigations of all kinds and collect data necessary to
10 carry out the herein stated purposes. It may engage in contractual relations with the EPA
11 or other agencies in furtherance of the clean up of the Basin and enter into contracts with
12 agencies of the United States, the State of California, or any political subdivision,
13 municipality, or district thereof, to the extent allowed under the applicable federal or
14 state statutes. Any cooperative agreement between the Watermaster and EPA shall
15 require the approval of the appropriate Agency(s) of the State of California. (Amended
16 1/29/91)

17 (d) For the regulation and control of pumping activity in the Basin, Watermaster
18 shall adopt Rules and Regulations and programs to promote, manage and accomplish
19 clean up of the Basin and its waters, including, but not limited to, measures to confine,
20 move, and remove contaminants and pollutants. Such Rules and Regulations and
21 programs shall be adopted only after a duly Noticed Public Hearing by Watermaster and
22 shall be subject to Court review pursuant to Section 37 of the Amended Judgment herein.
23 (Amended 1/29/91)

24 (e) Watermaster shall determine whether funds from local, regional, state or
25 federal agencies are available for regulating pumping and the various costs associated
26 with, or arising from such activities. If no public funds are available from local,
27 regional, state, or federal agencies, the costs shall be obtained and paid by way of an In-
28 Lieu Assessment by Watermaster pursuant to Section 10(j) of the Amended Judgment

1 herein. Provided such In-Lieu Assessments become necessary, the costs shall be borne
2 by all Basin Producers. (Amended 1/29/91)

3 (f) Watermaster is a Court empowered entity with limited powers, created
4 pursuant to the Court's Physical Solution Jurisdiction under Article X, Section 2 of the
5 California Constitution. None of the powers granted herein to Watermaster shall be
6 construed as designating Watermaster a political subdivision of the State of California or
7 authorizing Watermaster to act as "lead agency" to administer the federal Superfund for
8 clean up of the Basin. (Amended 1/29/91)

9 41. General Pattern of Contemplated Operations. (Prior Judgment Section 33) In
10 general outline (subject to the specific provisions hereafter and to Watermaster Operating
11 Criteria set forth in Exhibit "H"), Watermaster will determine annually the Operating Safe Yield
12 of the Basin and will notify each Pumper of his share thereof, stated in acre feet per Fiscal Year.
13 Thereafter, no party may Produce in any Fiscal Year an amount in excess of the sum of his
14 Diversion Right, if any, plus his Pumper's Share of such Operating Safe Yield, or his Integrated
15 Production Right, or the terms of any Cyclic Storage Agreement, without being subject to
16 Assessment for the purpose of purchasing Replacement Water. In establishing the Operating
17 Safe Yield, Watermaster shall follow all physical, economic, and other relevant parameters
18 provided in the Watermaster Operating Criteria. Watermaster shall have Assessment powers to
19 raise funds essential to implement the management plan in any of the several special
20 circumstances herein described in more detail.

21 42. Basin Operating Criteria. (Prior Judgment Section 34) Until further order of the
22 Court and in accordance with the Watermaster Operating Criteria, Watermaster shall not spread
23 Replacement Water when the water level at the Key Well exceeds Elevation two hundred fifty
24 (250), and Watermaster shall spread Replacement Water, insofar as practicable, to maintain the
25 water level at the Key Well above Elevation two hundred (200).

26 43. Determination of Operating Safe Yield. (Prior Judgment Section 35)
27 Watermaster shall annually determine the Operating Safe Yield applicable to the succeeding
28 Fiscal Year and estimate the same for the next succeeding four (4) Fiscal Years. In making such

1 determination, Watermaster shall be governed in the exercise of its discretion by the
2 Watermaster Operating Criteria. The procedures with reference to said determination shall be as
3 follows:

4 (a) Preliminary Determination. On or before Watermaster's first meeting in
5 April of each year, Watermaster shall make a Preliminary Determination of the
6 Operating Safe Yield of the Basin for each of the succeeding five Fiscal Years. Said
7 determination shall be made in the form of a report containing a summary statement of
8 the considerations, calculations and factors used by Watermaster in arriving at said
9 Operating Safe Yield.

10 (b) Notice and Hearing. A copy of said Preliminary Determination and report
11 shall be mailed to each Pumper and Integrated Producer at least ten (10) days prior to a
12 hearing to be held at Watermaster's regular meeting in May, of each year, at which time
13 objections or suggested corrections or modifications of said determinations shall be
14 considered. Said hearing shall be held pursuant to procedures adopted by Watermaster.

15 (c) Watermaster Determination and Review Thereof. Within thirty (30) days
16 after completion of said hearing, Watermaster shall mail to each Pumper and Integrated
17 Producer a final report and determination of said Operating Safe Yield for each such
18 Fiscal Year, together with a statement of the Producer's entitlement in each such Fiscal
19 Year stated in acre feet. Any affected party, within thirty (30) days of mailing of notice
20 of said Watermaster determination, may, by a regularly noticed motion, petition the
21 Court for an Order to Show Cause for review of said Watermaster finding, and thereupon
22 the Court shall hear such objections and settle such dispute. Unless so ordered by the
23 Court, such petition shall not operate to stay the effect of said report and determination.
24 In the absence of such review proceedings, the Watermaster determination shall be final.

25 44. Reports of Pumping and Diversion. (Prior Judgment Section 36) Each party
26 (other than Minimal Producers) shall file with the Watermaster quarterly, on or before the last
27 day of January, April, July and October, a report on a form to be prescribed by Watermaster
28 showing the total Pumping and Diversion (separately for Direct Use and for non-consumptive

1 use, if any,) of such party during the preceding calendar quarter.

2 45. Assessments – Purpose. (Prior Judgment Section 37) Watermaster shall have the
3 power to levy and collect Assessments from the parties (other than Minimal Producers, non-
4 consumptive users, or Production under Special Category Rights or Cyclic Storage Agreements)
5 based upon Production during the preceding Fiscal Year. Said Assessments may be for one or
6 more of the following purposes:

7 (a) Watermaster Administration Costs. Within thirty (30) days after completion
8 of the hearing on the Preliminary Determination of the Operating Safe Yield of the Basin
9 and Watermaster’s determination thereof, pursuant to Section 43 hereof, Watermaster
10 shall adopt a proposed budget for the succeeding Fiscal Year and shall mail a copy
11 thereof to each party, together with a statement of the level of Administration
12 Assessment levied by Watermaster which will be collected for purposes of raising funds
13 for said budget. Said Assessment shall be uniformly applicable to each acre foot of
14 Production.

15 (b) Replacement Water Costs. Replacement Water Assessments shall be
16 collected from each party on account of such party’s Production in excess of its
17 Diversion Rights, Pumper’s Share or Integrated Production Right, and on account of the
18 consumptive use portion of Overlying Rights, computed at the applicable rate established
19 by Watermaster consistent with the Watermaster Operating Criteria.

20 (c) Make-Up Obligation. An Assessment shall be collected equally on account
21 of each acre foot of Production, which does not bear a Replacement Assessment
22 hereunder, to pay all necessary costs of Administration and satisfaction of the Make-Up
23 Obligation. Such Assessment shall not be applicable to water Production for an
24 Overlying Right.

25 (d) In-Lieu Water Cost. Watermaster may levy an Assessment against all
26 Pumping to pay reimbursement for In-Lieu Water Costs except that such Assessment
27 shall not be applicable to the non-consumptive use portion of an Overlying Right.

28 (e) Basin Water Quality Improvement. For purposes of testing, protecting or

1 improving the water quality in the Basin, Watermaster may, after a noticed hearing
2 thereon, fix terms and conditions under which it may waive all or any part of its
3 Assessments on such ground water Production and if such Production, in addition to his
4 other Production, does not exceed such Producer's Share or entitlement for that Fiscal
5 Year, such stated Production shall be allowed to be carried over for a part of such
6 Producer's next Fiscal Year's Producer's Share or entitlement. In connection therewith,
7 Watermaster may also waive the provisions of Section 25, 26 and 57 hereof, relating to
8 Injunction Against Unauthorized Recharge, Injunction Against Transportation From
9 Basin or Relevant Watershed, and Intervention After Judgment, respectively. Nothing in
10 this Judgment is intended to allow an increase in any Producer's annual entitlement nor
11 to prevent Watermaster, after hearing thereon, from entering into contracts to encourage,
12 assist and accomplish the clean up and improvement of degraded water quality in the
13 Basin by non-parties herein. Such contracts may include the exemption of the
14 Production of such Basin water therefor from Watermaster Assessments and, in
15 connection therewith, the waiver of the provisions of Judgment Sections 25, 26, and 57
16 hereof.

17 46. Assessments – Procedure. (Prior Judgment Section 38) Assessments herein
18 provided for shall be levied and collected as follows:

19 (a) Levy and Notice of Assessment. Within thirty (30) days of Watermaster's
20 annual determination of Operating Safe Yield of the Basin for each Fiscal Year and
21 succeeding four (4) Fiscal Years, Watermaster shall levy applicable Administration
22 Assessments, Replacement Water Assessments, Make-Up Water Assessments and In-
23 Lieu Water Assessments, if any. Watermaster shall give written notice of all applicable
24 Assessments to each party on or before August 15, of each year.

25 (b) Payment. Each Assessment shall be payable, and each party is Ordered to
26 pay the same, on or before September 20, following such Assessment, subject to the
27 rights reserved in Section 37 hereof.

28 (c) Delinquency. Any Assessment which becomes delinquent after January 1,

1 1980, shall bear interest at the annual prime rate plus one percent (1%) in effect on the
2 first business day of August of each year. Said prime interest rate shall be that fixed by
3 the Bank of America NT&SA for its preferred borrowing customers on said date. Said
4 prime interest rate plus one percent (1%) shall be applicable to any said delinquent
5 Assessment from the due date thereof until paid. Provided, however, in no event shall
6 any said delinquent Assessment bear interest at a rate of less than ten percent (10%) per
7 annum. Such delinquent Assessment and interest may be collected in a Show Cause
8 proceeding herein or any other legal proceeding instituted by Watermaster, and in such
9 proceeding the Court may allow Watermaster its reasonable costs of collection, including
10 attorney's fees.

11 47. Availability of Supplemental Water from Responsible Agencies. (Prior
12 Judgment Section 39) If any Responsible Agency shall, for any reason, be unable to deliver
13 Supplemental Water to Watermaster when needed, Watermaster shall collect funds at an
14 appropriate level and hold them in trust, together with interest accrued thereon, for purchase of
15 such water when available.

16 48. Accumulation of Replacement Water Assessment Proceeds. (Prior Judgment
17 Section 40) In order to minimize fluctuation in Assessments and to give Watermaster flexibility
18 in Basin management, Watermaster may make reasonable accumulations of Replacement Water
19 Assessments. Such moneys and any interest accrued thereon shall only be used for the purchase
20 of Replacement Water.

21 49. Carry-over of Unused Rights. (Prior Judgment Section 41) Any Pumper's Share
22 of Operating Safe Yield, and the Production right of any Integrated Producer, which is not
23 Produced in a given Fiscal Year may be carried over and accumulated for one Fiscal Year,
24 pursuant to reasonable rules and procedures for notice and accounting which shall be adopted by
25 Watermaster. The first water Produced in the succeeding Fiscal Year shall be deemed Produced
26 pursuant to such Carry-over Rights.

27 50. Minimal Producers. (Prior Judgment Section 42) In the interest of Justice,
28 Minimal Producers are exempted from the operation of this Physical Solution, so long as such

1 party's annual Production does not exceed five (5) acre feet. Quarterly Production reports by
2 such parties shall not be required, but Watermaster may require, and Minimal Producers shall
3 furnish, specific periodic reports. In addition, Watermaster may conduct such investigation of
4 future operations of any Minimal Producer as may be appropriate.

5 51. Effective Date. (Prior Judgment Section 43) The effective date for commencing
6 accounting and operation under this Physical Solution, other than for Replacement Water
7 Assessments, shall be July 1, 1972. The first Assessment for Replacement Water shall be
8 payable on September 20, 1974, on account of Fiscal Year 1973-74 Production.

9 **G. MISCELLANEOUS PROVISIONS**

10 52. Puente Narrows Flow. (Prior Judgment Section 44) The Puente Basin is
11 tributary to the Main San Gabriel Basin. All Producers within said Puente Basin have been
12 dismissed herein, based upon the Puente Narrows Agreement (Exhibit "J"), whereby Puente
13 Basin Water Agency agreed not to interfere with surface inflow and to assure continuance of
14 historic subsurface contribution of water to Main San Gabriel Basin. The Court declares said
15 Agreement to be reasonable and fair and in full satisfaction of claims by Main San Gabriel Basin
16 for natural water from Puente Basin.

17 53. San Gabriel District – Interim Order. (Prior Judgment Section 45) San Gabriel
18 District has a contract with the State of California for State Project Water, delivered at Devil
19 Canyon in San Bernardino County. San Gabriel District is **HEREBY ORDERED** to proceed
20 with and complete necessary pipeline facilities as soon as practical.

21 Until said pipeline is built and capable of delivering a minimum of twenty-eight
22 thousand eight-hundred (28,800) acre feet of State Project water per year, defendant cities of
23 Alhambra, Azusa, and Monterey Park shall pay to Watermaster each Fiscal Year a Replacement
24 Assessment at a uniform rate sufficient to purchase Replenishment Water when available, which
25 rate shall be declared by San Gabriel District. When water is available through said pipeline,
26 San Gabriel District shall make the same available to Watermaster, on his reasonable demand, at
27 said specified rate per acre foot. Interest accrued on such funds shall be paid to San Gabriel
28 District.

1 54. Service Upon and Delivery to Parties of Various Papers. (Prior Judgment Section
2 46) Service of the Judgment on those parties who have executed the Stipulation for Judgment
3 shall be made by first class mail, postage prepaid, addressed to the Designee and at the address
4 designated for that purpose in the executed and filed counterpart of the Stipulation for Judgment,
5 or in any substitute designation filed with the Court.

6 Each party who has not heretofore made such a designation shall, within thirty (30) days
7 after the Judgment shall have been served upon that party, file with the Court, with proof of
8 service of a copy thereof upon Watermaster, a written designation of the person to whom and the
9 address at which all future notices, determinations, requests, demands, objections, reports and
10 other papers and processes to be served upon that party or delivered to that party are to be so
11 served or delivered.

12 A later substitute designation filed and served in the same manner by any party shall be
13 effective from the date of filing as to the then future notices, determinations, requests, demands,
14 objections, reports and other papers and processes to be served upon or delivered to that party.

15 Delivery to or service upon any party by Watermaster, by any other party, or by the
16 Court, of any item required to be served upon or delivered to a party under or pursuant to the
17 Judgment may be made by deposit thereof (or by copy thereof) in the mail, first class, postage
18 prepaid, addressed to the Designee of the party and at the address shown in the latest designation
19 filed by that party.

20 55. Assignment, Transfer, etc., of Rights. (Prior Judgment Section 47) Any rights
21 Adjudicated herein except Overlying Rights, may be assigned, transferred, licensed or leased by
22 the owners thereof; provided however, that no such assignment shall be complete until the
23 appropriate notice procedures established by Watermaster have been complied with. No water
24 Produced pursuant to rights assigned, transferred, licensed, or leased may be transported outside
25 the Relevant Watershed except by:

26 (1) a Transporting Party, or

27 (2) a successor in interest immediate or mediate to a water system on lands or
28 portion thereof, theretofore served by such a Transporting Party, for use by such

1 successor in accordance with limitations applicable to Transporting Parties, or

2 (3) a successor in interest to the Special Category rights of MWD.

3 The transfer and use of Overlying Rights shall be limited, as provided in Section 21
4 hereof, as exercisable only on the specifically defined Overlying Lands and they cannot be
5 separately conveyed or transferred apart therefrom.

6 56. Abandonment of Rights. (Prior Judgment Section 48) It is in the interest of
7 reasonable beneficial use of the Basin and its water supply that no party be encouraged to take
8 and use more water in any Fiscal Year than is actually required. Failure to Produce all of the
9 water to which a party is entitled hereunder shall not, in and of itself, be deemed or constitute an
10 abandonment of such party's right, in whole or in part. Abandonment and extinction of any
11 right herein Adjudicated shall be accomplished only by:

12 (1) a written election by the party, filed in this case, or

13 (2) upon noticed motion of Watermaster, and after hearing.

14 In either case, such abandonment shall be confirmed by express subsequent order of this
15 Court.

16 57. Intervention After Judgment. (Prior Judgment Section 49) Any person who is
17 not a party or successor to a party and who proposes to Produce water from the Basin or
18 Relevant Watershed, may seek to become a party to this Judgment through a Stipulation For
19 Intervention entered into with Watermaster. Watermaster may execute said Stipulation on
20 behalf of the other parties herein but such Stipulation shall not preclude a party from opposing
21 such Intervention at the time of the Court hearing thereon. Said Stipulation For Intervention
22 must thereupon be filed with the Court, which will consider an order confirming said
23 Intervention following thirty (30) days' notice to the parties. Thereafter, if approved by the
24 Court, such Intervenor shall be a party bound by this Judgment and entitled to the rights and
25 privileges accorded under the Physical Solution herein.

26 58. Judgment Binding on Successors, etc. (Prior Judgment Section 50) Subject to
27 specific provisions hereinbefore contained, this Judgment and all provisions thereof are
28 applicable to and binding upon and inure to the benefit of not only the parties to this action, but

1 as well to their respective heirs, executors, administrators, successors, assigns, lessees, licensees
2 and to the agents, employees and attorneys in fact of any such persons.

3 59. Water Rights Permits. (Prior Judgment Section 51) Nothing herein shall be
4 construed as affecting the relative rights and priorities between MWD and San Gabriel Valley
5 Protective Association under State Water Rights Permits Nos. 7174 and 7175, respectively.

6 60. Costs. (Prior Judgment Section 52) No party shall recover any costs in this
7 proceeding from any other party.

8 61. Entry of Judgment. (New) The Clerk shall enter this Judgment.

9
10 DATED: August 24, 1989.

11
12 s/ Florence T. Pickard
13 Florence T. Pickard, Judge
14 Specially Assigned
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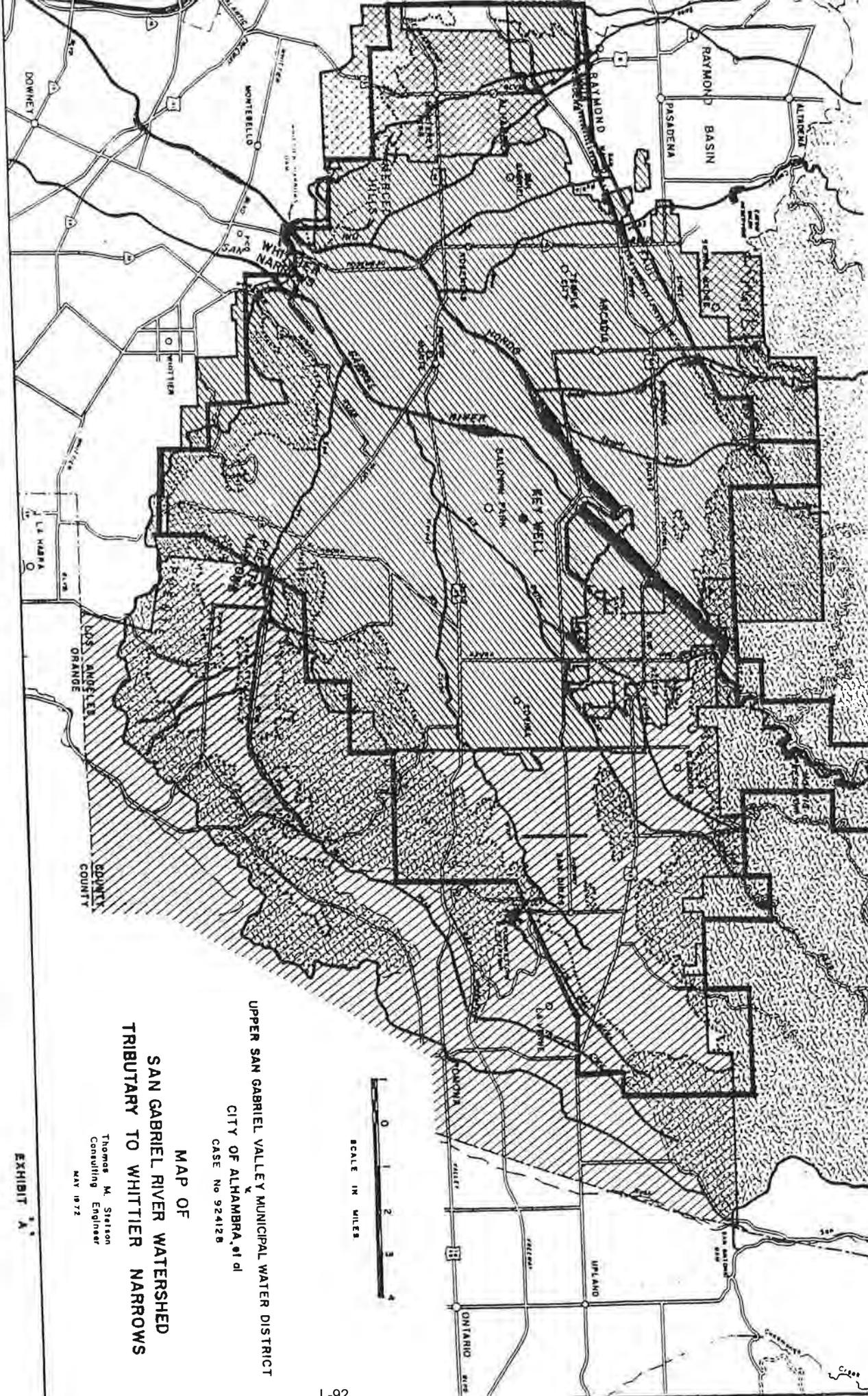


EXHIBIT 'A'

**MAP OF
 SAN GABRIEL RIVER WATERSHED
 TRIBUTARY TO WHITTIER NARROWS**

Thomas M. Stetson
 Consulting Engineer
 MAY 1972

UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
 CITY OF ALHAMBRA, et al
 CASE No 92412B



EXHIBIT "B"

BOUNDARIES OF RELEVANT WATERSHED

The following described property is located in Los Angeles County, State of California:

Beginning at the Southwest corner of Section 14, Township 1 North, Range 11 West, San Bernardino Base and Meridian;

Thence Northerly along the West line of said Section 14 to the Northwest corner of the South half of said Section 14;

Thence Easterly along the North line of the South half of Section 14 to the East line of said Section 14;

Thence Northerly along the East line of said Section 14, Township 1 North, Range 11 West and continuing Northerly along the East line of Section 11 to the Northeast corner of said Section 11;

Thence Easterly along the North line of Section 12 to the Northeast corner of said Section 12;

Thence Southerly along the East line of said Section 12 and continuing Southerly along the East line of Section 13 to the Southeast corner of said Section 13, said corner being also the Southwest corner of Section 18, Township 1 North, Range 10 West;

Thence Easterly along the South line of Sections 18, 17, 16 and 15 of said Township 1 North, Range 10 West to the Southwest corner of Section 14;

Thence Northerly along the West line of Section 14 to the Northwest corner of the South half of Section 14;

Thence Easterly along the North line of the South half of Section 14 to the East line of said section;

Exhibit "B"

B - 1

Thence Northerly along the East line of said Section 14, and continuing Northerly along the West line of Section 12 of said Township 1 North, Range 10 West to the North line of said Section 12;

Thence Easterly along the North line of said Section 12, to the Northeast corner of said Section 12, said corner being also the Southwest corner of Section 6, Township 1 North, Range 9 West;

Thence Northerly along the West line of said Section 6 and continuing Northerly along West line of Sections 31 and 30, Township 2 North, Range 9 West to the Westerly prolongation of the North line of said Section 30;

Thence Easterly along said Westerly prolongation of the North line of said Section 30 and continuing Easterly along the North line of Section 29 to the Northeast corner of said Section 29;

Thence Southerly along the East line of said Section 29 and continuing Southerly along the East line of Section 32, Township 2 North, Range 9 West, and thence continuing Southerly along the East line of Section 5, Township 1 North, Range 9 West to the Southeast corner of said Section 5;

Thence Westerly along the South line of said Section 5 to the Southwest corner of said Section 5, said point being also the Northwest corner of Section 8;

Thence Southerly along the West line of said Section 8 and continuing Southerly along the West line of Section 17, to the Southwest corner of said Section 17, said corner being also the Northwest corner of Section 20;

Thence Easterly along the North line of Sections 20 and 21 to the Northwest corner of Section 22, said corner being also the Southwest corner of Section 15;

Exhibit "B"

B - 2

Thence Northerly along the West line of said Section 15 to the Northwest corner of the South half of said Section 15;

Thence Easterly along the North line of said South half of Section 15 to the Northeast corner of said South half of Section 15;

Thence Southerly along the East line of Section 15 and continuing Southerly along the East line of Section 22 to the Southeast corner of said Section 22, said point being also the Southwest corner of Section 23;

Thence Easterly along the South line of Sections 23 and 24 to the East line of the West half of said Section 24;

Thence Northerly along said East line of the West half of Section 24 to the North line thereof;

Thence Easterly along said North line of Section 24 to the Northeast corner thereof, said point also being the Northwest corner of Section 19, Township 1 North, Range 8 West;

Thence continuing Easterly along the North line of Section 19 and Section 20 of said Township 1 North, Range 8 West to the Northeast corner of said Section 20;

Thence Southerly along the East line of Sections 20, 29 and 32 of said Township 1 North, Range 8 West to the Southeast corner of said Section 32;

Thence Westerly along the South line of Section 32 to the Northwest corner of the East half of Section 5, Township 1 South, Range 8 West;

Thence Southerly along the West line of the East half of said Section 5 to the South line of said Section 5;

Thence West to the East line of the Northerly prolongation of Range 9 West;

Exhibit "B"

B - 3

Thence South $67^{\circ} 30'$ West to an intersection with the Northerly prolongation of the West line of Section 27, Township 1 South, Range 9 West;

Thence Southerly along the Northerly prolongation of said West line of Section 27 and continuing Southerly along the West line of Section 27 to the Southwest corner of said Section 27, said point being also the Southeast corner of Section 28;

Thence Westerly along the South line and Westerly projection of the South line of said Section 28 to the Northerly prolongation of the West line of Range 9 West;

Thence Southerly along said prolongation of the West line of Range 9 West to the Westerly prolongation of the North line of Township 2 South;

Thence Westerly along said Westerly prolongation of the North line of Township 2 South, a distance of 8,500 feet;

Thence South a distance of 4,500 feet;

Thence West a distance of 10,700 feet;

Thence South 29° West to an intersection with the Northerly prolongation of the West line of Section 20, Township 2 South, Range 10 West;

Thence Southerly along said Northerly prolongation of the West line of said Section 20 and continuing Southerly along the West line of Section 20 to the Southwest corner of said Section 20;

Thence South a distance of 2,000 feet;

Thence West a distance of two miles, more or less, to an intersection with the East line of Section 26, Township 2 South, Range 11 West;

Exhibit "B"

B - 4

Thence Northerly along said East line of Section 26 and continuing Northerly along the East line of Section 23, Township 2 South, Range 11 West to the Northeast corner of said Section 23;

Thence Westerly along the North line of said Section 23 to the Northwest corner thereof, said point being also the Southeast corner of Section 15, Township 2 South, Range 11 West;

Thence Northerly and Westerly along the East and North lines, respectively, of said Section 15, Township 2 South, Range 11 West, to the Northwest corner thereof;

Thence continuing Westerly along the Westerly prolongation of said North line of Section 15, Township 2 South, Range 11 West to an intersection with a line parallel to and one mile East of the West line of Range 11 West;

Thence Northerly along said parallel line to an intersection with the Northerly boundary of the City of Pico Rivera as said City of Pico Rivera existed on July 17, 1970;

Thence Westerly along said City boundary to an intersection with the East line of Range 12 West;

Thence Northerly along said East line of Range 12 West to the North line of Township 2 South;

Thence Westerly along the North line of Township 2 South to an intersection with the Southerly prolongation of the East line of the West half of Section 26, Township 1 South, Range 12 West;

Thence Northerly along said Southerly prolongation of said East line of the West half of said Section 26 to the Southeast corner of said West half;

Thence Westerly along the South line of Sections 26, 27 and 28, Township 1 South, Range 12 West, to the Southeast corner of Section 29, Township 1 South, Range 12 West;

Exhibit "B"

B - 5

Thence Northerly along the East line of said Section 29 to the Northeast corner of the South half of said Section 29;

Thence Westerly along the North line of the South half of said Section 29 to the Northwest corner thereof;

Thence Northerly along the West line of Sections 29, 20, 17 and 8, Township 1 South, Range 12 West;

Thence continuing Northerly along the Northerly prolongation of the West line of Section 8, Township 1 South, Range 12 West to an intersection with the North line of Township 1 South;

Thence Easterly along said North line of Township 1 South to the Northeast corner of Section 3, Township 1 South, Range 12 West;

Thence North 64° 30' East to an intersection with the West line of Section 23, Township 1 North, Range 11 West;

Thence Northerly along the West line of said Section 23 to the Northwest corner thereof, said point being the Southwest corner of Section 14, Township 1 North, Range 11 West and said point being also the point of beginning.

Exhibit "B"

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EXHIBIT "C"

TABLE SHOWING BASE
ANNUAL DIVERSION RIGHTS
OF CERTAIN DIVERTERS
AS OF NOVEMBER 2000

DIVERter	BASE ANNUAL DIVERSION RIGHT (ACRE-FeET)
Covell, Ralph (Successor to Rittenhouse, Catherine and Rittenhouse, James)	2.12
Maddock, A. G.	3.40
Rittenhouse, Catherine (Transferred to Covell, Ralph)	0.00
Rittenhouse, James (Transferred to Covell, Ralph)	0.00
Ruebhausen, Arline (Held in common with Ruebhausen, Victor) (Transferred to City of Glendora)	18.34 <u>-18.34</u> 0.00
Ruebhausen, Victor (See Ruebhausen, Arline, above)	<u>0.00</u>
TOTAL	<u><u>5.52</u></u>

EXHIBIT "D"
TABLE SHOWING
PRESCRIPTIVE PUMPING RIGHTS
AND PUMPER'S SHARE OF EACH PUMPER
AS OF NOVEMBER 2000

PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
6W Farms, Inc. (Formerly Woodland Farms, Inc.) (Transferred to Miller Brewing Company)	1,217.40 <u>- 919.50</u> 297.90	0.61599 <u>-0.46526</u> 0.15073
Adams Ranch Mutual Water Company	100.00	0.05060
A & E Plastik Pak Co., Inc. (Transferred to Industry Properties, Ltd.)	0	0
Alhambra, City of	8,812.05	4.45876
Amarillo Mutual Water Company	709.00	0.35874
American Sheds, Inc. (Successor to Southwestern Portland Cement Company) (Transferred to USA Waste of California, Inc.)	742.00 <u>-742.00</u> 0.00	0.37544 <u>-0.37544</u> 0.00000
Anchor Plating Co., Inc. (Successor to Bodger & Sons, DBA Bodger Seeds Ltd.) (Transferred to Crown City Plating Co.)	10.00 <u>-10.00</u> 0.00	0.00506 <u>-0.00506</u> 0.00000
Anderson Family Marital Trust (Successor to Anderson, Ray L. and Helen T.)	<u>50.16</u> 50.16	<u>0.02538</u> 0.02538
Anderson, Ray (Successor to Covina Unified School District) (Transferred to Anderson, Ray L. and Helen T.)	50.16 <u>-50.16</u> 0.00	0.02538 <u>-0.02538</u> 0.00000

Amended Exhibit "D"

D - 1

PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Anderson, Ray L. and Helen T.		
(Successor to Anderson, Ray)	50.16	0.02538
(Transferred to Anderson Family Marital Trust)	<u>-50.16</u>	<u>-0.02538</u>
	0.00	0.00000
Andrade, Macario and Consuelo; and Andrade, Robert and Jayne		
(Successor to J. F. Isbell Estate, Inc.)	8.36	0.00423
	8.36	0.00423
Arcadia, City of	9,252.00	4.68137
(Successor to First National Finance Corporation)	60.90	0.03081
(Transferred to City of Monrovia)	<u>-951.00</u>	<u>-0.48119</u>
	8,361.90	4.23099
Associated Southern Investment Company	16.50	0.00335
(Transferred to Southern California Edison Company)	<u>-16.50</u>	<u>-0.00335</u>
	0.00	0.00000
AZ-Two, Inc.	--	--
(See Southdown, Inc.)		
Azusa Associates, LLC		
(Successor to Snyder, Esther)	18.51	0.00937
	18.51	0.00937
Azusa, City of	3,655.99	1.84988
Azusa-Western Inc.	742.00	0.37544
(Transferred to Southwestern Portland Cement Co.)	<u>-742.00</u>	<u>-0.37544</u>
	0.00	0.00000
Bahnsen & Beckman Ind., Inc.	840.50	0.42528
(Transferred to Woodland, Richard)	<u>-840.50</u>	<u>-0.42528</u>
	0.00	0.00000
Bahnsen, Betty M.	441.90	0.22359
(Transferred to Dawes, Mary Kay)	<u>-441.90</u>	<u>-0.22359</u>
	0.00	0.00000
Baldwin Park County Water District		
(See Valley County Water District)		

Amended Exhibit "D"

D - 2

L-101

PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Bandel Family Trust (Successor to Garnier, Camille A., Deceased, Estate of)	<u>16.70</u> 16.70	<u>0.00845</u> 0.00845
Banks, Gale C. and Vicki Lynn (Successor to Doyle, Mr. and Mrs.; and Madruga, Mr. and Mrs.)	<u>50.00</u> 50.00	<u>0.02530</u> 0.02530
Base Line Water Company (Transferred to Hughes Development Corporation)	430.20 <u>-430.20</u> 0.00	0.21767 <u>-0.21767</u> 0.00000
Beverly Acres Mutual Water Company (See Beverly Acres Mutual Water Users Association)	--	--
Beverly Acres Mutual Water Users Association (Formerly Beverly Acres Mutual Water Company) (Transferred to: San Gabriel Valley Water Company; Nicholson Trust)	93.00 -50.00 <u>-43.00</u> 0.00	0.04706 -0.02530 <u>-0.02176</u> 0.00000
Birenbaum, Max (Held in common with Birenbaum, Sylvia; Schneiderman, Alan; Schneiderman, Lydia; Wigodsky, Bernard; and Wigodsky, Estera) (Transferred to City of Whittier)	6.00 -6.00 0.00	0.00304 -0.00304 0.00000
Birenbaum, Sylvia (See Birenbaum, Max)	--	--
Blue Diamond Concrete Materials Division, The Flintkote Company (Transferred to Sully-Miller Contracting Co.)	1,399.33 <u>-1,399.33</u> 0.00	0.70804 <u>-0.70804</u> 0.00000
Bodger & Sons DBA Bodger Seeds Ltd. (Transferred to Anchor Plating Co., Inc.)	10.00 <u>-10.00</u> 0.00	0.00506 <u>-0.00506</u> 0.00000

Amended Exhibit "D"

D - 3

PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Botello Water Company	0	0
Burbank Development Company	50.65	0.02563
Cadway, Inc. (Successor to: Corcoran, Jack S. and R. L. Corcoran, Jack S. and R. L. Corcoran, Jack S. and R.L. Corcoran, Jack S. and R.L. Garnier, Janus Sloan Ranches Corcoran, Jack S. and R.L.) (Transferred to: California Domestic Water Company California Domestic Water Company California Domestic Water Company	100.00 100.00 273.50 30.00 203.00 129.60 243.50 -243.50 -129.60 <u>-63.30</u> 643.20	0.05060 0.05060 0.13839 0.01518 0.10272 0.06558 0.12320 -0.12321 -0.06558 <u>-0.03203</u> 0.32545
Cal Fin (Transferred to Suburban Water Systems)	118.10 <u>-118.10</u> 0.00	0.05976 <u>-0.05976</u> 0.00000
California-American Water Company (San Marino System)	7,868.70	3.98144
California Country Club (Formerly CCC Management)	0	0
California Domestic Water Company (Successor to: Cantrill Mutual Water Company Industry Properties, Ltd. Modern Accent Corporation Fisher, Russell Graveline, George Wayne and Alexis June, Trust Cadway, Inc. Cadway, Inc. Cadway, Inc.)	11,024.82 42.50 73.50 256.86 19.00 216.60 243.50 129.60 <u>63.30</u> 12,069.68	5.57839 0.02150 0.03719 0.12997 0.00961 0.10959 0.12321 0.06558 <u>0.03203</u> 6.10707

Amended Exhibit "D"

D - 4

PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
California Materials Company	0	0
CalMat (Formerly Conrock Company) (Successor to Manning Bros. Rock & Sand Co.)	1,465.35 <u>328.00</u> 1,793.35	0.74144 <u>0.16596</u> 0.90740
Cantrill Mutual Water Company (Transferred to California Domestic Water Co.)	42.50 <u>-42.50</u> 0.00	0.02150 <u>-0.02150</u> 0.00000
Canyon Water and Development Corporation	--	--
Canyon Water Company (Successor to McIntyre, William)	<u>1.00</u> 1.00	<u>0.00051</u> 0.00051
CCC Management (See California Country Club)	--	--
Cedar Avenue Mutual Water Company (Transferred to San Gabriel Valley Water Company)	121.10 <u>-121.10</u> 0.00	0.06127 <u>-0.06127</u> 0.00000
Champion Mutual Water Company	147.68	0.07472
Chevron USA (Formerly Standard Oil of California)	2.00	0.00101
Chronis, Christine (See Polopolus, et al.)	--	--
Clayton Manufacturing Company	511.80	0.25896
Collison, E. O.	0	0
Comby, Erma M. (See Wilmott, Erma M.)	--	--

Amended Exhibit "D"

D - 5

PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Conrock Company (See CalMat) (Formerly Consolidated Rock Products Co.)	--	--
Consolidated Rock Products Co. (See Conrock Company)	--	--
Corcoran, Jack S. (Held in common with Corcoran, R.L.) (Transferred to:	747.00	0.37797
Cadway, Inc.	-100.00	-0.05060
Cadway, Inc.	-100.00	-0.05060
Cadway, Inc.	-273.50	-0.13839
Cadway, Inc.	-30.00	-0.01518
Cadway, Inc.	<u>-243.50</u>	<u>-0.12320</u>
	0.00	0.00000
Corcoran, R.L. (See Corcoran, Jack S.)	--	--
County Sanitation District No. 18 of Los Angeles County	4.50	0.00228
Covell, et al. (Successor to Rittenhouse, Catherine and James) (Held in common with Tate, Phillip G. and Sieglinde A.; Goedert, Lillian E.; Goedert, Marion W.; Lakin, Kendall R.; Lakin, Kelly R.; Snyder, Harry; Snyder, Esther) (Transferred to:	111.05	0.05619
Lakin, Kelly R.	-9.26	-0.00468
Goedert, Lillian E.	-9.26	-0.00468
Tate, Phillip G. and Sieglinde A.	-57.83	-0.02926
Snyder, Esther)	<u>-18.51</u>	<u>-0.00937</u>
	16.19	0.00820
Covina, City of (Transferred to:	2,507.89	1.26895
Covina Irrigating Company	-1,734.00	0.87737
Covina Irrigating Company)	<u>-300.00</u>	<u>0.15179</u>
	473.89	0.23979

Amended Exhibit "D"

D - 6

PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Covina-Valley Unified School District (Transferred to Anderson, Ray)	50.16 <u>-50.16</u> 0.00	0.02538 <u>-0.02538</u> 0.00000
Crevolin, Andrew J.	2.25	0.00114
Crocker National Bank, Executor of the Estate of A.V. Handorf (Transferred to Modern Accent Corp.)	256.86 <u>-256.86</u> 0.00	0.12997 <u>-0.12997</u> 0.00000
Cross Water Company (Transferred to City of Industry)	1,103.00 <u>-1,103.00</u> 0.00	0.05581 <u>-0.05581</u> 0.00000
Crown City Plating Company (Successor to Anchor Plating Co., Inc.)	190.00 <u>10.00</u> 200.00	0.09614 <u>0.00506</u> 0.10120
Davidson Optronics, Inc. (Transferred to Covina Irrigating Company)	22.00 <u>-22.00</u> 0.00	0.01113 <u>-0.01113</u> 0.00000
Dawes, Mary Kay (Successor to Bahnsen, Betty M.)	441.90 <u>441.90</u>	0.22359 <u>0.22359</u>
Del Rio Mutual Water Company	199.00	0.10069
Denton, Kathryn W., Trustee for San Jose Ranch Company (Transferred to White, June G., Trustee of the June G. White Share of the Garnier Trust)	185.50 <u>-185.50</u> 0.00	0.09386 <u>-0.09386</u> 0.00000
Doyle, Mr. and Mrs.; and Madruga, Mr. and Mrs. (Successor to Sawpit Farms, Ltd.) (Transferred to Banks, Gale C.)	50.00 <u>-50.00</u> 0.00	0.02530 <u>-0.02530</u> 0.00000
Driftwood Dairy	163.80	0.08288

Amended Exhibit "D"
D - 7

PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Duhalde, L.	6.40	0.00324
(Transferred to El Monte Union High School District)	<u>-6.40</u>	<u>-0.00324</u>
	0.00	0.00000
Dunning, George		
(Held in common with Dunning, Vera H.)		
(Successor to Vera H. Dunning)	324.00	0.16394
(Transferred to Dunning Trust, George A.V.)	<u>-324.00</u>	<u>-0.16394</u>
	0.00	0.00000
Dunning Trust, George A.V.		
(Successor to Dunning, George)	<u>324.00</u>	<u>0.16394</u>
	324.00	0.16394
Dunning, Vera H.	324.00	0.16394
(See Dunning, George)		
(Transferred to Dunning, George)	<u>-324.00</u>	<u>-0.16394</u>
	0.00	0.00000
East Pasadena Water Company, Ltd.	1,407.69	0.71227
Eckis, Rollin		
(Successor to Sawpit Farms, Ltd.)	123.00	0.06224
(Transferred to City of Monrovia)	<u>-123.00</u>	<u>-0.06224</u>
	0.00	0.00000
El Encanto Properties	33.40	0.01690
(Transferred to La Puente Valley County Water District)	<u>-33.40</u>	<u>-0.01690</u>
	0.00	0.00000
El Monte, City of	2,784.23	1.40878
El Monte Cemetery Association	18.50	0.00936
El Monte Union High School District	9.80	0.00496
(Successor to Duhalde, L.)	6.40	0.00324
(Transferred to City of Whittier)	<u>-16.20</u>	<u>-0.00820</u>
	0.00	0.00000
Everett, Mrs. Alda B.		
(Held in common with Everett, W.B., Executor of the Estate of I. Worth Everett)	0.00	0.00000

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Everett, W.B., Executor of the Estate of I. Worth Everett (See Everett, Mrs. Alda B.)	--	--
Faix, Inc. (Successor to Frank F. Pellissier & Sons, Inc.) (Transferred to Faix, Ltd.)	0.00	0.00000
Faix, Ltd. (Successor to Faix, Inc.)	<u>6,490.00</u> 6,490.00	<u>3.28384</u> 3.28384
First National Finance Corporation (Transferred to City of Arcadia)	60.90 <u>-60.90</u> 0.00	0.03081 <u>-0.03081</u> 0.00000
Fisher, Russell (Held in common with Hauch, Edward and Warren, Clyde) (Transferred to California Domestic Water Company)	19.00 <u>-19.00</u> 0.00	0.00961 <u>-0.00961</u> 0.00000
Frank F. Pellissier & Sons, Inc. (Transferred to Faix, Inc.)	0.00	0.00000
Fruit Street Water Company (Transferred to: Gifford, Brooks, Jr., City of La Verne)	207.00 -101.29 <u>-105.71</u> 0.00	0.10474 -0.05125 <u>-0.05349</u> 0.00000
Garnier, Anton C. and Anita, Family Trust (Successor to: South Covina Water Service Garnier, Camille A., Deceased, Estate of Garnier, Janus)	203.00 8.30 <u>3.00</u> 214.30	0.10271 0.00420 <u>0.00152</u> 0.10843

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Garnier, Camille A., Deceased, Estate of (Successor to South Covina Water Service)	83.30	0.04215
(Transferred to:		
The Ruth Elaine Ailor Garnier Trust	-41.70	-0.02110
The George Wayne and Alexis June Graveline Trust	-8.30	-0.00420
The Anton C. and Anita Garnier Family Trust	-8.30	-0.00420
Janus Garnier	-8.30	-0.00420
The Bandel Family Trust)	<u>-16.70</u>	<u>-0.00845</u>
	0.00	0.00000
 Garnier, Janus		
(Successor to:		
Garnier, Camille A., Deceased, Estate of	8.30	0.00420
South Covina Water Service)	203.00	0.10272
(Transferred to:		
George Wayne and Alexis June Graveline Trust	-5.30	-0.00268
The Anton C. and Anita Garnier Family Trust	-3.00	-0.00152
Cadway, Inc.)	<u>-203.00</u>	<u>-0.10272</u>
	0.00	0.00000
 Garnier, Ruth Elaine Ailor, Trust		
(Successor to Garnier, Camille A., Deceased, Estate of)	<u>41.70</u>	<u>0.02110</u>
	41.70	0.02110
 Gifford, Brooks, Jr.		
(Successor to:		
Fruit Street Water Co.,	101.29	0.05125
Mission Gardens Mutual Water Company)	96.96	0.04906
(Transferred to City of Whittier)	<u>-198.25</u>	<u>-0.10031</u>
	0.00	0.00000
 Gilkerson, Frank B.	--	--
(Formely part of Covell, et al.)		
(Transferred interest in Covell, et al. to Jobe, Darr)		
 Glendora Unified High School District	99.00	0.05009
(Transferred to City of Glendora)	<u>-99.00</u>	<u>-0.05009</u>
	0.00	0.00000

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Goedert, Lillian E.		
(See Covell, et al.)		
(Successor to Covell, et al.)	9.26	0.00468
(Transferred to Covina Irrigating Co.)	<u>-7.00</u>	<u>0.00354</u>
	2.26	0.00114
Goedert, Marion W.		
(See Covell, et al.)	--	--
Graham, William		
(Formerly part of Covell, et al.)	--	--
(Transferred interest in Covell, et al. to Jobe, Darr)		
Graveline, George Wayne and Alexis June, Trust		
(Successor to:		
South Covina Water Service)	203.00	0.10271
Garnier, Camille A., Deceased, Estate of	8.30	0.00420
Garnier, Janus)	5.30	0.00268
(Transferred to California Domestic Water Co.)	<u>-216.60</u>	<u>-0.10959</u>
	0.00	0.00000
Green, Walter	71.70	0.03628
Grizzle, Lissa B.	184.00	0.09310
(Held in common with Grizzle, Mervin A.;		
Wilson, Harold R.; Wilson, Sarah C.)		
(Transferred to City of Whittier)	<u>-184.00</u>	<u>-0.09310</u>
	0.00	0.00000
Grizzle, Mervin A.		
(See Grizzle, Lissa B.)	--	--
Hansen, Alice	0.75	0.00038
Hanson Aggregates West, Inc.		
(Successor to:		
Livingston-Graham, Inc.	1,824.40	0.92312
Sully-Miller Contracting Company)	<u>489.77</u>	<u>0.24782</u>
	2,314.17	1.17094

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Hartley, David	0	0
Hauch, Edward (See Fisher, Russell)	--	--
Hemlock Mutual Water Company	166.00	0.08399
Hollenbeck Street Water Company (Transferred to Suburban Water Systems)	646.39 <u>-646.39</u> 0.00	0.32706 <u>-0.32706</u> 0.00000
Hughes Development Corporation (Successor to Base Line Water Company) (Transferred to: San Gabriel County Water District San Gabriel County Water District)	430.20 -400.00 <u>-30.20</u> 0.00	0.21767 -0.20239 <u>-0.01528</u> 0.00000
Hunter, Lloyd F. (Successor to Wade, R.) (Transferred to Covina Irrigating Company)	4.40 <u>-4.40</u> 0.00	0.00223 <u>-0.00223</u> 0.00000
Hydro-Conduit Corporation	0	0
Industry Waterworks System, City of (Successor to Cross Water Company)	<u>1,103.00</u> 1,103.00	<u>0.55810</u> 0.55810
Industry Properties, Ltd. (Successor to A & E Plastik Pak Co., Inc.) (Transferred to California Domestic Water Co.)	73.50 <u>-73.50</u> 0.00	0.03719 <u>-0.03719</u> 0.00000
Irwindale, City of (Successor to United Concrete Pipe Corporation)	<u>376.00</u> 376.00	<u>0.19025</u> 0.19025
J.F. Isbell Estate, Inc. (Transferred to Andrade, Macario and Consuelo; and Andrade, Robert and Jayne)	8.36 <u>-8.36</u> 0.00	0.00423 <u>-0.00423</u> 0.00000

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Jerris, Helen (See Polopolus, et al)	--	--
Jobe, Darr (Formerly part of Covell, et al.) (Successor to: Gilkerson, Frank B. interest in Covell, et al. Graham, William interest in Covell, et al.) (Transferred interest in Covell et al. to Tate, Phillip G. and Sieglinde A.)	--	--
Kirklen Family Trust (Formerly Kirklen, Dawn L.) (Held in common with Kirklen, William R.) (Successor to San Dimas-La Verne Recreational Facilities Authority)	375.00	0.18974
	<u>62.50</u>	<u>0.03162</u>
	437.50	0.22136
Kirklen, Dawn L. (See Kirklen Family Trust)	--	--
Kirklen, William R. (See Kirklen, Dawn L.)	--	--
Kiyan Farms (Formerly Kiyan, Hideo) (Transferred to West Covina Venture, Ltd.)	30.00	0.01518
	<u>-30.00</u>	<u>-0.01518</u>
	0.00	0.00000
Kiyan, Hideo (See Kiyan Farms) (Held in common with Kiyan, Hiro)	--	--
Kiyan, Hiro (See Kiyan, Hideo)	--	--
Knight, Kathryn M. (Successor to Knight, William R.)	<u>227.88</u>	<u>0.11530</u>
	227.88	0.11530

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Knight, William R.	227.88	0.11530
(Transferred to Knight, Kathryn M.)	<u>-227.88</u>	<u>-0.11530</u>
	0.00	0.00000
Lakin, Kelly R.		
(See Covell, et al.)		
(Successor to Covell, et al.)	9.26	0.00468
(Transferred to:		
Covina Irrigating Co.	-6.03	-0.00305
Covina Irrigating Co.	<u>-3.23</u>	<u>-0.00163</u>
	0.00	0.00000
Lakin, Kendall R.	--	--
(See Covell, et al.)		
Landeros, John	0.75	0.00038
La Grande Source Water Company	0	0
(Transferred to Suburban Water Systems)		
Lang, Frank	0	0
(Transferred to San Dimas-La Verne Recreational Facilities Authority)		
La Puente Cooperative Water Company	1,210.90	0.61270
(Transferred to Suburban Water Systems)	<u>-1,210.90</u>	<u>-0.61270</u>
	0.00	0.00000
La Puente Valley County Water District	1,097.00	0.55507
(Successor to El Encanto Properties)	<u>33.40</u>	<u>0.01690</u>
	1,130.40	0.57197
La Verne, City of	250.00	0.12650
(Successor to Fruit Street Water Co.)	105.71	0.05349
(Transferred to Covina Irrigating Co.)	<u>-355.71</u>	<u>-0.17999</u>
	0.00	0.00000
Lee, Paul M. and Ruth A.;	0	0
Nasmyth, Virginia; Nasmyth, John		

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Little John Dairy	0	0
Livingston-Graham, Inc. (Transferred to Hanson Aggregates West, Inc.)	1,824.40 <u>-1,824.40</u> 0.00	0.92312 <u>-0.92312</u> 0.00000
Los Flores Mutual Water Company (Transferred to City of Monterey Park)	26.60 <u>-26.60</u> 0.00	0.01346 <u>-0.01346</u> 0.00000
Loucks, David	3.00	0.00152
Lovelady, June G., Trustee (Successor to White, June G., Trustee of the June G. White Share of the Garnier Trust)	<u>185.50</u> 185.50	<u>0.09386</u> 0.09386
Manning Bros. Rock & Sand Co. (Transferred to Conrock Company)	328.00 <u>-328.00</u> 0.00	0.16596 <u>-0.16596</u> 0.00000
Maple Water Company (Transferred to Southwest Water Co.)	118.50 <u>-118.50</u> 0.00	0.05996 <u>-0.05996</u> 0.00000
Martinez, Frances Mercy (Held in common with Martinez, Jaime)	0.75	0.00038
Martinez, Jaime (See Martinez, Frances Mercy)	--	--
Massey-Ferguson Company	0	0
McIntyre, William (Successor to West Covina Venture, Ltd.) (Transferred to Canyon Water Company)	30.00 <u>-1.00</u> 29.00	0.01518 <u>-0.00051</u> 0.01467

PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Miller Brewing Company	111.01	0.05617
(Successor to:		
Maechtlen, Estate of J.J.	151.50	0.07666
Phillips, Alice B., et al.	50.00	0.02530
South Covina Water Company	300.00	0.15180
Woodland Farms, Inc.	919.50	0.46526
Woodland, Richard)	<u>840.50</u>	<u>0.42528</u>
	2,372.51	1.20047
Mission Gardens Mutual Water Company	96.96	0.04906
(Transferred to Gifford, Brooks, Jr.)	<u>-96.96</u>	<u>-0.04906</u>
	0.00	0.00000
Modern Accent Corporation		
(Successor to Crocker National Bank, Executor of the Estate of A. V. Handorf)	256.86	0.12997
(Transferred to California Domestic Water Co.)	<u>-256.86</u>	<u>-0.12997</u>
	0.00	0.00000
Monterey Park, City of	6,677.48	3.37870
(Successor to Los Flores Mutual Water Co.)	<u>26.60</u>	<u>0.01346</u>
	6,704.08	3.39216
Murphy Ranch Mutual Water Company	223.23	0.11295
(Transferred to Southwest Suburban Water)	<u>-223.23</u>	<u>-0.11295</u>
	0.00	0.00000
Namimatsu Farms	196.00	0.09917
(Transferred to California Cities Water Company)	<u>-196.00</u>	<u>-0.09917</u>
	0.00	0.00000
Nick Tomovich & Sons	0.02	0.00001
Nicholson Trust		
(Successor to Beverly Acres Mutual Water Users' Association)	43.00	0.02176
(Transferred to:		
Nicholson Family Trust	-7.00	-0.00354
Nicholson Trust, Helene S.)	<u>-12.00</u>	<u>-0.00607</u>
	24.00	0.01215

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Nicholson Family Trust (Successor to Nicholson Trust)	<u>7.00</u> 7.00	<u>0.00354</u> 0.00354
Nicholson Trust, Helene S. (Successor to Nicholson Trust)	<u>12.00</u> 12.00	<u>0.00607</u> 0.00607
New Owl Rock Products (Successor to Owl Rock Products Co.) (Transferred to Robertson's Ready Mix, Ltd.)	715.60 <u>-715.60</u> 0.00	0.36208 <u>-0.36208</u> 0.00000
No. 17 Walnut Place Mutual Water Co. (Transferred to San Gabriel Valley Water Co.)	21.50 <u>-21.50</u> 0.00	0.01088 <u>-0.01088</u> 0.00000
Orange Production Credit Association	0	0
Owl Rock Products Co. (Transferred to New Owl Rock Products Co.)	715.60 <u>-715.60</u> 0.00	0.36208 <u>-0.36208</u> 0.00000
Pacific Rock & Gravel Co. (Transferred to: City of Whittier, Rose Hills Memorial Park Association)	408.00 -208.00 <u>-200.00</u> 0.00	0.20644 -0.10524 <u>-0.10120</u> 0.00000
Park Water Company (Transferred to Valley County Water District)	184.01 <u>-184.01</u> 0.00	0.09311 <u>-0.09311</u> 0.00000
Parton Family Trust (Successor to Via, H., Trust of)	<u>46.20</u> 46.20	<u>0.02338</u> 0.02338
Penn, Margaret (See Polopolus, et al.)	--	--
Pico County Water District	0.75	0.00038

PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Polopolus, John (See Polopolus, et al.)	--	--
Polopolus, et al. (Successor to Polopolus, Steve) (Held in common with Chronis, Christine; Jerris, Helen; Penn, Margaret; & Polopolus, John)	<u>22.50</u> 22.50	<u>0.01138</u> 0.01138
Polopolus, Steve (Transferred to Polopolus, et al.)	22.50 <u>-22.50</u> 0.00	0.01138 <u>-0.01138</u> 0.00000
Rados, Alexander (Held in common with Rados, Stephen and Rados, Walter)	43.00	0.02176
Rados, Stephen (See Rados, Alexander)	--	--
Rados, Walter (See Rados, Alexander)	--	--
Richwood Mutual Water Company (Transferred to San Gabriel Valley Water Company)	192.60 <u>-192.60</u> 0.00	0.09745 <u>-0.09745</u> 0.00000
Rincon Ditch Company (Transferred to Workman Mill Investment Company)	628.00 <u>-628.00</u> 0.00	0.31776 <u>-0.31776</u> 0.00000
Rincon Irrigation Company (Transferred to Workman Mill Investment Company)	314.00 <u>-314.00</u> 0.00	0.15888 <u>-0.15888</u> 0.00000
Rio Hondo Memorial Foundation, The (Formerly Rose Hills Foundation, The) (See Rose Hills Foundation, The)	--	--
Rittenhouse, Catherine (Transferred to Covell, Ralph)	0	0

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Rittenhouse, James (Transferred to Covell, Ralph)	0	0
Robertson's Ready Mix, Ltd. (Successor to New Owl Rock Products) (Transferred to San Gabriel County Water District)	715.60 <u>-715.60</u> 0.00	0.36208 <u>0.36208</u> 0.00000
Rose Hills Memorial Park Association (See Rose Hills Foundation, The)	--	--
Rose Hills Foundation, The (Formerly Rose Hills Memorial Park Association) (See Rio Hondo Memorial Foundation, The) (Formerly Rio Hondo Memorial Foundation, The) (Successor to Pacific Rock & Gravel Co.) (Transferred to: Workman Mill Investment Co. Workman Mill Investment Co.)	594.00 200.00 -594.00 <u>-200.00</u> 0.00	0.30055 0.10120 -0.30055 <u>-0.10120</u> 0.00000
Rosemead Development, Ltd. (Successor to Thompson, Earl W.)	<u>1.00</u> 1.00	<u>0.00051</u> 0.00051
Rurban Homes Mutual Water Company	217.76	0.11018
Ruth, Roy	0.75	0.00038
San Dimas Golf Inc. DBA Via Verde County Club	0	0
San Dimas-La Verne Recreational Facilities Authority (Successor to Lang, Frank) (Transferred to Kirklen, Dawn L. and William R.)	62.50 <u>-62.50</u> 0.00	0.03162 <u>-0.03162</u> 0.00000
San Gabriel Country Club	286.10	0.14476

PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
San Gabriel County Water District	4,250.00	2.15044
(Successor to:		
Hughes Development Corporation	400.00	0.20239
Hughes Development Corporation	30.00	0.01528
Robertson's Ready Mix, Ltd.)	<u>715.60</u>	<u>0.36208</u>
	5,395.80	2.73019
San Gabriel Valley Municipal Water District	0	0
San Gabriel Valley Water Company	16,659.00	8.42920
(Successor to:		
Vallecito Water Co.	2,867.00	1.45066
No. 17 and Walnut Place Mutual Water Co.	21.50	0.01088
Cedar Avenue Mutual Water Company	121.10	0.06127
Beverly Acres Mutual Water Company	50.00	0.02530
Richwood Mutual Water Company)	<u>192.60</u>	<u>0.09745</u>
	19,911.20	10.07476
Sawpit Farms, Limited	173.00	0.08754
(Transferred to:		
Eckis, Rollin	-123.00	-0.06224
Doyle and Madruga)	<u>-50.00</u>	<u>-0.02530</u>
	0.00	0.00000
Schneiderman, Alan	--	--
(See Birenbaum, Max)		
Schneiderman, Lydia	--	--
(See Birenbaum, Max)		
Security Pacific National Bank	38.70	0.01958
Co-Trustee for the Estate of Winston F. Stoodly		
(See Stoodly, Virginia A.)		
(Transferred to City of Whittier)	<u>-38.70</u>	<u>-0.01958</u>
	0.00	0.00000
Sierra La Verne Country Club	0	0
Sierra Madre, City of	0	0

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Sloan Ranches (Transferred to Cadway, Inc.)	129.60 <u>-129.60</u> 0.00	0.06558 <u>-0.06558</u> 0.00000
Smith, Charles	0	0
Snyder, Esther (Successor to Covell, et al.) (Transferred to Azusa Associates, LLC)	18.51 <u>-18.51</u> 0.00	0.00937 <u>-0.00937</u> 0.00000
Snyder, Harry (See Covell, et al.)	--	--
Sonoco Products Company	311.60	0.15766
South Covina Water Service (Transferred to: Miller Brewing Company The Anton C. and Anita Garnier Family Trust The George Wayne and Alexis June Graveline Trust The Estate of Camille A. Garnier, Deceased Garnier, Janus)	992.30 -300.00 -203.00 -203.00 - 83.30 <u>-203.00</u> 0.00	0.50209 -0.15180 -0.10271 -0.10271 -0.04215 <u>-0.10272</u> 0.00000
Southdown, Inc. (Formerly AZ-Two, Inc.)	--	--
Southern California Edison Company (Successor to Associated Southern Investment Co.)	155.25 <u>16.50</u> 171.75	0.07855 <u>0.00835</u> 0.08690
Southern California Water Company, San Gabriel Valley District	5,773.00	2.92105
South Pasadena, City of	3,567.70	1.80520
Southwest Suburban Water (See Suburban Water Systems)	--	--

PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Southwest Water Company (Successor to Maple Water Company)	<u>118.50</u> 118.50	<u>0.05996</u> 0.05996
Southwestern Portland Cement Company (Successor to Azusa Western, Inc.) (Transferred to American Sheds, Inc.)	742.00 <u>-742.00</u> 0.00	0.37544 <u>-0.37544</u> 0.00000
Speedway 605, Inc.	0	0
Standard Oil Company of California (See Chevron, USA, Inc.)	--	--
Sterling Mutual Water Company	120.00	0.06072
Stoody, Virginia A., Co-Trustee for the Estate of Winston F. Stoody (See Security Pacific National Bank, Co-Trustee)	--	--
Suburban Water Systems (Formerly Southwest Suburban Water) (Successor to:	20,462.47	10.35370
Hollenbeck Street Water Company	646.39	0.32706
La Grande Source Water Company	1,078.00	0.54545
La Puente Cooperative Water Co.	1,210.90	0.61270
Valencia Valley Water Company	651.50	0.32965
Victoria Mutual Water Company, Cal Fin	469.60 118.10	0.23761 0.05976
Murphy Ranch Mutual Water Co.)	<u>223.23</u>	<u>0.11295</u>
	24,860.19	12.57888
Sully-Miller Contracting Company (Successor to Blue Diamond Concrete Materials Division of The Flintkote Co.) (Transferred to:	1,399.33	0.70804
United Rock Products Corp.	-909.56	0.46022
Hanson Aggregates West, Inc.)	<u>-489.77</u>	<u>-0.24782</u>
	0.00	0.00000

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Sunny Slope Water Company	2,228.72	1.12770
Tate, Phillip G. and Sieglinde A. (See Covell, et al.) (Successor to Jobe, Darr interest in Covell, et al.) (Successor to Covell, et al.)	57.83	0.02926
Taylor Herb Garden (Transferred to Covina Irrigating Company)	6.00 <u>-6.00</u> 0.00	0.00304 <u>-0.00304</u> 0.00000
Texaco, Inc.	50.00	0.02530
Thompson, Earl W. (Held in common with Thompson, Mary) (Transferred to Rosemead Development, Ltd.)	1.00 <u>-1.00</u> 0.00	0.00051 <u>-0.00051</u> 0.00000
Thompson, Mary (See Thompson, Earl W.)	--	--
Tyler Nursery	3.21	0.00162
United Concrete Pipe Corporation (Transferred to City of Irwindale)	376.00 <u>-376.00</u> 0.00	0.19025 <u>-0.19025</u> 0.00000
United Rock Products Corporation (Successor to Sully-Miller Contracting Co.)	<u>909.56</u> 909.56	<u>0.46002</u> 0.46002
USA Waste of California, Inc. (Successor to American Sheds, Inc.)	<u>742.00</u> 742.00	<u>0.37544</u> 0.37544
U.S. Pipe & Foundry Company (See United Concrete Pip Corporation)		
Valencia Heights Water Company	861.00	0.43565

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Valencia Valley Water Company (Transferred to Suburban Water Systems)	651.50 <u>-651.50</u> 0.00	0.32965 <u>-0.32965</u> 0.00000
Vallecito Water Company (Transferred to San Gabriel Valley Water Company)	2,867.00 <u>-2,867.00</u> 0.00	1.45066 <u>-1.45066</u> 0.00000
Valley County Water District (Formerly Baldwin Park County Water District) (Successor to Park Water Company)	5,775.00 <u>184.01</u> 5,959.01	2.92206 <u>0.09311</u> 3.01517
Valley Crating Company	0	0
Valley View Mutual Water Company	616.00	0.31169
Via, H. (See Via, H., Trust of)	--	--
Via, H., Trust of (Successor to Via, H.) (Transferred to Parton Family Trust)	46.20 <u>-46.20</u> 0.00	0.02338 <u>-0.02338</u> 0.00000
Victoria Mutual Water Company (Transferred to Suburban Water Systems)	469.60 <u>-469.60</u> 0.00	0.23761 <u>-0.23761</u> 0.00000
Wade, R. (Transferred to Hunter, Lloyd F.)	4.40 <u>-4.40</u> 0.00	0.00223 <u>-0.00223</u> 0.00000
Ward Duck Company (See Woodland Farms, Inc.)	--	--
Warren, Clyde (See Fisher, Russell)	--	--
W.E. Hall Company	0.20	0.00010

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
West Covina Venture, Ltd.		
(Successor to Kiyam Farms)	30.00	0.01518
(Transferred to McIntyre, William)	<u>-30.00</u>	<u>-0.01518</u>
	0.00	0.00000
White, June G., Trustee of the June G. White Share of the Garnier Trust		
(Successor to Denton, Kathryn W., Trustee for the San Jose Ranch Company)	185.50	0.09386
(Transferred to Lovelady, June G., Trustee)	<u>-185.50</u>	<u>-0.09386</u>
	0.00	0.00000
Whittier, City of	7,620.23	3.85572
(Successor to:		
Grizzle, Lissa B.	184.00	0.09310
Pacific Rock and Gravel Co.	208.00	0.10524
Security Pacific National Bank		
Co-Trustee for the Estate of Winston F. Stoody	38.70	0.01958
El Monte Union High School District	16.20	0.00820
Gifford, Brooks, Jr.	198.25	0.10031
Birenbaum, Max)	<u>6.00</u>	<u>0.00304</u>
	8,271.38	4.18519
Wigodsky, Bernard	--	--
(See Birenbaum, Max)		
Wigodsky, Estera	--	--
(See Birenbaum, Max)		
Wilmott, Erma M.	0.75	0.00038
(Formerly Comby, Erma M.)		
Wilson, Harold R.	--	--
(See Grizzle, Lissa B.)		
Wilson, Sarah C.	--	--
(See Grizzle, Lissa B.)		
Woodland Farms, Inc.	--	--
(See 6W Farms, Inc.)		
(Formerly Ward Duck Company)		

Amended Exhibit "D"

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PUMPER	PRESCRIPTIVE PUMPING RIGHT ACRE-FEET	PUMPER'S SHARE %
Woodland, Frederick G.	--	--
Woodland, Richard (Successor to Bahnsen and Beckman Industries, Inc.) (Transferred to Miller Brewing Company)	840.50 <u>-840.50</u> 0.00	0.42528 <u>-0.42528</u> 0.00000
Workman Mill Investment Company (Successor to: Rincon Ditch Company Rincon Irrigation Company Rose Hills Memorial Park Association Rose Hills Foundation, The)	628.00 314.00 594.00 <u>200.00</u> 1,736.00	0.31776 0.15888 0.30055 <u>0.10120</u> 0.87839
Totals for Exhibit "D"	155,402.31	78.63119
Totals for Exhibit "E"	42,232.12	21.36881
<u>GRAND TOTALS</u>	<u>197,634.43</u>	<u>100.00000</u>

Amended Exhibit "D"

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EXHIBIT "E"

**TABLE SHOWING PRODUCTION
RIGHT OF EACH INTEGRATED PRODUCER
AS OF NOVEMBER 2000**

INTEGRATED PRODUCER	DIVERSION COMPONENT ACRE-FEET	PRESCRIPTIVE PUMPING COMPONENT ACRE-FEET	PUMPING COMPONENT SHARE %
Azusa Agricultural Water Company	1,000.00	1,732.20	0.87647
(Transferred to Azusa Valley Water Co.)	<u>-830.00</u>	<u>-1,437.73</u>	<u>-0.72747</u>
	170.00	294.47	0.14900
Azusa Foot-Hill Citrus Water Company	718.50	0.00	0.00000
(Transferred to Monrovia Nursery Company)	<u>-718.50</u>	<u>-0.00</u>	<u>-0.00000</u>
	0.00	0.00	0.00000
Azusa Valley Water Company	2,422.00	8,274.00	4.18652
(Successor to: Azusa Agricultural Water Co.)	<u>830.00</u>	<u>1,437.73</u>	<u>0.72747</u>
	3,252.00	9,711.72	4.91399
California-American Water Company	1,672.00	3,649.00	1.84634
(Duarte System)			
California Cities Water Company	--	--	--
(See Southern California Water Company, San Dimas District)			
Covina Irrigating Company	2,514.00	4,140.00	2.09478
(Successor to:			
City of Covina		1,734.00	0.87737
City of Covina		300.00	0.15179
Taylor Herb Garden		6.00	0.00304
La Verne, City of		355.71	0.17999
Davidson Optronics, Inc.		22.00	0.01113
Goedert, Lillian		7.00	0.00354
Lakin, Kelly R.		6.03	0.00305
Hunter, Lloyd F.		4.40	0.00223
Lakin, Kelly R.		<u>3.23</u>	<u>0.00163</u>
	2,514.00	6,578.37	3.32855

INTEGRATED PRODUCER	DIVERSION COMPONENT ACRE-FEET	PRESCRIPTIVE PUMPING COMPONENT ACRE-FEET	PUMPING COMPONENT SHARE %
Glendora, City of	17.00	8,258.00	4.17842
(Successor to:			
Maechtlen, Estate of J. J.		150.00	0.07590
Maechtlen, Trust of P.A.		50.00	0.02530
Ruebhausen, Arline	18.34		
Glendora Unified High School District)		<u>99.00</u>	<u>0.05009</u>
	35.34	8,557.00	4.32971
 Los Angeles, County of	 310.00	 3,721.30	 1.88292
Maechtlen, Estate of J.J.	0	301.50	0.15256
(Transferred to:			
City of Glendora		-150.00	-0.07590
Miller Brewing Company		<u>-151.50</u>	<u>-0.07666</u>
	0	0.00	0.00000
 Maechtlen, Trust of J.J	 1.49	 0.00	 0.00000
(Transferred to Otting, David;			
Otting, Larry; and Webster, Scott)	-1.49	0.00	0.00000
(Successor to Otting, David:			
Otting, Larry; and Webster, Scott)	1.49	0.00	0.00000
(Transferred to Nikowitz, et al.)	<u>-1.49</u>	<u>0.00</u>	<u>0.00000</u>
	0.00	0.00	0.00000
 Maechtlen, Trust of P.A.	 0.50	 100.50	 0.05085
(Transferred to:			
City of Glendora		50.00	-0.02530
Alice B. Phillips, et al.)	<u>-0.50</u>	<u>-50.50</u>	<u>-0.02555</u>
	0.00	0.00	0.00000
 The Metropolitan Water District of Southern California	 9.59	 165.00	 0.08349
 Monrovia, City of	 1,098.00	 5,042.22	 2.55129
(Successor to:			
Eckis, Rollin		123.00	0.06224
Arcadia, City of)		<u>951.00</u>	<u>0.48119</u>
	1,098.00	6,116.22	3.09472

Exhibit "E"

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INTEGRATED PRODUCER	DIVERSION COMPONENT ACRE-FEET	PRESCRIPTIVE PUMPING COMPONENT ACRE-FEET	PUMPING COMPONENT SHARE %
Monrovia Nursery Company	239.50	0.00	0.00000
(Successor to Azusa Foot-Hill Citrus Co.)	<u>718.50</u>	<u>0.00</u>	<u>0.00000</u>
	958.00	0.00	0.00000
Nikowitz, et al.			
(Successor to Maechtlen, Trust of J.J.)	<u>1.49</u>	<u>0.00</u>	<u>0.00000</u>
(Held in common with Nikowitz, Sheryl M. and Walter P.; Pellegrino, Mark and Roxanne; Verdegem, Thomas and Sandra B.)	1.49	0.00	0.00000
Otting, David; Otting, Larry and Webster, Scott			
(Successor to Maechtlen, Trust of J.J.)	1.49	0.00	0.00000
(Transferred to Maechtlen, Trust of J.J.)	<u>-1.49</u>	<u>-0.00</u>	<u>-0.00000</u>
	0.00	0.00	0.00000
Phillips, Alice B., et al.			
(Successor to Trust of P.A. Maechtlen)	0.50	50.50	0.02555
(Transferred to Miller Brewing Company)	<u>0.50</u>	<u>-50.00</u>	<u>-0.02530</u>
	0.50	0.50	0.00025
Southern California Water Company, San Dimas District	500.00	3,242.53	1.64067
(Formerly California Cities Water Company)			
(Successor to Namimatsu Farms)	<u>500.00</u>	<u>196.00</u>	<u>0.09917</u>
	500.00	3,438.53	1.73984
TOTAL for Exhibit "E"	10,520.92	42,232.12	21.36881

Exhibit "E"

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EXHIBIT "F"

**TABLE SHOWING
SPECIAL CATEGORY RIGHTS**

PARTY

NATURE OF RIGHT

The Metropolitan Water District
of Southern California

- (a) Morris Reservoir Storage and Withdrawal
A right to divert, store and use San Gabriel River Water, pursuant to Permit No. 7174.
- (b) Prior and paramount right to divert 72 acre-feet annually to offset Morris Reservoir evaporation and seepage losses and to provide the water supply necessary for presently existing incidental Morris Dam facilities.

Los Angeles County Flood
Control District (now Los Angeles
County Department of Public Works)

Puddingstone Reservoir
Prior Prescriptive right to divert water from San Dimas Wash for storage in Puddingstone Reservoir in quantities sufficient to offset annual evaporation and seepage losses of the reservoir at approximate elevation 942.

EXHIBIT "G"

**TABLE SHOWING
NON-CONSUMPTIVE USERS**

<u>PARTY</u>	<u>NATURE OF RIGHT</u>
Covina Irrigating Company Azusa Valley Water Company Azusa Agricultural Water Co. Azusa Foot-Hill Citrus Co. Monrovia Nursery	<u>"Committee-of-Nine" Spreading Right</u> To continue to divert water from the San Gabriel River pursuant to the 1888 Settlement, and to spread in spreading grounds within the Basin all water thus diverted without the right to recapture water in excess of said parties' rights as adjudicated in exhibit "E".
California-American Water Company (Duarte System)	<u>Spreading Right</u> To continue to divert water from the San Gabriel River pursuant to the 1888 Settlement, and to continue to divert water from Fish Canyon and to spread said waters in its spreading grounds in the Basin without the right to recapture water in excess of said party's rights as adjudicated in Exhibit "E".
City of Glendora	<u>Spreading Right</u> To continue to spread the water of Big and Little Dalton Washes, pursuant to License No. 2592 without the right to recapture water in excess of said party's rights as adjudicated in Exhibit "E".
San Gabriel Valley Protective Association	<u>Spreading Right</u> To continue to spread San Gabriel River water pursuant to License Nos. 9991 and 12,209, without the right to recapture said water.
California Cities Water Company	<u>Spreading Right</u> To continue to spread waters from San Dimas Wash without the right to recapture water in excess of said party's rights as adjudicated in Exhibit "E".
Los Angeles County Flood Control District	<u>Temporary storage</u> of storm flow for regulatory purposes; <u>Spreading</u> and conservation for general benefit in streambeds, reservoirs and spreading grounds without the right to recapture said water. <u>Maintenance and operation</u> of dams and other flood control works.

Exhibit "G"

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EXHIBIT "H"
WATERMASTER OPERATING CRITERIA

1. **Basin Storage Capacity.** The highest water level at the end of a water year during the past 40 years was reached at the Key Well on September 30, 1944 (elevation 316). The State of California, Department of Water Resources, estimates that as of that date, the quantity of fresh water in storage in the Basin was approximately 8,600,000 acre-feet. It is also estimated by said Department that by September 30, 1960, the quantity of fresh water in storage had decreased to approximately 7,900,000 acre-feet (elevation 237 at the Key Well).

The lowest water level at the end of a water year during the past 40 years was reached at the Key Well on September 30, 1965 (elevation 209). It is estimated that the quantity of fresh water in storage in the Basin on that date was approximately 7,700,000 acre-feet.

Thus, the maximum utilization of Basin storage was approximately 900,000 acre-feet, occurring between September 30, 1944, and September 30, 1965 (between elevations 316 and 209 at the Key Well). This is not to say that more than 900,000 acre-feet of storage space below the September 30, 1944 water levels cannot be utilized. However, it demonstrates that pumpers have deepened their wells and lowered their pumps so that such 900,000 acre-feet of storage can be safely and economically utilized.

The storage capacity of the Basin between elevations of 200 and 250 at the Key Well represents a usable volume of approximately 400,000 acre-feet of water.

2. **Operating Safe Yield and Spreading.** Watermaster in determining Operating Safe Yield and the importation of Replacement Water shall be guided by water level elevations in the Basin. He shall give recognition to, and base his operations on, the following general objectives insofar as practicable:

- (a) The replenishment of ground water from sources of supplemental water should not cause excessively high levels of ground water and such replenishment should not cause undue waste of local water supplies.
- (b) Certain areas within the Basin are not at the present time capable of being recharged with supplemental water. Efforts should be made to provide protection to such areas

from excessive ground water lowering either through the “in lieu” provisions of the Judgment or by other means.

- (c) Watermaster shall consider and evaluate the long-term consequences on ground water quality, as well as quantity, in determining and establishing Operating Safe Yield. Recognition shall be given to the enhancement of ground water quality insofar as practicable, especially in the area immediately upstream of Whittier Narrows where degradation of water quality may occur when water levels at the Key Well are maintained at or below elevation 200.
- (d) Watermaster shall take into consideration the comparative costs of supplemental and Make-up Water in determining the savings on a present value basis of temporary or permanent lowering or raising of water levels and other economic data and analyses indicating both the short-term and long-term propriety of adjusting Operating Safe Yield in order to derive optimum water levels during any period. Watermaster shall utilize the provisions in the Long Beach Judgment which will result in the least cost of delivering Make-up Water.

3. **Replacement Water -- Sources and Recharge Criteria.** The following criteria shall control purchase of Replacement Water and Recharge of the Basin by Watermaster.

- (a) **Responsible Agency From Which to Purchase.** Watermaster, in determining the Responsible Agency from which to purchase supplemental water for replacement purposes, shall be governed by the following:
 - (1) **Place of Use of Water** which is used primarily within the Basin or by cities within San Gabriel District in areas within or outside the Basin shall control in determining the Responsible Agency. For purposes of this subparagraph, water supplied through a municipal water system which lies chiefly within the Basin shall be deemed entirely used within the Basin; and
 - (2) **Place of production of water** shall control in determining the Responsible Agency as to water exported from the Basin, except as to use within San Gabriel District.

Any Responsible Agency may, at the request of Watermaster, waive its right to act as the source for such supplemental water, in which case Watermaster shall be free to purchase such water from the

remaining Responsible Agencies which are the most beneficial and appropriate sources; provided, however, that a Responsible Agency shall not authorize any sale of water in violation of the California Constitution.

(b) **Water Quality.** Watermaster shall purchase the best quality of supplemental water available for replenishment of the Basin, pursuant to subsection (a) hereof.

(c) **Reclaimed Water.** It is recognized that the technology and economic and physical necessity for utilization of reclaimed water is increasing. The purchase of reclaimed water in accordance with the Long Beach Judgment to satisfy the Make-up Obligation is expressly authorized. At the same time, water quality problems involved in the reuse of water within the Basin pose serious questions of increased costs and other problems to the pumpers, their customers and all water users. Accordingly, Watermaster is authorized to gather information, make and review studies, and make recommendations on the feasibility of the use of reclaimed water for replacement purposes; provided that no reclaimed water shall be recharged in the Basin by Watermaster without the prior approval of the court, after notice to all parties and hearing thereon.

4. **Replacement Assessment Rates.** The Replacement Assessment rates shall be in an amount calculated to allow Watermaster to purchase one acre-foot of supplemental water for each acre-foot of excess Production to which such Assessment applies.

EXHIBIT "J"

PUENTE NARROWS AGREEMENT

THIS AGREEMENT is made and entered into as of the 8th day of May, 1972, by and between PUENTE BASIN WATER AGENCY, herein called "Puente Agency", and UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT, herein called "Upper District".

A. RECITALS

1. Puente Agency. Puente Agency is a joint powers agency composed of Walnut Valley Water District, herein called "Walnut District", and Rowland Area County Water District, herein called "Rowland District". Puente Agency is formed for the purpose of developing and implementing a ground water basin management program for Puente Basin. Pursuant to said purpose, said Agency is acting as a representative of its member districts and of the water users and water right claimants therein in the defense and maintenance of their water rights within Puente Basin.

2. Upper District. Upper District is a municipal water district overlying a major portion of the Main San Gabriel Basin. Upper District is plaintiff in the San Gabriel Basin Case, wherein it seeks to adjudicate rights and implement a basin management plan for the Main San Gabriel Basin.

3. Puente Basin is a ground water basin tributary to the Main San Gabriel Basin. Said area was included within the scope of the San Gabriel Basin Case and substantially

Exhibit "J"

all water rights claimants within Puente Basin were joined as defendants therein. The surface contribution to the Main San Gabriel Basin from Puente Basin is by way of the paved flood control channel of San Jose Creek, which passes through Puente Basin from the Pomona Valley area. Subsurface outflow is relatively limited and moves from the Puente Basin to the Main San Gabriel Basin through Puente Narrows..

4. Intent of Agreement. Puente Agency is prepared to assure Upper District that no activity within Puente Basin will hereafter be undertaken which will (1) interfere with surface flows in San Jose Creek, or (2) impair the subsurface flow from Puente Basin to the Main San Gabriel Basin. Walnut District and Rowland District, by operation of law and by express assumption endorsed hereon, assume the covenants of this agreement as a joint and several obligation. Based upon such assurances and the covenants hereinafter contained in support thereof, Upper District consents to the dismissal of all Puente Basin parties from the San Gabriel Basin Case. By reason of said dismissals, Puente Agency will be free to formulate a separate water management program for Puente Basin.

B. DEFINITIONS AND EXHIBITS

5. Definitions. As used in this Agreement, the following terms shall have the meanings herein set forth:

(a) Annual or Year refers to the fiscal year July 1 through June 30.

(b) Base Underflow. The underflow through

Exhibit "J"

Puente Narrows which Puente Agency agrees to maintain, and on which accrued debits and credits shall be calculated.

(c) Make-up Payment. Make-up payments shall be an amount of money payable to the Watermaster appointed in the San Gabriel Basin Case, sufficient to allow said Watermaster to purchase replacement water on account of any accumulated deficit as provided in Paragraph 9 hereof.

(d) Puente Narrows. The subsurface geologic constriction at the downstream boundary of Puente Basin, located as shown on Appendix "B".

(e) Main San Gabriel Basin, the ground water basin shown and defined as such in Exhibit "A" to the Judgment in the San Gabriel Basin Case.

(f) San Gabriel Basin Case. Upper San Gabriel Valley Municipal Water District v. City of Alhambra, et al., L. A. Sup. Ct. No. 924128, filed January 2, 1968.

6. Appendices. Attached hereto and by this reference made a part hereof are the following appendices:

"A" -- Location Map of Puente Basin, showing major geographic, geologic, and hydrologic features.

"B" -- Map of Cross-Section Through Puente Narrows, showing major physical features and location of key wells.

Exhibit "J"

"C" -- Engineering Criteria, being a description of a method of measurement of subsurface outflow to be utilized for Watermaster purposes.

C. COVENANTS

7. Watermaster. There is hereby created a two member Watermaster service to which each of the parties to this agreement shall select one consulting engineer. The respective representatives on said Watermaster shall serve at the pleasure of the governing body of each appointing party and each party shall bear its own Watermaster expense.

a. Organization. Watermaster shall perform the duties specified herein on an informal basis, by unanimous agreement. In the event the two representatives are unable to agree upon any finding or decision, they shall select a third member to act, pursuant to the applicable laws of the State of California. Thereafter, until said issue is resolved, said three shall sit formally as a board of arbitration. Upon resolution of the issue in dispute, the third member shall cease to function further.

b. Availability of Information. Each party hereto shall, for itself and its residents and water users, use its best efforts to furnish all appropriate information to the Watermaster in order that the required determination can be made.

Exhibit "J"

c. Cooperation With Other Watermasters. Watermaster hereunder shall cooperate and coordinate activities with the Watermasters appointed in the San Gabriel Basin Case and in Long Beach v. San Gabriel Valley Water Company, et al.

d. Determination of Underflow. Watermaster shall annually determine the amount of underflow from Puente Basin to the San Gabriel Basin, pursuant to Engineering Criteria.

e. Perpetual Accounting. Watermaster shall maintain a perpetual account of accumulated base underflow, accumulated subsurface flow, any deficiencies by reason of interference with surface flows, and the offsetting credit for any make-up payments. Said account shall annually show the accumulated credit or debit in the obligation of Puente Agency to Upper District.

f. Report. Watermaster findings shall be incorporated in a brief written report to be filed with the parties and with the Watermaster in the San Gabriel Basin Case. Said report shall contain a statement of the perpetual account heretofore specified.

8. Base Underflow. On the basis of a study and review of historic underflow from Puente Basin to the Main San Gabriel Basin, adjusted for the effect of the paved flood control channel and other relevant considerations, it is

Exhibit "J"

mutually agreed by the parties that the base underflow is and shall be 580 acre feet per year, calculated pursuant to Engineering Criteria.

9. Puente Agency's Obligation. Puente Agency covenants, agrees and assumes the following obligation hereunder:

a. Noninterference with Surface Flow. Neither Puente Agency nor any persons or entities within the corporate boundaries of Walnut District or Rowland District will divert or otherwise interfere with or utilize natural surface runoff now or hereafter flowing in the storm channel of San Jose Creek; provided, however, that this covenant shall not prevent the use, under Watermaster supervision, of said storm channel by the Puente Agency or Walnut District or Rowland District for transmission within Puente Agency of supplemental or reclaimed water owned by said entities and introduced into said channel solely for transmission purposes. In the event any unauthorized use of surface flow in said channel is made contrary to the covenant herein provided, Puente Agency shall compensate Upper District by utilizing any accumulated credit or by make-up payment in the same manner as is provided for deficiencies in subsurface outflow from Puente Basin.

b. Subsurface Outflow. To the extent that

Exhibit "J"

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the accumulated subsurface outflow falls below the accumulated base underflow and the result thereof is an accumulated deficit in the Watermaster's annual accounting, Puente Agency agrees to provide make-up payments during the next year in an amount not less than one-third of the accumulated deficit.

c. Purchase of Reclaimed Water. To the extent that Puente Agency or Walnut District or Rowland District may hereafter purchase reclaimed water from the facilities of Sanitation District 21 of Los Angeles County, such purchaser shall use its best efforts to obtain waters originating within San Gabriel River Watershed.

10. Puente Basin Parties Dismissal. In consideration of the assumption of the obligation hereinabove provided by Puente Agency, Upper District consents to entry of dismissals as to all Puente Basin parties in San Gabriel Basin Case. This agreement shall be submitted for specific approval by the Court and a finding that it shall operate as full satisfaction of any and all claims by the parties within Main San Gabriel Basin against Puente Basin parties by reason of historic surface and subsurface flow.

Exhibit "J"

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IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed as of the day and date first above written.

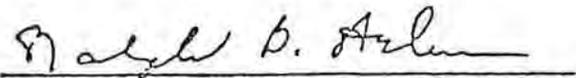
Approved as to form:
CLAYSON, STARK, ROTHROCK & MANN

By 
Attorneys for Puente Agency

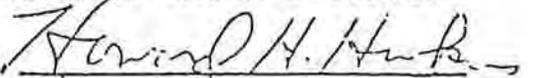
PUENTE BASIN AGENCY

By 
EDMOND M. BIEDERMAN
President

Approved as to form:

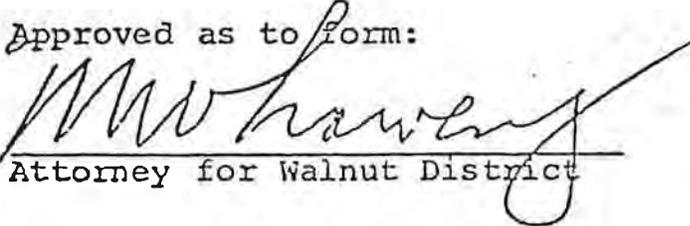
By 
Attorney for Upper District

UPPER SAN GABRIEL VALLEY
MUNICIPAL WATER DISTRICT

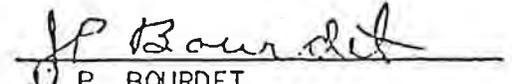
By 
Howard H. Hawkins
President

The foregoing agreement is approved and accepted, and the same is acknowledged as the joint and several obligation of the undersigned.

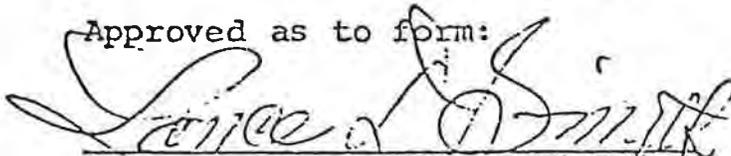
Approved as to form:


Attorney for Walnut District

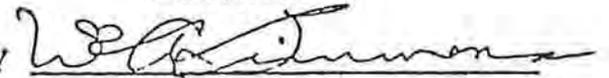
WALNUT VALLEY WATER DISTRICT

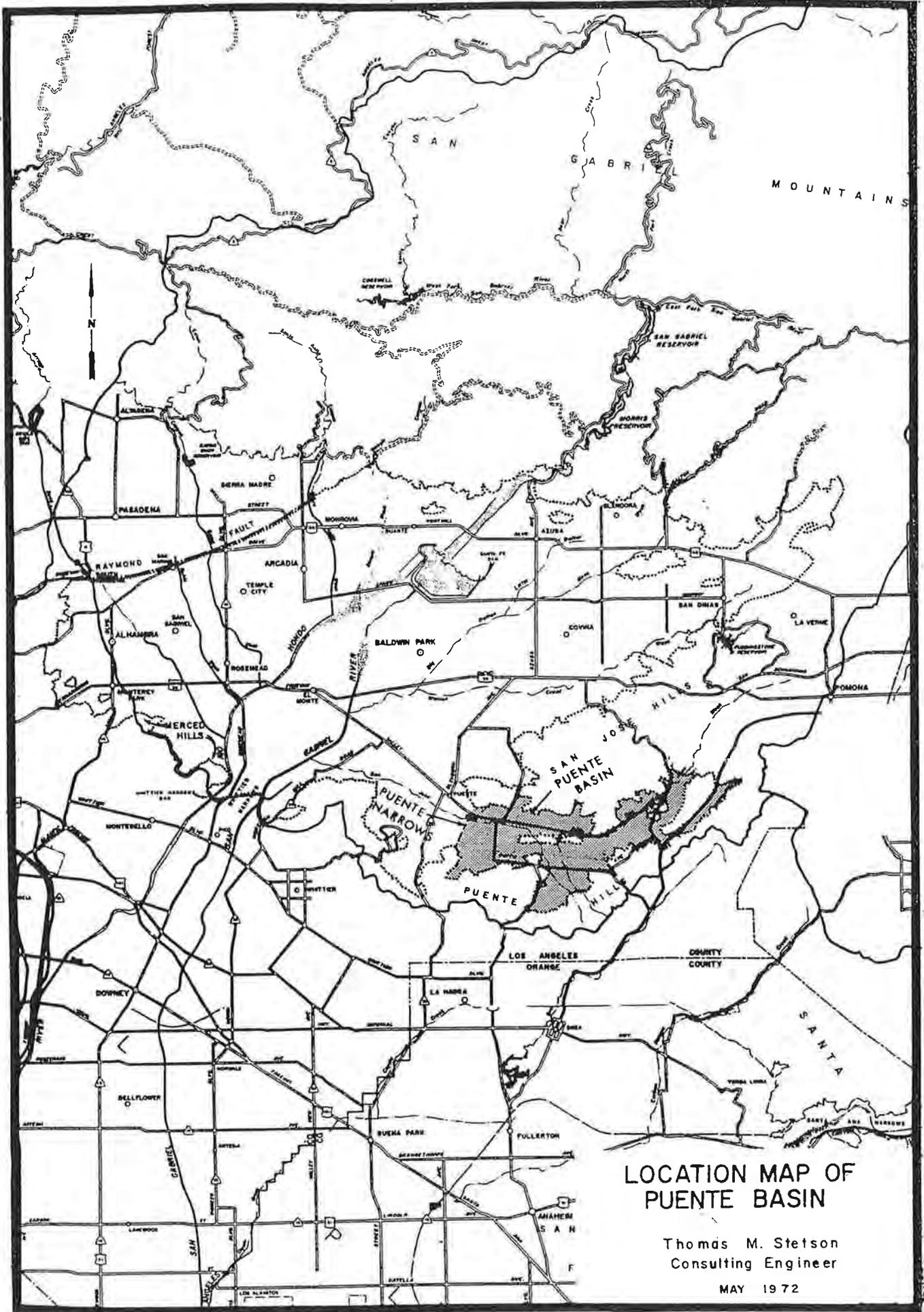
By 
J. P. BOURDET
Vice President

Approved as to form:


Attorneys for Rowland District

ROWLAND AREA COUNTY WATER
DISTRICT

By 
President
Wm. A. Simmons

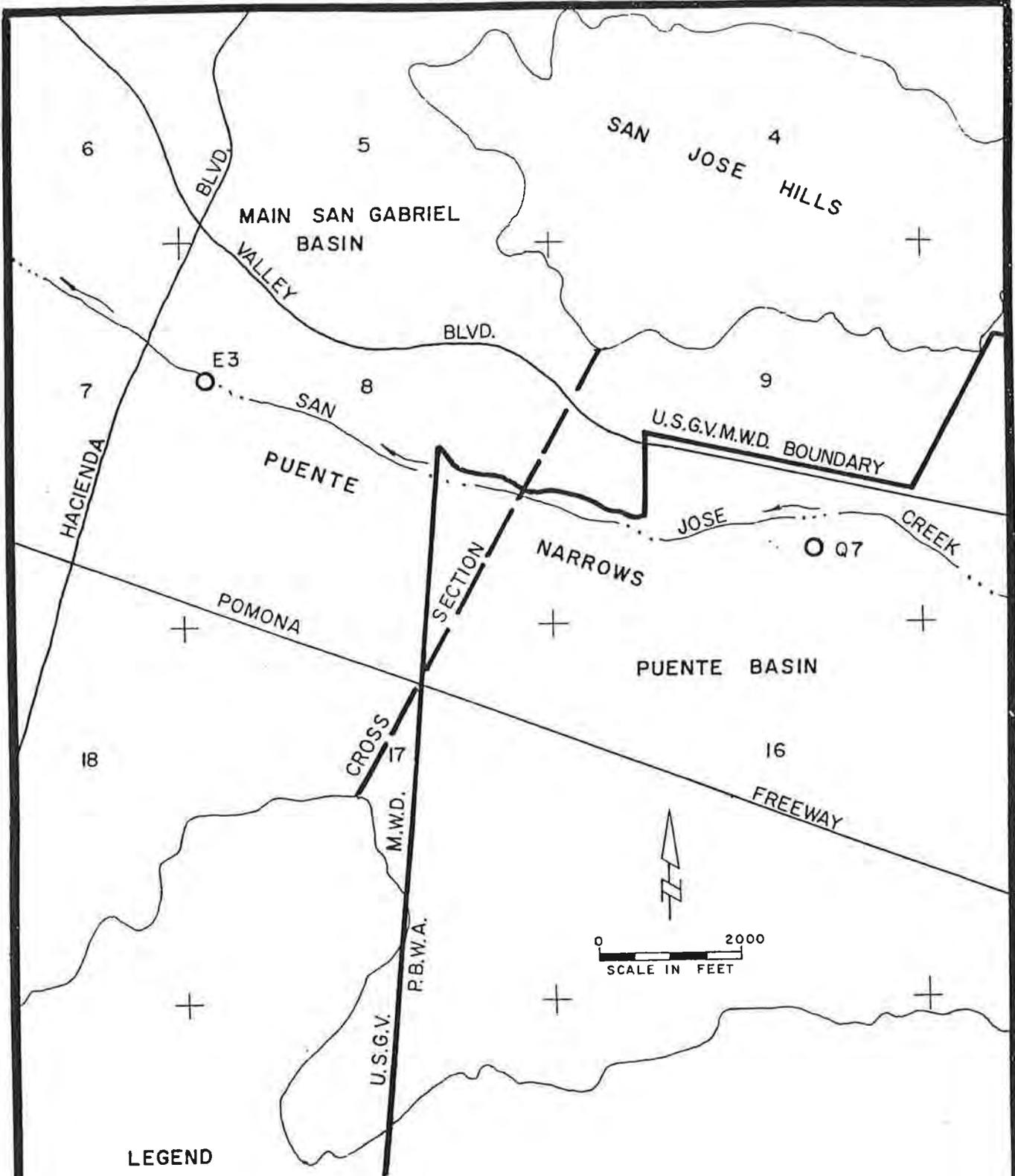


**LOCATION MAP OF
PUENTE BASIN**

Thomas M. Stetson
Consulting Engineer

MAY 1972

APPENDIX "A"
EXHIBIT "J"



LEGEND

-  GROUND WATER BASIN
-  MT. AND HILL AREA TRIBUTARY TO WHITTIER NARROWS
-  BOUNDARY BETWEEN UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT AND PUENTE BASIN WATER AGENCY
-  CROSS SECTION THROUGH PUENTE NARROWS
-  MONITORING WELLS

NOTE: ALL SECTIONS ARE IN TOWNSHIP 2 SOUTH, RANGE 10 WEST, SAN BERNARDINO BASE AND MERIDIAN

MAP OF CROSS SECTION THROUGH PUENTE NARROWS

Thomas M. Stetson
Consulting Engineer

MAY 1972

ENGINEERING CRITERIA

APPENDIX "C"

1. Monitoring Wells. The wells designated as State Wells No. 2S/10W-9Q7 and 2S/10W-8E3 and Los Angeles County Flood Control District Nos. 3079M and 3048B, respectively, shall be used to measure applicable ground water elevations. In the event either monitoring well should fail or become unrepresentative, a substitute well shall be selected or drilled by Watermaster. The cost of drilling a replacement well shall be the obligation of the Puente Agency.

2. Measurement. Each monitoring well shall be measured and the ground water elevation determined semi-annually on or about April 1 and October 1 of each year. Prior to each measurement, the pump shall be turned off for a sufficient period to insure that the water table has recovered to a static or near equilibrium condition.

3. Hydraulic Gradient. The hydraulic gradient, or slope of the water surface through Puente Narrows, shall be calculated between the monitoring wells as the difference in water surface elevation divided by the distance, approximately 9,000 feet, between the wells. The hydraulic gradient shall be determined for the spring and fall and the average hydraulic gradient calculated for the year.

4. Ground Water Elevation at Puente Narrows Cross Section. The ground water elevation at the Puente Narrows

APPENDIX "C"

Exhibit "J"

cross section midway between the monitoring wells shall be the average of the ground water elevation at the two wells. This shall be determined for the spring and fall and the average annual ground water elevation calculated for the year.

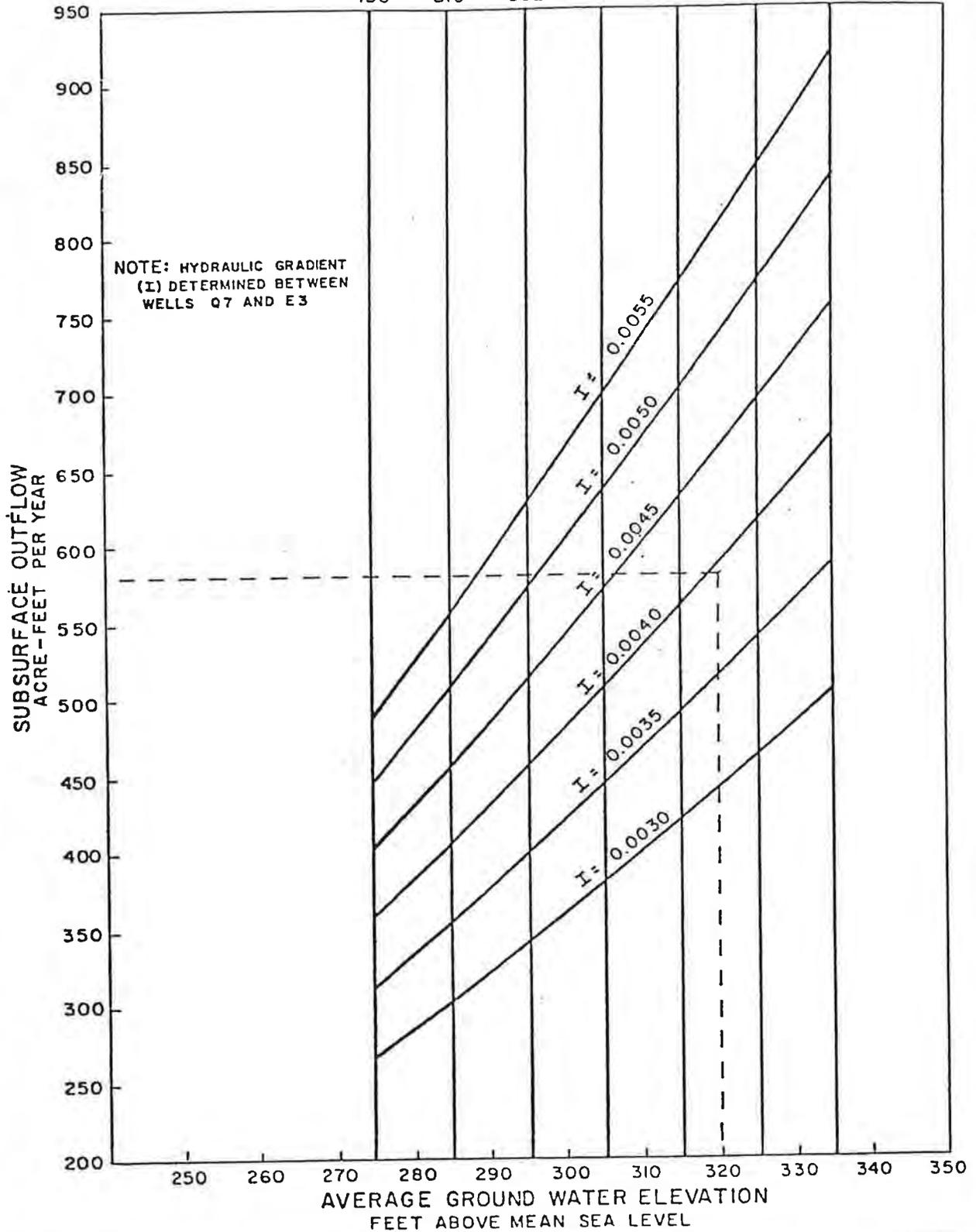
5. Determination of Underflow. The chart attached is a photo-reduction of a full scale chart on file with the Watermaster. By applying the appropriate average annual hydraulic gradient (I) to the average annual ground water elevation at the Puente Narrows cross section (involving the appropriate cross-sectional area [A]), it is possible to read on the vertical scale the annual acre feet of underflow.

APPENDIX "C"

Exhibit "J"

CROSS - SECTIONAL AREA
THOUSANDS OF SQUARE FEET

458 518 582 650 717 786 860



RELATIONSHIP OF AVERAGE GROUND WATER ELEVATION AT PUENTE NARROWS AND APPLICABLE CROSS-SECTIONAL AREA WITH SUBSURFACE OUTFLOW THROUGH PUENTE NARROWS FOR VARIOUS HYDRAULIC GRADIENTS

Thomas M. Stetson
Consulting Engineer
MAY 1972

EXHIBIT "K"
OVERLYING RIGHTS

I. NATURE OF OVERLYING RIGHT

An "Overlying Right" is the right to Produce water from the Main San Gabriel Basin for use on the overlying lands hereinafter described. Such rights are exercisable without quantitative limit only on said overlying land and cannot be separately conveyed or transferred apart therefrom. The exerciser of such right is assessable by Watermaster as provided in Paragraph 21 of the Amended Judgment herein (prior Paragraph 14.5 of the Judgment herein) and is subject to the other provisions of said Paragraph.

II. OVERLYING LANDS (Description)

The overlying lands to which Overlying Rights are appurtenant are described as follows:

"Those portions of Lots 1 and 2 of the lands formerly owned by W.A. Church, in the Rancho San Francisquito, in the City of Irwindale, County of Los Angeles, State of California, as shown on recorder's filed map No. 509, in the office of the County Recorder of said County, lying northeasterly of the northeasterly line and its southeasterly prolongation of Tract 1888, as shown on map recorded in Book 21 page 183 of Maps, in the office of the County Recorder of said County.

"EXCEPT the portions thereof lying northerly and northwesterly of the center line of Arrow Highway described 'Sixth' and the center line of Live Oak Avenue described 'Third' in a final decree of condemnation, a certified copy of which was recorded August 18, 1933 as Instrument No. 354, in Book 12289, Page 277, Official Records.

"ALSO EXCEPT that portion of said land described in the final decree of condemnation entered in Los Angeles County Superior Court Case No. 805008, a certified copy of which was recorded September 21, 1964, as Instrument No. 3730 in Book D-2634, Page 648, Official Records."

III. PRODUCERS ENTITLED TO EXERCISE OVERLYING RIGHTS AND THEIR RESPECTIVE CONSUMPTIVE USE PORTIONS

The persons entitled to exercise Overlying Rights are both the owners of Overlying Rights and persons and entities licensed by such owners to exercise such Overlying Rights. The persons entitled to exercise Overlying Rights and their respective Consumptive Use portions are as follows:

OWNER PRODUCERS

BROOKS GIFFORD, SR.
BROOKS GIFFORD, JR.
PAUL MNOIAN
JOHN MGRDICHIAN
J. EARL GARRETT

CONSUMPTIVE USE PORTION

3.5 acre-feet per year

Present User:

Nu-Way Industries

PRODUCERS UNDER LICENSE

A. WILLIAM C. THOMAS
and EVELYN F. THOMAS,
husband and wife, and
MALCOLM K. GATHERER
and JACQUELINE GATHERER,
husband and wife, doing business
by and through B & B
REDI-I-MIX CONCRETE,
INC., a corporation

45.6 acre-feet per year

B. PRE-STRESS CRANE RIGGING &
TRUCK CO., INC.,
a corporation

1.0 acre-foot per year

Present Users:

Pre-Stress Crane Rigging &
Truck Co., Inc., a corporation

TOTAL

50.1 acre-feet per year

IV. **ANNUAL GROSS AMOUNT OF
PRODUCTION FROM WHICH
CONSUMPTIVE USE PORTIONS
WERE DERIVED**

183.65 acre-feet

EXHIBIT "L"

**LIST OF PRODUCERS AND OTHER PARTIES AND THEIR DESIGNEES
Amended as of November 2000**

Producers and Other Parties

Designee

6 W Farms, Inc.	Richard Woodland
Adams Ranch Mutual Water Company	Domenic Cimarusti
Alhambra, City of	Manny Magana
Amarillo Mutual Water Company	John Holzinger
American Sheds, Inc.	Jim Dodenhoff
Anderson Family Marital Trust	Helen Anderson
Andrade, Macario, et al.	Consuelo Andrade
Arcadia, City of	Pat Malloy
Attalla, Mary L.	Mary Attalla
AZ Two, Inc.	Richard Chamberlain
Azusa Agricultural Water Company	Chet Anderson
Azusa Associates, LLC	Scott Stowell
Azusa Valley Water Company	Chet Anderson
Azusa, City of	Chet Anderson
Bandel Family Trust	Candace Bandel
Banks, Gale C. and Vicki L.	Gale Banks
Baseline Water Company	Everette Hughes, Jr.
Beverly Acres Mutual Water Users' Association	Narda Wiltz
Burbank Development Company	Darrell Wright
Cadway, Inc.	James Byerrum
California Country Club	Jeffrey Pellissier
California Domestic Water Company	James Byerrum
California-American Water Company (Duarte System)	Benjamin Lewis, Jr.
California-American Water Company (San Marino System)	Benjamin Lewis, Jr.
Calmat Company	Gene Block
Canyon Water & Development Corporation	Chet Anderson
Canyon Water Company, Inc.	William McIntyre
Cedar Avenue Mutual Water Company	William Calhoun
Champion Mutual Water Company	Michael Felix
Chevron, U.S.A., Inc.	Cynthia Norris
Clayton Industries	Jackie Rhodes
Corcoran Brothers	Ray Corcoran
County Sanitation District #18 of Los Angeles	Charles Carry
Covell, et al.	Phillip Tate
Covell, Ralph	Ralph Covell

Exhibit "L"

L - 1

Producers and Other Parties

Covina Irrigating Company
Covina, City of
Crevolin, Andrew J. Trust
Crown City Plating Company

Davidson Optronics, Inc.
Dawes, Mary Kay
Del Rio Mutual Water Company
Doyle & Madruga
Driftwood Dairy
Dunning, George A.V.
Dunning, George A.V., Trust

East Pasadena Water Company, Ltd.
El Monte Cemetery Association
El Monte, City of
Everett, Alda B.

Faix, Ltd.

Garnier, Anton C. & Anita, Family Trust
Garnier, Janus
Garnier, Ruth Elaine Ailor, Trust
Gifford, Brooks Jr.
Glendora, City of
Goedert, Lillian
Graveline, George Wayne & Alexis June, Trust
Green, Walter

Hanson Aggregates West, Inc.
Hartley, David
Hemlock Mutual Water Company
Hill, Tevis
Hughes Development Corporation
Hunter, Lloyd

Industry Waterworks System, City of
Irwindale, City of

Kirklen Family Trust
Kiyon Farm
Knight, Kathryn M.

Designee

David De Jesus
Paul Philips
Andrew Crevolin
N. Gardner

James McBride
Mary Kay Dawesss
Gonzalo Galindo
A. Doyle
James Dolan
George Dunning
George Dunning

Colin Abrahamson
Linn Magoffin
Bryan Hellein
Alda Everett

Henri Pellissier

Anton Garnier
Janus Garnier
Renee Poivre
H. Senecal
Richard Cantwell
Lillian Goedert
Alexis Graveline
Walter Green

Robert Warburton
David Hartley
Robert McClung
Tevis Hill
Everett Hughes, Jr.
Lloyd Hunter

Philip Iriarte
Steve Blancarte

Dawn Kirklen
Hideo Kiyon
William Knight

Producers and Other Parties

La Puente Valley County Water District
La Verne, City of
Lakin, Kelly
Landeros, John
Livingston-Graham
Los Angeles, County of
Loucks, David
Lovelady, June G., Trustee

Maddock, A.G.
Maechtlen, Trust of J.J.
Maple Water Company, Inc.
Martinez, Frances or Jaime
McIntyre, William
Metropolitan Water District of Southern California
Miller Brewing Company
Monrovia Nursery
Monrovia, City of
Monterey Park, City of

New Owl Rock Products
Nicholson Family Trust, The
Nicholson Trust, Helene S., The
Nicholson Trust, The
Nikowitz, et al.

Orange Production Credit
Otting, David; Otting, Larry and Webster, Scott
Owl Rock Products

Park Water Company
Parton Family Trust, The
Pico County Water District
Polopolus, et al.

Queen of the Valley Hospital

Rados Brothers
Richwood Mutual Water Company
Rincon Ditch Company
Rincon Irrigating Company
Robertson's Ready Mix, Ltd.
Rose Hills Foundation, The
Rurban Homes Mutual Water Company

Designee

Michael Berlien
N. Kathleen Hamm
Kelly Lakin
John Landeros
Mark Long
Brian Hooper
David Loucks
June Lovelady

A.G. Maddock
Jack Maechtlen
Danny Diaz
Frances Martinez
William McIntyre
Nina Jazmadarian
Edward Beers
Miles Rosedale
David Fike
Walter Pease

Michael Broome
Michael Whitehead
Michael Whitehead
Michael Whitehead
Walter Nikowitz

G. Bolinger
Larry Otting
Rich Robertson

Kenneth Dodd
Marverna Parton
Robert Fuller
Christine Chronis

Jaii Grayson

Alexander Rados
Robert Lesheski
K.E. Nungesser
K.E. Nungesser
Rich Robertson
John Argue
George Bucey

Producers and Other Parties

Ruth, Roy

S.L.S. & N., Inc. (Peck Road Gravel Pit)
San Dimas Golf, Inc.
San Dimas-La Verne Recreational Facility Authority
San Gabriel Country Club
San Gabriel County Water District
San Gabriel Valley Municipal Water District
San Gabriel Valley Water Company
Sierra La Verne Country Club
Sierra Madre, City of
Sloan Ranches
Snyder, Esther
Sonoco Products Company
South Covina Water Service
South Pasadena, City of
Southdown, Inc. c/o Transit Mixed Concrete
Southern California Edison Company
Southern California Water Company San Dimas District
Southern California Water Company San Gabriel Valley District
Southwest Water Company
Southwestern Portland Cement Company
Standard Oil of California
Sterling Mutual Water Company
Suburban Water Systems
Sully-Miller Contracting Company
Sunny Slope Water Company

Tate, Phillip G. & Sieglinde A.
Taylor Herb Garden
Texaco, Inc.
Three Valleys Municipal Water District
Tomovich, Nick and Sons
Tyler Nursery

United Concrete Pipe Corporation
United Rock Products Corporation
Upper San Gabriel Valley MWD
USA Waste of California, Inc.

Valencia Heights Water Company
Valley County Water District
Valley View Mutual Water Company
Via, H., Trust of

Designee

Roy Ruth

John Schiller
Dal Lee
Donald Twomley
Cyrus Afshin
Charles Shaw
James Frei
Michael Whitehead
Donald Johnson
Charles Martin
Larry Sloan
Esther Snyder
S. Coker
Anton Garnier
Ronald Stowe
Brian Mastin
Joseph D'Amato
Jim Gallagher
Jim Gallagher
Leslie Ward-Cline
Richard Chamberlain
John Wild
Joy Burt
Reginald Stone
Robert Warburton
Michael Hart

Phillip Tate
Paul Taylor
Gary Chapman
Richard Hansen
Nick Tomovich
Fumiko Kishi

Doyle Wadley
Arnold Brink
E. Moseley
E. Hutton

P. Michalko
Mark Grajeda
Christel Campa
Marverna Parton

Producers and Other Parties

Vulcan Materials Company

W. E. Hall Company

West Covina Venture, Ltd., A California Limited Partnership

White, June G., Trustee

Whittier, City of

Wilmott, Erma M.

Woodland, Frederick G.

Woodland, Richard J.

Workman Mill Investment Company

Designee

Peter Chiu

Thomas Bunn, Jr.

W. Francke

June Lovelady

Leon Yehuda

Erma Wilmott

Richard Woodland

Richard Woodland

Bruce Lazenby

EXHIBIT "M"

WATERMASTER MEMBERS

FOR CALENDAR YEAR 1973

ROBERT T. BALCH (Producer Member), Chairman
LINN E. MAGOFFIN (Producer Member), Vice Chairman
RICHARD L. ROWLAND (Producer Member), Secretary
BOYD KERN (Public Member), Treasurer
WALKER HANNON (Producer Member)
HOWARD H. HAWKINS (Public Member)
M.E. MOSLEY (Producer Member)
CONRAD T. REIBOLD (Public Member)
HARRY C. WILLS (Producer Member)

STAFF

Carl Fossette, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1974

ROBERT T. BALCH (Producer Member), Chairman
LINN E. MAGOFFIN (Producer Member), Vice Chairman
RICHARD L. ROWLAND (Producer Member), Secretary
BOYD KERN (Public Member), Treasurer
WALKER HANNON (Producer Member)
BURTON E. JONES (Public Member)
M.E. MOSLEY (Producer Member)
CONRAD T. REIBOLD (Public Member)
HARRY C. WILLS (Producer Member)

STAFF

Carl Fossette, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1975

ROBERT T. BALCH (Producer Member), Chairman
LINN E. MAGOFFIN (Producer Member), Vice Chairman
HARRY C. WILLS (Producer Member), Secretary
BOYD KERN (Public Member), Treasurer
WALKER HANNON (Producer Member)
BURTON E. JONES (Public Member)
D.J. LAUGHLIN (Producer Member)
M.E. MOSLEY (Producer Member)
CONRAD T. REIBOLD (Public Member)

STAFF

Carl Fossette, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1976

ROBERT T. BALCH (Producer Member), Chairman
LINN E. MAGOFFIN (Producer Member), Vice Chairman
HARRY C. WILLS (Producer Member), Secretary
BOYD KERN (Public Member), Treasurer
WALKER HANNON (Producer Member)
BURTON E. JONES (Public Member)
D.J. LAUGHLIN (Producer Member)
M.E. MOSLEY (Producer Member)
CONRAD T. REIBOLD (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1977

ROBERT T. BALCH (Producer Member), Chairman
LINN E. MAGOFFIN (Producer Member), Vice Chairman
HARRY C. WILLS (Producer Member), Secretary
CONRAD T. REIBOLD (Public Member), Treasurer
WALKER HANNON (Producer Member)
BURTON E. JONES (Public Member)
BOYD KERN (Public Member)
D.J. LAUGHLIN (Producer Member)
R.H. NICHOLSON, JR. (Producer Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1978

ROBERT T. BALCH (Producer Member), Chairman
LINN E. MAGOFFIN (Producer Member), Vice Chairman
D.J. LAUGHLIN (Producer Member), Secretary
CONRAD T. REIBOLD (Public Member), Treasurer
WALKER HANNON (Producer Member)
BURTON E. JONES (Public Member)
L.E. MOELLER (Producer Member)
R.H. NICHOLSON, JR. (Producer Member)
WILLIAM M. WHITESIDE (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1979

LINN E. MAGOFFIN (Producer Member), Chairman
R.H. NICHOLSON, JR. (Producer Member), Vice Chairman
WILLIAM M. WHITESIDE (Public Member), Secretary
CONRAD T. REIBOLD (Public Member), Treasurer
ROBERT T. BALCH (Producer Member)
ROBERT G. BERLIEN (Producer Member)*
ANTON C. GARNIER (Producer Member)
D.J. LAUGHLIN (Producer Member)**
TRAVIS L. MANNING (Public Member)
L.E. MOELLER (Producer Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

* Elected March 1979 to replace D.J. Laughlin, following his resignation.

** Resigned from Watermaster in February 1979.

FOR CALENDAR YEAR 1980

LINN E. MAGOFFIN (Producer Member), Chairman
R.H. NICHOLSON, JR. (Producer Member), Vice Chairman
WILLIAM M. WHITESIDE (Public Member), Secretary
CONRAD T. REIBOLD (Public Member), Treasurer
ROBERT T. BALCH (Producer Member)
ROBERT G. BERLIEN (Producer Member)
ANTON C. GARNIER (Producer Member)
TRAVIS L. MANNING (Public Member)
L.E. MOELLER (Producer Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1981

LINN E. MAGOFFIN (Producer Member), Chairman
R.H. NICHOLSON, JR. (Producer Member), Vice Chairman
WILLIAM M. WHITESIDE (Public Member), Secretary
CONRAD T. REIBOLD (Public Member), Treasurer
ROBERT T. BALCH (Producer Member)
ROBERT G. BERLIEN (Producer Member)
ANTON C. GARNIER (Producer Member)
TRAVIS L. MANNING (Public Member)
L.E. MOELLER (Producer Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1982

LINN E. MAGOFFIN (Producer Member), Chairman
R.H. NICHOLSON, JR. (Producer Member), Vice Chairman
WILLIAM M. WHITESIDE (Public Member), Secretary
CONRAD T. REIBOLD (Public Member), Treasurer
ROBERT T. BALCH (Producer Member)
ROBERT G. BERLIEN (Producer Member)
ANTON C. GARNIER (Producer Member)
L.E. MOELLER (Producer Member)
ALFRED F. WITTIG (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1983

LINN E. MAGOFFIN (Producer Member), Chairman
R.H. NICHOLSON, JR. (Producer Member), Vice Chairman
ROBERT G. BERLIEN (Producer Member), Secretary
CONRAD T. REIBOLD (Public Member), Treasurer
ROBERT T. BALCH (Producer Member)
DONALD F. CLARK (Public Member)
ANTON C. GARNIER (Producer Member)
L.E. MOELLER (Producer Member)
ALFRED F. WITTIG (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

Exhibit "M"

M - 6

FOR CALENDAR YEAR 1984

LINN E. MAGOFFIN (Producer Member), Chairman
R.H. NICHOLSON, JR. (Producer Member), Vice Chairman
ROBERT G. BERLIEN (Producer Member), Secretary
CONRAD T. REIBOLD (Public Member), Treasurer
ROBERT T. BALCH (Producer Member)
DONALD F. CLARK (Public Member)
ANTON C. GARNIER (Producer Member)
L.E. MOELLER (Producer Member)
ALFRED F. WITTIG (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1985

LINN E. MAGOFFIN (Producer Member), Chairman
R.H. NICHOLSON, JR. (Producer Member), Vice Chairman
ROBERT G. BERLIEN (Producer Member), Secretary
CONRAD T. REIBOLD (Public Member), Treasurer
ROBERT T. BALCH (Producer Member)
DONALD F. CLARK (Public Member)
ANTON C. GARNIER (Producer Member)
L.E. MOELLER (Producer Member)
ALFRED F. WITTIG (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1986

LINN E. MAGOFFIN (Producer Member), Chairman
R.H. NICHOLSON, JR. (Producer Member), Vice Chairman
ROBERT G. BERLIEN (Producer Member), Secretary
CONRAD T. REIBOLD (Public Member), Treasurer
ROBERT T. BALCH (Producer Member)
DONALD F. CLARK (Public Member)
L.E. MOELLER (Producer Member)
REGINALD A. STONE (Producer Member)
ALFRED F. WITTIG (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1987

LINN E. MAGOFFIN (Producer Member), Chairman
REGINALD A. STONE (Producer Member), Vice Chairman
L.E. MOELLER (Producer Member), Secretary
ALFRED F. WITTIG (Public Member), Treasurer
ROBERT T. BALCH (Producer Member)
GERALD J. BLACK (Producer Member)
DONALD F. CLARK (Public Member)
EDWARD R. HECK (Producer Member)
JOHN E. MAULDING (Public Member)

STAFF

Robert G. Berlien, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1988

LINN E. MAGOFFIN (Producer Member), Chairman

REGINALD A. STONE (Producer Member), Vice Chairman

L.E. MOELLER (Producer Member), Secretary

ALFRED F. WITTIG (Public Member), Treasurer

ROBERT T. BALCH (Producer Member)

GERALD J. BLACK (Producer Member)

DONALD F. CLARK (Public Member)

EDWARD R. HECK (Producer Member)

JOHN E. MAULDING (Public Member)

STAFF

Robert G. Berlien, Assistant Secretary-Assistant Treasurer

Ralph B. Helm, Attorney

Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1989

LINN E. MAGOFFIN (Producer Member), Chairman
REGINALD A. STONE (Producer Member), Vice Chairman
GERALD J. BLACK (Producer Member), Secretary
ALFRED F. WITTIG (Public Member), Treasurer
ROBERT T. BALCH (Producer Member)*
DONALD F. CLARK (Public Member)
EDWARD R. HECK (Producer Member)
BURTON E. JONES (Public Member)
NELS PALM (Producer Member)**
THOMAS E. SHOLLENBERGER (Producer Member)

STAFF

Robert G. Berlien, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

* DECEASED APRIL 25, 1989

** Appointed August 24, 1989, for the balance of the calendar year term, to replace deceased member, Robert T. Balch.

FOR CALENDAR YEAR 1990

LINN E. MAGOFFIN (Producer Member), Chairman
REGINALD A. STONE (Producer Member), Vice Chairman
GERALD J. BLACK (Producer Member), Secretary
ALFRED F. WITTIG (Public Member), Treasurer
DONALD F. CLARK (Public Member)
EDWARD R. HECK (Producer Member)
BURTON E. JONES (Public Member)
NELS PALM (Producer Member)
THOMAS E. SHOLLENBERGER (Producer Member)

STAFF

Robert G. Berlien, Assistant Secretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1991

LINN E. MAGOFFIN (Producer Member), Chairman
REGINALD A. STONE (Producer Member), Vice Chairman
GERALD J. BLACK (Producer Member), Secretary
NELS PALM (Producer Member), Treasurer
ROYALL K. BROWN (Public Member)
MARVIN JOE CICHY (Public Member)
EDWARD R. HECK (Producer Member)
C. ROBER KEISER (Public Member)
ANDREW A. KRUEGER (Producer Member)

STAFF

John E. Maulding, Executive Officer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1992

LINN E. MAGOFFIN (Producer Member), Chairman
REGINALD A. STONE (Producer Member), Vice Chairman
GERALD J. BLACK (Producer Member), Secretary
NELS PALM (Producer Member), Treasurer
ROYALL K. BROWN (Public Member)
RICHARD W. CANTWELL (Producer Member)
BURTON E. JONES (Public Member)
C. ROBER KEISER (Public Member)
ANDREW A. KRUEGER (Producer Member)

STAFF

John E. Maulding, Executive Officer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1993

LINN E. MAGOFFIN (Producer Member), Chairman
REGINALD A. STONE (Producer Member), Vice Chairman
GERALD J. BLACK (Producer Member), Secretary
NELS PALM (Producer Member), Treasurer
RICHARD W. CANTWELL (Producer Member)
MARVIN JOE CICHY (Public Member)
FRANK F. FORBES (Public Member)
ANDREW A. KRUEGER (Producer Member)
LEROY E. MOELLER (Public Member)

STAFF

John E. Maulding, Executive Officer
Frederic A. Fudacz, Attorney (Effective February 1993)
Ralph B. Helm, Attorney (Retired January 1993)
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1994

LINN E. MAGOFFIN (Producer Member), Chairman*****
REGINALD A. STONE (Producer Member), Vice Chairman
RICHARD W. CANTWELL (Producer Member), Secretary***
STANLEY D. YARBROUGH (Producer Member), Treasurer
GERALD J. BLACK (Producer Member)*
MARVIN JOE CICHY (Public Member)
FRANK F. FORBES (Public Member)
MANNY J. MAGANA (Producer Member)
P. GEOFFREY NUNN (Producer Member)*****
LEROY E. MOELLER (Public Member)
MICHAEL L. WHITEHEAD (Producer Member)**

STAFF

John E. Maulding, Executive Officer****
Carol Williams, Executive Officer*****
Frederic A. Fudacz, Attorney
Thomas M. Stetson, Engineer

* Mr. Black resigned from Watermaster on February 4, 1994
** Mr. Whitehead was nominated to Watermaster on March 2, 1994
*** Mr. Cantwell was elected as Watermaster Secretary on May 4, 1994
**** Mr. Maulding passed away on March 13, 1994
***** Ms. Williams was appointed Executive Officer on August 3, 1994
***** Mr. Magoffin resigned from Watermaster on August 3, 1994
***** Mr. Nunn was nominated to Watermaster on August 8, 1994

FOR CALENDAR YEAR 1995

REGINALD A. STONE (Producer Member), Chairman
RICHARD W. CANTWELL (Producer Member), Vice Chairman
MANNY J. MAGANA (Producer Member), Secretary
MICHAEL L. WHITEHEAD (Producer Member), Treasurer
JUDITH L. ALMOND (Producer Member)
ROBERT W. BOWCOCK (Producer Member)
MARVIN JOE CICHY (Public Member)
FRANK F. FORBES (Public Member)
LEROY E. MOELLER (Public Member)

STAFF

Carol Williams, Executive Officer
Frederic A. Fudacz, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1996

REGINALD A. STONE (Producer Member), Chairman
RICHARD W. CANTWELL (Producer Member), Vice Chairman
MANNY J. MAGANA (Producer Member), Secretary
MICHAEL L. WHITEHEAD (Producer Member), Treasurer
JUDITH L. ALMOND (Producer Member)
ROBERT W. BOWCOCK (Producer Member)
MARVIN JOE CICHY (Public Member)
FRANK F. FORBES (Public Member)
LEROY E. MOELLER (Public Member)

STAFF

Carol Williams, Executive Officer
Frederic A. Fudacz, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1997

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APPENDIX B. MSGB FIVE-YEAR WATER QUALITY AND SUPPLY PLAN

Five-Year Water Quality and Supply Plan

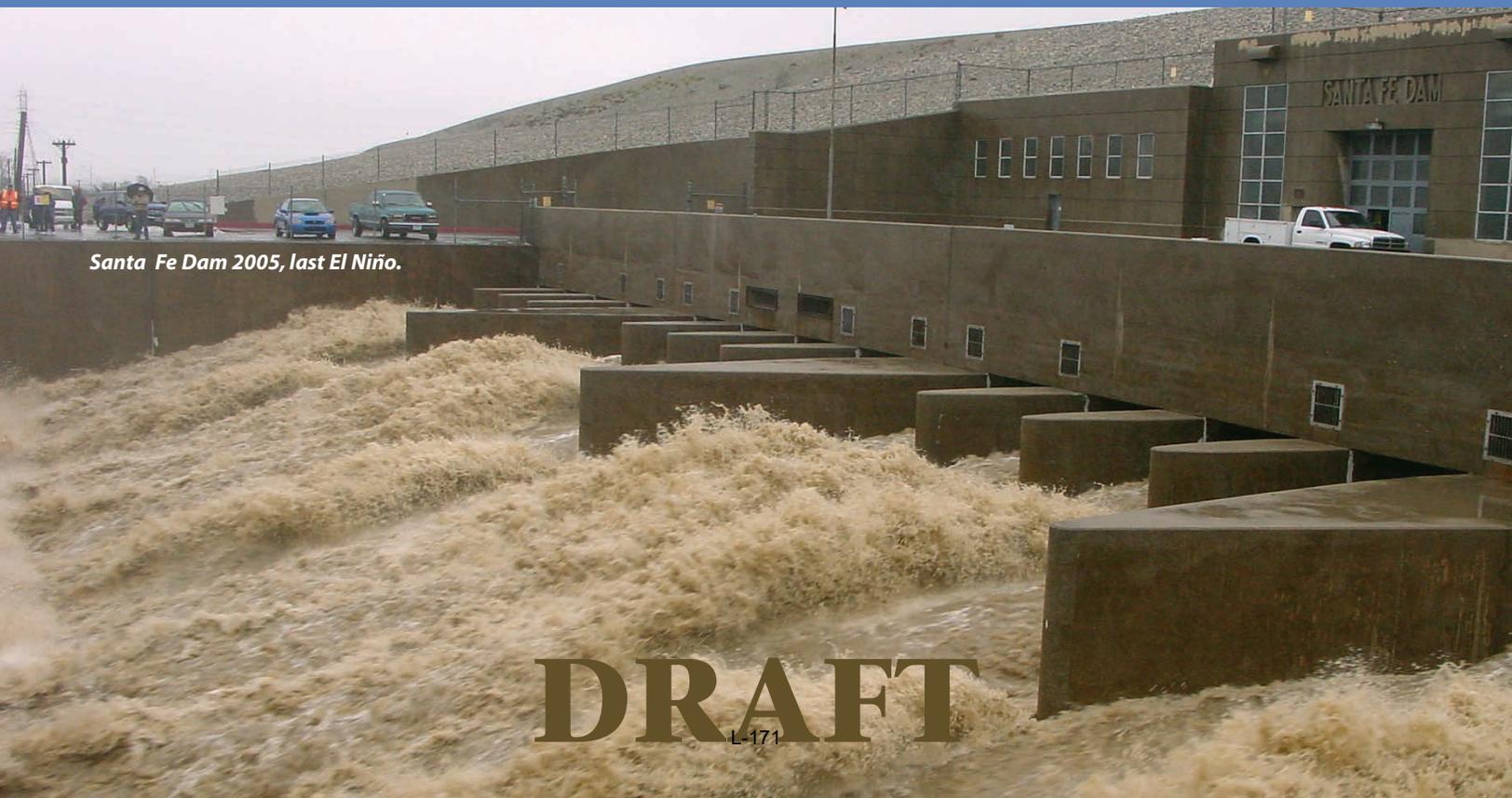


Santa Fe Dam 2015, fourth year of drought.



Main San Gabriel Basin
WATERMASTER

2015-2016 to 2019-20



Santa Fe Dam 2005, last El Niño.

DRAFT

“To assure that pumping does not lead to further degradation of water quality in the Basin, a Five-Year Water Quality and Supply Plan must be prepared and updated annually by Watermaster...”

Section 28 of Watermaster's Rules and Regulations

Five-Year Water Quality and Supply Plan

November 2015



MainSanGabrielBasin
WATERMASTER

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INTRODUCTION

Watermaster prepares and annually updates this Five-Year Water Quality and Supply Plan (Five-Year Plan) in accordance with the requirements of Section 28 of its Rules and Regulations. The objective is to coordinate groundwater-related activities so that both water supply and water quality in the Main San Gabriel Basin (Basin) are protected and improved.

PURPOSE OF THE FIVE-YEAR PLAN

Many important issues are detailed in the Five-Year Plan, including Watermaster's plans to:

1. monitor groundwater supply and quality;
2. develop projections of future groundwater supply and quality;
3. ensure adequate supplemental water is available for groundwater replenishment;
4. review and cooperate on cleanup projects, and provide technical assistance to other agencies;
5. assure that pumping does not lead to further degradation of water quality in the Basin;
6. address emerging contaminants in the Basin;
7. develop a cleanup and water supply program consistent with the U.S. Environmental Protection Agency (USEPA) plans for its San Gabriel Basin Superfund sites; and
8. continue to perform responsibilities under the Baldwin Park Operable Unit (BPOU) Project Agreement relating to project administration and performance evaluation.

WATERMASTER BACKGROUND

The Los Angeles County Superior Court created the Main San Gabriel Basin Watermaster in 1973 to resolve water issues that had arisen among water users in the San Gabriel Valley. Watermaster's mission was to generally manage the water supply of the Main San Gabriel Groundwater Basin.

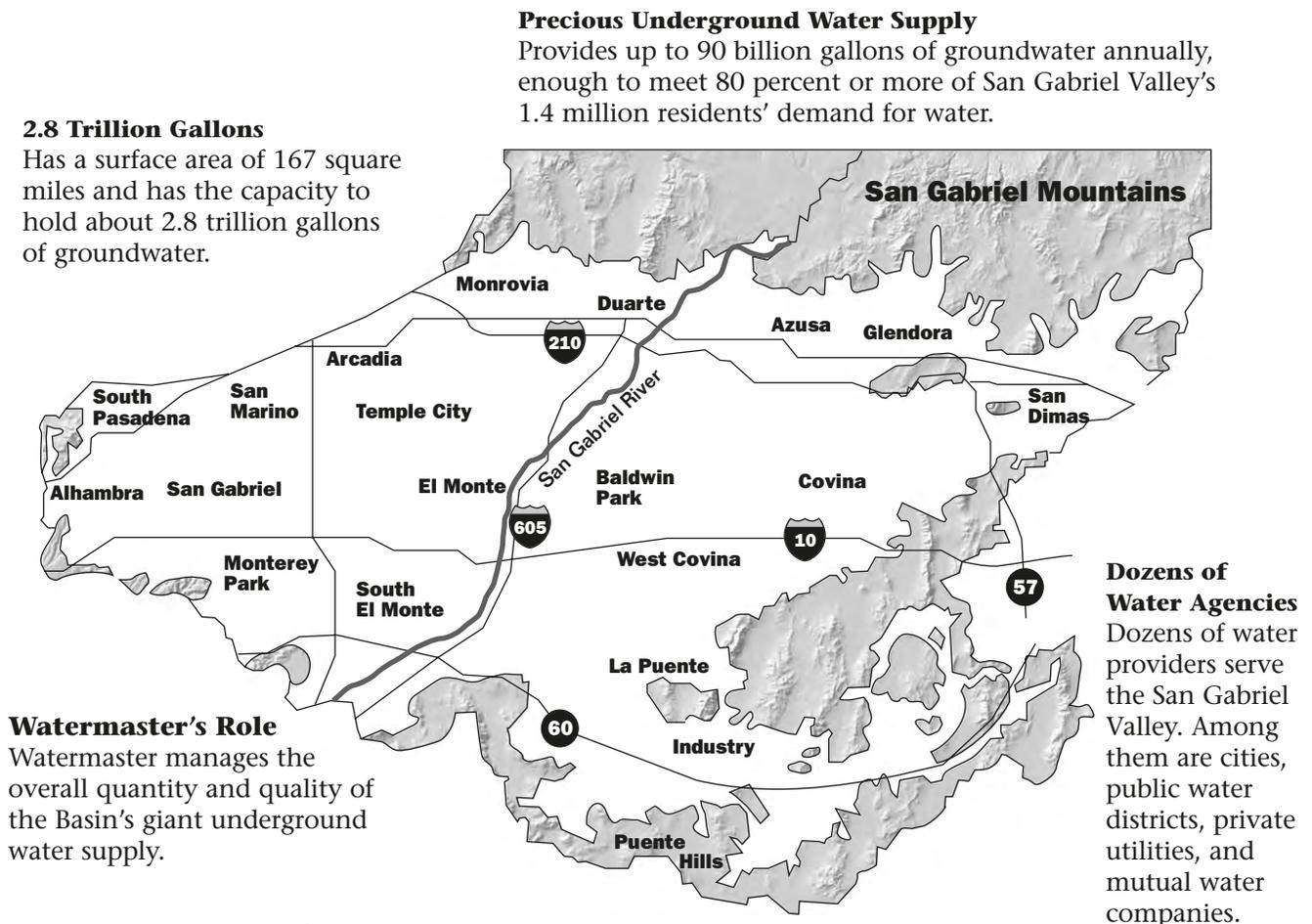
During the late 1970s and early 1980s, significant groundwater contamination was discovered in the Basin. The contamination was caused in part by past practices of local industries that had inappropriately disposed of industrial solvents, as well as by infiltration of nitrates from an earlier agricultural period. Cleanup efforts for industrial contamination were undertaken at the local, state, and federal levels.

WATERMASTER RECEIVES WATER QUALITY RESPONSIBILITIES

By 1989, local water agencies adopted a joint resolution concerning water quality issues, which stated that Watermaster should coordinate local activities aimed at preserving and restoring the quality of groundwater in the Basin. The joint resolution also called for a cleanup plan.

In 1991, the Los Angeles County Superior Court granted Watermaster the authority to control pumping for water quality purposes. Accordingly, Watermaster added Section 28 to its Rules and Regulations regarding water quality management. The new responsibilities included: developing this Five-Year Water Quality and Supply Plan; updating it annually, and submitting it to the California Regional Water Quality Control Board Los Angeles Region (Regional Board); and making it available for public review by November 1 of each year.

Figure 1. AREA COVERED BY MAIN SAN GABRIEL BASIN



CURRENT WATER SUPPLY CONDITIONS

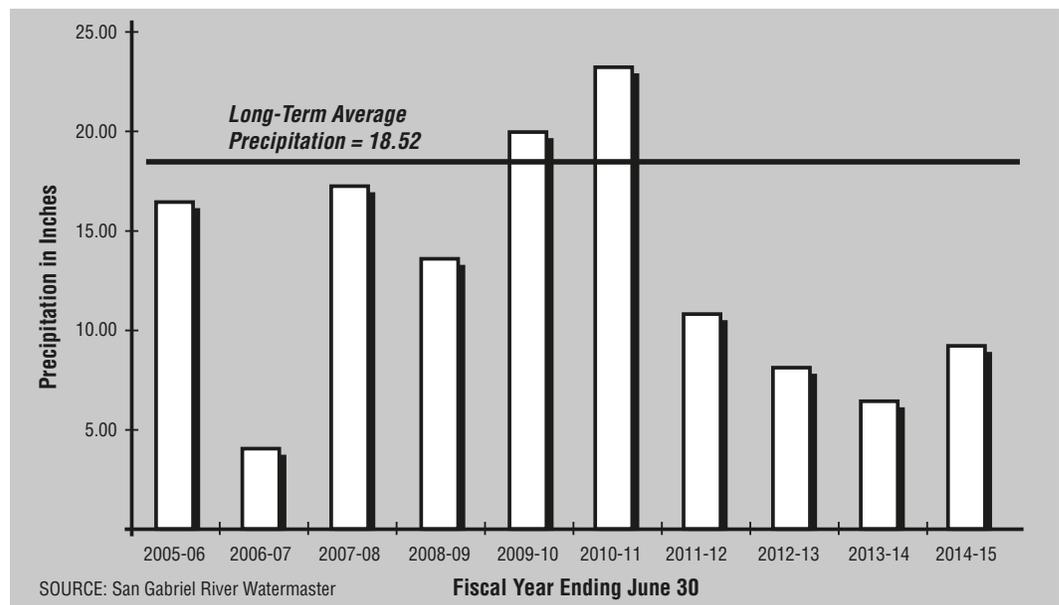
Rainfall in the San Gabriel Valley was well below average. As a result, replenishment of storm runoff was also below average. Consequently, the groundwater level decreased by about 10 feet during fiscal year 2014-15.

WATER SUPPLY INFLOWS DURING 2014-15

VALLEY RECEIVES BELOW-AVERAGE RAINFALL

In 2014-15 the San Gabriel Valley received about 9 inches of rain, which is about 49 percent of the long-term average of 18.52 inches.

Figure 2. RAINFALL BELOW LONG-TERM AVERAGE



The long-term average rainfall is 18.52 inches. The rainfall total is made up of an average taken from four stations located in San Dimas, Diamond Bar, El Monte and Pasadena.

LOCAL STORMWATER CAPTURE

6 PERCENT OF LONG-TERM AVERAGE

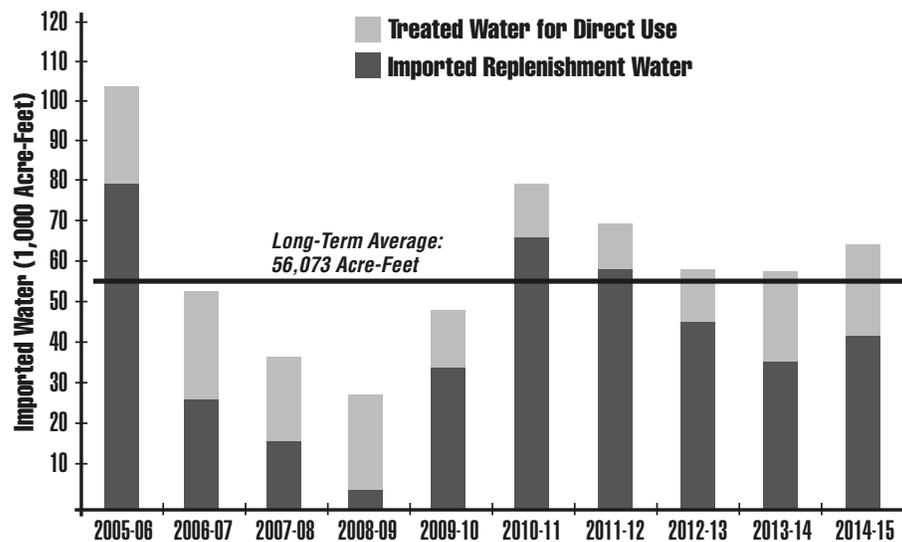
Fiscal year 2014-15 is the fourth consecutive year of below average rainfall. During fiscal year 2014-15, rainfall was about 49 percent of average and contributed to storm water capture of about 6,600 acre-feet, which is about 6 percent of the long-term average. In addition, as of June 30, 2015, only about 20,000 acre-feet of local storm runoff remained in storage in reservoirs in the San Gabriel Canyon. Typically, about 13,000 acre-feet is in the reservoir at the beginning of the storm season in October. That would leave only about 7,000 acre-feet of water for groundwater replenishment—representing a scant ten-inch increase in groundwater elevation within the Basin.

LOCAL WATER USE BELOW AVERAGE

Total water use within the San Gabriel Valley consists of groundwater production, surface water diversions, treated imported water deliveries, and recycled water for irrigation projects. During fiscal year 2013-14, total water use was about 267,500 acre-feet. During fiscal year 2014-15, total water use was about 235,800 acre-feet, consisting of about 196,400 acre-feet of groundwater production, 11,900 acre-feet of treated local surface water, 22,500 acre-feet of treated imported water, and 5,000 acre-feet of recycled water. The decrease in total water use from the prior year (about 35,000 acre-feet) is due to a greater awareness by consumers of the drought conditions and increased water conservation efforts by those consumers. Total water use is about 12 percent lower than the long-term average of about 267,000 acre-feet.

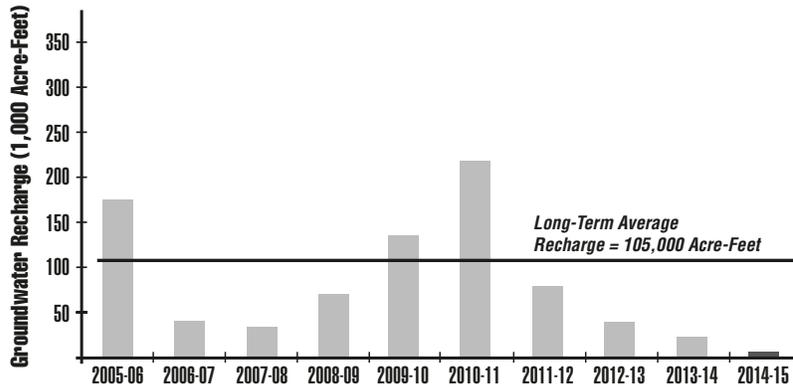
Main San Gabriel Basin Watermaster annually establishes an Operating Safe Yield (OSY), which is based on prevailing hydrologic conditions in the San Gabriel Valley. Production in excess of the OSY is subject to an assessment that is used to purchase untreated imported water to replenish the Basin. Overproduction during fiscal year 2014-15 was 47,700 acre-feet, which is about 20 percent greater than the 10-year average of 39,700 acre-feet.

Figure 3. IMPORTED WATER DELIVERIES ABOVE LONG-TERM AVERAGE



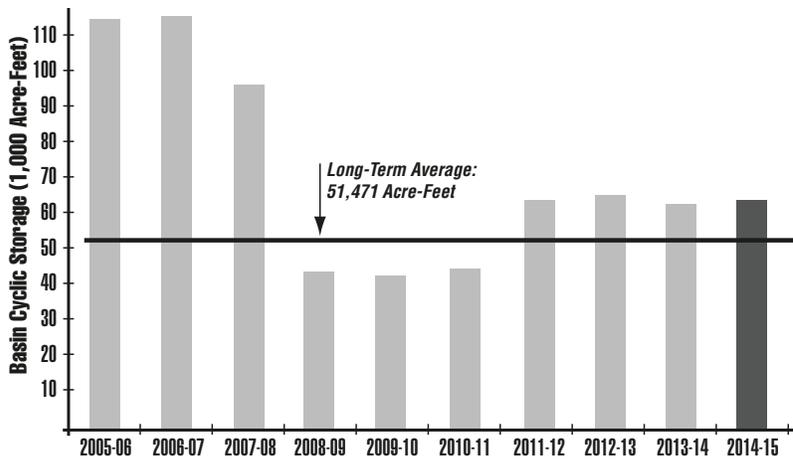
2014-15 Imported Water. Imported water deliveries (treated and untreated) totaled about 64,000 acre-feet for direct use and groundwater replenishment. This is 14 percent higher than the long-term average.

Figure 4. LOCAL WATER CONSERVED ABOUT 6% OF AVERAGE



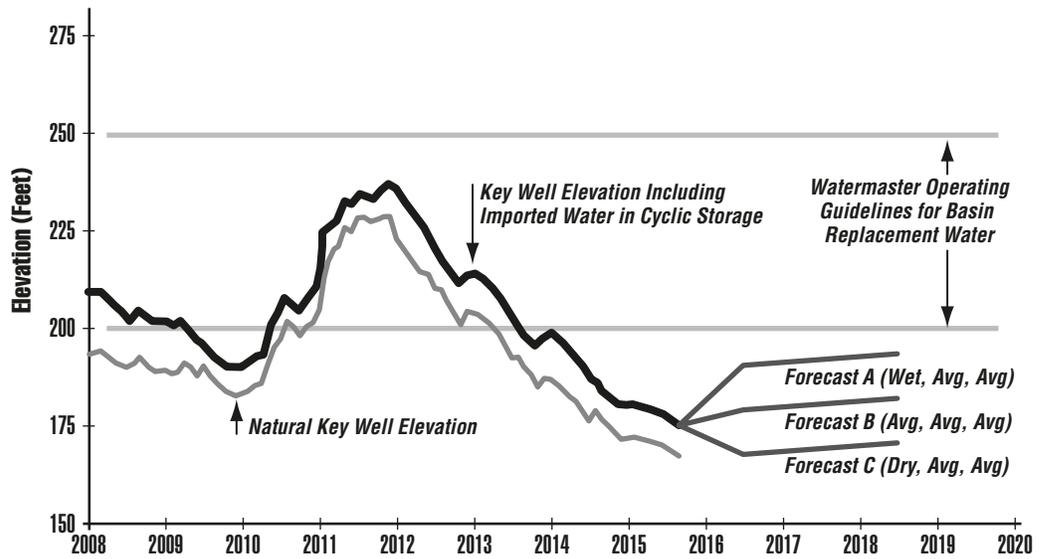
Approximately 6,600 acre-feet of local water was conserved during 2014-15, which is about 6 percent of the long-term average of 105,000 acre feet.

Figure 5. CYCLIC STORAGE REMAINS STEADY



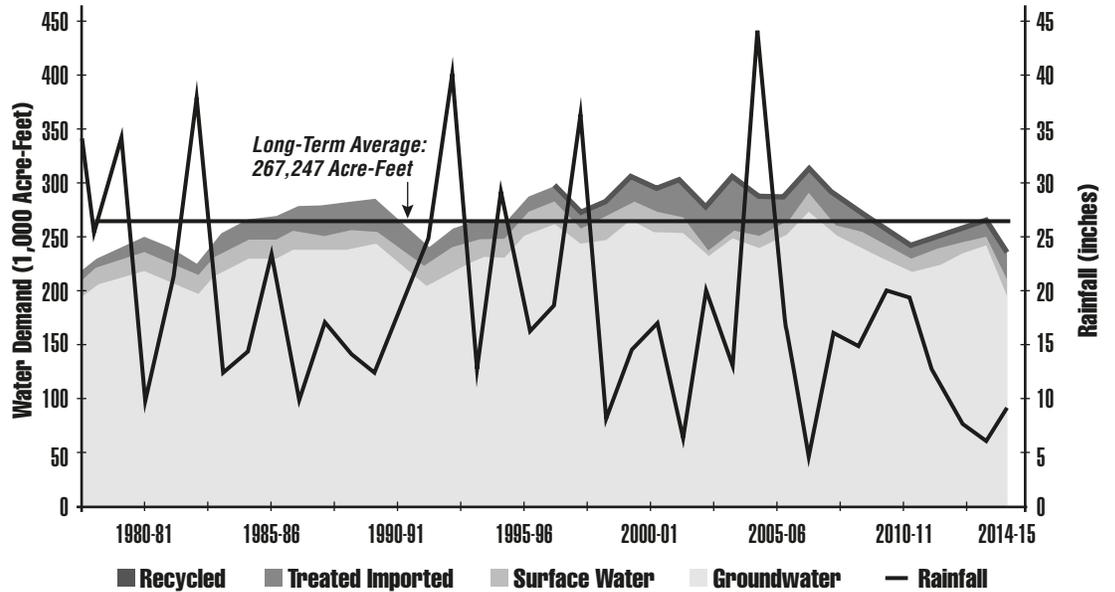
As of June 30, 2015, a total of about 61,900 acre-feet was in Cyclic Storage, consisting of about 14,300 acre-feet of Three Valleys Municipal Water District, about 3,000 acre-feet of San Gabriel Valley Municipal Water District, about 5,000 acre-feet of Upper San Gabriel Valley Municipal Water District, about 7,000 acre-feet of Watermaster, and about 32,600 acre-feet of Producer Cyclic Storage. Cyclic Storage, as of June 30, 2014, has increased by about 500 acre-feet since the end of fiscal year 2014-14. The long-term average is about 51,500 acre-feet.

Figure 6. CYCLIC STORAGE AND RAINFALL IMPACTS ON KEY WELL



The additional water provided by cyclic storage (shown with the black line) helps local agencies meet their future replacement water obligations. This graph also forecasts Key Well elevations for three scenarios: upcoming: wet years, average years and dry years.

FIGURE 7. TOTAL WATER DEMAND DECREASED SIGNIFICANTLY



Long-term average water demand is about 267,247 acre-feet. During fiscal year 2014-15 the total demand was about 235,800 acre-feet, made up of groundwater (196,400 acre-feet), surface water (11,900 acre-feet), imported treated water (22,500 acre-feet), and recycled water (5,000 acre-feet).

OPERATING SAFE YIELD

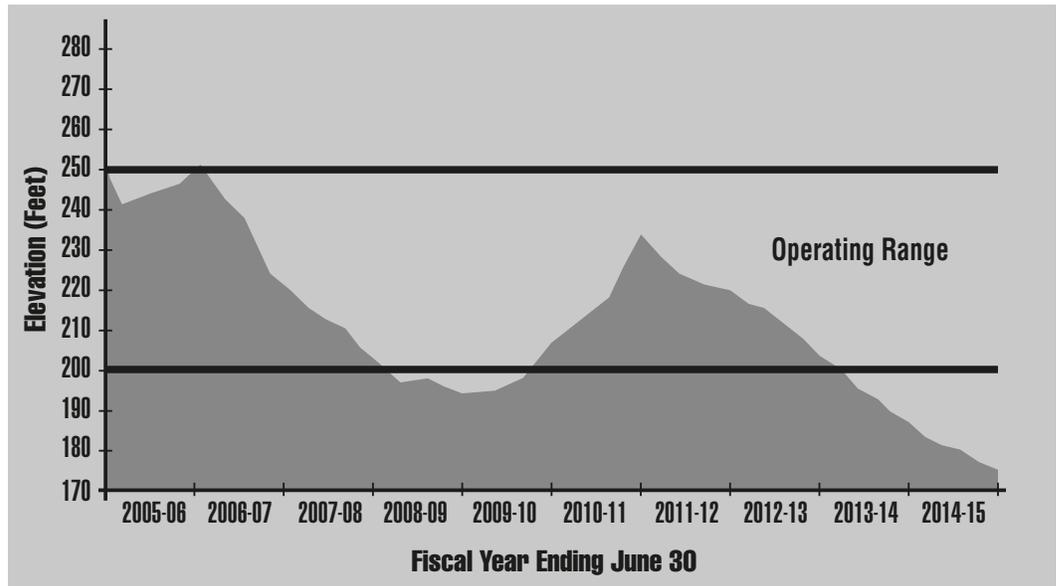
Main San Gabriel Basin Watermaster annually establishes an Operating Safe Yield (OSY), which is based on prevailing hydrologic conditions in the San Gabriel Valley. Production in excess of the OSY is subject to an assessment that is used to purchase untreated imported water to replenish the Basin. Overproduction during fiscal year 2014-15 was about 47,700 acre-feet, which is about 28 percent higher than the long-term average of 37,200 acre-feet. The OSY was set at 150,000 AF for fiscal year 2014-15. The historical long-term average OSY is about 195,000 AF. During fiscal year 2014-15, the OSY was set using a management approach that seeks to set the OSY within a narrower range than previously. This is part of the overall effort to manage the Basin in a way that makes the water supply more stable and costs more predictable in both wet and dry years.

Watermaster aggressively responded to the decreasing trend of the groundwater level at the Key Well during fiscal year 2014-15 by establishing an OSY of 150,000 acre-feet for fiscal year 2015-16 (identical to the OSY for fiscal year 2014-15 and about 45,000 acre-feet below the long-term average of about 195,000 acre-feet). The reduced OSY provides Watermaster with a mechanism to purchase additional replenishment supplies for the Basin, compared to the long-term average OSY.

KEY WELL BELOW OPERATING RANGE

The Baldwin Park Key Well is used as the benchmark for determining how the groundwater level for the entire Basin is trending. Pursuant to the Judgment, Watermaster manages the Basin to maintain the groundwater level at the Key Well between 200 feet and 250 feet to the extent possible. Below-average rainfall between fiscal years 2005-06 and 2008-09, coupled with below-average storm runoff, contributed to the Baldwin Park Key Well water level falling from about 248.4 feet in June 2005 to a historical low (at that time) of 189.2 feet on December 3, 2009. Two consecutive years of above-average rainfall (20 inches during fiscal year 2009-10 and 24 inches during fiscal year 2010-11), contributed to increase the groundwater elevation at the Key Well to about 233.5 feet as of June 30, 2011. However, four consecutive years of below-average rainfall, below average stormwater runoff, and local groundwater production resulted in a decrease in the groundwater elevation at the Key Well to 177.5 feet as of June 30, 2015, despite delivery of about 41,000 acre-feet per year of untreated imported water and reduced production. This level is about 23 feet below the “low” end of the operating range for Watermaster, about 10 feet lower than the year before, and represents a new historic low groundwater elevation at the Key Well.

Figure 8. KEY WELL ELEVATIONS DURING THE LAST TEN YEARS



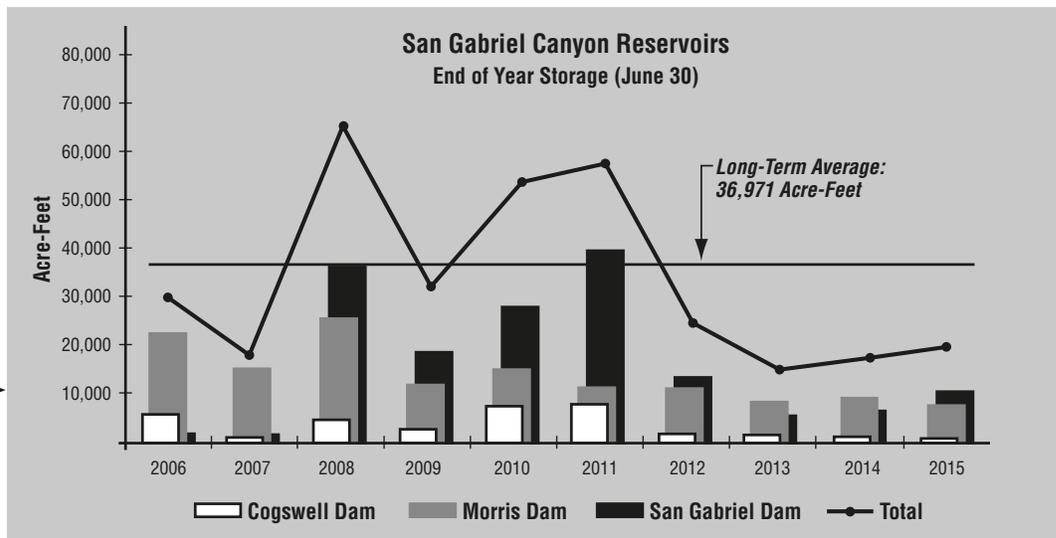
The groundwater elevation at the Key Well on June 30, 2015, was about 177.5 feet, which is below the Basin’s operating range of 200 to 250 feet and represents a new historic low.

DECREASE IN WATER STORED IN CANYON RESERVOIRS

Cogswell, San Gabriel, and Morris reservoirs have a combined maximum storage capacity of about 85,000 acre-feet. At the end of the 2014-15 fiscal year, about 20,000 acre-feet of water was stored in these reservoirs. This is about 4,000 acre-feet more than the previous year, representing about 55 percent of the long-term average of about 37,000 acre-feet of water in storage at the end of the fiscal year, but only about 25 percent of total reservoir capacity. In addition, about 6,600 acre-feet of local runoff was released from storage in local reservoirs for recharge into the groundwater basin during fiscal year 2014-15.

Figure 9. WATER STORED IN SAN GABRIEL CANYON RESERVOIRS

Total water stored in San Gabriel Canyon Reservoirs at the end of the fiscal year was 20,000 acre-feet, about 55 percent of the long-term average.



BASIN REPLENISHMENT ACTIVITIES

Historical Basin management practices encouraged Producers to maximize groundwater production instead of relying on treated imported water to address water demands in excess of Producer's water rights. Under normal conditions, Watermaster quantifies groundwater production in excess of Producers' water rights, and arranges to have an equal amount of untreated imported water delivered to replenish the overproduction from the Basin at a "Full Service" untreated water rate. However, in response to the recent drought, Watermaster has implemented additional actions to manage Basin groundwater supplies.

IN-LIEU REPLENISHMENT PROGRAM

As a result of four consecutive years of below average precipitation, untreated imported water supplies have been significantly reduced. In an effort to manage the impact of reduced untreated imported water available for Basin replenishment, Watermaster developed a program to temporarily shift groundwater demand (in excess of Producers' water rights) to treated imported water to reduce the need for untreated imported water deliveries. The In-lieu Program was implemented during fiscal year 2014-15, and about 5,000 acre-feet of groundwater production was shifted to treated imported water.

IMPLEMENTATION OF WATER RESOURCE DEVELOPMENT PROGRAM

Watermaster adopted Resolution No. 05-14-263, which established a Water Resource Development Assessment (RDA), that was applied to all production during fiscal year 2014-15. The purpose of the RDA is to establish a fund from which untreated imported water may be purchased and delivered to the Basin. It is intended to create a "reservoir" of water that is available to assist in the management of the Basin in the event untreated water is not available in the future as a result of a short-term Statewide emergency.

IMPORTED WATER ALLOCATION

Watermaster and Producers recognized prolonged drought conditions will adversely impact untreated imported water availability. Consequently, Watermaster took proactive measures to increase Producer Cyclic Storage from about 15,000 acre-feet as of the end of June 2010 to 42,000 acre-feet as of June 2015. In response to four consecutive years of drought conditions, the Metropolitan Water District of southern California (MWD) implemented a "Water Supply Allocation Program" (WSAP). The WSAP provides an untreated imported water allocation to Upper District of about 25,000 acre-feet and about 4,000 acre-feet to Three Valleys District. Consequently, additional untreated imported water requirements which may be incurred may be deducted from pre-deliveries made by Watermaster and Producers to Cyclic Storage accounts.

In addition to those programs noted above, Watermaster is actively pursuing alternative means of Basin replenishment including:

- encouraging consumer-based conservation efforts to reduce groundwater production;
- securing alternative Supplemental Water supplies and maximizing delivery of imported water from State Water Project contractors;
- pursuing a firm supply of treated recycled water;
- implementing tighter coordination and management to allow replenishment of imported water even during rainy periods, and finding new opportunities to bring in imported water,
- instituting use of new, more flexible financial tools such as mid-year assessments, pre-purchase of water, and other tools to increase water imports, and;
- developing criteria for potential new water storage and export programs.

PROJECTED GROUNDWATER DEMANDS

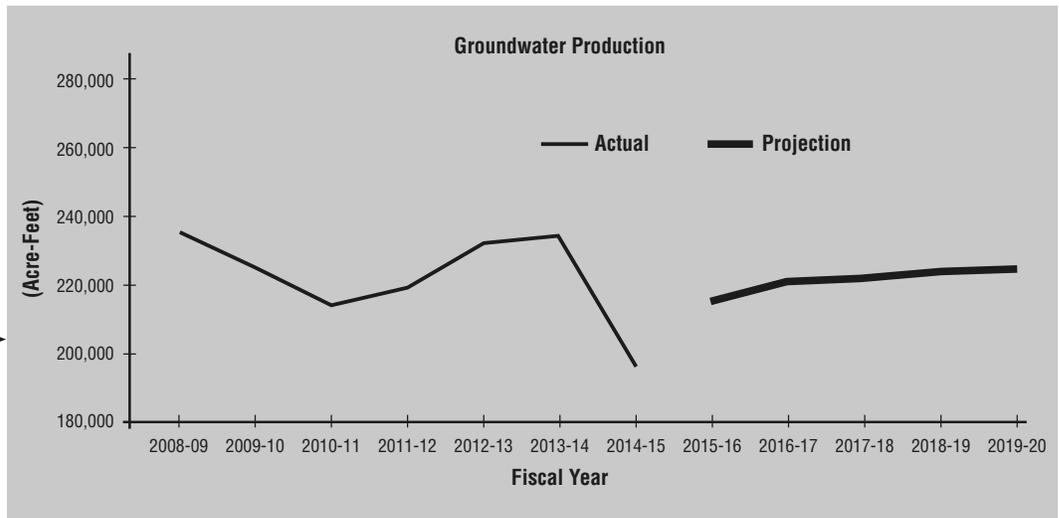
PRODUCER ESTIMATES

Section 28 directs each Producer to submit a report to Watermaster detailing its projected water supply and water production requirements over the following five years. Projections were received from 21 Producers, accounting for about 88 percent of the groundwater production from the Basin.

For those Producers who did not submit projections, Watermaster provided an estimate based on the assumption that each Producer had an aggregate projected growth rate that was the same as those Producers who did submit projections. Projected groundwater production is shown in Appendix A. Figure 10 shows the total projected and historical groundwater production from the Basin since 2007-08.

Figure 10. PROJECTED AND HISTORICAL WATER PRODUCTION

Water production has decreased over the prior year, due in part to consumer water conservation.



Total groundwater production for the 2014-15 fiscal year from the Basin was 196,400 acre feet, which is significantly lower than the previous year’s production of 233,700 acre-feet. The decrease in groundwater production is primarily the result of increased water conservation at the consumer level. Groundwater production is influenced by a variety of conditions, including population, seasonal precipitation, groundwater contamination, and availability of surface water. Excluding the impacts of seasonal precipitation, groundwater production had experienced a gradual long-term increase, consistent with increasing population, as shown on Figure 7. The impacts of groundwater contamination during the 1980s and 1990s resulted in reduced groundwater production, offset by an equal increase of treated imported water purchases. Since the late 1990’s groundwater production and treatment facilities have become operational, enabling water purveyors to resume use of groundwater. However, since the late-2000s, there has been a significant decrease in groundwater (and overall) demand, which is likely the result of increased water conservation by consumers.

CURRENT WATER QUALITY CONDITIONS

Groundwater delivered to customers continues to be of high quality and always meets state and federal drinking water standards. However, a number of contaminants in areas of the Basin require careful monitoring and treatment before the water is served for domestic use. These contaminants include a variety of industrial solvents referred to as Volatile Organic Compounds, or VOCs. Another common contaminant found in the Basin is nitrate, primarily from fertilizers used during the Valley's agricultural period.

Since 1997, additional contaminants have been detected: perchlorate, a solid rocket fuel ingredient; N-nitrosodimethylamine (NDMA), associated with liquid rocket fuel; 1,2,3-trichloropropane (1,2,3-TCP), a degreasing agent; and 1,4-dioxane, a stabilizer for chlorinated solvents.

In response to the detection of these contaminants, Watermaster and local water entities aggressively pursued construction of treatment facilities to control the spread of contaminants, and continue providing high quality water to consumers, which meets all state and federal drinking water standards. This policy of remediation and reuse both preserves a valuable resource, particularly in the midst of the current drought, and reduces the overall cost of groundwater cleanup. Initially, a number of VOC treatment facilities were constructed, while excessive nitrate concentrations were blended with higher quality water to acceptable levels. Since the detection of perchlorate, NDMA, 1,2,3-TCP, and 1,4-dioxane, Watermaster has been instrumental in the successful operation of treatment facilities to treat those contaminants.

While only present in limited parts of the Basin, these chemicals pose difficult challenges to water Producers. When the chemicals were initially detected, Watermaster responded vigorously by working closely with the local water community to sponsor research, as well as to design, fund, and construct cleanup projects as rapidly as possible rather than wait for the USEPA and the firms named as responsible for the contamination. Watermaster subsequently led negotiations that resulted in the Baldwin Park Operable Unit (BPOU) Project Agreement, including reimbursement for groundwater cleanup costs from certain parties responsible for the contamination. Under the BPOU Agreement, Watermaster is responsible for overall project coordination and administration, groundwater monitoring, and compliance with USEPA reporting requirements. Watermaster also participates in decisions regarding technology selection, construction, and operations. Now that all of the BPOU treatment facilities are operational, Watermaster also monitors the BPOU project's performance in containing and removing contamination.

In addition cleanup activities with the BPOU, Watermaster coordinates and maintains records on groundwater cleanup efforts within the Puente Valley Operable Unit (PVOU), the El Monte Operable Unit (EMOU), South El Monte Operable Unit (SEMOU), and the Area 3 Operable Unit (Area 3 OU). The location of these Operable Units is shown on Figure 11.

PRIMARY CONTAMINANTS IN THE GROUNDWATER BASIN VOLATILE ORGANIC COMPOUNDS AND NITRATES

VOCs and nitrates are the most prevalent contaminants found in the Basin. Intensive monitoring and research concerning these two types of contaminants have been underway for many years. The location and cleanup methods for VOCs are generally well understood; during fiscal year 2014-15, 30 plants treated about 25 billion gallons (about 78,300 acre-feet), as shown in Appendix E, of VOC-contaminated water.

Note in Figure 12 that although VOC contamination is substantial, it is centered in just a few areas, leaving a large portion of the Basin unaffected. Water containing nitrates above the Maximum Contaminant Level (MCL) is either blended with other water sources or not used. Figure 13 indicates that nitrates, similar to VOCs, are centered in a few areas and have the highest concentrations in the eastern portion of the Basin away from the most productive pumping areas.

PERCHLORATE

In January 2002, the State Water Resources Control Board, Division of Drinking Water (DDW) formerly the California Department of Public Health (CDPH), and prior to that the California Department of Health Services, lowered the Notification Level (NL) for perchlorate from 18 to 4 parts per billion, and a total of 22 wells were removed from service due to unacceptable levels of perchlorate. DDW subsequently raised the NL to 6 parts per billion in March 2004 and later established an MCL of 6 parts per billion during October 2007. Watermaster played a key role in development of the first treatment facility to remove perchlorate from drinking water. Ion-exchange technology treatment facilities were operational at five sites in the BPOU and at two facilities in other parts of the Basin during fiscal year 2014-15.

NDMA

During 1998, eight local wells were found to contain levels of NDMA above the NL at that time of 2 parts per trillion. Five of the wells with measurable levels of NDMA had already been taken out of service for other reasons, and the other three were put on inactive status once NDMA was detected. DDW subsequently raised the NL to 10 parts per trillion. As with perchlorate, Watermaster played a key role in the construction of NDMA treatment facilities in the BPOU area of the Basin. Five facilities were operational during fiscal year 2014-15.

Figure 11. LOCATION MAP OF USEPA OPERABLE UNITS

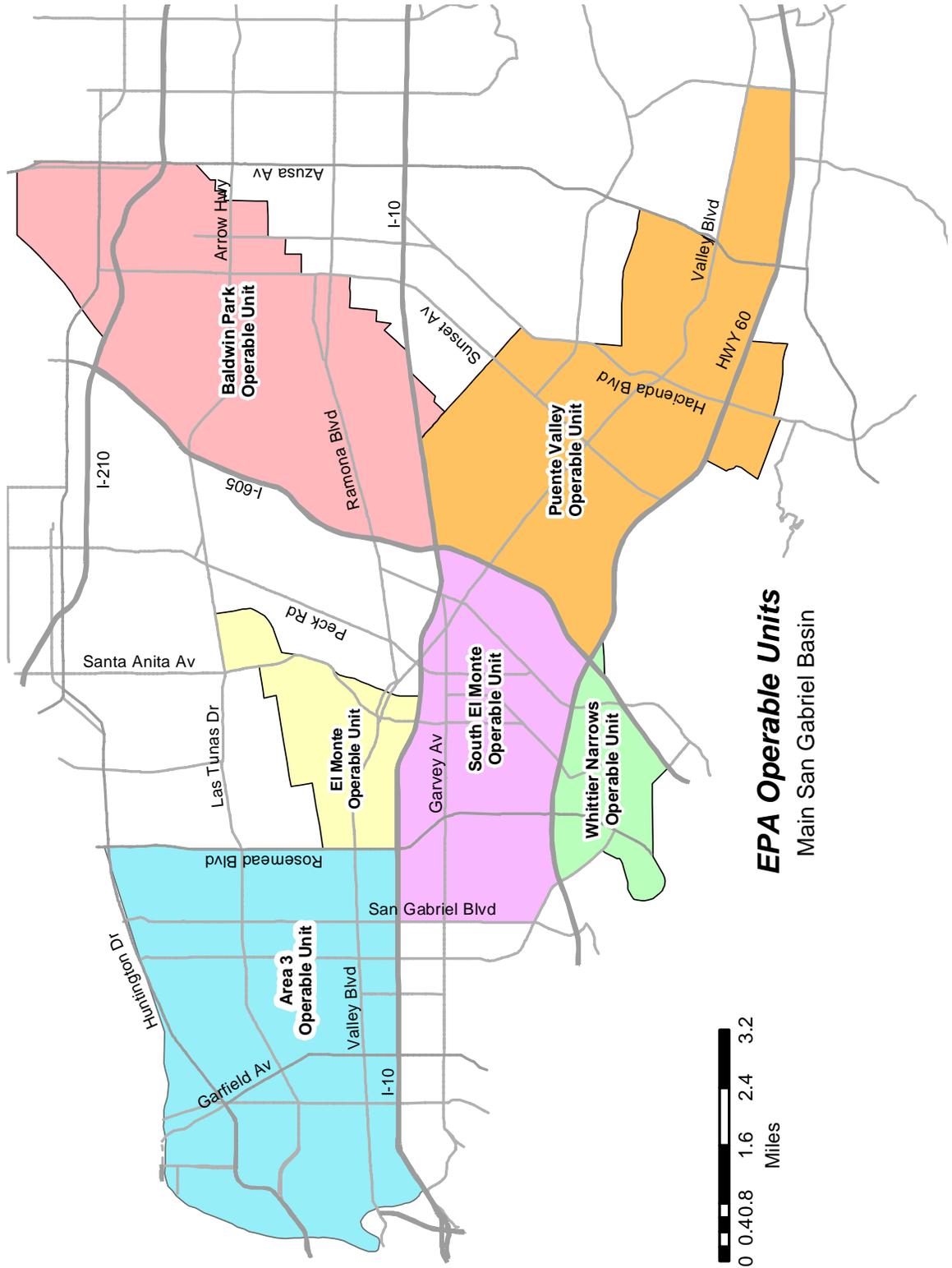


Figure 12. VOLATILE ORGANIC COMPOUND LEVELS IN GROUNDWATER THROUGHOUT THE BASIN

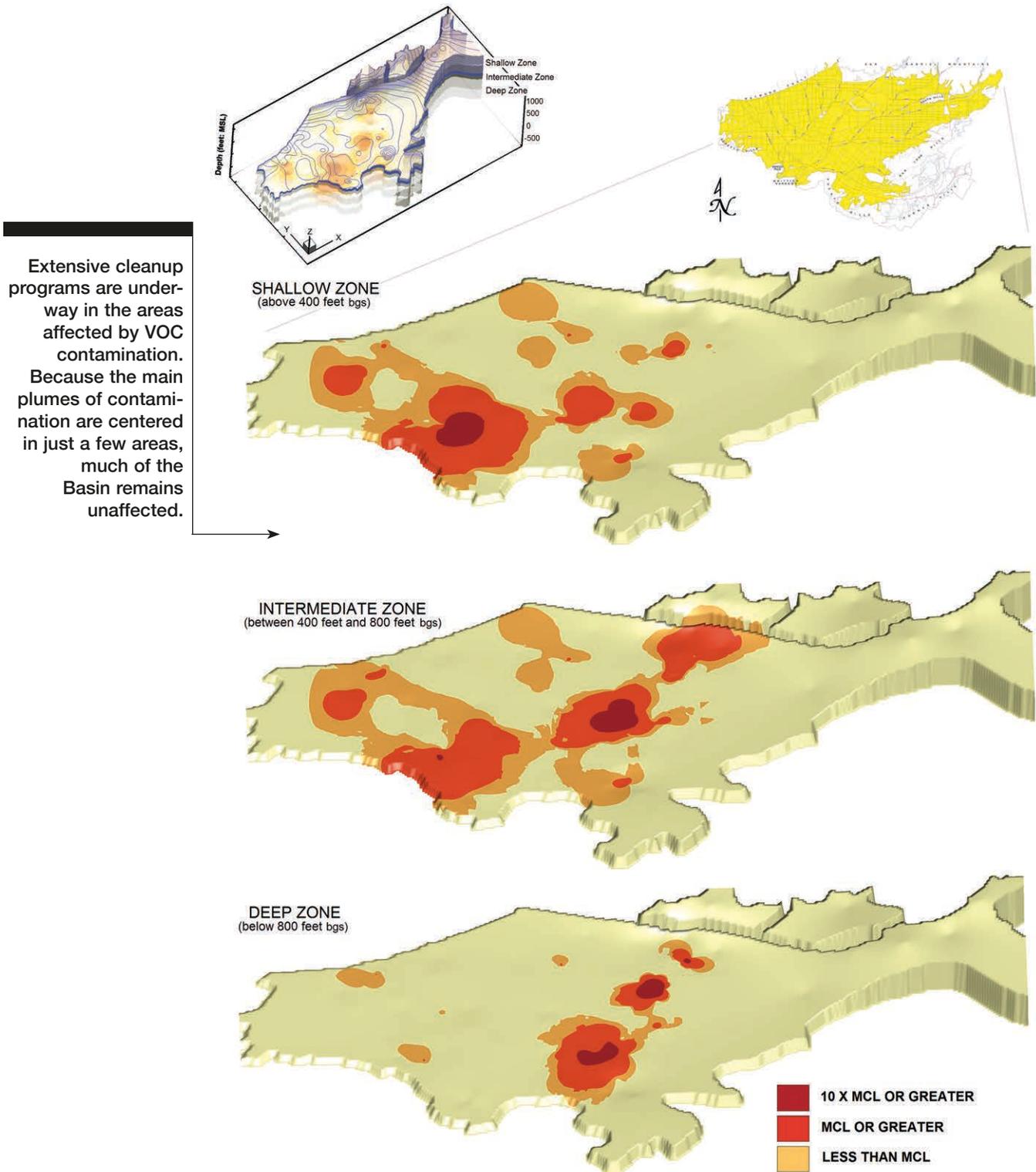
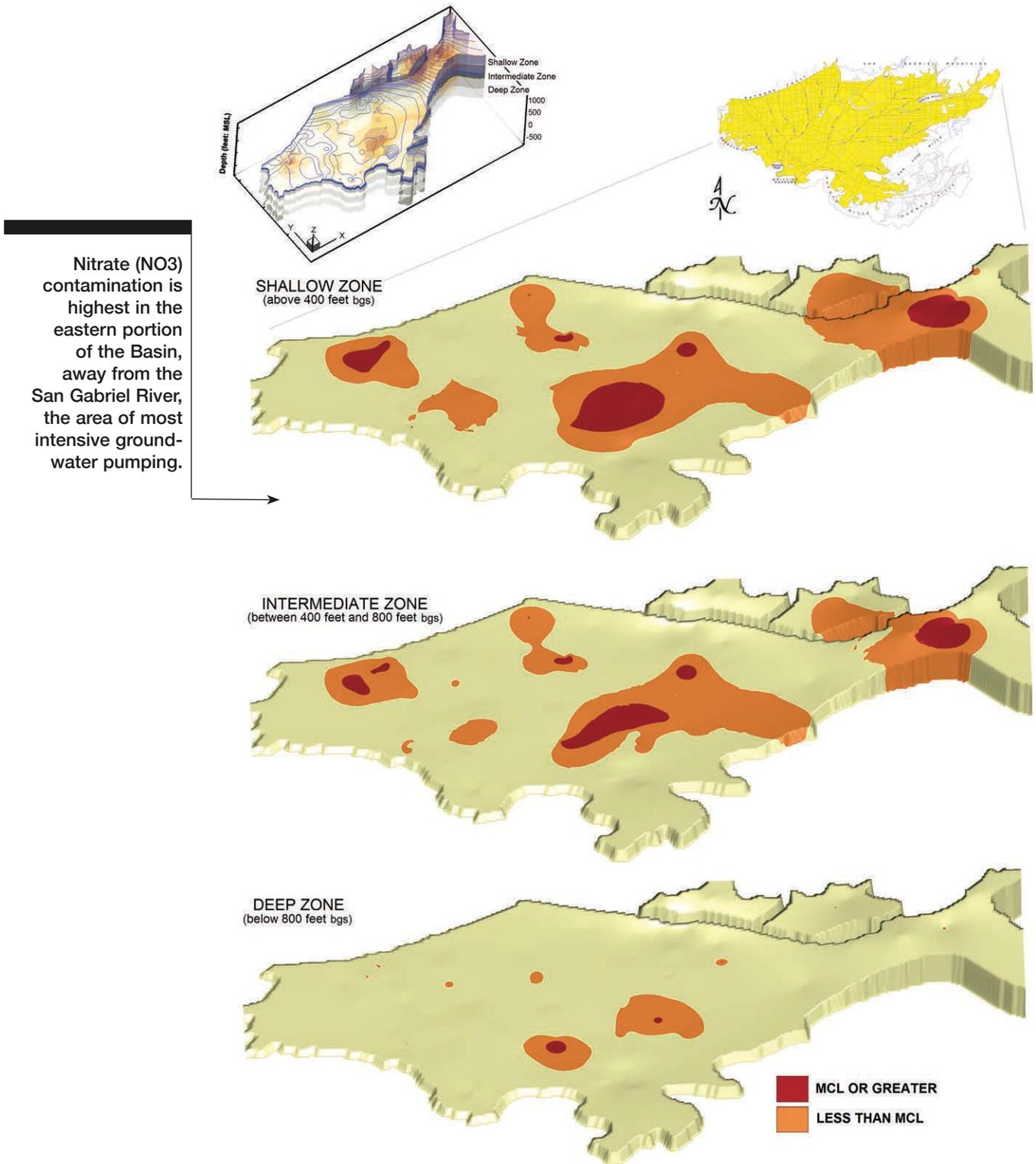


Figure 13. NITRATE LEVELS IN GROUNDWATER THROUGHOUT THE BASIN



TRICHLOROPROPANE (1,2,3-TCP)

The compound 1,2,3-trichloropropane is a degreasing agent that has been detected in the groundwater above the NL of 5 parts per trillion, primarily in the BPOU and the Area 3 OU. It was detected in the BPOU during the winter of 2006, and its presence delayed use of one treatment facility for potable purposes. Following detection, DDW indicated that the appropriate treatment technology is liquid phase granular activated carbon. Subsequently, Watermaster, in cooperation with its BPOU project partners, worked to construct treatment facilities to remove 1,2,3-TCP from the groundwater to make it suitable for potable uses. Those facilities were operational during fiscal year 2014-15.

HEXAVALENT CHROMIUM (CR6)

Cr 6 is a naturally occurring substance that has been detected in drinking water wells throughout the Basin. Historically, it was included in the analytical test results for Total Chromium, which has an MCL of 50 parts per billion. Effective July 1, 2014, DDW established a new MCL (exclusively for Cr6) of 10 parts per billion. In addition to being a naturally occurring substance, Cr6 is also associated with industrial sources of contamination, such as metal plating. Watermaster is coordinating with regulators to identify Basinwide Cr6 concentrations in an effort to establish a background water quality, although Cr6 concentrations in all active wells are below the MCL.

WELLS ASSESSED FOR VULNERABILITY TO CONTAMINATION

One of the primary purposes of the Five-Year Plan is to identify wells in the Basin that are vulnerable to contamination. A well is considered vulnerable if the concentration of contaminants has ever reached 50 percent of the NL or MCL allowed by state drinking water regulations. Watermaster reviews: water quality tests performed on each well, regional water quality conditions, and contaminant migration patterns in an effort to project which wells may be vulnerable over the next five years, and participates in plans to construct treatment facilities, as needed.

WATER QUALITY PROTECTION PLAN

Watermaster maintains a Water Quality Protection Plan that provides an early warning to Producers of potential increases in contaminant levels. The Water Quality Protection Plan also provides suggested alternative sources of supply, and proposes long-term actions to solve the contamination problem(s) without contributing to the migration of contaminants in the Basin.

FIVE-YEAR WATER QUALITY AND SUPPLY PLAN

The Main San Gabriel Basin’s designation as a federal Superfund site was prompted by the discovery of widespread VOC contamination. Cleanup plans were developed to contain and remove VOCs from groundwater, and Watermaster, along with various other local water agencies, water Producers and regulators, have worked to develop the expertise, financing and treatment technologies to effectively address Basin wide cleanup of VOCs.

Watermaster facilitates groundwater cleanup projects that also meet water supply needs.

The discovery of perchlorate and NDMA, however, complicated the existing VOC cleanup approach by creating a number of challenges. Most important, these new contaminants could not be removed using existing treatment facilities, and new, additional treatment methods had to be identified, financed, and implemented.

This report outlines a comprehensive water quality cleanup and water supply plan for the Main San Gabriel Basin, including each of the USEPA Operable Units. Watermaster’s plan for each area is consistent with the USEPA plans, and its goal is to implement cleanup as promptly as possible, with or without the cooperation of the Responsible Parties.

SALT AND NUTRIENT MANAGEMENT PLAN

During February 2009, the State Water Resources Control Board (SWRCB) adopted the “Recycled Water Policy”, which adopted goals for water recycling, water conservation and replenishment of stormwater runoff to enhance water supplies throughout California. One component of the Recycled Water Policy requires all groundwater basins to develop a “Salt and Nutrient Management Plan” (SNMP) no later than May 2016. Watermaster took the lead role in developing the SNMP for the Main San Gabriel Basin. The SNMP identifies the existing water quality of the Main San Gabriel Basin (specifically Total Dissolved Solids (TDS), Nitrate, Chloride and Sulfate), which are not addressed by USEPA cleanup activities, and compares that water quality to standards established by the Los Angeles Regional Water Quality Control Board (LA RWQCB). Each of the four water quality parameters comply with the standards established by LA RWQCB resulting in significant flexibility to implement new programs to enhance groundwater replenishment and reliability.

GROUNDWATER MONITORING PROGRAMS

Monitoring involves measuring groundwater levels, groundwater quality, and groundwater flow. Watermaster continuously refines its understanding of the groundwater Basin to better define the safe yield of the Basin, and to protect and improve local water quality.

GROUNDWATER ELEVATION MONITORING

CONTINUE KEY WELL AND SUPPLEMENTAL KEY WELL OPERATION AND DATA PROCESSING

The entire 167-square-mile groundwater Basin is managed as one unit based on the groundwater levels as measured at a single Key Well in Baldwin Park. Water levels have been measured at this well since 1903 and are currently measured every three hours by an automated recorder.

Additional groundwater level recorders have been installed near the Santa Fe Spreading Grounds; adjacent to the San Gabriel River above the I-210 Freeway; in the City of Rosemead; in the City of Covina; and near the Whittier Narrows Dam. These water level records are synchronized with the record in the Key Well. Collectively, water level data from these wells provides a better understanding of impacts of recharge operations at the Santa Fe Spreading Grounds on Basin hydrogeology. Water elevation data are collected semi-annually at about 170 additional wells throughout the Basin, and water level recorders may be installed in some of those wells over the next five years.

CONTINUE BASINWIDE GROUNDWATER ELEVATION MONITORING PROGRAM (BGWEMP)

The purpose of the BGWEMP is to obtain groundwater level measurements from a large number of wells across the Basin. The information is used to prepare groundwater contour maps showing the direction of groundwater flow. The data are also used in the Basin computer model to simulate future groundwater flow patterns. The BGWEMP plan for the coming years includes:

- taking weekly measurements of water levels in 9 of the 170 primary wells;
- gathering semi-annual measurements of water levels at all 170 of the primary wells;
- obtaining water levels in secondary wells from well owners or water Producers, the San Gabriel Valley Protective Association, Regional Board, USEPA, and others;
- updating the database with water level data;
- preparing semi-annual groundwater contour maps of the entire Basin; and
- participating in the California Statewide Groundwater Elevation Monitoring (CASGEM) program.

GROUNDWATER QUALITY MONITORING

CONTINUE BASINWIDE GROUNDWATER QUALITY MONITORING PROGRAM (BGWQMP)

Under the BGWQMP, all production wells in the Basin are sampled at least once a year for VOCs, nitrates, and TDS. In addition, sulfate and chloride are sampled at least once every three years as required by DDW. The frequency of BGWQMP sampling compliments the monitoring requirements under state law, and supplements information gathered through Regional Water Quality Control Board source investigations, and USEPA remedial investigations. The data collected by BGWQMP are used to identify and evaluate the current locations and magnitude of contaminant levels, along with the effectiveness of the cleanup project.

CONTINUE TITLE 22 WATER QUALITY TESTING

Watermaster continues to perform DDW-mandated Title 22 water quality sampling of groundwater from approximately 200 active wells in the Basin. Watermaster also continues to track regulations and inform local water purveyors about regulatory issues and requirements. Information from centralized water quality testing is added to Watermaster's water quality database, which contains data from many sources. The centralized testing enables Watermaster to identify water quality trends on a regional scale that might otherwise go unnoticed at a specific well, and also lowers monitoring costs to Producers.

GROUNDWATER FLOW AND CONTAMINANT MIGRATION STUDIES

Groundwater level and quality data are entered into the Basin computer model, which simulates where contamination is projected to flow in the future. The goal is to project contaminant levels by areas in advance of the actual event, and identify remedial steps to be taken. The Basin computer model has been used to identify the area of contamination that may be captured (capture zone) under various groundwater pumping scenarios. The capture zone is also able to show the length of time it may take contamination to flow toward a well, and subsequently be treated for contaminant removal prior to use as a drinking water supply.

GROUNDWATER ELEVATION SIMULATIONS SHOW FUTURE PUMPING WILL NOT SIGNIFICANTLY CHANGE GROUNDWATER MOVEMENT

To determine the direction of groundwater flow through the Basin, Watermaster compiles the daily average 2014-15 production for each well, enters the data into the groundwater model, and simulates how production impacts water levels throughout the Basin. A computer simulation is then run using estimated production for 2019-20, assuming all other water supply variables (i.e. local water recharge, imported water recharge, subsurface inflow/outflow) do not change. These simulations indicate the

Simulations of the direction of groundwater flow in 2014-15 and projections for 2019-20 show that the estimated increase in groundwater pumping during this period would not significantly change the overall direction of Basin groundwater movement.

estimated increase in groundwater production, based on projections by Producers, as of fiscal year 2019-20 will not significantly change the overall direction of Basin groundwater movement, which continues to flow generally from east to west to a pumping trough in the western portion of the Basin, and also northeast to southwest, exiting through Whittier Narrows. The simulation for 2019-20 also shows localized pumping depressions in the Baldwin Park area, which are expected to be created by continuous pumping from groundwater extraction wells associated with the BPOU contaminant cleanup project to contain and control groundwater contaminant movement. Contaminated groundwater from those wells is treated at several treatment facilities and the DDW-permitted water is provided for potable use.

SIMULATE IMPACTS OF GROUNDWATER PUMPING ON CONTAMINANT MIGRATION

Simulations similar to the ones described above were used to make the finding that pumping from USEPA mandated cleanup projects as managed by Watermaster helps to control and contain contaminant migration. Groundwater quality data collected during 2014-15 and projected quality data for 2019-20 were entered into the groundwater model for the contamination migration studies. The computer model is used to simulate how the flow of water would affect the migration of contamination. The simulation showed that changes in groundwater flow did not have major impacts on the migration of contaminants (refer to Figures 16 and 17 in Appendix F).

GROUNDWATER CLEANUP PROJECTS

Watermaster coordinates and provides technical assistance on many cleanup projects in the Basin, although the cleanup facilities are owned and operated by local water utilities. Watermaster's involvement includes coordinating proposed USEPA cleanup programs to ensure, to the extent feasible, that treated water is put to beneficial use within the Basin, and that projects are consistent with the Judgment.

REVIEW OF SECTION 28 APPLICATIONS

Watermaster reviews every proposal to construct, destroy, or modify a well, or build a treatment plant pursuant to Section 28 of its Rules and Regulations.

Watermaster's review ensures that any new or increased extractions from the Basin or any changes in production patterns are consistent with contamination cleanup efforts, and will not adversely affect Basin water quality. In conjunction with the evaluation of an application to construct a new well or a treatment facility, Watermaster uses a computer model to predict the potential future impacts of each project on contaminant migration and Basin cleanup.

BASIN CLEANUP PROJECTS/USEPA OPERABLE UNIT PLANS

The USEPA established Operable Units for the various areas within the Basin that have been contaminated and require groundwater cleanup. The Operable Units are Area 3 (Alhambra area), Baldwin Park, El Monte, Puente Valley, South El Monte, and Whittier Narrows (See Figure 11). USEPA has established a methodical process that includes a review of the extent of contamination (Remedial Investigation), development of cleanup alternatives (Feasibility Study), and selection of the most appropriate cleanup plan (Proposed Plan). Following these activities, the USEPA issues a report identifying the agreed-upon Cleanup Plan (Record of Decision). Subsequently, the project facilities are designed and constructed.

The USEPA has identified cleanup plans for nearly all the Operable Units. Unlike the USEPA, Watermaster is not only concerned with cleaning up the Basin, but also wants to ensure that the water supply needs of the region are met. With USEPA plans generally in place, Watermaster continues to work with affected Producers, Responsible Parties, and others to implement solutions that not only provide effective cleanup and conform to the USEPA plans, but also meet local water supply needs.

This Five-Year Plan describes each of the Operable Units along with the USEPA proposed cleanup plan. In addition, Appendix A identifies current, and projected groundwater production over the next five years, to address the contamination and to implement the cleanup plans. In areas where the groundwater supply has been affected by contamination, Watermaster works with affected Producers and other local water agencies to implement cleanup as quickly as possible, with or without the cooperation of the Responsible Parties. Watermaster and affected Producers continue to seek cost recovery from the Responsible Parties for any cleanup costs they incur.

BALDWIN PARK OPERABLE UNIT (BPOU)

The BPOU is a seven-mile-long, one-mile-wide area of groundwater contamination that lies east of the San Gabriel River, stretching from an area north of the I-210 freeway in Azusa to south of the I-10 freeway in Baldwin Park (see Figure 11). The contamination primarily has been the result of improper use and disposal of industrial chemicals in the Azusa area, and it continues to spread generally in a southwesterly direction.

The USEPA originally issued its Record of Decision (ROD), or cleanup plan, for the BPOU in the mid-1990s. The ROD calls for pumping and treating groundwater in the northern area, where contaminant concentrations are highest, and also in the southern area to limit further migration of contaminants. The ROD involves pumping and treating an average of about 7,000 gallons per minute in the northern area and 16,000 gallons per minute in the southern area. The ROD also recommends

the use of existing water supply wells, treatment systems, and pipelines when feasible. Importantly, the plan encourages adding the treated water to the potable supply, rather than simply recharging it back into the ground or discharging it to storm drain.

The discovery of perchlorate and NDMA during the late 1990s resulted in the shutdown of numerous treatment facilities, including the La Puente Valley County Water District (LPVCWD) Plant and San Gabriel Valley Water Company (SGVWC) Plant B6 that were designed by local water agencies to remove VOCs but not the new contaminants. Shutting down the VOC treatment plants allowed contaminants to migrate southward into previously unaffected areas, in turn forcing the shutdown of other water supply wells.

In 2002, after several years of negotiation led by Watermaster, eight of the BPOU Responsible Parties (called Cooperating Respondents, or CRs) and seven Water Entities signed the BPOU Project Agreement. Under this landmark agreement, Watermaster continues to provide overall project management and project coordination services. The CRs have paid the cost to construct, and are required to continue to provide funding to operate the USEPA-required BPOU cleanup facilities for a total of about 15 years under the current agreement through 2017. Several water purveyors own and operate the facilities, and they use the highly treated water in their water systems. The San Gabriel Basin Water Quality Authority (WQA) has also obtained outside funds to help construct necessary BPOU treatment facilities, extraction wells, and pipelines. Negotiations by Watermaster, WQA, and the Water Entities with the CRs to extend the cleanup are ongoing.

The BPOU Project consists of four centralized treatment facilities with a combined extraction and treatment capacity of up to 25,900 gpm. Those treatment facilities are located at Valley County Water District's Lante Plant (7,800 gpm), San Gabriel Valley Water Company's Plant B6 (7,800 gpm) and Plant B5 (7,800 gpm), and La Puente Valley County Water District's (LPVCWD) site (2,500 gpm). The location of these treatment facilities is shown on Figures 14 and 15.

VALLEY COUNTY WATER DISTRICT (VCWD) PROJECT

In the northerly portion of the BPOU, the VCWD Project consists of three extraction wells, including two wells, pumping up to 7,800 gpm (average annual rate of 7,000 gpm) to a centralized treatment facility at the VCWD Lante Plant. The VCWD Project consists of separate facilities to treat VOCs, 1,2,3-TCP, perchlorate, NDMA, and 1,4-dioxane. In addition, a treated-water pipeline provides up to 6,000 gpm of fully treated water to Suburban Water Systems (SWS) to offset production lost due to contamination of some of its wells; VCWD can use the remaining portion of the treated water. The VCWD Project began operation for contamination cleanup in 2006 and received its DDW operating permit in July 2007 to provide

potable water to customers. Since operation began in 2006, the VCWD treatment facility has treated about 62,500 acre-feet and has removed about 39,600 pounds of contaminants, as shown in Appendix E.

VCWD and its BPOU partners are coordinating the construction of a new single-pass, ion-exchange facility that will remove perchlorate more cost effectively. Construction of the new system is complete, but start-up has been pushed back while the parties determine the most cost-effective way to address high nitrate concentrations. Meanwhile, the existing VCWD treatment facility continues to provide treated water for municipal use.

LPVCWD PROJECT

The LPVCWD consists of three existing production wells. Well-pumping capacity is limited to 2,500 gpm to equal the capacity of the treatment facility. The LPVCWD project consists of separate facilities to treat VOCs, perchlorate, NDMA, and 1,4-dioxane. The LPVCWD project is permitted by DDW and has been operating since March 2001. Treated water in excess of LPVCWD's needs is provided to SWS to enable the treatment facility to be operated on a continuous basis. Since operation began, the LPVCWD treatment facility has treated about 61,000 acre-feet (including prior operations with only VOC treatment) and removed about 11,100 pounds of contaminants, as shown in Appendix E.

SGVWC B6 PROJECT

The SGVWC B6 project is permitted by DDW and has been operational since July 2005. The B6 project consists of four extraction wells and a centralized treatment facility that treats up to 7,800 gpm (average annual rate of 7,000 gpm). The facility treats the contaminated groundwater for VOCs, perchlorate, NDMA, and 1,4-dioxane. The treated water is provided to SGVWC customers. Since operation began, the SGVWC B6 treatment facility has treated about 101,200 acre-feet, (including prior operations with only VOC treatment), and removed about 18,000 pounds of contaminants, as shown in Appendix E.

SGVWC B5 PROJECT

The SGVWC B5 Project consists of one extraction well and two existing wells that provide up to 7,800 gpm (average annual rate of 7,000 gpm) to a centralized treatment facility located at the SGVWC B5 site. The treatment facility treats the contaminated water for VOCs, perchlorate, NDMA, and 1,4-dioxane. The treated water is provided to City of Industry customers (1,200 gpm) and the balance (6,600 gpm) is provided to SGVWC customers. The SGVWC B5 Project was permitted by DDW in fiscal year 2007-08. Since operation began in 2007, the SGVWC B5 treatment facility has treated about 86,500 acre-feet and has removed about 3,700 pounds of contaminants, as shown in Appendix E.

Figure 14. VOC PLUME MAP IN BPOU

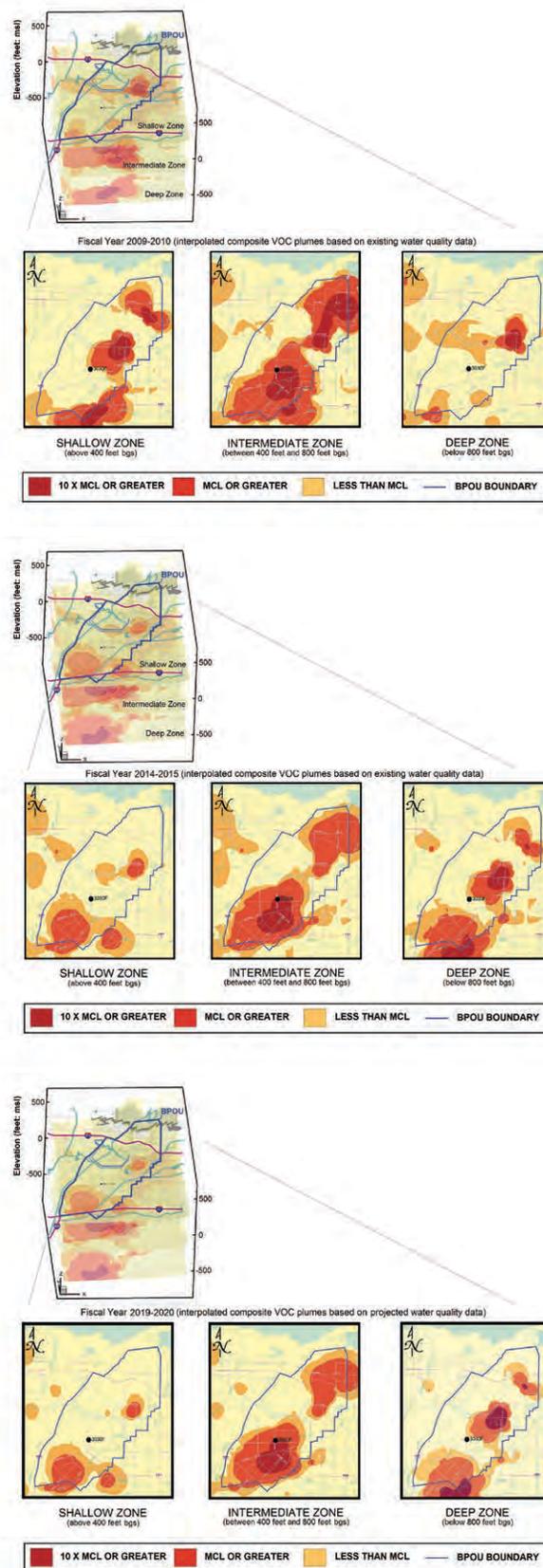
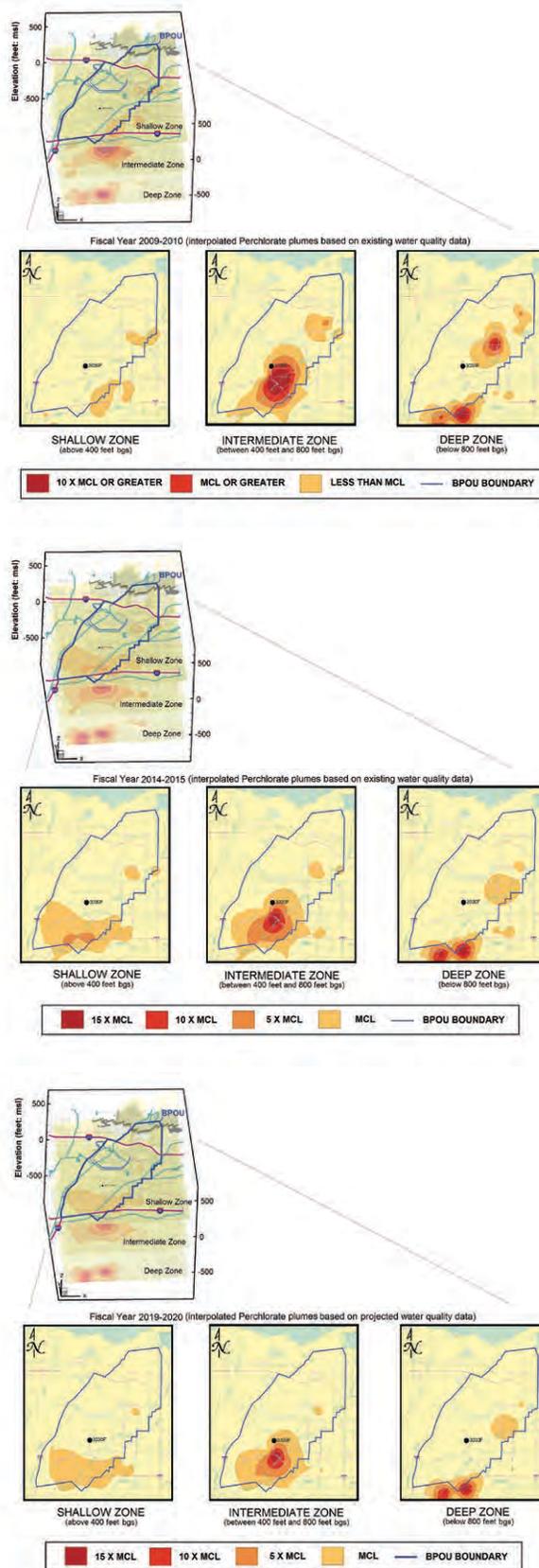


Figure 15. PERCHLORATE PLUME MAP IN BPOU



PURVEYOR PROJECTS

In addition to the USEPA-required BPOU facilities, several water purveyors have built treatment facilities at other wells within the BPOU area to meet water supply needs until the USEPA remedy prevents the continued spread of contamination. California Domestic Water Company (CDWC) has constructed facilities at its well field to remove VOCs, perchlorate, and NDMA and the quantity of water treated is shown in Appendix E. Similarly, Watermaster has issued permits under Section 28 of its Rules and Regulations to SWS to construct new wells that also are being used to blend with wells impacted by contaminants. These activities reduce reliance on expensive imported water, and contribute to contaminant removal.

BPOU CLEANUP PROGRESS

Watermaster regularly reviews water quality data to evaluate the impact the production wells and specially-constructed extraction wells have on control of contamination migration. It is difficult to develop a precise picture of the geographic extent of contamination because water quality is obtained from numerous wells that produce water from different depths below the groundwater table. Figure 14 shows the approximate extent of VOC contamination and operating VOC treatment facilities from about five years ago and from current data. In addition, the anticipated treatment facilities and the approximate geographic extent of VOC contamination, using engineering judgment, for five years into the future is also shown on Figure 14. The 2014-15 plume indicates treatment facilities are controlling plume movement. Watermaster anticipates the area of the VOC plume will continue to decrease, as shown on the 2019-20 plume. Similarly, Figure 15 shows the approximate extent of perchlorate. The series of three plume characterizations indicate that plume movement is expected to be controlled and, similar to VOCs, continue to decrease in the future (2019-20).

The term of the BPOU Project Agreement is 15 years and extends through 2017. Watermaster will continue to coordinate BPOU cleanup activities among the various parties to the BPOU Project Agreement through at least 2017 (which is the expiration of the initial BPOU Agreement), including negotiation of an extension to the BPOU Project Agreement, interfacing with USEPA, overseeing agreements between water purveyors to use the treated water, and providing accounting services to track BPOU Project costs and funds received. With all of the BPOU facilities now operational, Watermaster is also coordinating collection of field data, such as water production, water quality and water levels, and is providing BPOU Project performance reports to USEPA in cooperation with the CRs.

The projects will ensure that there is an adequate water supply for the BPOU area. These projects are consistent with the USEPA ROD, meet contaminant removal and containment requirements, and meet local water supply needs.

SOUTH EL MONTE OPERABLE UNIT (SEMOU)

The SEMOU covers approximately eight square miles in the south-central portion of the Basin. It is bounded by the I-10 Freeway, the 60 Freeway, the I-605 Freeway, and San Gabriel Boulevard (See Figure 11). A ROD for the SEMOU was issued in 2000, addressing VOC contamination in a limited area. Subsequently, additional water supply wells became contaminated, and new contaminants, including perchlorate, were detected in wells in the SEMOU area. In November 2005, USEPA revisited its ROD and issued an Explanation of Significant Differences (ESD) indicating that SEMOU cleanup projects would also address treatment of perchlorate. Because a perchlorate source has not yet been identified in that area, the Responsible Parties (RPs) objected to a requirement to pay for perchlorate treatment, and negotiations for the RPs to fund SEMOU groundwater cleanup activities have been moving slowly.

In the meantime, area water purveyors who were impacted by contaminant migration and new perchlorate detections were forced to construct new or additional treatment facilities to maintain safe, reliable water supplies. The City of Monterey Park, San Gabriel Valley Water Company, and Golden State Water Company (GSWC) have all constructed new or additional treatment facilities within SEMOU. The San Gabriel Basin Water Quality Authority (WQA) has assisted these Producers by securing outside funding to help offset project costs.

MONTEREY PARK PROJECT

Monterey Park constructed a water treatment facility at its Delta Plant to treat VOCs and perchlorate. Monterey Park Well No. 9 (which only had detectable concentrations of VOCs) began operating through the VOC treatment facility in April 2002. Following construction and permitting of the perchlorate treatment facility, Monterey Park Well No. 12 began operation in spring 2005. Monterey Park began operation of Well No. 15 in summer 2006. Production is from Monterey Park Wells No. 12 and No. 15 to operate consistent with the SEMOU ROD. Watermaster and Monterey Park maintain data on water quality in monitoring wells located up gradient of Wells No. 9, 12, and 15. Since the treatment facility began operation, over 61,300 acre-feet of water has been treated and about 10,100 pounds of contaminants removed from the groundwater, as shown in Appendix E.

SAN GABRIEL VALLEY WATER COMPANY (SGVWC) PLANT 8 PROJECT

SGVWC Plant 8 VOC Treatment Facility has a capacity of 5,000 gpm and has been in operation since fiscal year 2001-02. In response to increasing VOC concentrations, SGVWC voluntarily constructed supplemental VOC treatment at Plant 8. The supplemental VOC treatment facility was permitted by DDW in September 2006 and went online in December 2006. Since the original VOC treatment facility operation, over 37,200 acre-feet of water has been treated and about 4,900 pounds of contaminants have been removed from the groundwater, as shown in Appendix E.

GOLDEN STATE WATER COMPANY (GSWC) PROJECT

GSWC VOC treatment facility at San Gabriel Wells No. 1 and 2 had been permitted and operating. However, with the establishment of the revised Perchlorate NL in 2002, GSWC voluntarily removed the wells from operation. Subsequently, GSWC installed an ion exchange system to remove perchlorate and has resumed operation at its San Gabriel Well No. 1. The treatment facility has treated about 16,300 acre-feet of water and removed about 500 pounds of contaminants, as shown in Appendix E.

EL MONTE OPERABLE UNIT (EMOU)

The EMOU covers an area of about 10 square miles in the south-central portion of the Basin. It is bounded by the I-10 Freeway on the south, Rosemead Boulevard on the west, and Santa Anita Avenue and Rio Hondo on the east. The northern boundary generally follows Lower Azusa Road (see Figure 11). While shallow contamination is found throughout the EMOU, deep (intermediate zone) contamination is found in the northwest and easterly area of the EMOU.

The USEPA's ROD for the EMOU includes numerous small, shallow extraction wells and treatment, along with two areas of deep extraction and treatment. Due to generally poor water quality in the area, the shallow groundwater will not be used for a potable supply. The deep extractions are recommended for potable use by local water purveyors. The remediation efforts are separated into "Westside" and "Eastside" activities.

EMOU WESTSIDE PROJECTS

On the Westside, there are plans to clean up contaminants occurring in the shallow aquifer. The shallow zone water is treated for VOCs, discharged to an adjacent channel and the fully treated water is infiltrated back into the Basin. The treatment facility (Hermetic Seal) has treated about 200 acre-feet and removed about 20 pounds of contaminants, as shown in Appendix E. The deep-zone extraction and treatment in the northwest area is being accomplished by the existing Encinita Wellfield and Treatment Facility owned by GSWC, which began operation during 1998. During July 2002, USEPA issued an Explanation of Significant Differences (ESD), which indicated that perchlorate, NDMA, 1,4-dioxane, and hexavalent chromium had been detected in excess of DDW notification levels. In the event water from extraction wells cannot be blended to acceptable levels, additional treatment facilities will need to be installed, significantly increasing cleanup costs. Thus far, extraction and treatment of VOCs at GSWC Encinita Plant have not been impacted. The GSWC treatment facility has treated about 23,200 acre-feet of water and has removed about 550 pounds of contaminants, as shown in Appendix E.

EMOU EASTSIDE PROJECTS

The remediation on the Eastside will also involve cleanup of contaminants in the shallow aquifer. Final disposition of the water has not yet been determined and is still being coordinated by Watermaster. The VOC contamination in the deep aquifer is anticipated to be produced from three wells and the fully treated water will be provided to the City of El Monte. Watermaster will continue to assist with data collection and permitting of facilities over the next five years.

PUENTE VALLEY OPERABLE UNIT (PVOU)

The PVOU lies in the southeastern portion of the Basin, essentially bounded by the 60 Freeway on the south, Azusa Avenue on the east, and the I-10 Freeway on the north (see Figure 11). The PVOU encompasses the Puente Valley, which is tributary to the southeasterly portion of the Basin. Contamination in the PVOU includes various VOCs. All aquifers within the PVOU (shallow, intermediate, and deep) are considered sources for municipal water supplies. The USEPA has issued a ROD for the PVOU. The plan identified in the ROD includes extraction and treatment of groundwater within the shallow and intermediate zones from wells located in the center of the PVOU.

PVOU SHALLOW-ZONE PROJECT

The cleanup plan for shallow-zone contamination includes nine wells that will collectively produce about 1,000 gpm. Due to the poor quality of shallow-zone water (which is high in naturally-occurring dissolved solids), the water will not be used as drinking water, but will instead be treated to remove VOCs and will then be recharged back into the Basin. Watermaster is currently working with USEPA and the Responsible Party to develop an agreement to allow production and discharge of the PVOU shallow-zone water.

PVOU INTERMEDIATE ZONE

Watermaster is working with USEPA, Responsible Parties, and local water entities to develop a cleanup solution that meets potable water supply needs. Approximately 1,000 gpm will be produced from the intermediate zone extraction wells, treated and used for potable purposes by a local water purveyor.

WHITTIER NARROWS OPERABLE UNIT (WNOU)

The USEPA declared the WNOU is a “fund-lead” project, meaning that the USEPA (with the state) has funded the design, construction, and operation of the remedy, and will seek cost recovery from Responsible Parties later. The USEPA cleanup plan involves a series of shallow and intermediate zone extraction wells with treatment (see Figure 11). As of May 2013, the responsibility for the WNOU was transferred

from USEPA to the California Department of Toxic Substances Control (DTSC). Furthermore, the WNOU Shallow Zone Project (as described below) ceased operation during 2013 due to improved water quality.

WNOU SHALLOW ZONE PROJECT

During fiscal year 2002-03, NDMA was detected in some of the shallow extraction wells, prolonging the testing and review process for the shallow zone water through June 2007. Studies indicated the shallow zone contamination could be adequately contained at an extraction rate of 2,500 gpm. Treated shallow zone water has been discharged for conservation and recreational use at Legg Lake, and Watermaster entered into a production agreement with USEPA and the County of Los Angeles regarding the accounting of that water. Since production began at the WNOU facility, over 30,000 acre-feet of groundwater has been treated, and over 1,620 pounds of contaminants have been removed. During fiscal year 2012-13 the WNOU's Shallow Zone Project ceased operation.

WNOU INTERMEDIATE ZONE PROJECT

The City of Whittier obtained a DDW permit to use the 6,000 gpm of treated intermediate zone water for municipal use instead of producing water from its existing wells. During April 2013, the City of Whittier ceased taking treated intermediate zone water. Subsequently, the treated intermediate zone water has been delivered to Legg Lake, while DTSC negotiates with a municipal water supplier to accept additional treated intermediate zone water. Since production began in late 2005, about 43,900 acre-feet of groundwater has been treated and about 1,600 pounds of contaminants removed, as shown in Appendix E.

AREA 3 OPERABLE UNIT

The Area 3 Operable Unit is located in the westerly portion of the Basin. It is generally bounded on the south by the I-10 Freeway, on the east by Rosemead Boulevard, on the North by Huntington Drive, and on the west by the boundary of the Main Basin (see Figure 11). EPA has installed a series of monitoring wells to collect water quality data to supplement data collected from water supply wells and has initiated a Remedial Investigation and Feasibility Study to identify the extent of the contamination and to evaluate appropriate cleanup remedies. In addition, Watermaster issued a permit during 2005-06 to the City of Alhambra to construct a treatment facility to remove VOCs from wells No. 7, 8, 11, and 12. The treatment facility became operational in April 2009, prior to USEPA's development of a final remedy, but is necessary for Alhambra to receive a reliable source of supply from the groundwater basin. The facility has treated about 22,300 acre-feet and has removed about 700 pounds of contaminants, as shown in Appendix E.

PRODUCERS' WATER SUPPLY PLANS

Watermaster's Water Quality Protection Plan provides early warning to Producers before their wells are found to exceed drinking water quality standards. The Plan also contains pre-analyzed suggestions to the Producers for responding to the presence of contaminants.

WATER SUPPLY PLANS TO MEET PROJECTED DEMANDS

Water Producers propose to construct 10 new wells and five treatment plants during the next five years. Watermaster will continue providing the following services to assist Producers in meeting water demand:

- investigate all new or increased water extractions;
- provide computer modeling and technical support on treatment issues concerning the impact of extractions on contaminant migration;
- prioritize areas requiring further investigation, and coordinate with Producers on water supply modifications; and
- direct changes in pumping or treatment as necessary.

CONDUCT STUDIES, MONITORING AND INVESTIGATIONS

The Main San Gabriel Groundwater Basin is very complex, covering 167 square miles, and has the capacity to hold about 2.8 trillion gallons of water. Water enters the Basin from countless, natural and man-made locations, and is extracted by over 200 wells operated by dozens of independent Producers. Watermaster conducts special studies to identify projected water demands and to increase understanding of the Basin, so that it can be managed in a way that preserves and improves water supply and quality. In addition, Watermaster routinely reviews available data and is prepared to construct new monitoring wells to obtain supplemental water level and water quality data to better, manage the Basin. As a result of these activities, and the cooperative activities with, the Regional Board (noted below), there is no longer on-going VOC or Perchlorate contamination occurring; rather the focus and emphasis are on clean-up activities.

LANDFILL INSPECTIONS

Watermaster routinely conducts on-site inspections of area landfills to ensure they are operated in a way that does not allow contaminants to seep into the groundwater. Watermaster reports any violations of Waste Discharge Requirements to the Regional Water Quality Control Board for enforcement.

IDENTIFY AND REDUCE POTENTIAL SOURCES OF CONTAMINATION, COOPERATE WITH THE REGIONAL WATER QUALITY CONTROL BOARD

Since 1993, Watermaster has obtained information from the RWQCB about sources of VOC contamination in the Basin as part of the RWQCB investigations of potential contaminated sites. The information includes a description of all potential sources of contamination investigated by the RWQCB, including:

- maps showing the location of all investigation sites;
- available cause-and-effect relationships between pollution sources and contaminated wells; and
- plans and tentative schedules to abate the source of pollution and to clean up the soil and water.

Watermaster has reviewed a large amount of information gathered in RWQCB files and entered it into a database. This information is used in Watermaster's Section 28 process to help evaluate changes in pumping practices in relation to known contamination sources.

AQUIFER PERFORMANCE TESTS

Watermaster has developed a groundwater flow model for the entire Basin that assists in evaluating the potential impacts of changes in groundwater production. Although Watermaster completed its three-year Aquifer Performance Test investigation, additional tests will be conducted as required for Section 28 applications or for other needs. A tabulation of potential Aquifer Performance Test investigation sites is included in Appendix D. The sites identified include a pumping well and at least one monitoring well. The tests provide information on the characteristics of the aquifer, such as transmissivity, hydraulic conductivity, and coefficient of storage. The information gathered on aquifer characteristics will support cleanup activities including groundwater model development and calibration (see Appendix D).

DIRECTORY TO APPENDICES

The Following Appendices Are Found in This Section:

- A. Projected Groundwater Demands from 2015-16 to 2019-20
- B. Simulated Changes in Groundwater Elevations at Wells or Wellfields in Main San Gabriel Basin
- C. Highlights of Volatile Organic Compounds and Nitrate Concentrations and Wells Vulnerable to Contamination
- D. Potential Sites for Aquifer Performance Tests
- E. Summary of Treatment Facility Activity in the Main San Gabriel Basin
- F. Simulated Basin Groundwater Contours 2014-15 and 2019-20 (Figures 16 and 17)

APPENDIX A.

PROJECTED GROUNDWATER DEMANDS— 2015-16 TO 2019-20

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
ADAMS RANCH MUTUAL WATER COMPANY (1)									
1902106	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902689	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000182	3	379	235	55.59	75.00	75.00	75.00	75.00	75.00
SUBTOTAL:		NA	NA	55.59	75.00	75.00	75.00	75.00	75.00
ALHAMBRA, CITY OF (2)									
1900010	MOELR (8)	3,387	2,100	1,701.63	2,199.89	2,232.09	2,264.53	2,297.43	2,274.10
1900011	9	807	500	9.97	12.89	13.08	13.27	13.46	13.32
1900012	10	323	200	0.00	0.00	0.00	0.00	0.00	0.00
1900013	12	807	500	43.15	55.78	56.60	57.42	58.26	57.67
1900014	13	1,048	650	180.68	233.59	237.00	240.45	243.94	241.46
1900015	14	1,532	950	866.40	1,120.09	1,136.49	1,153.00	1,169.76	1,157.88
1900016	15	1,774	1,100	1,352.96	1,749.12	1,774.73	1,800.52	1,826.68	1,808.13
1900017	2 LON	1,597	990	1,285.32	1,661.68	1,686.00	1,710.50	1,735.36	1,717.73
1900018	GARF	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902789	1 LON	1,613	1,000	1,141.77	1,476.09	1,497.70	1,519.47	1,541.54	1,525.89
1903014	11	1,032	640	321.29	415.37	421.45	427.57	433.79	429.38
1903097	7	1,258	780	388.69	502.50	509.86	517.27	524.78	519.45
SUBTOTAL:		15,178	9,410	7,291.86	9,427.00	9,565.00	9,704.00	9,845.00	9,745.00
AMARILLO MUTUAL WATER COMPANY (SAN GABRIEL VALLEY WATER COMPANY) (3)									
1900791	1	644	399	180.03	369.21	382.15	380.35	382.69	388.76
1900792	2	424	263	163.85	0.44	0.45	0.45	0.46	0.46
SUBTOTAL:		1,068	662	343.88	369.65	382.60	380.80	383.15	389.22
ANDERSON, RAY L. AND HELEN									
8000085	NA	18	11	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		18	11	0.00	0.00	0.00	0.00	0.00	0.00
ARCADIA, CITY OF (2)									
1901013	1 LON	1,613	1,000	894.12	1,018.00	998.00	978.00	959.00	940.00
1901014	2 LON	1,613	1,000	109.25	482.00	472.00	463.00	454.00	445.00
1901015	1 BAL	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902077	1 CAM	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902078	2 CAM	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902084	2 LGY	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902358	1 STJ	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902791	2 BAL	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902854	1 PEC	5,968	3,700	3,833.75	4,201.00	4,119.00	4,038.00	3,959.00	3,881.00
8000127	1 LO	6,613	4,100	2,179.36	2,687.00	2,635.00	2,583.00	2,532.00	2,483.00
8000177	2 STJ	1,452	900	39.93	226.00	222.00	217.00	213.00	209.00
8000213	3 CAM	4,355	2,700	2,393.61	3,277.00	3,213.00	3,150.00	3,088.00	3,028.00
8000214	3 LGY	2,903	1,800	2,559.66	2,149.00	2,107.00	2,066.00	2,025.00	1,986.00
SUBTOTAL:		24,518	15,200	12,009.68	14,040.00	13,766.00	13,495.00	13,230.00	12,972.00
ATTALLA, MARY L.									
8000119	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS					
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20	
AZUSA, CITY OF (AZUSA AGRICULTURAL WATER COMPANY, AZUSA VALLEY WATER COMPANY) (2)										
1902533	5 (1)	1,613	1,000	949.20	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00	
1902535	6 (3)	4,839	3,000	389.77	550.00	550.00	550.00	550.00	550.00	
1902536	GENESIS 1 (4)	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1902537	GENESIS 2 (5)	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1902538	GENESIS 3 (6)	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
8000072	1 (7)	4,839	3,000	1,244.07	1,300.00	1,300.00	1,300.00	1,300.00	1,300.00	
8000086	3 (8)	4,678	2,900	2,417.51	2,380.00	2,380.00	2,380.00	2,380.00	2,380.00	
1902457	2 (1 NORTH)	3,549	2,200	820.46	1,370.00	1,370.00	1,370.00	1,370.00	1,370.00	
1902458	4 (2 SOUTH)	4,516	2,800	2,171.17	2,160.00	2,160.00	2,160.00	2,160.00	2,160.00	
1902113	AVWC 1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1902114	AVCW 2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1902115	8 (AVWC 4)	3,065	1,900	36.45	200.00	200.00	200.00	200.00	200.00	
1902116	7 (AVWC 5)	1,613	1,000	295.79	550.00	550.00	550.00	550.00	550.00	
1902117	9 (AVWC 6)	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1902425	AVWC 7	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
8000103	10 (AVWC 8)	4,194	2,600	16.00	70.00	70.00	70.00	70.00	70.00	
8000178	11	3,468	2,150	1,710.83	1,600.00	1,600.00	1,600.00	1,600.00	1,600.00	
8000179	12	2,823	1,750	1,737.68	1,450.00	1,450.00	1,450.00	1,450.00	1,450.00	
1903119	VULCAN	NA	NA	116.86	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		15,162	9,400	11,905.79	12,830.00	12,830.00	12,830.00	12,830.00	12,830.00	
AZUSA ASSOCIATES LLC (COVELL, ET AL)										
1900390	DALTON	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
B & B RED-I-MIX CONCRETE INC.										
1902589	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
BANKS, GALE & VICKI (1)										
1900415	NA	560	347	34.00	30.00	30.00	30.00	30.00	30.00	
SUBTOTAL		560	347	34.00	30.00	30.00	30.00	30.00	30.00	
BASELINE WATER COMPANY										
1901200	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1901201	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1901202	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
BEVERLY ACRES MUTUAL										
8000004	ROSE HILLS	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
BIRENBAUM, MAX										
8000005	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
BROOKS, GIFFORD JR.										
1902144	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
BURBANK DEVELOPMENT COMPANY									
1900093	BURB	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
CALIFORNIA-AMERICAN WATER COMPANY/DUARTE SYSTEM (3)									
1900354	STA FE	1,694	1,050	525.66	622.01	625.16	628.30	631.35	634.58
1900355	B V	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900356	MT AVE	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900357	LAS L	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900358	FISH C	484	300	0.00	0.00	0.00	0.00	0.00	0.00
1902907	WILEY	2,420	1,500	2,002.55	2,169.61	2,181.59	2,193.56	2,205.18	2,217.50
1903018	CR HV	2,097	1,300	739.17	874.66	879.08	883.50	887.79	892.33
8000139	ENCTO	2,903	1,800	288.05	340.85	342.57	344.29	345.96	347.74
8000140	LASL 2	2,258	1,400	297.37	351.88	353.66	355.43	357.16	358.99
1900497	BACON	484	300	13.50	15.97	16.06	16.14	16.21	16.30
8000216	B V 2	2,903	1,800	1,821.19	2,355.01	2,365.90	2,376.79	2,387.35	2,398.56
SUBTOTAL:		15,243	9,450	5,687.49	6,730.00	6,764.00	6,798.00	6,831.00	6,866.00
CALIFORNIA-AMERICAN WATER COMPANY/SAN MARINO SYSTEM (3)									
1900917	HALL	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900918	GUESS	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900919	MISVW	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900920	MISVW	2,097	1,300	1,826.27	1,868.88	1,879.33	1,889.56	1,900.24	1,910.70
1900921	RIC-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900922	RIC-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900923	IVR-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900924	MAR-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900925	MAR-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900926	GRAND	1,532	950	1,407.57	1,394.55	1,402.61	1,410.50	1,418.73	1,426.79
1900927	ROSE	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900934	ROAN	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900935	LONG	1,548	960	489.89	754.97	757.77	760.52	763.38	766.19
1901441	BR-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902424	HOWL	968	600	511.57	779.53	782.46	785.32	788.31	791.24
1902787	BR-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902867	IVR-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903019	MAR-3	1,936	1,200	1,344.26	1,522.83	1,530.53	1,538.06	1,545.92	1,553.62
1903059	DELMAR	1,613	1,000	1,406.94	1,393.84	1,401.90	1,409.78	1,418.01	1,426.06
8000175	HALL-2	1,936	1,200	1,048.16	1,387.40	1,393.40	1,399.27	1,405.40	1,411.40
SUBTOTAL:		11,630	7,210	8,034.66	9,102.00	9,148.00	9,193.00	9,240.00	9,286.00
CALIFORNIA COUNTRY CLUB (1)									
1902529	CLUB	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902531	ARTES	1,129	700	0.00	1.25	1.25	1.25	1.25	1.25
1903084	SYC	1,290	800	0.00	3.75	3.75	3.75	3.75	3.75
SUBTOTAL:		2,420	1,500	0.00	5.00	5.00	5.00	5.00	5.00
CALIFORNIA DOMESTIC WATER COMPANY (3)									
1901181	2	5,404	3,350	1,167.09	1,088.19	1,305.82	1,305.82	2,173.71	2,192.37
1901182	1-E	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901183	5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901185	13-N	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902967	6	6,452	4,000	3,026.31	2,821.71	3,386.05	3,386.05	4,621.40	4,669.77
1903057	3	7,259	4,500	6,216.37	5,796.10	6,955.32	6,955.32	7,049.57	7,148.93
1903081	8	4,839	3,000	2,919.10	2,721.75	3,266.10	3,266.10	3,686.02	3,732.68
8000100	5A	6,452	4,000	5,440.05	5,072.26	6,086.71	6,086.71	6,169.29	6,256.24
8000174	14	4,516	2,800	0.00	0.00	0.00	0.00	0.00	0.00
1900092	10	8,065	5,000	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		42,986	26,650	18,768.92	17,500.00	21,000.00	21,000.00	23,700.00	24,000.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
CARRIER CORPORATION (1)									
--	--	--	--	33.71	30.00	30.00	30.00	30.00	30.00
SUBTOTAL:		--	--	33.71	30.00	30.00	30.00	30.00	30.00
CEDAR AVENUE MUTUAL WATER COMPANY									
1901411	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902783	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		0	0	0.00	0.00	0.00	0.00	0.00	0.00
CEMEX CONSTRUCTION MATERIALS L.P. (AZ-TWO INC.)									
1900038	2	2,305	1,429	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		2,305	1,429	0.00	0.00	0.00	0.00	0.00	0.00
CHAMPION MUTUAL WATER COMPANY (1)									
1900908	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902816	2	516	320	0.79	0.00	0.00	0.00	0.00	0.00
8000121	3	145	90	49.56	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		661	410	50.35	0.00	0.00	0.00	0.00	0.00
CHEVRON USA									
1900250	TEMP1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
CITRUS VALLEY MEDICAL CENTER, QUEEN OF THE VALLEY CAMPUS (QUEEN OF THE VALLEY HOSPITAL) (1)									
8000138	NA	NA	NA	0.00	20.00	20.00	20.00	20.00	20.00
SUBTOTAL:		NA	NA	0.00	20.00	20.00	20.00	20.00	20.00
CLAYTON MANUFACTURING COMPANY									
1901055	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000170	MW-4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
COINER, JAMES W., DBA COINER NURSERY (WOODLAND FARMS INC.) (1)									
1902951	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903072	5R	NA	NA	121.85	100.00	100.00	100.00	100.00	100.00
SUBTOTAL:		NA	NA	121.85	100.00	100.00	100.00	100.00	100.00
COLLISON, E.O.									
1902968	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
CORCORAN BROS.									

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
1902814	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
COUNTY SANITATION DISTRICT NO. 18 (1)									
8000008	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000009	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000104	LE 1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000105	LE 2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000106	LE 3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000107	LE 4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000128	EO8A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000129	E09A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000130	E10A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000131	E11A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000141	EX1	NA	NA	0.40	0.58	0.58	0.58	0.58	0.58
8000142	EX2	NA	NA	0.06	0.11	0.11	0.11	0.11	0.11
8000143	EX3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000144	EX4	NA	NA	0.01	0.00	0.00	0.00	0.00	0.00
8000153	E16A	NA	NA	0.76	1.10	1.10	1.10	1.10	1.10
8000154	E17A	NA	NA	2.79	7.51	7.51	7.51	7.51	7.51
8000155	E18A	NA	NA	0.57	0.76	0.76	0.76	0.76	0.76
8000156	E19A	NA	NA	0.94	1.13	1.13	1.13	1.13	1.13
8000173	E20A	NA	NA	0.66	1.83	1.83	1.83	1.83	1.83
8000161	E01R	NA	NA	0.13	0.20	0.20	0.20	0.20	0.20
8000162	E03R	NA	NA	1.35	0.06	0.06	0.06	0.06	0.06
8000163	E05R	NA	NA	0.04	0.99	0.99	0.99	0.99	0.99
8000164	E07R	NA	NA	0.35	1.54	1.54	1.54	1.54	1.54
8000165	E02R	NA	NA	0.61	2.35	2.35	2.35	2.35	2.35
8000166	E04R	NA	NA	0.16	0.63	0.63	0.63	0.63	0.63
8000167	E06R	NA	NA	0.91	0.31	0.31	0.31	0.31	0.31
8000168	E08R	NA	NA	0.57	0.92	0.92	0.92	0.92	0.92
SUBTOTAL:		NA	NA	10.31	20.00	20.00	20.00	20.00	20.00
COVINA, CITY OF									
1901685	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901686	2	968	600	0.00	0.00	0.00	0.00	0.00	0.00
1901687	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		968	600	0.00	0.00	0.00	0.00	0.00	0.00
COVINA IRRIGATING COMPANY (2)									
1900881	CONTR	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900882	3 BAL	2,903	1,800	1,915.95	750.00	2,050.00	2,300.00	2,300.00	2,500.00
1900883	2 BAL	2,581	1,600	1,149.67	550.00	1,400.00	1,600.00	1,600.00	1,950.00
1900885	1 BAL	2,097	1,300	277.74	550.00	1,200.00	1,500.00	1,500.00	1,900.00
1900880	VALEN	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		7,581	4,700	3,343.36	1,850.00	4,650.00	5,400.00	5,400.00	6,350.00
CREVOLIN, A.J.									
8000011	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
CROWN CITY PLATING COMPANY									
8000012	01	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
DAVIDSON OPTRONICS INC.									
8000013	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
DAWES, MARY K.									
1902952	04	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
DEL RIO MUTUAL WATER COMPANY (1)									
1900331	BURKE	261	162	114.00	150.00	150.00	150.00	150.00	150.00
1900332	KLING	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		261	162	114.00	150.00	150.00	150.00	150.00	150.00
DRIFTWOOD DAIRY									
1902924	01	298	185	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		298	185	0.00	0.00	0.00	0.00	0.00	0.00
DUNNING, GEORGE									
1900091	1910	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
EAST PASADENA WATER COMPANY, LTD. (2)									
1901508	9	2,581	1,600	1,438.44	1,134.26	1,156.96	1,180.10	1,203.70	1,227.78
8000217	11	2,581	1,600	5.50	4.34	4.42	4.51	4.60	4.69
SUBTOTAL:		5,162	3,200	1,443.94	1,138.60	1,161.38	1,184.61	1,208.30	1,232.47
EL MONTE, CITY OF (2)									
1901692	2A	1,532	950	486.15	447.34	447.34	447.34	447.34	447.34
1901693	3	968	600	0.00	0.00	0.00	0.00	0.00	0.00
1901694	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901695	5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901699	10	2,420	1,500	1,059.22	974.67	974.67	974.67	974.67	974.67
1901700	11	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902612	MT VW	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903137	12	3,387	2,100	0.00	0.00	0.00	0.00	0.00	0.00
8000066	--	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000101	13	4,839	3,000	736.80	677.99	677.99	677.99	677.99	677.99
SUBTOTAL:		13,146	8,150	2,282.17	2,100.00	2,100.00	2,100.00	2,100.00	2,100.00
EL MONTE CEMETERY ASSOCIATION									
8000017	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
FRUIT STREET WATER COMPANY									
1901199	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS					
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20	
GATES, JAMES RICHARD (1)										
8000215	NA	NA	NA	1.16	5.00	5.00	5.00	5.00	5.00	5.00
SUBTOTAL:		NA	NA	1.16	5.00	5.00	5.00	5.00	5.00	5.00
GLENDORA, CITY OF (3)										
1900826	11-E	1,452	900	381.11	541.55	541.55	541.55	541.55	541.55	541.55
1900827	12-G	3,226	2,000	1,877.76	2,668.28	2,668.28	2,668.28	2,668.28	2,668.28	2,668.28
1900828	10-E	1,048	650	14.81	321.04	321.04	321.04	321.04	321.04	321.04
1900829	8-E	2,742	1,700	1,305.18	2,154.65	2,154.65	2,154.65	2,154.65	2,154.65	2,154.65
1900830	9-E	2,742	1,700	1,931.39	2,144.48	2,144.48	2,144.48	2,144.48	2,144.48	2,144.48
1900831	7-G	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1901523	1-E	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1901524	4-E	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1901525	3-G	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1901526	2-E	807	500	167.03	445.93	445.93	445.93	445.93	445.93	445.93
8000003	--	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8000149	5-E	2,903	1,800	1,810.23	2,572.32	2,572.32	2,572.32	2,572.32	2,572.32	2,572.32
8000184	13-E	1,290	800	951.27	1,151.74	1,151.74	1,151.74	1,151.74	1,151.74	1,151.74
SUBTOTAL:		16,211	10,050	8,438.78	12,000.00	12,000.00	12,000.00	12,000.00	12,000.00	12,000.00
GOEDERT, LILLIAN										
8000027	GOEDERT	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN DIMAS DISTRICT (1)										
1902148	BAS-3	968	600	420.87	602.25	602.25	602.25	602.25	602.25	602.25
1902149	BAS-4	1,210	750	83.15	318.99	318.99	318.99	318.99	318.99	318.99
1902150	HIGHWAY	1,129	700	472.88	676.68	676.68	676.68	676.68	676.68	676.68
1902151	ART-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902152	ART-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902154	L H-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902266	COL-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902267	COL-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902268	COL-4	726	450	425.20	508.45	508.45	508.45	508.45	508.45	508.45
1902269	COL-5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902270	COL-6	686	425	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902271	COL-7	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902272	COL-8	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902286	CITY	323	200	150.39	215.20	215.20	215.20	215.20	215.20	215.20
1902842	ART-3	403	250	8.75	112.52	112.52	112.52	112.52	112.52	112.52
1902287	MALON	605	375	396.51	367.40	367.40	367.40	367.40	367.40	367.40
8000212	HIGHWAY 2	1,613	1,000	837.55	1,198.51	1,198.51	1,198.51	1,198.51	1,198.51	1,198.51
SUBTOTAL:		7,662	4,750	2,795.30	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00
GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN GABRIEL DISTRICT (1)										
1900510	1 S G	1,774	1,100	1,521.47	1,588.12	1,588.12	1,588.12	1,588.12	1,588.12	1,588.12
1900511	2 S G	1,452	900	490.54	512.03	512.03	512.03	512.03	512.03	512.03
1900512	2 GAR	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900513	1 GAR	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900514	3 SAX	565	350	144.55	150.88	150.88	150.88	150.88	150.88	150.88
1900515	1 SAX	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8000146	4 SAX	1,532	950	362.09	377.95	377.95	377.95	377.95	377.95	377.95
1902144	1 EAR	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902017	1 JEF	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902018	2 JEF	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902019	3 JEF	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902020	1 AZU	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902024	1 ENC	1,936	1,200	500.20	522.11	522.11	522.11	522.11	522.11	522.11
1902027	1 PER	697	432	43.97	45.90	45.90	45.90	45.90	45.90	45.90
1902030	1 GRA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902031	2 GID	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902032	1 GID	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1902034	1 FAR	1,936	1,200	348.52	363.79	363.79	363.79	363.79	363.79	363.79
1902035	2 ENC	968	600	652.50	681.09	681.09	681.09	681.09	681.09	681.09
1902461	2 GRA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
1902948	2 FAR	1,210	750	104.28	108.85	108.85	108.85	108.85	108.85
8000073	3 ENC	1,048	650	691.43	721.72	721.72	721.72	721.72	721.72
8000111	4 JEF	2,097	1,300	888.63	927.56	927.56	927.56	927.56	927.56
SUBTOTAL:		9,891	6,132	5,748.18	6,000.00	6,000.00	6,000.00	6,000.00	6,000.00
GREEN, WALTER									
8000027	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000028	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
HANSEN, ALICE									
8000029	2946	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
HANSON AGGREGATES WEST, INC. (LIVINGSTON-GRAHAM) (1)									
1900961	1 DUA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900963	1 KIN	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901492	1 EL	3,302	2,047	123.80	299.71	299.71	299.71	299.71	299.71
1901493	3 EL	4,563	2,829	0.12	0.29	0.29	0.29	0.29	0.29
1903006	4 EL	356	221	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		8,221	5,097	123.92	300.00	300.00	300.00	300.00	300.00
HARTLEY, DAVID									
8000029	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
HEMLOCK MUTUAL WATER COMPANY (1)									
1901178	NORTH	219	136	28.30	37.77	37.77	37.77	37.77	37.77
1902806	SOUTH	516	320	46.63	62.23	62.23	62.23	62.23	62.23
SUBTOTAL:		736	456	74.93	100.00	100.00	100.00	100.00	100.00
HERMETIC SEAL CORPORATION (1)									
--	--	NA	NA	50.31	70.00	70.00	70.00	70.00	70.00
SUBTOTAL:		NA	NA	50.31	70.00	70.00	70.00	70.00	70.00
INDUSTRY WATERWORKS SYSTEM, CITY OF (2)									
1902581	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902582	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902583	5TH AVE	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000078	3	2,420	1,500	0.00	0.00	0.00	0.00	0.00	0.00
8000096	4	3,871	2,400	0.00	0.00	0.00	0.00	0.00	0.00
8000097	5	1,936	1,200	1,386.39	1,920.00	1,920.00	1,920.00	1,920.00	1,920.00
SUBTOTAL:		8,226	5,100	1,386.39	1,920.00	1,920.00	1,920.00	1,920.00	1,920.00
KIYAN, HIDEO									
1902970	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
LA PUENTE VALLEY COUNTY WATER DISTRICT (2)									
1901459	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901460	2	2,016	1,250	323.61	4.00	4.00	4.00	4.00	4.00
1902859	3	2,016	1,250	56.85	4.00	4.00	4.00	4.00	4.00
8000062	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000209	5	4,033	2,500	2,881.76	3,628.00	3,628.00	3,628.00	3,628.00	3,628.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
SUBTOTAL:		8,065	5,000	3,262.22	3,636.00	3,636.00	3,636.00	3,636.00	3,636.00
LA VERNE, CITY OF									
1902322	SNIDO	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
LAKIN, KELLY									
8000158	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
LANDEROS, JOHN									
8000031	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
LOS ANGELES, COUNTY OF (1)									
1902579	1 WHI	2,710	1,680	0.00	0.00	0.00	0.00	0.00	0.00
1902580	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902663	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902664	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902665	5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902666	6	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000070	1 SF	3,349	2,076	936.35	1,242.59	1,242.59	1,242.59	1,242.59	1,242.59
8000074	2 SF	458	284	24.10	31.98	31.98	31.98	31.98	31.98
8000088	B RED	174	108	0.00	0.00	0.00	0.00	0.00	0.00
8000089	N LK	1,323	820	0.00	0.00	0.00	0.00	0.00	0.00
8000090	600	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902158	BN PK	2,087	1,294	0.00	0.00	0.00	0.00	0.00	0.00
8000150	3A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NA	WNOU	NA	NA	2,225.24	3,025.42	3,025.42	3,025.42	3,025.42	3,025.42
SUBTOTAL:		10,101	6,262	3,185.69	4,300.00	4,300.00	4,300.00	4,300.00	4,300.00
LOS FLORES MUTUAL WATER COMPANY									
1902098	1-LO	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
21902098	1-HI	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
LOUCKS, DAVID									
8000032	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
MAECHTLEN, J.J. TRUSTEE									
1902321	OLD60	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902322	SNIDO	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902323	M & N	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
MANNING BROS. ROCK & SAND COMPANY									
1900117	36230	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
MAPLE WATER COMPANY (SUBURBAN WATER SYSTEMS)									
1900042	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000109	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
MARTINEZ, FRANCES MERCY									
8000033	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA									
1900693	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900694	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
MILLERCOORS LLC (MILLER BREWERIES WEST, L.P. /MILLER BREWING COMPANY) (1)									
8000034	--	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000075	1	5,533	3,430	401.67	400.00	400.00	400.00	400.00	400.00
8000076	2	5,533	3,430	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		11,065	6,860	401.67	400.00	400.00	400.00	400.00	400.00
MONROVIA, CITY OF (2)									
1900417	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900418	2	2,742	1,700	27.24	24.05	22.87	21.76	20.70	19.69
1900419	3	2,742	1,700	1,670.04	1,474.18	1,402.12	1,333.94	1,269.16	1,207.05
1900420	4	2,903	1,800	1,572.93	1,388.45	1,320.59	1,256.37	1,195.36	1,136.86
1940104	5	3,871	2,400	1,435.20	1,266.88	1,204.95	1,146.36	1,090.69	1,037.31
8000171	6	3,871	2,400	2,177.87	1,922.45	1,828.48	1,739.57	1,655.09	1,574.09
SUBTOTAL:		16,130	10,000	6,883.28	6,076.00	5,779.00	5,498.00	5,231.00	4,975.00
MONROVIA NURSERY									
1902456	DIV 4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
MONTEREY PARK, CITY OF (2)									
1900453	1	968	600	97.34	142.47	142.47	142.47	142.47	142.47
1900454	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900455	3	968	600	0.00	0.00	0.00	0.00	0.00	0.00
1900456	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900457	5	2,903	1,800	1,169.42	1,711.56	1,711.56	1,711.56	1,711.56	1,711.56
1900458	6	968	600	0.00	0.00	0.00	0.00	0.00	0.00
1902372	7	1,290	800	0.00	0.00	0.00	0.00	0.00	0.00
1902373	8	2,903	1,800	0.00	0.00	0.00	0.00	0.00	0.00
1902690	9	2,903	1,800	536.63	1,085.41	1,085.41	1,085.41	1,085.41	1,085.41
1902818	10	2,903	1,800	1,443.91	2,213.30	2,213.30	2,213.30	2,213.30	2,213.30
1903033	12	3,226	2,000	2,742.60	3,014.06	3,014.06	3,014.06	3,014.06	3,014.06
1903092	14	1,129	700	0.00	0.00	0.00	0.00	0.00	0.00
8000126	FERN	1,613	1,000	271.11	696.80	696.80	696.80	696.80	696.80
8000196	15	3,226	2,000	1,878.53	3,049.41	3,049.41	3,049.41	3,049.41	3,049.41
SUBTOTAL:		25,002	15,500	8,139.54	11,913.00	11,913.00	11,913.00	11,913.00	11,913.00
MUNOZ, RALPH (1)									
MUNOZ	8000219	--	--	1.25	2.00	2.00	2.00	2.00	2.00
SUBTOTAL:		--	--	1.25	2.00	2.00	2.00	2.00	2.00
NAMIMATSU FARMS INC.									
1901034	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NICK TOMOVICH & SON									
8000037	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
NO. 17 WALNUT PLACE MUTUAL WATER COMPANY									
8000038	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
OWL ROCK PRODUCTS (ROBERTSON'S READY MIX)									
1900043	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902241	NA	3,205	1,987	0.00	0.00	0.00	0.00	0.00	0.00
1903119	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		3,205	1,987	0.00	0.00	0.00	0.00	0.00	0.00
PARK WATER CO.									
1901307	26-A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000039	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
PICO COUNTY WATER DISTRICT									
8000040	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
POLOPOLUS, ET AL									
1902169	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
RICHWOOD MUTUAL WATER COMPANY									
1901521	1 SOUTH	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901522	2 NORTH	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
ROWLAND WATER DISTRICT (1)									
--	--	NA	NA	66.45	80.00	80.00	80.00	80.00	80.00
SUBTOTAL:		NA	NA	66.45	80.00	80.00	80.00	80.00	80.00
RURBAN HOMES MUTUAL WATER COMPANY (1)									
1900120	1-NORTH	726	450	173.90	200.00	200.00	200.00	200.00	200.00
1900121	2-SOUTH	484	300	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		1,210	750	173.90	200.00	200.00	200.00	200.00	200.00
RUTH, ROY									
8000041	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
S.L.S. & N. INC. (1)									
8000151	NA	NA	NA	11.18	10.00	10.00	10.00	10.00	10.00
SUBTOTAL:		NA	NA	11.18	10.00	10.00	10.00	10.00	10.00
SAN GABRIEL COUNTRY CLUB (1)									
1900547	1	226	140	28.57	33.29	33.29	33.29	33.29	33.29
1902979	2	750	465	228.86	266.71	266.71	266.71	266.71	266.71
SUBTOTAL:		976	605	257.43	300.00	300.00	300.00	300.00	300.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
SAN GABRIEL COUNTY WATER DISTRICT (3)									
1901669	5 BRA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901670	6 BRA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901671	7	1,371	850	0.00	0.00	0.00	0.00	0.00	0.00
1901672	8	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902785	9	1,613	1,000	1,526.40	1,600.00	1,600.00	1,600.00	1,600.00	1,600.00
1902786	10	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000067	11	1,452	900	458.75	460.00	460.00	460.00	460.00	460.00
8000123	12	4,033	2,500	1,282.60	1,280.00	1,280.00	1,280.00	1,280.00	1,280.00
8000133	14	3,871	2,400	947.26	1,210.00	1,210.00	1,210.00	1,210.00	1,210.00
8000220	15	3,871	2,400	987.81	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00
SUBTOTAL:		16,211	10,050	5,202.82	5,750.00	5,750.00	5,750.00	5,750.00	5,750.00
SAN GABRIEL VALLEY WATER COMPANY (2)									
1900725	G4A	1,855	1,150	215.51	207.00	207.00	207.00	207.00	207.00
1900733	5A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902635	B1	1,815	1,125	0.00	0.00	0.00	0.00	0.00	0.00
8000112	B5C	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000038	--	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900729	1B	2,742	1,700	304.85	884.00	884.00	884.00	884.00	884.00
1902946	1C	2,452	1,520	49.88	206.00	206.00	206.00	206.00	206.00
8000081	1B4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000082	1B5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000102	1D	4,678	2,900	2,777.69	2,767.00	2,767.00	2,767.00	2,767.00	2,767.00
1900749	2C	1,924	1,193	0.00	0.00	0.00	0.00	0.00	0.00
1902857	2D	3,226	2,000	816.31	25.00	25.00	25.00	25.00	25.00
8000065	2E	4,436	2,750	1,361.67	1,008.00	1,008.00	1,008.00	1,008.00	1,008.00
1900736	8A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900746	8B	2,016	1,250	6.54	37.00	37.00	37.00	37.00	37.00
1900747	8C	2,097	1,300	1,077.21	749.00	749.00	749.00	749.00	749.00
1903103	8D	5,000	3,100	1,726.57	1,327.00	1,327.00	1,327.00	1,327.00	1,327.00
8000113	8E	4,839	3,000	51.58	11.00	11.00	11.00	11.00	11.00
1900739	11A	4,436	2,750	1,542.93	2,404.00	2,404.00	2,404.00	2,404.00	2,404.00
1900745	11B	2,984	1,850	1,201.17	1,766.00	1,766.00	1,766.00	1,766.00	1,766.00
1902713	11C	1,742	1,080	725.28	422.00	422.00	422.00	422.00	422.00
8000083	11B7	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902858	B4B	3,629	2,250	0.00	0.00	0.00	0.00	0.00	0.00
1902947	B4C	3,629	2,250	0.00	0.00	0.00	0.00	0.00	0.00
1900718	B5A	3,065	1,900	0.00	0.00	0.00	0.00	0.00	0.00
1900719	B5B	5,323	3,300	3,522.23	3,551.00	3,551.00	3,551.00	3,551.00	3,551.00
1900721	B6B	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903093	B6C	3,226	2,000	0.12	0.00	0.00	0.00	0.00	0.00
8000084	B6B2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000098	B6D	3,226	2,000	0.46	0.00	0.00	0.00	0.00	0.00
1902525	B2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000122	B7E	968	600	175.21	249.00	249.00	249.00	249.00	249.00
1901435	--	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901436	B8	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901437	B9	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901439	B11A	968	600	0.00	0.00	0.00	0.00	0.00	0.00
1901440	B7B	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000068	B7C	3,791	2,350	551.25	0.00	0.00	0.00	0.00	0.00
8000094	B7D	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000099	B9B	1,613	1,000	280.20	718.00	718.00	718.00	718.00	718.00
8000108	B11B	4,033	2,500	875.23	2,232.00	2,232.00	2,232.00	2,232.00	2,232.00
8000172	1E	4,436	2,750	1,787.09	1,626.00	1,626.00	1,626.00	1,626.00	1,626.00
8000160	B5D	4,839	3,000	88.43	392.00	392.00	392.00	392.00	392.00
8000169	8F	5,646	3,500	38.53	63.00	63.00	63.00	63.00	63.00
NA	G4B	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NA	1F	NA	NA	0.00	20.00	20.00	20.00	20.00	20.00
8000197	2F	NA	2,200	617.03	2,186.00	2,186.00	2,186.00	2,186.00	2,186.00
NA	B11C	3,226	2,000	0.00	0.00	0.00	0.00	0.00	0.00
8000203	B24A	4,033	2,500	115.95	507.00	507.00	507.00	507.00	507.00
8000204	B24B	4,033	2,500	78.31	539.00	539.00	539.00	539.00	539.00
8000187	B25A	4,516	2,800	3,040.71	1,809.00	1,809.00	1,809.00	1,809.00	1,809.00
8000188	B25B	4,516	2,800	3,922.23	2,322.00	2,322.00	2,322.00	2,322.00	2,322.00
8000189	B26A	1,774	1,100	812.48	884.00	884.00	884.00	884.00	884.00
8000190	B26B	1,774	1,100	1,869.66	1,296.00	1,296.00	1,296.00	1,296.00	1,296.00
8000205	B5E	5,565	3,450	4,705.35	3,886.00	3,886.00	3,886.00	3,886.00	3,886.00
NA	11D	NA	NA	0.00	20.00	20.00	20.00	20.00	20.00
NA	B24C	NA	NA	0.00	1,053.00	1,053.00	1,053.00	1,053.00	1,053.00
NA	B24D	NA	NA	0.00	20.00	20.00	20.00	20.00	20.00
SUBTOTAL:		124,069	79,118	34,337.65	35,186.00	35,186.00	35,186.00	35,186.00	35,186.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
SLOAN RANCHES									
1901198	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000045	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SIERRA LA VERNE COUNTRY CLUB (1)									
8000124	1	NA	NA	6.41	30.00	30.00	30.00	30.00	30.00
8000125	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000192	15 OFFSITE	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	6.41	30.00	30.00	30.00	30.00	30.00
SIERRA MADRE, CITY OF (1)									
8000193	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SONOCO PRODUCTS COMPANY (1)									
1912786	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902971	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000137	2	NA	NA	141.80	150.00	150.00	150.00	150.00	150.00
SUBTOTAL:		NA	NA	141.80	150.00	150.00	150.00	150.00	150.00
SOUTH COVINA WATER SERVICE									
1901606	102	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SOUTH PASADENA, CITY OF (2)									
1901679	GRAV 2	1,137	705	244.47	245	245	245	245	245
1901681	2 WIL	1,936	1,200	0.00	0	0	0	0	0
1901682	3 WIL	3,161	1,960	2,556.30	2,218	2,218	2,218	2,218	2,218
1903086	4 WIL	1,774	1,100	909.21	1,245	1,245	1,245	1,245	1,245
SUBTOTAL:		8,009	4,965	3,709.98	3,708	3,708	3,708	3,708	3,708
SOUTHERN CALIFORNIA EDISON COMPANY (1)									
1900342	1EB86	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900343	2EB76	211	131	0.00	0.00	0.00	0.00	0.00	0.00
8000046	110RH	NA	NA	0.39	0.00	0.00	0.00	0.00	0.00
8000047	MURAT	2,420	1,500	0.00	0.00	0.00	0.00	0.00	0.00
11900344	38EIS	1,415	877	0.00	0.00	0.00	0.00	0.00	0.00
21900344	38W	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		4,045	2,508	0.39	0.00	0.00	0.00	0.00	0.00
STERLING MUTUAL WATER COMPANY (1)									
1902085	SOUTH	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
1902096	NORTH	397	246	59.27	78.44	78.44	78.44	78.44	78.44
8000132	NEW SO	436	270	54.07	71.56	71.56	71.56	71.56	71.56
SUBTOTAL:		832	516	113.34	150.00	150.00	150.00	150.00	150.00
SUBURBAN WATER SYSTEMS (2)									
1900337	152W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901429	201W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901430	201W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901431	201W3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901432	201W5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901433	201W4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901434	201W6	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901596	147W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901597	142W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901598	139W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901599	139W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901600	139W3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901602	140W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901604	148W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901608	105W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901609	106W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901610	111W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901611	112W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901612	113W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901613	114W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901614	117W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901615	120W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901616	122W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901617	123W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901618	124W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901619	125W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901620	126W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901621	131W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901622	133W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901623	134W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901624	135W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901625	136W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901627	202W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902119	149W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902519	150W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902760	147W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902761	153W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902762	154W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902763	157W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903067	140W3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000069	139W4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000077	147W3	2,007	1,244	1,926.62	1,825.55	1,825.55	1,825.55	1,825.55	1,825.55
8000087	125W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000092	126W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000093	140W4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000145	140W5	2,797	1,734	1,182.24	1,006.96	1,006.96	1,006.96	1,006.96	1,006.96
8000095	139W5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000152	139W6	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902518	151W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902819	155W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902820	155W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901605	101W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901607	103W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000181	121W1	3,020	1,872	1,225.44	1,500.49	1,500.49	1,500.49	1,500.49	1,500.49
8000183	142W2	4,297	2,664	2,049.64	3,909.65	3,909.65	3,909.65	3,909.65	3,909.65
8000195	201W7	4,987	3,092	4,520.79	4,533.95	4,533.95	4,533.95	4,533.95	4,533.95
8000198	201W8	4,233	2,624	2,365.63	2,564.45	2,564.45	2,564.45	2,564.45	2,564.45
8000207	151W2	5,758	3,570	2,907.44	4,344.96	4,344.96	4,344.96	4,344.96	4,344.96

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
8000208	201W9	2,103	1,304	1,724.59	758.84	758.84	758.84	758.84	758.84
8000210	201W10	6,452	4,000	764.58	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		35,654	22,104	18,666.97	20,444.85	20,444.85	20,444.85	20,444.85	20,444.85
SUNNY SLOPE WATER COMPANY (2)									
1900026	8	2,724	1,689	1,304.87	1,821.14	1,821.14	1,821.14	1,821.14	1,821.14
1902792	9	2,710	1,680	516.10	720.29	720.29	720.29	720.29	720.29
8000048	10	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000157	13	2,831	1,755	416.08	580.70	580.70	580.70	580.70	580.70
SUBTOTAL:		8,265	5,124	2,237.05	3,122.13	3,122.13	3,122.13	3,122.13	3,122.13
TEXACO INC.									
1900001	14	519	322	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		519	322	0.00	0.00	0.00	0.00	0.00	0.00
TRAN, HIEU (1)									
TRAN	8000218	NA	NA	4.99	5.00	5.00	5.00	5.00	5.00
SUBTOTAL:		NA	NA	4.99	5.00	5.00	5.00	5.00	5.00
TYLER NURSERY									
8000049	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
UNITED CONCRETE PIPE CORPORATION									
8000067	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
UNITED ROCK PRODUCTS CORPORATION (1)									
1900106	IRW-1	NA	NA	297.79	283.48	283.48	283.48	283.48	283.48
1902532	SIERRA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903062	IRW-2	NA	NA	17.35	16.52	16.52	16.52	16.52	16.52
SUBTOTAL:		NA	NA	315.14	300.00	300.00	300.00	300.00	300.00
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY									
NA	EW4-3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NA	EW4-4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NA	EW4-8	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
NA	EW4-9	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		0	0	0.00	0.00	0.00	0.00	0.00	0.00
VALENCIA HEIGHTS WATER COMPANY (2)									
8000051	1	NA	NA	809.00	0.00	0.00	0.00	0.00	0.00
8000052	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000054	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000055	3A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000120	5	968	600	0.00	228.26	230.87	243.91	243.91	243.91
8000180	6	1,129	700	0.00	266.30	269.35	284.57	284.57	284.57
8000211	7	1,613	1,000	0.00	380.43	384.78	406.52	406.52	406.52
SUBTOTAL:		3,710	2,300	809.00	875.00	885.00	935.00	935.00	935.00
VALECITO WATER COMPANY									
1901435	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901436	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901437	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901438	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS					
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20	
1901439	5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1901440	6	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
VALLEY COUNTY WATER DISTRICT (2)										
1900027	E MAIN	2,742	1,700	1,775.25	1,557.33	1,557.33	1,557.33	1,557.33	1,557.33	
1900028	W MAIN	1,855	1,150	1,051.69	1,053.49	1,053.49	1,053.49	1,053.49	1,053.49	
1900029	MORADA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1900031	PADDY	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1900032	E NIXON (JOAN)	4,194	2,600	1,490.16	2,381.80	2,381.80	2,381.80	2,381.80	2,381.80	
1900034	ARROW	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1900035	B DAL	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1901307	11	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1902356	W NIXON (JOAN)	3,629	2,250	2,752.55	2,061.17	2,061.17	2,061.17	2,061.17	2,061.17	
8000039	PALM	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
8000060	LANTE (SA1-3)	5,484	3,400	2,480.70	1,758.07	1,758.07	1,758.07	1,758.07	1,758.07	
8000185	SA1-1	5,484	3,400	2,274.68	1,758.07	1,758.07	1,758.07	1,758.07	1,758.07	
8000186	SA1-2	3,871	2,400	0.00	1,240.99	1,240.99	1,240.99	1,240.99	1,240.99	
SUBTOTAL:		27,260	16,900	11,825.03	11,810.92	11,810.92	11,810.92	11,810.92	11,810.92	
VALLEY VIEW MUTUAL WATER COMPANY (2)										
1900363	1	310	192	0.00	0.00	0.00	0.00	0.00	0.00	
1900364	2	766	475	623.97	670.00	670.00	670.00	670.00	670.00	
1900365	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		1,076	667	623.97	670.00	670.00	670.00	670.00	670.00	
VIA TRUST										
1903012	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
VIETNAMESE AMERICAN BUDDHIST TEMPLE (1)										
8000191	NA	NA	NA	0.82	5.00	5.00	5.00	5.00	5.00	
SUBTOTAL:		NA	NA	0.82	5.00	5.00	5.00	5.00	5.00	
VULCAN MATERIALS COMPANY (CALMAT COMPANY) (1)										
1902920	E DUR	6,386	3,959	0.00	0.00	0.00	0.00	0.00	0.00	
1903088	1 REL	4,068	2,522	420.78	439.50	446.83	454.15	461.48	468.80	
8000063	W DUR	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
NA	TEMP/NEW PERM	NA	NA	153.66	160.50	163.17	165.85	168.52	171.20	
SUBTOTAL:		10,454	6,481	574.44	600.00	610.00	620.00	630.00	640.00	
WHITTIER, CITY OF (1)										
1901745	9	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1901746	10	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1901747	11	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1901748	12	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
1901749	13	1,774	1,100	262.30	273.66	273.66	273.66	273.66	273.66	
8000021	FROM	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
8000071	15	5,968	3,700	974.37	1,016.59	1,016.59	1,016.59	1,016.59	1,016.59	
8000110	16	7,259	4,500	3,555.69	3,709.75	3,709.75	3,709.75	3,709.75	3,709.75	
8000135	17	6,452	4,000	0.00	0.00	0.00	0.00	0.00	0.00	
8000136	18	6,452	4,000	0.00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		27,905	17,300	4,792.36	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2015-16 TO 2019-20

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2014-15 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2015-16	2016-17	2017-18	2018-19	2019-20
WILMOTT, ERMA M.									
8000006	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
WOODLAND, RICHARD									
1902949	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902950	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
WORKMAN MILL INVESTMENT COMPANY (RINCON DITCH COMPANY) (1)									
1902790	4	2,153	1,335	186.91	100.00	100.00	100.00	100.00	100.00
SUBTOTAL:		2,153	1,335	186.91	100.00	100.00	100.00	100.00	100.00
WORKMAN MILL INVESTMENT COMPANY (RINCON IRRIGATION COMPANY) (1)									
1900132	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900095	2	1,428	885	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		1,428	885	0.00	0.00	0.00	0.00	0.00	0.00
WORKMAN MILL INVESTMENT COMPANY (ROSE HILLS MEMORIAL PARK) (1)									
1900052	3	1,192	739	0.00	0.00	0.00	0.00	0.00	0.00
1900094	1	673	417	326.29	500.00	500.00	500.00	500.00	500.00
SUBTOTAL:		1,865	1,156	326.29	500.00	500.00	500.00	500.00	500.00
TOTAL		573,996	358,056	196,408.51	215,236.15	221,238.88	221,736.31	224,161.35	224,918.59

NOTES :

GROUNDWATER PRODUCTION AND DEMANDS IN ACRE-FEET

GPM : GALLONS PER MINUTE

NA : NOT AVAILABLE

(1) GROUNDWATER DEMANDS PROJECTED BY WATERMASTER

(2) PROJECTED GROUNDWATER DEMANDS PROVIDED BY PRODUCER

(3) PROJECTED GROUNDWATER DEMANDS PROVIDED BY PRODUCER AND ADJUSTED BY WATERMASTER

APPENDIX B.

SIMULATED CHANGES IN GROUNDWATER ELEVATIONS AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

APPENDIX B

SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)
			2014-15	2019-20	
ADAMS RANCH MUTUAL WATER COMPANY					
01	1902106	INACTIVE	147.41	145.89	-1.52
02	1902689	INACTIVE			
03	8000182	ACTIVE			
ALHAMBRA, CITY OF					
MOEL (08)	1900010	ACTIVE	126.84	124.04	-2.80
09	1900011	ACTIVE	133.48	130.93	-2.55
10	1900012	ACTIVE	130.90	128.60	-2.30
12	1900013	ACTIVE	131.98	129.25	-2.73
13	1900014	INACTIVE	129.39	127.83	-1.56
14	1900015	ACTIVE	126.05	124.05	-2.00
15	1900016	ACTIVE	128.98	128.53	-0.45
LON 1	1903014	ACTIVE	117.77	116.09	-1.68
LON 2	1900017	ACTIVE			
GARF	1900018	INACTIVE	139.09	136.64	-2.45
11	1903014	ACTIVE	127.60	125.04	-2.56
07	1903097	ACTIVE	127.20	124.46	-2.74
AMARILLO MUTUAL WATER COMPANY					
01	1900791	ACTIVE	146.93	145.34	-1.59
02	1900792	INACTIVE			
ARCADIA, CITY OF					
LON 1	1901013	ACTIVE	167.71	166.25	-1.46
LON 2	1901014	ACTIVE	168.34	166.85	-1.49
CAM REAL 3	8000213	ACTIVE	166.37	165.08	-1.29
ST JO 2	8000177	ACTIVE	192.44	186.77	-5.67
BAL 2	1902791	INACTIVE	153.34	151.65	-1.69
PECK 1	1902854	ACTIVE	162.48	160.05	-2.43
L OAK 1	8000127	ACTIVE	163.16	161.02	-2.14
LGY 3	8000214	ACTIVE	156.11	154.54	-1.57
AZUSA, CITY OF (AZUSA AGRICULTURE WATER COMPANY, AZUSA VALLEY WATER COMPANY)					
05 (01)	1902533	ACTIVE	557.61	588.35	30.74
06 (03)	1902535	ACTIVE	559.55	589.03	29.48
GENESIS 1 (04)	1902536	DESTROYED	259.94	255.93	-4.01
GENESIS 2 (05)	1902537	INACTIVE	245.53	241.50	-4.03
GENESIS 3 (06)	1902538	DESTROYED	260.66	257.31	-3.35
01 (07)	8000072	ACTIVE	571.72	610.01	38.29
03 (08)	8000086	ACTIVE	571.31	613.73	42.42

APPENDIX B

SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)
			2014-15	2019-20	
02 (1 NORTH)	1902457	ACTIVE	572.36	615.10	42.74
04 (2 SOUTH)	1902458	ACTIVE	570.94	609.56	38.62
AVWC 01	1902113	DESTROYED	184.12	185.19	1.07
AVWC 02	1902114	DESTROYED	196.13	199.48	3.35
08 (AVWC 04)	1902115	ACTIVE	559.10	587.44	28.34
07 (AVWC 05)	1902116	ACTIVE	557.05	585.85	28.80
09 (AVWC 06)	1902117	INACTIVE	246.74	245.00	-1.74
10 (AVWC 08)	8000103	ACTIVE	238.08	237.65	-0.43
11	8000178	ACTIVE	573.29	618.35	45.06
12	8000179	ACTIVE	576.00	623.60	47.60
BASELINE WATER COMPANY					
01	1901200	DESTROYED	933.09	946.11	13.02
02	1901201	DESTROYED			
03	1901202	DESTROYED	929.66	944.73	15.07
CALIFORNIA-AMERICAN WATER COMPANY/DUARTE SYSTEM					
STA FE	1900354	ACTIVE	194.94	191.62	-3.32
B V	1900355	ACTIVE	188.03	184.86	-3.17
B V 2	8000216	ACTIVE			
MT AVE	1900356	DESTROYED	185.45	183.40	-2.05
FISH C	1900358	INACTIVE	574.17	611.96	37.79
WILEY	1902907	ACTIVE	559.04	589.93	30.89
CR HV	1903018	ACTIVE	197.68	196.58	-1.10
ENCANTO	8000139	ACTIVE	561.46	592.62	31.16
LAS L2	8000140	ACTIVE	560.62	596.00	35.38
BACON	1900497	ACTIVE	561.52	596.56	35.04
CALIFORNIA-AMERICAN WATER COMPANY/SAN MARINO SYSTEM					
GUESS	1900918	INACTIVE	146.21	144.78	-1.43
MIVW 2	1900920	ACTIVE	145.52	143.84	-1.68
RIC 1	1900921	INACTIVE	140.04	138.72	-1.32
IVAR 1	1900923	DESTROYED	151.77	149.73	-2.04
GRAND	1900926	ACTIVE	140.70	139.34	-1.36
ROSEMEAD	1900927	ACTIVE	140.87	139.50	-1.37
ROANOKE	1900934	INACTIVE	135.36	133.39	-1.97
LONGDEN	1900935	ACTIVE	120.69	118.81	-1.88
BR 1	1901441	INACTIVE	159.22	156.52	-2.70
HOWLAND	1902424	ACTIVE	153.05	151.32	-1.73
BR 2	1902787	INACTIVE	158.54	155.83	-2.71

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SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)
			2014-15	2019-20	
MAR 3	1903019	ACTIVE	151.07	149.43	-1.64
DELMAR	1903059	ACTIVE	107.75	106.28	-1.47
HALL 2	8000175	ACTIVE	155.45	153.70	-1.75
CALIFORNIA COUNTRY CLUB					
ARTES	1902531	STANDBY	171.68	169.70	-1.98
SYCAMORE	1903084	STANDBY	171.87	169.85	-2.02
CALIFORNIA DOMESTIC WATER COMPANY					
02	1901181	ACTIVE	163.10	160.99	-2.11
06	1902967	ACTIVE	160.60	158.25	-2.35
03	1903057	ACTIVE	159.99	157.81	-2.18
08	1903081	ACTIVE	163.76	161.77	-1.99
05A	8000100	ACTIVE	159.40	156.91	-2.49
14	8000174	INACTIVE	163.43	161.32	-2.11
CHAMPION MUTUAL WATER COMPANY					
02	1902816	ACTIVE	166.67	163.56	-3.11
03	8000121	ACTIVE			
CITRUS VALLEY MEDICAL CENTER, QUEEN OF THE VALLEY CAMPUS (QUEEN OF THE VALLEY HOSPITAL)					
NA	8000138	ACTIVE	182.66	182.60	-0.06
COINER, JAMES W., DBA COINER NURSERY (WOODLAND FARM INC.)					
03	1902951	INACTIVE	168.23	166.59	-1.64
05R	1903072	ACTIVE	169.76	168.11	-1.65
COVINA, CITY OF					
01	1901685	INACTIVE	249.07	257.01	7.94
02 (GRAND)	1901686	INACTIVE	357.43	361.81	4.38
COVINA IRRIGATING COMPANY					
CONTR	1900881	INACTIVE	233.13	233.50	0.37
BAL 3	1900882	ACTIVE	177.25	176.56	-0.69
BAL 1	1900885	ACTIVE	177.58	177.04	-0.54
BAL 2	1900883	ACTIVE			
VALEN	1900880	INACTIVE	493.16	498.41	5.25
CROWN CITY PLATING COMPANY					
01	8000012	INACTIVE	153.15	151.39	-1.76

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SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)
			2014-15	2019-20	
DEL RIO MUTUAL WATER COMPANY					
BURKETT	1900331	ACTIVE	169.28	167.09	-2.19
DRIFTWOOD DAIRY					
01	1902924	ACTIVE	160.44	158.09	-2.35
EAST PASADENA WATER COMPANY, LTD.					
09	1901508	ACTIVE	150.11	148.24	-1.87
11	8000217	ACTIVE			
EL MONTE, CITY OF					
02A	1901692	ACTIVE	163.52	160.24	-3.28
03	1901693	INACTIVE	164.31	161.05	-3.26
04	1901694	INACTIVE	166.00	162.55	-3.45
05	1901695	DESTROYED	161.28	158.50	-2.78
10	1901699	ACTIVE	164.39	161.17	-3.22
MT VW	1902612	DESTROYED	167.88	165.58	-2.30
12	1903137	ACTIVE	162.78	159.53	-3.25
13	8000101	ACTIVE	161.93	158.80	-3.13
GLENDORA, CITY OF					
11-E	1900826	ACTIVE	534.67	530.41	-4.26
08-E	1900829	ACTIVE	563.30	597.28	33.98
09-E	1900830	ACTIVE			
12-G	1900827	ACTIVE			
10-E	1900828	ACTIVE	539.70	534.32	-5.38
07-G	1900831	INACTIVE	243.95	241.31	-2.64
01-E	1901523	INACTIVE	545.06	538.37	-6.69
13-E	8000184	ACTIVE			
02-E	1901526	ACTIVE	545.02	538.55	-6.47
03-G	1901525	INACTIVE	209.80	212.50	2.70
04-E	1901524	INACTIVE			
05-E	8000149	ACTIVE	565.87	596.12	30.25
GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN DIMAS DISTRICT					
BAS-3	1902148	ACTIVE	888.77	891.31	2.54
BAS-4	1902149	ACTIVE	875.59	876.83	1.24
HIGHWAY	1902150	ACTIVE	889.57	889.83	0.26
HIGHWAY 2	8000212	ACTIVE	894.67	894.13	-0.54
ART-3	1902842	ACTIVE	882.80	883.35	0.55
COL-4	1902268	INACTIVE	608.46	586.45	-22.01
COL-6	1902270	INACTIVE	606.93	585.08	-21.85
COL-7	1902271	DESTROYED	649.31	625.47	-23.84

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SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)
			2014-15	2019-20	
COL-8	1902272	INACTIVE	780.83	765.80	-15.03
CITY	1902286	ACTIVE	1032.05	1026.70	-5.35
MALON	1902287	ACTIVE	1007.70	1000.65	-7.05
GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN GABRIEL VALLEY DISTRICT					
S G 1	1900510	ACTIVE	120.36	119.15	-1.21
S G 2	1900511	ACTIVE			
GAR 1	1900513	INACTIVE	138.23	136.84	-1.39
GAR 2	1900512	INACTIVE			
SAX 1	1900515	DESTROYED	132.83	132.40	-0.43
SAX 3	1900514	ACTIVE			
SAX 4	8000146	ACTIVE			
EARL 1	1902144	INACTIVE	146.03	144.15	-1.88
JEF 1	1902017	DESTROYED	168.25	166.94	-1.31
JEF 3	1902019	INACTIVE			
JEF 4	8000111	ACTIVE			
AZU 1	1902020	DESTROYED	157.85	155.85	-2.00
ENC 1	1902024	ACTIVE	145.71	144.22	-1.49
ENC 2	1902035	ACTIVE	144.35	142.88	-1.47
ENC 3	8000073	ACTIVE			
PER 1	1902027	ACTIVE	160.11	157.83	-2.28
GRA 1	1902030	INACTIVE	181.56	179.58	-1.98
GRA 2	1902461	INACTIVE			
GID 1	1902032	DESTROYED	159.43	157.03	-2.40
GID 2	1902031	DESTROYED			
FAR 1	1902034	ACTIVE	164.11	161.43	-2.68
FAR 2	1902948	ACTIVE	163.73	161.10	-2.63
HANSON AGGREGATES WEST, INC. (LIVINGSTON-GRAHAM)					
EL 4	1903006	ACTIVE	172.74	171.11	-1.63
EL 1	1901492	ACTIVE	172.96	171.42	-1.54
EL 3	1901493	ACTIVE			
HARTLEY, DAVID					
NA	8000085	INACTIVE	727.58	707.61	-19.97
HEMLOCK MUTUAL WATER COMPANY					
NORTH	1901178	ACTIVE	168.56	165.58	-2.98
SOUTH	1902806	ACTIVE			
INDUSTRY WATERWORKS SYSTEM, CITY OF					
01	1902581	INACTIVE	168.03	166.41	-1.62
03	8000078	STANDBY			
04	8000096	STANDBY			
02	1902582	INACTIVE	168.03	166.42	-1.61
05	8000097	ACTIVE			
LA PUENTE VALLEY COUNTY WATER DISTRICT					
02	1901460	ACTIVE	163.30	160.79	-2.51

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SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)
			2014-15	2019-20	
04	8000062	STANDBY			
03	1902859	ACTIVE	156.89	154.64	-2.25
05	NA	ACTIVE			
LOS ANGELES, COUNTY OF					
KEY WELL	3030F	MONITORING	175.40	173.69	-1.71
WHI 1	1902579	INACTIVE	165.64	162.11	-3.53
02	1902580	DESTROYED	168.20	164.49	-3.71
03A	8000150	DESTROYED	160.64	157.52	-3.12
04	1902664	DESTROYED	157.79	154.80	-2.99
05	1902665	DESTROYED	155.59	152.74	-2.85
06	1902666	DESTROYED	156.29	153.50	-2.79
SF 1	8000070	ACTIVE	188.15	190.42	2.27
BIG RED	8000088	INACTIVE	170.22	166.78	-3.44
NEW LAKE	8000089	INACTIVE	165.11	161.72	-3.39
MILLERCOORS LLC (MILLER BREWERIES WEST, L.P./MILLER BREWING COMPANY)					
01	8000075	ACTIVE	197.73	198.87	1.14
02	8000076	INACTIVE	198.32	199.08	0.76
MONROVIA, CITY OF					
02	1900418	ACTIVE	166.95	165.72	-1.23
03	1900419	ACTIVE			
04	1900420	ACTIVE	170.36	169.35	-1.01
05	1940104	ACTIVE	168.61	167.49	-1.12
06	8000171	ACTIVE	167.60	166.39	-1.21
MONROVIA NURSERY					
DIV 4	1902456	DESTROYED	493.16	498.41	5.25
MONTEREY PARK, CITY OF					
01	1900453	ACTIVE	141.85	140.22	-1.63
03	1900455	INACTIVE	136.74	135.20	-1.54
05	1900457	ACTIVE	129.50	127.93	-1.57
06	1900458	INACTIVE	138.11	136.40	-1.71
07	1902372	INACTIVE	154.02	151.37	-2.65
08	1902373	INACTIVE	155.59	152.78	-2.81
09	1902690	ACTIVE	153.67	150.96	-2.71
10	1902818	ACTIVE	123.30	122.21	-1.09
12	1903033	ACTIVE	152.13	149.45	-2.68
14	1903092	INACTIVE	150.28	148.04	-2.24
FERN	8000126	ACTIVE	135.70	134.03	-1.67

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SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)
			2014-15	2019-20	
15	8000196	ACTIVE	155.31	152.42	-2.89
OWL ROCK PRODUCTS COMPANY					
NA	1902241	INACTIVE	175.39	175.01	-0.38
NA	1903119	INACTIVE	571.14	602.92	31.78
POLOPOLUS ET AL.					
01	1902169	INACTIVE	175.47	174.91	-0.56
RURBAN HOMES MUTUAL WATER COMPANY					
NORTH 1	1900120	ACTIVE	169.21	166.19	-3.02
SOUTH 2	1900121	ACTIVE			
SAN GABRIEL COUNTRY CLUB					
01	1900547	INACTIVE	125.55	123.77	-1.78
02	1902979	ACTIVE			
SAN GABRIEL COUNTY WATER DISTRICT					
05 BRA	1901669	INACTIVE	143.63	142.22	-1.41
07	1901671	ACTIVE	118.91	117.14	-1.77
08	1901672	INACTIVE	128.75	126.06	-2.69
09	1902785	ACTIVE	131.35	129.61	-1.74
10	1902786	INACTIVE	136.40	134.80	-1.60
11	8000067	ACTIVE	136.95	135.66	-1.29
12	8000123	ACTIVE	137.17	135.91	-1.26
14	8000133	ACTIVE	129.50	128.96	-0.54
SAN GABRIEL VALLEY WATER COMPANY					
G4A	1900725	ACTIVE	146.45	144.90	-1.55
B1	1902635	INACTIVE	172.54	169.64	-2.90
B5A	1900718	INACTIVE	163.71	161.94	-1.77
B5B	1900719	ACTIVE			
B5C	8000112	INACTIVE			
B5D	8000160	ACTIVE	165.22	163.38	-1.84
B5E	NA	ACTIVE	163.54	161.80	-1.74
B25A	8000187	ACTIVE	130.31	127.07	-3.24
B25B	8000188	ACTIVE			
B26A	8000189	ACTIVE	152.45	148.88	-3.57
B26B	8000190	ACTIVE			
8A	1900736	INACTIVE	156.23	153.32	-2.91
8B	1900746	ACTIVE			
8C	1900747	ACTIVE			
8E	8000113	ACTIVE			
8D	1903103	ACTIVE	155.91	153.04	-2.87
8F	8000169	ACTIVE			
1B	1900729	ACTIVE	160.69	157.57	-3.12

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WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)
			2014-15	2019-20	
1C	1902946	ACTIVE			
1D	8000102	ACTIVE			
1E	8000172	ACTIVE			
2C	1900749	DESTROYED	159.03	156.34	-2.69
2D	1902857	ACTIVE			
2E	8000065	ACTIVE			
2F	8000197	ACTIVE			
11A	1900739	ACTIVE	166.43	164.27	-2.16
11B	1900745	ACTIVE			
11C	1902713	ACTIVE	169.34	167.08	-2.26
B4B	1902858	INACTIVE	159.36	155.95	-3.41
B4C	1902947	INACTIVE			
B6C	1903093	ACTIVE	165.97	163.22	-2.75
B6D	8000098	ACTIVE			
B7C	8000068	ACTIVE	175.55	176.01	0.46
B7E	8000122	ACTIVE			
B2	1902525	INACTIVE	172.64	169.57	-3.07
B11A	1901439	INACTIVE	167.85	167.42	-0.43
B11B	8000108	ACTIVE			
B11C	NA	PLANNED			
B9B	8000099	ACTIVE	173.79	173.08	-0.71
B24A	8000203	ACTIVE	186.60	187.27	0.67
B24B	8000204	ACTIVE			
SIERRA LA VERNE COUNTRY CLUB					
01	8000124	ACTIVE	1054.11	1055.44	1.33
02	8000125	INACTIVE	1062.35	1066.91	4.56
SONOCO PRODUCTS COMPANY					
01	1912786	ACTIVE	168.12	166.30	-1.82
02	1902971	ACTIVE			
SOUTH PASADENA, CITY OF					
GRAV 2	1901679	ACTIVE	137.38	135.38	-2.00
WIL 2	1901681	INACTIVE	124.85	122.22	-2.63
WIL 3	1901682	ACTIVE	123.13	120.53	-2.60
WIL 4	1903086	ACTIVE			
SOUTHERN CALIFORNIA EDISON COMPANY					
110RH	8000046	INACTIVE	174.88	173.85	-1.03
MURAT	8000047	INACTIVE	172.67	169.68	-2.99
2EB76	1900343	INACTIVE	144.31	143.03	-1.28
STERLING MUTUAL WATER COMPANY					
NEW SO.	8000132	ACTIVE	166.62	163.57	-3.05
NORTH	1902096	ACTIVE			
SUBURBAN WATER SYSTEMS					
114W-1	1901613	INACTIVE	209.16	209.98	0.82

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WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)
			2014-15	2019-20	
121W-1	8000181	ACTIVE	188.19	188.12	-0.07
125W-2	8000087	INACTIVE	238.92	238.42	-0.50
126W-2	8000092	INACTIVE	242.97	242.96	-0.01
139W-2	1901599	INACTIVE	179.63	179.06	-0.57
139W-4	8000069	INACTIVE			
139W-5	8000095	INACTIVE	179.41	178.79	-0.62
139W-6	8000152	INACTIVE			
140W-3	1903067	STANDBY	170.28	168.88	-1.40
140W-4	8000093	INACTIVE			
140W-5	8000145	ACTIVE			
142W-2	8000183	ACTIVE	183.30	183.31	0.01
147W-3	8000077	ACTIVE	153.99	153.86	-0.13
151W-2	8000207	ACTIVE	183.42	183.53	0.11
155W-1	1902819	INACTIVE	263.08	262.31	-0.77
201W-2	1901430	DESTROYED	163.26	159.90	-3.36
201W-9	8000208	ACTIVE	163.63	160.34	-3.29
201W-4	1901433	DESTROYED			
201W-5	1901432	DESTROYED	166.57	163.36	-3.21
201W-6	1901434	DESTROYED	166.66	163.36	-3.30
201W-7	8000195	ACTIVE	161.45	158.08	-3.37
201W-8	8000198	ACTIVE	163.24	159.90	-3.34
201W-10	8000210	ACTIVE	166.04	162.66	-3.38
SUNNY SLOPE WATER COMPANY					
08	1900026	ACTIVE	137.93	136.43	-1.50
09	1902792	ACTIVE			
10	8000048	INACTIVE	148.76	146.88	-1.88
13	8000157	ACTIVE	140.25	138.58	-1.67
TYLER NURSERY					
NA	8000049	INACTIVE	169.28	165.46	-3.82
UNITED CONCRETE PIPE CORPORATION					
NA	8000067	INACTIVE	172.16	171.99	-0.17

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WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)
			2014-15	2019-20	
UNITED ROCK PRODUCTS CORPORATION					
IRW-1	1900106	ACTIVE	176.67	176.45	-0.22
IRW-2	1903062	ACTIVE	177.31	177.02	-0.29
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY					
MW4-1	NA	MONITORING	165.87	162.69	-3.18
MW4-2	NA	MONITORING	166.80	163.66	-3.14
MW4-3	NA	MONITORING	165.54	162.37	-3.17
MW4-4	NA	MONITORING	168.38	166.46	-1.92
MW4-5	NA	MONITORING	168.65	166.68	-1.97
MW4-6	NA	MONITORING	168.90	166.89	-2.01
MW4-7	NA	MONITORING	165.79	162.38	-3.41
MW4-8	NA	MONITORING	167.55	163.81	-3.74
MW4-9	NA	MONITORING	168.31	164.70	-3.61
MW4-10	NA	MONITORING	171.46	168.08	-3.38
MW4-11	NA	MONITORING	173.39	170.64	-2.75
MW5-1	NA	MONITORING	178.57	178.33	-0.24
MW5-3	NA	MONITORING	184.73	187.10	2.37
MW5-5	NA	MONITORING	172.56	169.47	-3.09
MW5-8	NA	MONITORING	173.95	171.08	-2.87
MW5-11	NA	MONITORING	187.08	189.60	2.52
MW5-13	NA	MONITORING	202.07	203.76	1.69
MW5-15	NA	MONITORING	175.87	173.71	-2.16
MW5-17	NA	MONITORING	191.73	194.13	2.40
MW5-18	NA	MONITORING	190.67	193.22	2.55
MW5-19	NA	MONITORING	166.90	165.07	-1.83
MW5-20	NA	MONITORING	167.87	164.97	-2.90
MW5-22	NA	MONITORING	167.51	165.68	-1.83
MW5-23	NA	MONITORING	161.84	159.04	-2.80
MW6-1	NA	MONITORING	178.20	177.29	-0.91
MW6-2	NA	MONITORING	172.98	170.92	-2.06
MW6-4	NA	MONITORING	217.78	219.21	1.43
MW6-5	NA	MONITORING	219.05	219.96	0.91
MW6-6	NA	MONITORING	246.56	246.61	0.05
MW6-7	NA	MONITORING	293.80	292.93	-0.87
MW6-8	NA	MONITORING	351.41	352.02	0.61

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WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)
			2014-15	2019-20	
EW4-3	NA	REMEDIAL	166.63	163.39	-3.24
EW4-4	NA	REMEDIAL	166.51	163.41	-3.10
EW4-5	8000200	REMEDIAL	164.76	161.60	-3.16
EW4-9	NA	REMEDIAL			
EW4-6	8000201	REMEDIAL	164.86	161.64	-3.22
EW4-10	NA	REMEDIAL			
EW4-7	8000202	REMEDIAL	166.83	163.78	-3.05
EW4-8	NA	REMEDIAL	166.67	163.47	-3.20
VALENCIA HEIGHTS WATER COMPANY					
01	8000051	INACTIVE	256.50	257.05	0.55
02	8000052	INACTIVE			
06	8000180	ACTIVE			
04	8000054	INACTIVE	236.87	240.21	3.34
05	8000120	ACTIVE	275.84	276.19	0.35
07	8000211	ACTIVE			
VALLEY COUNTY WATER DISTRICT					
E MAINE	1900027	ACTIVE	171.25	171.08	-0.17
W MAINE	1900028	ACTIVE			
MORADA	1900029	INACTIVE	195.04	197.66	2.62
E NIXON (JOAN)	1900032	ACTIVE	168.63	168.38	-0.25
W NIXON (JOAN)	1902356	ACTIVE			
ARROW LANTE (SA1-3)	1900034 8000060	INACTIVE ACTIVE	176.47	177.79	1.32
PALM	8000039	INACTIVE	175.08	172.73	-2.35
B DALTON	1900035	INACTIVE	177.51	176.18	-1.33
PADDY LN	1900031	INACTIVE	172.50	169.73	-2.77
SA1-1	8000185	ACTIVE	178.86	180.57	1.71
SA1-2	8000186	ACTIVE	178.25	179.16	0.91
VALLEY VIEW MUTUAL WATER COMPANY					
01	1900363	ACTIVE	173.87	171.94	-1.93
02	1900364	ACTIVE			
VULCAN MATERIALS COMPANY (CALMAT COMPANY)					
DUR E	1902920	ACTIVE	173.87	171.94	-1.93
DUR W	8000063	ACTIVE			
REL 1	1903088	ACTIVE	206.98	206.57	-0.41

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WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	SIMULATED ELEVATION (1)		CHANGE (2) (FEET)
			2014-15	2019-20	
WHITTIER, CITY OF					
13	1901749	ACTIVE	165.46	161.96	-3.50
15	8000071	ACTIVE	163.63	160.16	-3.47
16	8000110	ACTIVE	162.52	159.09	-3.43
17	8000135	INACTIVE			
18	8000136	INACTIVE	164.22	160.83	-3.39
WOODLAND, RICHARD					
01	1902949	INACTIVE	167.81	166.18	-1.63
02	1902950	INACTIVE			
WORKMAN MILL INVESTMENT COMPANY (RINCON DITCH COMPANY)					
04	1902790	ACTIVE	167.69	164.54	-3.15
WORKMAN MILL INVESTMENT COMPANY (RINCON IRRIGATION COMPANY)					
02	1900095	INACTIVE	168.13	164.98	-3.15
WORKMAN MILL INVESTMENT COMPANY (ROSE HILLS MEMORIAL PARK)					
03	1900052	ACTIVE	167.77	164.61	-3.16
01	1900094	INACTIVE	168.78	165.70	-3.08
AVERAGE CHANGE					0.43

(1) SIMULATED ELEVATION IN FEET ABOVE MEAN SEA LEVEL
(2) DIFFERENCE BETWEEN 2018-19 AND 2013-14 SIMULATED ELEVATIONS

APPENDIX C.

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS AND NITRATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
ADAMS RANCH MUTUAL WATER COMPANY									
01	MUNICIPAL	INACTIVE	TCE	2.2	05/88	ND	02/97		
			NO3	97.0	04/92	38.9	02/97		
			CLO4	NA	NA	NA	NA		
02	MUNICIPAL	INACTIVE	TCE	3.5	08/86	2.5	09/86		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
03	MUNICIPAL	ACTIVE	TCE	22.0	05/15	14.0	05/15	VULNERABLE (VOCS) (1)	
			PCE	10.0	05/15	6.6	05/15		
			NO3	21.0	03/04	20.0	05/15		
			CLO4	ND	08/08	ND	07/14		
			AS	ND	05/03	ND	05/15		
			CR6	1.1	08/13	1.1	08/13		
ALHAMBRA, CITY OF									
07	MUNICIPAL	ACTIVE	TCE	13.4	08/91	6.4	04/15	VULNERABLE (VOCS AND NO3) (1)	
			PCE	0.8	04/07	ND	04/15		
			C-1,2-DCE	1.6	02/05	0.7	04/15		
			CTC	0.6	02/85	ND	01/15		
			NO3	53.2	07/93	41.0	04/15		
			CLO4	2.4	10/07	ND	04/14		
			AS	0.7	07/96	ND	07/10		
			CR6	9.0	07/01	6.4	09/13		
09	MUNICIPAL	ACTIVE	TCE	21.1	08/08	1.7	04/15	VULNERABLE (VOCS, NO3, AND CLO4)	
			C-1,2-DCE	2.3	10/07	ND	01/15		
			CF	1.6	04/11	ND	01/15		
			NO3	59	02/15	57	05/15		
			CLO4	4.7	02/14	ND	05/15		
			AS	0.9	07/96	ND	02/14		
			CR6	5.7	12/05	3.2	09/13		
10	IRRIGATION	ACTIVE	TCE	30.1	02/09	22.0	10/10		
			C-1,2-DCE	5.8	03/05	ND	10/10		
			1,1-DCE	0.5	03/05	ND	10/10		
			NO3	56.3	01/07	55.0	10/10		
			CLO4	ND	08/97	ND	08/97		
11	MUNICIPAL	ACTIVE	PCE	4.7	05/12	2.5	05/15	VULNERABLE (VOCS AND NO3) (1)	
			TCE	4.2	05/89	ND	05/15		
			C-1,2-DCE	1.5	04/08	ND	07/14		
			NO3	48.0	10/12	40	05/15		
			CLO4	ND	08/97	ND	04/15		
			AS	0.8	07/96	ND	04/15		
			CR6	7.7	06/01	5.4	09/13		
12	MUNICIPAL	ACTIVE	TCE	39.4	08/08	21	04/15	VULNERABLE (VOCS AND NO3) (1)	
			PCE	1.7	01/14	1.2	01/15		
			C-1,2-DCE	40	06/15	40	06/15		
			1,1-DCE	0.8	09/08	0.5	04/15		
			T-1,2-DCE	0.9	09/08	0.6	04/15		
			NO3	42	01/14	35	04/15		
			CLO4	ND	08/08	ND	04/14		
			AS	ND	08/89	ND	07/14		
			CR6	3.6	09/13	3.6	09/13		
			13	MUNICIPAL	INACTIVE	TCE	0.5		08/07
NO3	59.0	07/13				59.0	07/13		
CLO4	ND	03/97				ND	01/14		
AS	8.0	06/78				ND	11/10		
CR6	7.1	08/01				4.6	09/13		
14	MUNICIPAL	ACTIVE	TCE	2.4	08/08	0.6	05/15	VULNERABLE (NO3)	
			NO3	46.0	08/12	16	05/15		
			CLO4	ND	08/97	ND	04/15		
			AS	0.6	07/96	ND	11/10		
			CR6	5.8	06/01	4.0	09/13		
15	MUNICIPAL	ACTIVE	PCE	0.8	10/14	0.8	10/14	VULNERABLE (NO3)	
			NO3	28.0	10/12	15	05/15		
			CLO4	ND	08/97	ND	04/15		
			AS	1.5	07/96	ND	04/10		

**APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
GARF	MUNICIPAL	INACTIVE	CR6	4.1	12/00	2.3	09/13		
			TCE	11.0	08/82	ND	09/93		
			PCE	0.5	11/87	ND	09/93		
			CTC	0.1	04/80	ND	09/93		
			1,1,2,2-PCA	1.0	11/87	ND	09/93		
			NO3	68.1	08/89	53.6	09/93		
			CLO4	NA	NA	NA	NA		
			AS	ND	06/80	ND	08/92		
LON 1	MUNICIPAL	ACTIVE	PCE	0.3	07/81	ND	05/15	VULNERABLE (NO3 AND CLO4)	
			NO3	33.0	09/11	25	05/15		
			CLO4	5.0	12/97	ND	04/15		
			AS	2.4	07/95	ND	07/10		
			CR6	7.2	06/01	5.0	09/13		
LON 2	MUNICIPAL	ACTIVE	PCE	1.3	06/10	ND	05/15	VULNERABLE (VOCS, NO3, AND CLO4)	
			MC	4.3	05/87	ND	04/15		
			NO3	50.4	04/86	22	05/15		
			CLO4	5.6	07/97	ND	04/15		
			AS	0.8	07/96	ND	04/14		
			CR6	9.5	06/01	6.6	10/14		
MOEL (8)	MUNICIPAL	ACTIVE	TCE	23.0	07/14	15.0	05/15	VULNERABLE (VOCS AND NO3) (1)	
			PCE	1.6	07/08	ND	04/15		
			C-1,2-DCE	2.3	01/14	1.7	04/15		
			NO3	76.0	07/08	56.0	05/15		
			CLO4	ND	12/99	ND	04/15		
			AS	0.9	07/96	ND	07/14		
			CR6	6.6	10/14	6.6	10/14		
AMARILLO MUTUAL WATER COMPANY									
01	MUNICIPAL	ACTIVE	PCE	5.5	10/99	4.6	05/15	VULNERABLE (VOCS AND NO3)	
			TCE	1.3	11/14	1.0	05/15		
			CTC	0.1	08/82	ND	08/14		
			MC	3.2	06/89	ND	08/14		
			NO3	27.4	10/99	22	05/15		
			CLO4	ND	08/97	ND	11/14		
			AS	0.5	07/96	ND	08/10		
			CR6	7.3	11/00	4.3	08/13		
02	MUNICIPAL	ACTIVE	PCE	5.7	02/02	2.8	05/15	VULNERABLE (VOCS AND NO3)	
			TCE	1.5	01/99	0.5	05/15		
			MC	2.0	06/89	ND	08/14		
			NO3	29.9	02/96	18	05/15		
			CLO4	ND	08/97	ND	11/14		
			AS	0.4	07/96	ND	08/13		
			CR6	6.9	08/13	6.9	08/13		
ANDERSON FAMILY MARITAL TRUST									
01	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
ARCADIA, CITY OF									
BAL 1	MUNICIPAL	DESTROYED	VOCS	ND	09/98	ND	09/98		
			NO3	52.0	04/78	3.0	09/98		
			CLO4	NA	NA	NA	NA		
BAL 2	MUNICIPAL	INACTIVE	VOCS	ND	05/89	ND	06/09		
			NO3	33.4	05/08	28.0	06/09		
			CLO4	ND	08/97	ND	07/08		
			AS	0.7	08/96	ND	03/09		
			CR6	11.1	06/01	11.1	06/01		
CAM REAL 1	MUNICIPAL	DESTROYED	VOCS	ND	01/85	ND	05/92		
			NO3	28.1	05/91	22.4	08/92		
			CLO4	NA	NA	NA	NA		
			AS	ND	03/09	ND	08/92		
CAM REAL 2	MUNICIPAL	DESTROYED	VOCS	ND	05/89	ND	06/98		
			NO3	58.0	05/92	39.0	05/98		
			CLO4	ND	08/97	ND	12/97		

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
CAM REAL 3	MUNICIPAL	ACTIVE	AS	0.4	08/96	ND	06/98		
			VOCS	ND	03/11	ND	10/14		
			NO3	17.0	01/15	17.0	01/15		
			CLO4	ND	03/11	ND	07/14		
			AS	ND	03/10	ND	06/14		
L OAK 1	MUNICIPAL	ACTIVE	CR6	6.4	09/13	6.4	09/13		
			PCE	1.4	01/08	ND	04/15	VULNERABLE (VOCS AND NO3)	
			TCE	6.0	02/15	4.6	05/15		
			NO3	31	05/15	31	05/15		
			CLO4	ND	08/97	ND	07/14		
AS	0.6	08/96	ND	06/14					
LGY	MUNICIPAL	DESTROYED	CR6	2.4	06/01	2.2	09/13		
			CF	1.0	01/08	1.0	01/08		
			NO3	104.0	01/08	104.0	01/08		
LGY 3	MUNICIPAL	ACTIVE	CLO4	6.0	01/08	6.0	01/08		
			VOCS	ND	06/11	ND	10/14		
			NO3	9.3	01/15	9.3	01/15		
			CLO4	ND	06/11	ND	07/14		
			AS	ND	03/11	ND	01/14		
LON 1	MUNICIPAL	ACTIVE	CR6	6.6	09/13	6.6	09/13		
			TCE	30.0	07/87	ND	05/15	VULNERABLE (VOCS AND NO3) (1)	
			PCE	2.7	07/87	ND	05/15		
			1,1-DCE	4.1	06/87	ND	05/15		
			1,2-DCA	1.4	07/87	ND	05/15		
1,1,1-TCA	4.6	07/87	ND	04/15					
LON 2	MUNICIPAL	ACTIVE	MC	25.0	09/87	ND	04/15		
			NO3	54	12/14	52	05/15		
			CLO4	ND	12/97	ND	07/14		
			AS	ND	04/85	ND	06/14		
			CR6	1.9	11/00	1.5	09/13		
			TCE	62.0	01/85	ND	05/15	VULNERABLE (VOCS AND NO3) (1)	
			PCE	7.7	01/82	ND	05/15		
			CTC	2.6	09/87	ND	04/15		
			1,1-DCE	0.9	05/87	ND	05/15		
			1,1,1-TCA	12.0	01/85	ND	04/15		
NO3	109.1	05/85	55	05/15					
CLO4	ND	07/97	ND	07/14					
AS	0.7	08/96	ND	06/14					
CR6	4.4	11/00	2.6	09/13					
PECK 1	MUNICIPAL	ACTIVE	NO3	11.0	08/09	ND	04/15		
			VOCS	ND	05/89	ND	04/15		
			CLO4	ND	08/97	ND	07/14		
			AS	2.4	09/94	ND	06/14		
			CR6	1.0	11/00	0.7	09/13		
ST JO 1	MUNICIPAL	DESTROYED	TCE	5.4	01/02	4.8	02/02		
			PCE	2.7	08/91	2.2	02/02		
			NO3	60.0	06/96	46.0	06/02		
			CLO4	1.0	08/97	ND	01/02		
			AS	0.3	08/96	ND	06/01		
ST JO 2	MUNICIPAL	ACTIVE	TCE	2.4	12/09	0.8	05/15	VULNERABLE (VOCS, NO3, AND CLO4)	
			PCE	7.7	12/09	5.2	05/15		
			NO3	51.0	12/04	47	05/15		
			CLO4	8.6	06/02	ND	07/14		
			AS	ND	06/02	ND	06/14		
			CR6	3.2	11/02	2.4	09/13		
ATTALLA, MARY L.									
NA	IRRIGATION	INACTIVE	VOCS	ND	09/96	ND	04/98		
			NO3	19.4	04/98	19.4	04/98		
			CLO4	ND	04/98	ND	04/98		
AZUSA ASSOCIATES LLC									
DALTON	IRRIGATION	DESTROYED	VOCS	ND	03/98	ND	03/98		
			NO3	4.7	03/98	4.7	03/98		
			CLO4	ND	03/98	ND	03/98		

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
AZUSA, CITY OF									
AVWC 01	MUNICIPAL	DESTROYED	VOCS	ND	09/97	ND	09/97		
			NO3	55.0	08/87	32.1	09/97		
			CLO4	5.6	09/97	5.6	09/97		
AVWC 02	MUNICIPAL	DESTROYED	VOCS	ND	01/98	ND	01/98		
			NO3	43.1	01/98	43.1	01/98		
			CLO4	6.9	01/98	6.9	01/98		
AVWC 07	MUNICIPAL	DESTROYED	TCE	4.5	01/80	ND	03/85		
			NO3	107.0	02/77	39.4	12/85		
			CLO4	NA	NA	NA	NA		
GENESIS 1 (OLD 04)	MUNICIPAL	DESTROYED	MTBE	1.2	11/98	1.1	11/98		
			NO3	126.6	06/87	109.8	11/98		
			CLO4	7.2	11/98	7.2	11/98		
			AS	5.0	08/79	ND	02/88		
GENESIS 2 (OLD 05)	MUNICIPAL	INACTIVE	TCE	250.0	12/79	3.7	02/08		
			PCE	95.0	04/80	1.0	02/08		
			1,1-DCE	18.0	02/08	18.0	02/08		
			CF	2.6	02/08	2.6	02/08		
			1,1,1-TCA	2.5	02/08	2.5	02/08		
			NO3	105.5	02/93	15.9	02/08		
			CLO4	ND	11/98	ND	02/08		
			AS	ND	12/89	ND	02/08		
GENESIS 3 (OLD 06)	MUNICIPAL	DESTROYED	PCE	3.5	03/97	ND	03/97		
			TCE	0.1	01/80	ND	03/97		
			NO3	112.9	06/86	ND	04/01		
			CLO4	NA	NA	NA	NA		
01 (OLD 07)	MUNICIPAL	ACTIVE	VOCS	ND	06/87	ND	11/14		
			NO3	4.5	07/97	2.3	08/14		
			CLO4	ND	07/97	ND	08/14		
			AS	5.1	08/95	2.1	08/10		
			CR6	1.0	11/00	0.2	08/13		
02 (01 NORTH)	MUNICIPAL	ACTIVE	VOCS	ND	06/89	ND	09/14		
			NO3	5.5	03/92	ND	09/14		
			CLO4	ND	07/97	ND	09/14		
			AS	4.3	07/96	2.9	09/14		
			CR6	1.0	11/00	0.1	08/13		
03 (OLD 08)	MUNICIPAL	ACTIVE	VOCS	ND	06/87	ND	08/14		
			NO3	4.4	03/95	ND	08/14		
			CLO4	ND	07/97	ND	08/14		
			AS	5.0	08/06	3.4	08/09		
			CR6	1.0	11/00	0.1	08/13		
04 (02 SOUTH)	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	08/14		
			NO3	5.5	06/89	ND	08/14		
			CLO4	ND	07/97	ND	08/14		
			AS	5.0	08/05	2.8	08/14		
			CR6	1.0	11/00	0.1	08/13		
05 (OLD 01)	MUNICIPAL	ACTIVE	TCE	1.0	12/80	ND	08/14	VULNERABLE (NO3)	
			PCE	0.3	12/80	ND	08/14		
			CF	3.5	08/14	3.5	08/14		
			NO3	22.9	07/95	3.7	08/14		
			CLO4	ND	07/97	ND	08/14		
			AS	2.6	07/95	ND	08/10		
06 (OLD 03)	MUNICIPAL	ACTIVE	VOCS	ND	03/85	ND	08/14		
			NO3	14.2	03/95	ND	08/14		
			CLO4	ND	07/97	ND	08/14		
			AS	3.5	07/95	ND	08/10		
			CR6	1.0	11/00	0.3	08/13		
07 (AVWC 05)	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	08/14	VULNERABLE (NO3)	
			NO3	24.7	04/95	2.2	08/14		
			CLO4	ND	06/97	ND	08/14		
			AS	3.5	08/14	3.5	08/14		

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
08 (AVWC 04)	MUNICIPAL	ACTIVE	CR6	1.0	11/00	0.3	08/13		
			TCE	0.8	03/94	ND	08/14		
			CF	0.5	08/04	ND	08/14		
			NO3	12.1	09/94	2.5	08/14		
			CLO4	ND	07/97	ND	08/14		
			AS	4.2	07/95	ND	08/10		
09 (AVWC 06)	MUNICIPAL	INACTIVE	CR6	1.0	11/00	0.2	08/13		
			PCE	7.4	12/87	0.6	01/99		
			NO3	117.7	12/89	84.0	01/99		
			CLO4	NA	NA	NA	NA		
			AS	ND	02/87	ND	01/99		
10 (AVWC 08)	MUNICIPAL	ACTIVE	PCE	1.0	05/15	0.99	05/15	VULNERABLE (NO3 AND CLO4)	
			CF	1.4	03/94	ND	11/14		
			NO3	66.0	05/08	51	05/15		
			CLO4	12.6	08/05	5.9	05/15		
			AS	1.8	07/96	ND	11/09		
			CR6	2.4	11/00	2.2	08/13		
11	MUNICIPAL	ACTIVE	VOCS	ND	06/02	ND	08/14		
			NO3	3.7	08/08	ND	10/14		
			CLO4	ND	06/02	ND	08/14		
			AS	4.0	08/05	2.5	08/14		
			CR6	0.2	08/13	0.2	08/13		
12	MUNICIPAL	ACTIVE	VOCS	ND	06/02	ND	08/14		
			NO3	3.9	08/08	2.1	10/14		
			CLO4	ND	06/02	ND	08/14		
			AS	4.0	08/05	2.9	08/14		
			CR6	0.5	08/13	0.5	08/13		
B & B RED-I-MIX CONCRETE INC.									
03	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
BANKS, GALE & VICKI									
NA	IRRIGATION	ACTIVE	VOCS	ND	08/96	ND	10/10		
			NO3	20.7	10/98	17.0	10/10		
			CLO4	ND	09/97	ND	09/97		
BASELINE WATER COMPANY									
01	IRRIGATION	DESTROYED	VOCS	ND	02/98	ND	02/98		
			NO3	99.7	02/98	99.7	02/98		
			CLO4	12.9	02/98	12.9	02/98		
02	IRRIGATION	DESTROYED	VOCS	ND	11/98	ND	11/98		
			NO3	74.3	11/98	74.3	11/98		
			CLO4	10.6	11/98	10.6	11/98		
03	IRRIGATION	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
BEVERLY ACRES MUTUAL WATER USERS ASSOCIATION									
ROSE HILLS	MUNICIPAL	DESTROYED	TCE	8.4	10/88	2.5	03/93		
			PCE	6.0	10/88	2.8	03/93		
			C-1,2-DCE	8.0	08/86	2.4	03/93		
			NO3	22.5	08/86	14.6	09/90		
			CLO4	NA	NA	NA	NA		
			AS	ND	09/89	ND	08/91		
BIRENBAUM, MAX									
NA	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
BOTELLO WATER COMPANY									

**APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
NA	MUNICIPAL	INACTIVE	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
BURBANK DEVELOPMENT COMPANY								
BURB	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
CALIFORNIA-AMERICAN WATER COMPANY/DUARTE SYSTEM								
B V	MUNICIPAL	STANDBY	VOCS	ND	02/85	ND	06/14	
			NO3	3.9	10/10	2.3	12/13	
			CLO4	ND	06/97	ND	09/13	
			AS	6.0	07/93	2.2	10/10	
			CR6	1.0	12/00	0.5	03/13	
B V 2	MUNICIPAL	ACTIVE	VOCS	ND	3/12	ND	12/14	
			NO3	4.1	12/14	4.1	12/14	
			CLO4	ND	09/12	ND	09/14	
			AS	ND	12/14	ND	12/14	
			CR6	1.0	04/11	0.3	09/13	
BACON	MUNICIPAL	ACTIVE	BF	2.9	09/13	1.1	09/14	
			DBCM	2.5	09/13	1.2	09/14	
			MC	0.6	06/89	ND	09/14	
			NO3	10.0	10/81	3.5	12/14	
			CLO4	ND	06/97	ND	09/14	
			AS	6.0	09/93	ND	06/14	
			CR6	0.4	06/11	0.3	03/13	
CR HV	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	09/14	
			NO3	8.5	12/13	4.4	12/14	
			CLO4	ND	06/97	ND	09/14	
			AS	3.0	09/04	ND	06/14	
			CR6	1.0	12/00	0.2	03/13	
ENCANTO	MUNICIPAL	ACTIVE	VOCS	ND	12/92	ND	12/14	
			NO3	11.3	12/92	3.4	12/14	
			CLO4	ND	06/97	ND	09/14	
			AS	4.6	08/95	3.0	06/14	
			CR6	1.0	12/00	0.2	03/13	
FISH C	MUNICIPAL	ACTIVE	VOCS	ND	02/85	ND	03/14	
			NO3	6.7	11/94	2.5	12/13	
			CLO4	ND	06/97	ND	09/14	
			AS	13.0	09/80	ND	10/10	
			CR6	1.0	12/00	0.1	03/13	
LAS L	MUNICIPAL	DESTROYED	VOCS	ND	02/85	ND	06/91	
			NO3	12.1	08/80	4.1	09/91	
			CLO4	NA	NA	NA	NA	
			AS	18.0	06/78	ND	11/94	
LAS L2	MUNICIPAL	ACTIVE	TCE	1.6	08/96	ND	09/14	
			NO3	16.6	12/92	5.3	12/14	
			CLO4	ND	06/97	ND	09/14	
			AS	3.1	08/95	ND	06/14	
			CR6	1.0	06/01	0.3	03/13	
MT AVE	MUNICIPAL	INACTIVE	TCE	16.5	07/87	ND	09/93	
			PCE	1.0	08/82	ND	09/93	
			1,1,1-TCA	8.4	04/85	ND	09/93	
			1,1-DCE	3.4	07/87	ND	09/93	
			T-1,2-DCE	2.0	04/85	ND	09/93	
			NO3	65.0	05/89	10.1	09/93	
			CLO4	NA	NA	NA	NA	
			AS	ND	05/89	ND	05/89	
STA FE	MUNICIPAL	ACTIVE	TCE	3.3	04/84	ND	09/14	VULNERABLE (VOCS AND NO3)
			CF	0.5	07/87	ND	09/14	
			MC	0.5	09/08	ND	09/14	
			NO3	59.0	01/80	3.5	12/14	
			CLO4	ND	06/97	ND	09/14	
			AS	3.0	08/79	ND	06/14	

**APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
WILEY	MUNICIPAL	ACTIVE	CR6	1.0	12/00	0.7	03/13		
			CF	4.2	09/01	ND	09/14		
			NO3	11.0	03/81	3.8	03/15		
			CLO4	ND	06/97	ND	09/14		
			AS	2.0	09/09	ND	06/14		
			CR6	1.0	12/00	0.2	03/13		
CALIFORNIA-AMERICAN WATER COMPANY/SAN MARINO SYSTEM									
BR 1	MUNICIPAL	INACTIVE	CTC	0.5	12/96	0.5	12/96		
			TCE	27.0	07/93	27.0	12/96		
			PCE	9.0	07/93	7.7	12/96		
			NO3	31.4	12/96	31.4	12/96		
			CLO4	NA	NA	NA	NA		
			AS	1.0	03/81	ND	10/81		
BR 2	MUNICIPAL	INACTIVE	TCE	17.0	12/96	17.0	12/96		
			PCE	6.4	12/96	6.4	12/96		
			NO3	25.3	07/93	25.1	12/96		
			CLO4	NA	NA	NA	NA		
			AS	ND	03/81	ND	10/81		
DELMAR	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	05/15		
			NO3	19.9	06/14	16.6	05/15		
			CLO4	ND	06/97	ND	05/15		
			AS	5.0	07/96	2.0	05/15		
			CR6	5.5	05/15	5.5	05/15		
GRAND	MUNICIPAL	ACTIVE	TCE	4.8	03/07	1.6	05/15	VULNERABLE (VOCS)	
			PCE	2.1	12/08	0.70	05/15		
			NO3	10.9	09/03	7.8	05/15		
			CLO4	ND	08/97	ND	05/15		
			AS	0.4	07/96	ND	05/15		
			CR6	10.0	06/01	9.8	04/15		
GUESS	MUNICIPAL	INACTIVE	TCE	5.2	09/99	5.2	12/01		
			PCE	5.4	12/01	5.4	12/01		
			NO3	20.0	05/01	19.0	09/01		
			CLO4	ND	08/97	ND	03/00		
			AS	0.4	07/96	ND	02/01		
			CR6	7.8	10/00	4.8	06/01		
HALL	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
HALL 2	MUNICIPAL	ACTIVE	VOCS	ND	03/01	ND	05/15	VULNERABLE (NO3)	
			NO3	23.6	04/01	12.2	05/15		
			CLO4	ND	03/00	ND	05/15		
			AS	ND	09/01	ND	05/15		
			CR6	9.6	12/01	9.1	05/15		
HOWLAND	MUNICIPAL	ACTIVE	TCE	6.9	07/89	ND	05/15	VULNERABLE (VOCS)	
			PCE	3.6	03/01	ND	05/15		
			C-1,2-DCE	3.3	11/87	ND	05/15		
			MC	7.5	05/87	ND	05/15		
			NO3	12.4	09/91	5.6	05/15		
			CLO4	ND	08/97	ND	05/15		
			AS	0.7	07/96	ND	05/15		
			CR6	6.6	10/00	6.3	05/15		
IVAR 1	MUNICIPAL	DESTROYED	PCE	7.4	06/99	6.2	06/00		
			TCE	1.7	06/99	ND	06/00		
			NO3	29.2	09/94	26.0	09/01		
			CLO4	ND	08/97	ND	03/01		
			AS	0.5	10/96	0.5	10/96		
IVAR 2	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	24.0	12/84	24.0	12/84		
			CLO4	NA	NA	NA	NA		
			AS	ND	10/81	ND	10/81		
LONGDEN	MUNICIPAL	ACTIVE	PCE	10.9	05/15	10.4	05/15	VULNERABLE (VOCS, NO3, AND CLO4)	
			NO3	69.6	03/08	66.1	05/15		
			CLO4	5.1	10/09	4.9	05/15		

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
MAR 1	MUNICIPAL	DESTROYED	AS	4.6	06/01	ND	05/15		
			CR6	4.3	05/15	4.3	05/15		
			VOCS	ND	01/85	ND	01/85		
			NO3	89.0	03/79	39.0	01/84		
			CLO4	NA	NA	NA	NA		
MAR 2	MUNICIPAL	INACTIVE	AS	2.0	03/81	ND	10/81		
			VOCS	NA	NA	NA	NA		
			NO3	33.0	01/84	33.0	01/84		
			CLO4	NA	NA	NA	NA		
			AS	1.0	03/81	ND	10/81		
MAR 3	MUNICIPAL	ACTIVE	AS	1.0	05/00	ND	05/15		
			CR6	8.9	06/01	8.63	05/15		
			VOCS	ND	01/85	ND	05/15		
			NO3	9.7	01/01	7.94	05/15		
			CLO4	ND	06/97	ND	05/15		
MIVW 1	MUNICIPAL	DESTROYED	AS	1.0	05/00	ND	05/15		
			CR6	8.9	06/01	8.63	05/15		
			VOCS	NA	NA	NA	NA		
			NO3	31.0	03/01	31.0	03/01		
			CLO4	NA	NA	NA	NA		
MIVW 2	MUNICIPAL	ACTIVE	AS	0.6	07/96	ND	05/15		
			CR6	10.1	12/00	10.1	05/15		
			VOCS	ND	07/87	ND	05/15		
			NO3	23.4	09/13	23.4	05/15		
			CLO4	ND	06/97	ND	05/15		
RIC 1	MUNICIPAL	INACTIVE	AS	0.8	07/96	ND	02/01		
			CR6	5.0	10/00	4.9	06/01		
			VOCS	ND	02/85	ND	12/90		
			NO3	23.4	08/89	11.8	11/94		
			CLO4	NA	NA	NA	NA		
RIC 2	MUNICIPAL	DESTROYED	AS	0.8	07/96	ND	02/01		
			CR6	5.0	10/00	4.9	06/01		
			VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
ROANOKE	MUNICIPAL	INACTIVE	AS	0.8	07/96	ND	02/01		
			CR6	5.0	10/00	4.9	06/01		
			TCE	5.0	06/00	4.7	12/00		
			PCE	1.2	04/90	ND	09/00		
			C-1,2-DCE	0.5	09/00	ND	12/00		
			NO3	33.0	05/89	29.2	12/00		
			CLO4	5.6	06/97	ND	03/00		
			AS	0.8	07/96	ND	02/01		
ROSEMEAD	MUNICIPAL	ACTIVE	AS	0.4	07/96	ND	05/14	VULNERABLE (VOCS AND NO3)	
			CR6	11.0	10/00	5.2	06/11		
			TCE	6.1	03/12	3.8	05/14		
			PCE	3.4	03/09	ND	05/14		
			NO3	38.0	12/13	29.3	05/14		
			CLO4	ND	08/97	ND	05/14		
			AS	0.4	07/96	ND	05/14		
CALIFORNIA COUNTRY CLUB									
ARTES	IRRIGATION	STANDBY	AS	0.4	07/96	ND	05/14	VULNERABLE (NO3)	
			CR6	11.0	10/00	5.2	06/11		
			VOCS	ND	05/87	ND	10/10		
CLUB	IRRIGATION	INACTIVE	NO3	29.0	10/10	29.0	10/10		
			CLO4	NA	NA	NA	NA		
			PCE	189.0	11/87	189.0	11/87		
SYCAMORE	IRRIGATION	STANDBY	1,1,2,2-PCA	24.0	11/87	24.0	11/87	VULNERABLE (VOCS AND NO3)	
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
CALIFORNIA DOMESTIC WATER COMPANY	MUNICIPAL	DESTROYED	PCE	7.1	09/02	0.6	10/10	VULNERABLE (VOCS AND NO3)	
			TCE	0.7	09/01	ND	10/10		
			NO3	128.0	10/07	19.0	10/10		
			CLO4	ND	02/98	ND	02/98		
01-E	MUNICIPAL	DESTROYED	NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
			VOCS	NA	NA	NA	NA		
02	MUNICIPAL	ACTIVE	CTC	0.7	09/96	ND	05/15	VULNERABLE	

**APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			PCE	3.7	09/12	ND	05/15	(VOCS, NO3, AND CLO4)
			TCE	4.0	10/99	ND	05/15	
			NO3	27	02/15	20	05/15	
			CLO4	5.6	10/99	ND	05/15	
			AS	7.4	12/11	2.0	05/15	
			CR6	2.4	11/00	2.2	08/13	
03	MUNICIPAL	ACTIVE	CTC	5.3	02/01	1.5	05/15	VULNERABLE (VOCS, NO3 AND CLO4) (1,4)
			PCE	32.0	11/12	17.0	05/15	
			TCE	43.0	10/13	30.0	05/15	
			1,1-DCE	6.4	01/14	3.9	04/15	
			C-1,2-DCE	4.2	04/13	2.4	04/15	
			CF	0.7	08/04	ND	04/14	
			NO3	47.6	01/07	27.0	05/15	
			CLO4	12.0	12/12	12.0	05/15	
			AS	3.3	12/11	ND	05/15	
			CR6	3.3	11/00	2.0	08/13	
05	MUNICIPAL	DESTROYED	PCE	2.0	02/85	ND	12/90	
			NO3	13.0	03/84	13.0	03/84	
			CLO4	NA	NA	NA	NA	
			AS	40.0	06/78	ND	03/84	
05A	MUNICIPAL	ACTIVE	CTC	1.9	08/96	0.6	05/15	VULNERABLE (VOCS AND NO3) (1)
			PCE	14.6	10/08	7.6	05/15	
			TCE	17.8	10/08	7.1	05/15	
			1,1-DCE	2.7	10/08	1.4	04/15	
			C-1,2-DCE	1.6	10/08	0.88	04/15	
			NO3	29.0	04/01	9.6	05/15	
			CLO4	ND	06/97	ND	05/15	
			AS	3.8	08/95	ND	05/15	
			CR6	1.6	11/00	1.4	08/13	
06	MUNICIPAL	ACTIVE	CTC	3.5	12/06	ND	05/15	VULNERABLE (VOCS, NO3, AND CLO4) (1)
			PCE	39.0	10/14	20.0	05/15	
			TCE	44.0	10/14	17.0	05/15	
			1,1-DCE	6.2	10/14	6.2	04/15	
			C-1,2-DCE	4.5	10/14	4.5	04/15	
			NO3	34.0	04/11	29.0	05/15	
			CLO4	5.8	12/12	5.1	05/15	
			AS	3.2	04/04	ND	05/15	
			CR6	1.9	11/00	1.5	08/13	
08	MUNICIPAL	ACTIVE	PCE	9.8	02/09	1.3	05/15	
			TCE	12.0	02/09	ND	05/15	
			CTC	1.1	09/93	ND	05/15	
			NO3	24.0	08/02	12.0	05/15	
			CLO4	5.6	08/02	ND	05/15	
			AS	6.0	09/94	ND	05/15	
			CR6	3.2	11/00	2.5	08/13	
13-N	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
14	MUNICIPAL	ACTIVE	CTC	4.4	10/07	ND	05/15	VULNERABLE (VOCS, NO3, AND CLO4)
			PCE	16.0	11/12	3.3	05/15	
			TCE	20.0	11/12	4.3	05/15	
			1,2-DCA	1.0	06/08	ND	05/15	
			C-1,2-DCE	1.6	10/12	ND	05/15	
			1,1-DCE	1.9	10/12	ND	05/15	
			CF	1.3	06/08	ND	01/15	
			NO3	75.0	12/14	67.0	05/15	
			CLO4	16.0	12/12	14.0	05/15	
			AS	4.5	04/01	ND	05/15	
			CR6	3.7	11/00	2.8	08/13	
CEDAR AVENUE MUTUAL WATER COMPANY								
01 SOUTH	MUNICIPAL	DESTROYED	PCE	2.2	09/90	ND	06/94	
			NO3	26.8	08/93	8.9	06/94	
			CLO4	NA	NA	NA	NA	
			AS	NA	09/89	ND	08/93	
02 NORTH	MUNICIPAL	DESTROYED	PCE	0.8	04/92	ND	06/94	
			NO3	20.0	01/86	7.4	08/93	

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)				REMARKS		
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE		DATE	
			CLO4	NA	NA	NA	NA		
			AS	ND	09/89	ND	09/92		
CEMEX CONSTRUCTION MATERIALS L.P. (AZ TWO)									
02	INDUSTRIAL	DESTROYED	PCE	700.0	01/85	2.8	09/03		
			TCE	940.0	04/85	6.3	09/03		
			CTC	2.2	09/02	ND	09/03		
			1,1-DCE	350.0	01/87	7.2	09/03		
			1,1-DCA	1.0	08/01	ND	09/03		
			1,1,1-TCA	430.0	01/87	3.6	09/03		
			VC	19.0	12/87	ND	09/03		
			NO3	79.0	09/02	73.1	09/03		
			CLO4	4.2	06/97	ND	09/98		
CHAMPION MUTUAL WATER COMPANY									
01	MUNICIPAL	INACTIVE	PCE	3.0	09/86	ND	06/98		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
02	MUNICIPAL	INACTIVE	PCE	0.6	06/88	ND	09/13	VULNERABLE (NO3)	
			NO3	28.0	09/10	22.0	06/14		
			CLO4	ND	09/97	ND	09/13		
			AS	3.6	08/98	2.4	09/13		
			CR6	1.0	06/01	0.7	09/13		
03	MUNICIPAL	INACTIVE	PCE	1.3	09/96	ND	12/14	VULNERABLE (NO3)	
			FREON 113	18.0	03/07	ND	12/14		
			NO3	24.0	03/09	18.0	03/15		
			CLO4	ND	03/98	ND	12/14		
			AS	13.2	05/98	2.8	03/15		
			CR6	1.0	06/01	ND	09/14		
CHEVRON USA INC.									
TEMP 1	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
CITRUS VALLEY MEDICAL CENTER, QUEEN OF THE VALLEY CAMPUS									
01	NON-POTABLE	ACTIVE	VOCS	ND	09/96	ND	10/10	VULNERABLE (NO3, CLO4)	
			NO3	104.8	02/98	83.0	10/10		
			CLO4	24.0	02/98	24.0	02/98		
CLAYTON MANUFACTURING COMPANY									
02	INDUSTRIAL	DESTROYED	TCE	150.0	08/01	47.0	09/03		
			PCE	30.0	08/01	ND	09/03		
			1,1-DCE	10.0	08/01	1.7	09/03		
			C-1,2-DCE	1.7	08/01	ND	09/03		
			1,1-DCA	15.0	08/01	ND	09/03		
			1,2-DCA	13.0	08/01	ND	09/03		
			1,1,1-TCA	1.1	08/01	ND	09/03		
			NO3	87.0	08/01	39.7	09/03		
			CLO4	4.0	09/97	4.0	09/97		
COINER, JAMES W., DBA COINER NURSERY									
03	NON-POTABLE	INACTIVE	PCE	293.5	02/98	170.0	10/01		
			TCE	10.2	11/87	3.4	10/01		
			CTC	1.6	08/87	1.6	10/01		
			1,1-DCE	6.7	02/98	4.6	10/01		
			C-1,2-DCE	6.8	07/96	2.7	10/01		
			1,1,1-TCA	22.0	02/98	12.0	10/01		
			NO3	67.0	10/01	44.7	09/07		
			CLO4	9.0	02/98	ND	09/98		
05R	NON-POTABLE	ACTIVE	PCE	7.7	02/98	3.6	10/10	VULNERABLE (VOCS, NO3, AND CLO4)	
			TCE	1.6	10/01	ND	10/10		
			CTC	2.7	07/96	ND	10/10		
			1,1-DCE	5.5	10/01	1.3	10/10		
			CF	6.7	02/98	1.1	10/10		
			NO3	110.0	10/09	72.0	10/10		
			CLO4	9.0	02/98	4.0	09/98		

**APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)				REMARKS	
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE		DATE

CORCORAN BROTHERS

01	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA

COUNTY SANITATION DISTRICT NO. 18

E08A	REMEDIAL	INACTIVE	VOCS	NA	NA	NA	NA
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA
E09A	REMEDIAL	INACTIVE	VOCS	NA	NA	NA	NA
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA
E10A	REMEDIAL	INACTIVE	VOCS	NA	NA	NA	NA
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA
E11A	REMEDIAL	INACTIVE	VOCS	NA	NA	NA	NA
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA
EX1	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA
EX2	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA
EX3	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA
EX4	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA
LE1	REMEDIAL	INACTIVE	TCE	4.2	06/86	3.7	09/86
			PCE	0.8	09/86	0.8	09/86
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA
LE2	REMEDIAL	INACTIVE	TCE	0.1	06/86	ND	09/86
			PCE	NA	06/86	ND	09/86
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA
LE3	REMEDIAL	INACTIVE	TCE	1.5	06/86	1.2	09/86
			PCE	1.6	06/86	0.8	09/86
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA
LE4	REMEDIAL	INACTIVE	TCE	5.1	09/86	5.1	09/86
			PCE	2.0	09/86	2.0	09/86
			NO3	NA	NA	NA	NA
			CLO4	NA	NA	NA	NA

COVINA, CITY OF

01	MUNICIPAL	INACTIVE	PCE	0.6	01/99	0.6	01/99
			NO3	120.0	01/99	120.0	01/99
			CLO4	NA	NA	NA	NA
02 (GRAND)	MUNICIPAL	INACTIVE	VOCS	ND	06/88	ND	09/98
			NO3	116.0	08/89	103.0	04/99
			CLO4	23.0	09/97	22.0	09/98
			AS	3.3	08/97	3.3	08/97
03	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA
			NO3	72.0	10/73	72.0	10/73
			CLO4	NA	NA	NA	NA

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
COVINA IRRIGATING COMPANY									
BAL 1	MUNICIPAL	ACTIVE	TCE	200.0	07/80	ND	10/13	VULNERABLE (VOCS AND NO3) (5)	
			PCE	7.6	07/80	ND	10/13		
			1,1-DCE	0.5	10/06	ND	10/13		
			MC	0.9	10/06	ND	10/13		
			NO3	35.5	12/89	3.9	09/14		
			CLO4	1.5	10/06	ND	09/14		
			AS	4.7	12/89	3.5	01/14		
			CR6	1.0	10/00	0.2	07/13		
BAL 2	MUNICIPAL	ACTIVE	TCE	195.0	06/80	ND	10/14	VULNERABLE (VOCS, NO3 AND CLO4) (5)	
			PCE	7.9	06/80	ND	10/14		
			1,1-DCE	0.8	07/07	ND	04/15		
			NO3	47.0	03/10	19.0	05/15		
			CLO4	5.5	03/09	ND	05/15		
			AS	4.0	08/76	3.4	07/14		
			CR6	1.0	10/00	0.5	07/13		
			BAL 3	MUNICIPAL	ACTIVE	TCE	225.0		01/80
PCE	10.0	02/85				ND	10/14		
CTC	3.0	04/85				ND	10/14		
1,1-DCA	4.0	04/85				ND	10/14		
1,2-DCA	3.7	02/85				ND	10/14		
1,1-DCE	2.1	04/85				ND	10/14		
T-1,2-DCE	2.9	02/85				ND	10/14		
1,1,1-TCA	5.2	04/85				ND	10/14		
NO3	57.3	08/89				24.0	05/15		
CLO4	5.6	09/08				ND	05/15		
AS	3.0	10/96				3.0	10/14		
CR6	1.0	11/00				0.8	07/13		
CONTR	MUNICIPAL	INACTIVE				PCE	1.4	12/92	1.3
			NO3	125.3	12/89	108.0	03/94		
			CLO4	NA	NA	NA	NA		
			AS	ND	12/89	ND	12/92		
VALEN	MUNICIPAL	INACTIVE	PCE	2.4	08/85	0.6	09/97		
			NO3	73.0	06/81	69.3	09/97		
			CLO4	6.4	09/97	6.4	09/97		
CREVOLIN, A.J.									
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
CROWN CITY PLATING COMPANY									
01	INDUSTRIAL	DESTROYED	TCE	1.2	09/04	1.2	09/04		
			T-1,2-DCE	1.4	05/87	ND	09/04		
			NO3	7.4	09/04	3.4	09/08		
			CLO4	ND	09/97	ND	10/07		
DAVIDSON OPTRONICS INC.									
NA	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
DAWES, MARY K.									
04	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
DEL RIO MUTUAL WATER COMPANY									
BURKETT	MUNICIPAL	ACTIVE	TCE	2.2	06/90	ND	09/14	VULNERABLE (VOCS AND NO3)	
			PCE	3.7	03/97	ND	09/14		
			NO3	31.0	12/03	7.1	02/15		
			CLO4	ND	09/97	ND	02/15		
			AS	2.6	03/02	ND	02/15		
			CR6	3.4	07/01	0.7	09/13		
KLING	MUNICIPAL	INACTIVE	PCE	1.3	08/86	ND	02/89		

APPENDIX C
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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
DRIFTWOOD DAIRY									
01	INDUSTRIAL	ACTIVE	PCE	13.9	06/98	13.9	06/98	VULNERABLE (VOCS AND NO3)	
			1,1,1-TCA	0.3	03/93	ND	06/98		
			NO3	65.1	03/93	46.8	06/98		
			CLO4	ND	06/98	ND	06/98		
DUNNING, GEORGE									
1910	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
EAST PASADENA WATER COMPANY, LTD.									
09	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	07/14		
			NO3	6.4	09/12	5.4	03/15		
			CLO4	ND	07/97	ND	03/15		
			AS	0.9	08/96	ND	03/15		
			CR6	9.4	07/01	8.4	10/14		
11	MUNICIPAL	ACTIVE	VOCS	ND	12/11	ND	04/15		
			NO3	3.1	06/13	ND	03/15		
			CLO4	ND	12/11	ND	03/15		
			AS	ND	05/14	ND	03/15		
			CR6	5.9	10/14	5.9	10/14		
EL MONTE, CITY OF									
02A	MUNICIPAL	ACTIVE	PCE	13.0	03/98	4.0	05/15	VULNERABLE (VOCS AND NO3) (1)	
			TCE	5.3	01/95	1.2	05/15		
			NO3	31.2	06/12	9.5	04/15		
			CLO4	ND	07/97	ND	07/14		
			AS	10.0	03/73	ND	07/14		
			CR6	2.0	12/00	1.9	07/13		
03	MUNICIPAL	STANDBY	PCE	23.6	12/00	15.0	06/13	VULNERABLE (VOCS AND NO3) (3)	
			1,1,1-TCA	1.0	11/93	ND	07/12		
			NO3	71.6	08/89	48.5	06/13		
			CLO4	ND	07/97	ND	07/12		
			AS	10.0	03/73	ND	09/10		
			CR6	2.4	07/13	2.4	07/13		
04	MUNICIPAL	STANDBY	PCE	16.2	03/84	0.6	01/08	VULNERABLE (VOCS AND NO3)	
			TCE	7.8	02/80	ND	12/07		
			NO3	58.0	11/14	58.0	11/14		
			CLO4	ND	07/97	ND	07/03		
			AS	10.0	03/73	ND	12/07		
			CR6	2.8	07/01	1.2	11/14		
05	MUNICIPAL	DESTROYED	TCE	150.0	07/93	70.0	12/96		
			PCE	51.0	07/93	32.0	12/96		
			CTC	4.3	07/93	1.4	12/96		
			NO3	53.9	12/96	26.3	06/99		
			CLO4	5.9	06/97	5.9	06/97		
			AS	10.0	04/73	10.0	04/73		
10	MUNICIPAL	ACTIVE	TCE	7.2	09/81	ND	05/15	VULNERABLE (VOCS AND NO3) (1)	
			PCE	17.7	12/93	2.3	05/15		
			NO3	32.0	01/13	15.0	04/15		
			CLO4	ND	06/97	ND	07/14		
			AS	20.0	03/73	ND	04/14		
			CR6	1.5	03/02	1.3	07/13		
11	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	21.6	07/79	21.6	07/79		
			CLO4	NA	NA	NA	NA		
			AS	20.0	03/73	3.0	08/79		
12	MUNICIPAL	ACTIVE	TCE	53.2	06/92	31.0	01/14	VULNERABLE (VOCS AND NO3) (1)	
			PCE	21.0	01/11	15.0	01/14		
			CTC	1.0	06/92	ND	01/14		
			NO3	41.0	06/05	26.0	01/14		

**APPENDIX C
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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
13	MUNICIPAL	ACTIVE	CLO4	ND	06/97	ND	07/13	VULNERABLE (VOCS) (3)	
			AS	ND	05/84	ND	07/11		
			CR6	4.1	07/01	3.7	07/13		
			PCE	4.7	01/15	2.9	04/15		
			TCE	6.7	01/15	3.4	04/15		
			NO3	18.0	07/12	14.3	03/15		
			CLO4	ND	07/97	ND	07/14		
			AS	1.3	08/96	ND	07/10		
			CR6	3.7	07/13	3.7	07/13		
MT VW	IRRIGATION	DESTROYED	PCE	2.1	08/85	ND	01/01		
			TCE	2.0	01/85	ND	01/01		
			NO3	30.0	02/87	10.0	01/01		
			CLO4	ND	09/97	ND	11/97		
			AS	ND	02/84	ND	02/84		
EL MONTE CEMETERY ASSOCIATION									
NA	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
FRUIT STREET WATER COMPANY									
NA	IRRIGATION	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
GATES, JAMES RICHARD									
GATES 1	IRRIGATION	ACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
GIFFORD, BROOKS JR.									
01	NA	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
GLENDORA, CITY OF									
01-E	MUNICIPAL	DESTROYED	TCE	0.8	12/80	ND	09/07		
			NO3	38.1	10/88	35.0	08/08		
			CLO4	ND	06/97	ND	03/03		
			AS	2.8	07/98	ND	03/08		
			CR6	1.0	05/01	1.0	05/01		
02-E	MUNICIPAL	ACTIVE	VOCS	ND	03/85	ND	03/15		
			NO3	70.0	05/78	7.9	05/15		
			CLO4	ND	07/97	ND	03/15		
			AS	0.7	08/96	ND	09/10		
			CR6	1.0	11/00	0.4	09/13		
03-G	MUNICIPAL	INACTIVE	TCE	0.5	12/79	ND	05/97		
			PCE	0.5	05/97	0.5	05/97		
			NO3	162.4	08/83	111.0	08/99		
			CLO4	NA	NA	NA	NA		
04-E	MUNICIPAL	INACTIVE	TCE	0.7	08/80	ND	08/91		
			PCE	0.1	07/81	ND	08/91		
			NO3	126.0	06/83	56.8	08/91		
			CLO4	NA	NA	NA	NA		
			AS	ND	07/74	ND	07/74		
05-E	MUNICIPAL	ACTIVE	VOCS	ND	02/95	ND	09/14		
			NO3	3.2	05/95	2.0	06/14		
			CLO4	ND	07/97	ND	09/14		
			AS	5.3	04/98	2.6	06/10		
			CR6	1.0	11/00	0.2	09/13		
07-G	MUNICIPAL	INACTIVE	TCE	302.0	01/81	ND	04/98		
			PCE	25.0	01/81	1.9	04/98		
			1,1-DCE	435.0	05/84	ND	04/98		
			C-1,2-DCE	21.0	05/82	ND	04/98		

APPENDIX C
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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)				REMARKS	
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE		DATE
			1,1-DCA	5.0	05/84	ND	04/98	
			1,2-DCA	12.1	12/93	ND	04/98	
			1,1,1-TCA	3200.0	05/84	64.0	04/98	
			NO3	106.0	04/98	75.9	04/98	
			CLO4	5.3	04/98	5.3	04/98	
			AS	ND	07/74	ND	08/95	
08-E	MUNICIPAL	ACTIVE	MC	0.7	08/02	ND	03/15	
			NO3	6.6	08/86	ND	11/14	
			CLO4	ND	07/97	ND	09/14	
			AS	3.2	08/96	ND	09/14	
			CR6	1.0	11/00	0.2	09/13	
09-E	MUNICIPAL	ACTIVE	VOCS	ND	05/89	ND	09/14	
			NO3	4.1	08/96	ND	09/14	
			CLO4	ND	07/97	ND	09/14	
			AS	2.5	05/98	ND	09/14	
			CR6	1.0	11/00	0.1	09/13	
10-E	MUNICIPAL	ACTIVE	CF	1.9	07/97	ND	03/15	VULNERABLE (NO3)
			NO3	78.0	05/77	35.0	05/15	
			CLO4	ND	07/97	ND	03/15	
			AS	7.0	08/79	ND	03/14	
			CR6	1.0	11/00	0.9	09/13	
11-E	MUNICIPAL	ACTIVE	VOCS	ND	05/82	ND	09/14	VULNERABLE (NO3, AND CLO4)
			NO3	117.5	08/73	39.0	05/15	
			CLO4	4.9	12/10	ND	03/15	
			AS	3.2	07/98	ND	09/10	
			CR6	1.4	09/13	1.4	09/13	
12-G	MUNICIPAL	ACTIVE	TCE	0.9	12/80	ND	09/14	
			MC	2.2	05/89	ND	09/14	
			NO3	4.7	07/98	ND	11/14	
			CLO4	ND	06/97	ND	09/14	
			AS	4.4	07/97	2.3	09/09	
			CR6	1.0	11/00	0.2	09/13	
13-E	MUNICIPAL	ACTIVE	BF	0.7	06/04	ND	03/14	VULNERABLE (NO3)
			NO3	29.0	12/09	16.0	05/15	
			CLO4	ND	06/04	ND	09/14	
			AS	ND	06/07	ND	06/10	
			CR6	0.6	09/13	0.6	09/13	
GOEDERT, LILLIAN								
GOEDERT	IRRIGATION	DESTROYED	VOCS	ND	06/98	ND	06/98	
			NO3	7.0	06/98	7.0	06/98	
			CLO4	ND	06/98	ND	06/98	
GOLDEN STATE WATER COMPANY/SAN DIMAS DISTRICT								
ART-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	60.0	10/74	60.0	10/74	
			CLO4	NA	NA	NA	NA	
			AS	ND	07/74	ND	07/74	
ART-2	MUNICIPAL	DESTROYED	VOCS	ND	06/89	ND	05/07	
			NO3	26.2	08/07	9.4	09/07	
			CLO4	ND	08/97	ND	09/07	
			AS	0.8	08/96	ND	05/07	
ART-3	MUNICIPAL	ACTIVE	VOCS	ND	05/89	ND	05/14	VULNERABLE (NO3 AND CLO4) (4)
			NO3	140.0	05/14	140.0	05/14	
			CLO4	21.0	05/14	21.0	05/14	
			AS	0.7	08/96	ND	05/10	
			CR6	1.0	07/01	1.0	07/01	
BAS-3	MUNICIPAL	ACTIVE	VOCS	ND	06/89	ND	05/15	VULNERABLE (NO3 AND CLO4) (4)
			NO3	120	01/15	110	05/15	
			CLO4	21.0	10/14	18.0	05/15	
			AS	4.0	08/76	ND	05/10	
			CR6	1.7	11/14	1.7	11/14	
BAS-4	MUNICIPAL	ACTIVE	VOCS	ND	03/85	ND	05/14	VULNERABLE (NO3 AND CLO4) (4)
			NO3	110.0	01/13	74.0	07/14	

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
			CLO4	23.0	03/13	15.0	07/14		
			AS	1.0	08/96	ND	05/10		
			CR6	1.8	12/00	1.7	07/01		
CITY	MUNICIPAL	INACTIVE	VOCS	ND	06/88	ND	05/08	VULNERABLE (NO3)	
			NO3	44.7	09/93	31.0	11/08		
			CLO4	ND	08/97	ND	08/08		
			AS	0.7	08/96	ND	08/06		
			CR6	0.2	12/00	ND	07/01		
COL-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	93.0	09/75	10.0	10/76		
			CLO4	NA	NA	NA	NA		
COL-2	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	117.5	10/76	117.5	10/76		
			CLO4	NA	NA	NA	NA		
			AS	18.0	06/78	18.0	06/78		
COL-4	MUNICIPAL	ACTIVE	CF	7.5	09/97	ND	11/14	VULNERABLE (NO3)	
			NO3	64.0	03/83	39.0	05/15		
			CLO4	2.9	04/11	ND	05/15		
			AS	0.7	08/96	ND	02/14		
			CR6	1.0	07/01	ND	11/14		
COL-5	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
COL-6	MUNICIPAL	INACTIVE	PCE	7.2	07/85	ND	02/11		
			CF	0.6	09/97	ND	08/10		
			NO3	56.0	06/85	36.0	03/11		
			CLO4	2.1	03/11	2.1	03/11		
			AS	4.0	08/76	ND	05/10		
			CR6	1.0	07/01	1.0	07/01		
COL-7	MUNICIPAL	DESTROYED	PCE	22.0	12/87	3.1	11/99		
			TCE	9.9	01/80	ND	09/99		
			1,1-DCE	1.1	03/85	ND	09/99		
			1,1,1-TCA	1.7	07/85	ND	09/99		
			NO3	118.0	05/79	68.1	01/00		
			CLO4	4.2	01/02	4.2	01/02		
			AS	0.9	08/96	ND	01/00		
COL-8	MUNICIPAL	INACTIVE	PCE	0.2	09/80	ND	12/96		
			NO3	120.0	06/83	50.8	12/96		
			CLO4	NA	NA	NA	NA		
			AS	6.0	08/79	ND	03/85		
HIGHWAY	MUNICIPAL	ACTIVE	TCE	0.6	12/80	ND	05/14	VULNERABLE (NO3 AND CLO4) (4)	
			PCE	0.1	12/80	ND	05/14		
			NO3	53.0	02/15	53.0	02/15		
			CLO4	8.0	10/03	7.5	02/15		
			AS	0.8	08/96	ND	05/10		
			CR6	1.0	07/01	ND	11/14		
HIGHWAY 2	MUNICIPAL	ACTIVE	CF	1.4	10/10	ND	02/14	VULNERABLE (NO3)	
			NO3	26.0	11/14	26.0	05/15		
			CLO4	ND	10/10	ND	05/15		
			AS	ND	10/10	ND	10/10		
			CR6	1.7	10/10	ND	11/14		
L HILL 2	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
MALON	MUNICIPAL	ACTIVE	CF	1.7	08/96	ND	05/14	VULNERABLE (NO3)	
			NO3	42.0	09/87	27.0	05/15		
			CLO4	ND	08/97	ND	08/14		
			AS	0.7	08/96	ND	08/09		
			CR6	1.0	07/01	ND	11/14		
GOLDEN STATE WATER COMPANY/SAN GABRIEL VALLEY DISTRICT (SOUTH ARCADIA)									
AZU 1	MUNICIPAL	DESTROYED	TCE	15.0	07/93	0.6	01/95		
			PCE	1.9	07/93	ND	01/95		

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
EARL 1	MUNICIPAL	INACTIVE	NO3	72.9	12/90	35.0	07/02	
			CLO4	NA	NA	NA	10/02	
			AS	0.6	08/96	0.6	08/96	
EARL 1	MUNICIPAL	INACTIVE	PCE	6.0	09/03	6.0	09/03	
			NO3	7.2	08/03	7.1	09/03	
			CLO4	ND	08/97	ND	08/03	
			AS	0.5	08/96	ND	07/01	
ENC 1	MUNICIPAL	ACTIVE	TCE	21.0	04/03	2.9	05/15	VULNERABLE (VOCS, NO3 AND CLO4) (1)
			PCE	3.5	04/03	0.75	05/15	
			CF	0.9	08/00	ND	11/14	
			NO3	77.6	08/91	12.0	05/15	
			CLO4	5.7	02/13	ND	05/15	
			AS	ND	07/89	ND	02/10	
			CR6	8.2	07/01	7.5	11/14	
ENC 2	MUNICIPAL	ACTIVE	TCE	29.1	02/01	14.0	05/15	VULNERABLE (VOCS) (1)
			PCE	6.4	02/15	5.1	05/15	
			NO3	21.0	02/09	17.0	05/15	
			CLO4	1.5	03/10	ND	05/15	
			AS	0.7	08/96	ND	08/14	
ENC 3	MUNICIPAL	ACTIVE	TCE	17.0	02/14	12.0	05/15	VULNERABLE (VOCS AND NO3) (1)
			PCE	6.7	02/14	3.1	05/15	
			NO3	43.2	07/93	15.0	05/15	
			CLO4	1.9	03/10	ND	05/15	
			AS	16.3	07/90	ND	08/14	
FAR 1	MUNICIPAL	ACTIVE	TCE	11.9	10/80	1.9	05/15	VULNERABLE (VOCS)
			PCE	3.1	10/87	ND	02/15	
			NO3	13.0	07/89	9.4	05/15	
			CLO4	ND	08/97	ND	06/14	
			AS	2.7	08/97	ND	05/10	
FAR 2	MUNICIPAL	ACTIVE	TCE	12.9	07/80	ND	05/15	VULNERABLE (VOCS)
			PCE	2.6	10/87	ND	08/14	
			NO3	12.2	07/90	3.9	08/14	
			CLO4	ND	08/97	ND	08/14	
			AS	0.9	08/96	ND	08/14	
GAR 1	MUNICIPAL	INACTIVE	CF	0.8	08/99	ND	07/03	
			PCE	4.5	10/03	4.5	10/03	
			NO3	8.3	08/03	7.7	09/03	
			CLO4	ND	08/97	ND	08/03	
			AS	0.5	08/96	ND	08/03	
GAR 2	MUNICIPAL	INACTIVE	PCE	12.0	07/03	11.0	08/03	
			TCE	2.2	08/03	2.2	08/03	
			NO3	7.3	08/97	4.6	07/02	
			CLO4	ND	08/97	ND	08/03	
			AS	0.5	08/96	ND	08/00	
GID 1	MUNICIPAL	DESTROYED	TCE	6.6	04/85	4.1	09/93	
			PCE	0.9	09/93	0.9	09/93	
			NO3	40.6	09/93	40.6	09/93	
			CLO4	NA	NA	NA	NA	
GID 2	MUNICIPAL	DESTROYED	TCE	86.0	05/87	5.2	09/93	
			PCE	20.0	05/87	1.5	09/93	
			CTC	3.0	05/87	ND	09/93	
			NO3	45.8	09/93	45.8	09/93	
			CLO4	NA	NA	NA	NA	
GRA 1	MUNICIPAL	INACTIVE	TCE	33.0	09/88	25.4	11/94	
			PCE	2.5	11/93	0.6	11/94	
			NO3	86.8	08/89	44.4	07/95	
			CLO4	NA	NA	NA	NA	
			AS	18.0	06/78	ND	08/94	
GRA 2	MUNICIPAL	INACTIVE	TCE	31.3	08/89	24.6	08/94	
			PCE	3.3	09/94	3.3	09/94	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			1,1-DCE	4.8	08/94	4.8	08/94	
			NO3	82.1	07/90	44.2	07/95	
			CLO4	NA	NA	NA	NA	
			AS	ND	01/89	ND	08/94	
JEF 1	MUNICIPAL	INACTIVE	TCE	340.0	01/80	98.0	01/85	
			PCE	23.0	03/81	8.0	01/85	
			1,1,1-TCA	31.0	01/85	31.0	01/85	
			MC	10.0	01/85	10.0	01/85	
			NO3	52.0	07/83	48.7	03/86	
			CLO4	NA	NA	NA	NA	
JEF 2	MUNICIPAL	DESTROYED	TCE	260.0	01/80	140.0	01/85	
			PCE	15.0	03/81	6.0	01/85	
			1,1-DCE	20.0	01/85	20.0	01/85	
			1,1,1-TCA	54.0	01/85	54.0	01/85	
			MC	6.0	01/85	6.0	01/85	
			NO3	68.0	06/77	61.0	06/79	
			CLO4	NA	NA	NA	NA	
JEF 3	MUNICIPAL	INACTIVE	TCE	121.0	02/81	4.9	08/92	
			PCE	12.0	03/81	0.6	08/92	
			1,1,1-TCA	29.0	04/85	ND	08/92	
			T-1,2-DCE	2.4	04/85	ND	08/92	
			NO3	52.0	12/84	23.5	08/92	
			CLO4	NA	NA	NA	NA	
			AS	ND	12/84	ND	08/86	
JEF 4	MUNICIPAL	ACTIVE	VOCS	ND	08/89	ND	08/14	
			NO3	14.7	07/89	3.3	08/14	
			CLO4	ND	08/97	ND	08/14	
			AS	0.7	08/96	ND	08/09	
			CR6	1.3	07/01	ND	11/14	
PER 1	MUNICIPAL	ACTIVE	TCE	25.8	10/80	0.61	05/15	VULNERABLE (VOCS AND NO3)
			PCE	6.8	07/87	ND	05/15	
			NO3	38.0	12/11	13.0	05/15	
			CLO4	ND	08/97	ND	11/14	
			AS	0.9	08/96	ND	08/09	
			CR6	5.2	07/01	4.4	11/14	
S G 1	MUNICIPAL	ACTIVE	PCE	46.0	04/06	6.6	05/15	VULNERABLE (VOCS, NO3 AND CLO4) (1)
			TCE	6.8	12/03	ND	05/15	
			C-1,2-DCE	1.8	11/04	ND	05/15	
			1,1-DCA	1.8	06/04	ND	05/15	
			1,1-DCE	0.7	11/04	ND	05/15	
			FREON 11	1.2	08/03	ND	08/14	
			NO3	27.0	04/02	12.0	05/15	
			CLO4	8.1	08/03	ND	05/15	
			AS	2.7	08/94	ND	08/13	
			CR6	5.9	12/01	5.2	11/14	
S G 2	MUNICIPAL	ACTIVE	PCE	28.0	05/11	1.3	05/15	VULNERABLE (VOCS, NO3 AND CLO4) (1)
			TCE	3.6	06/99	ND	05/15	
			1,1-DCE	0.7	04/11	ND	05/15	
			C-1,2-DCE	1.2	02/01	ND	05/15	
			NO3	53.1	10/05	44.0	05/15	
			CLO4	7.0	02/03	ND	05/15	
			AS	0.8	08/96	ND	09/12	
			CR6	7.7	11/14	7.7	11/14	
SAX 1	MUNICIPAL	DESTROYED	PCE	1.4	04/97	0.9	12/97	
			MC	2.2	04/89	ND	08/97	
			NO3	33.1	10/97	33.1	10/97	
			CLO4	ND	08/97	ND	12/97	
			AS	0.3	08/96	0.3	08/96	
SAX 3	MUNICIPAL	ACTIVE	VOCS	ND	04/89	ND	08/14	VULNERABLE (NO3)
			NO3	27.3	11/96	4.3	08/14	
			CLO4	ND	08/97	ND	08/14	
			AS	0.4	08/96	ND	08/10	
			CR6	5.0	11/14	5.0	11/14	
SAX 4	MINICIPAL	ACTIVE	VOCS	ND	03/92	ND	08/14	
			NO3	11.9	08/99	6.3	08/14	
			CLO4	ND	08/97	ND	08/14	

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
			AS	5.2	12/09	4.6	08/10		
			CR6	4.8	11/14	4.8	11/14		
GREEN, WALTER									
NA	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
NA	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
HALL (W.E.) COMPANY									
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
HANSEN, ALICE									
2946C	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
HANSON AGGREGATES WEST, INC.									
DUA 1	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
EL 1	INDUSTRIAL	ACTIVE	VOCS	ND	05/98	ND	09/02		
			NO3	17.0	02/93	2.2	09/02		
			CLO4	ND	03/98	ND	03/98		
EL 3	INDUSTRIAL	ACTIVE	VOCS	ND	06/98	ND	09/02		
			NO3	22.0	05/93	2.8	09/02		
			CLO4	ND	03/98	ND	03/98		
EL 4	INDUSTRIAL	ACTIVE	VOCS	ND	12/87	ND	09/02		
			NO3	6.3	06/98	ND	09/02		
			CLO4	NA	NA	NA	NA		
KIN 1	INDUSTRIAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
HARTLEY, DAVID									
NA	DOMESTIC	INACTIVE	VOCS	ND	10/95	ND	10/95		
			NO3	111.0	01/96	75.0	04/96		
			CLO4	NA	NA	NA	NA		
HEMLOCK MUTUAL WATER COMPANY									
NORTH	MUNICIPAL	ACTIVE	PCE	51.7	04/82	ND	09/14	VULNERABLE (VOCS) (1)	
			TCE	0.7	12/87	ND	09/14		
			NO3	18.9	12/06	4.6	12/14		
			CLO4	ND	09/97	ND	09/14		
			AS	2.7	12/08	ND	12/14		
			CR6	1.0	12/00	0.5	09/13		
SOUTH	MUNICIPAL	ACTIVE	PCE	210.0	12/87	ND	03/15	VULNERABLE (VOCS AND NO3) (1)	
			TCE	0.9	04/89	ND	09/14		
			NO3	32.7	12/94	2.4	03/15		
			CLO4	ND	09/97	ND	09/14		
			AS	2.1	08/96	ND	12/14		
			CR6	1.1	12/00	0.6	09/13		
INDUSTRY WATERWORKS SYSTEM, CITY OF									
01	MUNICIPAL	INACTIVE	TCE	40.0	01/80	1.7	10/92		
			PCE	9.0	04/80	5.0	10/92		
			CTC	5.7	10/92	5.7	10/92		
			1,1-DCE	15.3	10/92	15.3	10/92		
			1,2-DCA	0.6	10/92	0.6	10/92		

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
02	MUNICIPAL	INACTIVE	NO3	60.2	10/92	60.2	10/92	
			CLO4	NA	NA	NA	NA	
			AS	ND	01/80	ND	01/80	
			TCE	19.0	01/80	2.3	04/81	
			PCE	10.0	04/81	10.0	04/81	
			NO3	55.5	02/86	55.5	02/86	
03	MUNICIPAL	INACTIVE	CLO4	100.0	04/99	100.0	04/99	VULNERABLE (VOCS, NO3, AND CLO4)
			AS	ND	01/80	ND	01/80	
			PCE	2.6	09/80	1.6	07/06	
			TCE	12.0	07/06	12.0	07/06	
			CTC	0.5	07/06	0.5	07/06	
			1,2-DCA	0.5	07/06	0.5	07/06	
04	MUNICIPAL	INACTIVE	BDCM	0.6	07/03	ND	07/06	VULNERABLE (VOCS, NO3, AND CLO4)
			BF	0.5	07/03	ND	07/06	
			CF	0.9	09/02	0.6	07/06	
			NO3	31.1	08/00	ND	07/06	
			CLO4	120.0	04/99	ND	07/06	
			AS	5.4	07/95	ND	08/04	
			CR6	6.9	11/00	6.9	11/00	
			PCE	2.4	08/01	0.5	07/06	
			TCE	8.0	11/01	1.7	07/06	
			1,1-DCE	0.9	09/02	0.6	07/06	
			1,2-DCA	1.0	11/01	ND	07/06	
			CTC	0.7	11/01	ND	07/05	
05	MUNICIPAL	ACTIVE	MC	0.9	06/89	ND	07/05	VULNERABLE (VOCS, NO3, AND CLO4) (1,4)
			NO3	42.0	06/02	33.0	04/07	
			CLO4	14.8	06/01	6.5	01/06	
			AS	6.9	07/95	2.8	08/01	
			CR6	8.9	11/00	8.4	06/01	
			PCE	8.2	10/12	6.3	05/15	
			TCE	6.8	04/96	2.8	05/15	
			1,2-DCA	0.7	09/02	ND	05/15	
			1,1-DCE	1.5	09/12	1.4	05/15	
			CF	0.6	01/07	ND	06/13	
05TH AVE	MUNICIPAL	DESTROYED	NO3	31.0	06/13	29.0	05/15	
			CLO4	11.0	04/04	ND	05/15	
			AS	6.8	07/95	ND	03/15	
KNIGHT, KATHRYN M.	DOMESTIC	INACTIVE	CR6	8.3	05/11	8.3	05/11	
			TCE	0.3	12/80	0.3	12/80	
			NO3	NA	NA	NA	NA	
LANDEROS, JOHN	DOMESTIC	INACTIVE	CLO4	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			VOCS	NA	NA	NA	NA	
LA PUENTE VALLEY COUNTY WATER DISTRICT	MUNICIPAL	DESTROYED	CLO4	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			VOCS	NA	NA	NA	NA	
02	MUNICIPAL	ACTIVE	CLO4	NA	NA	NA	NA	VULNERABLE (VOCS, NO3, AND CLO4) (1,4)
			NO3	NA	NA	NA	NA	
			TCE	120.0	12/12	52.0	05/15	
			PCE	6.6	03/00	3.4	05/15	
			CTC	8.5	12/02	3.0	05/15	
			1,1-DCA	2.1	11/03	0.6	05/15	
			1,2-DCA	6.1	03/00	2.4	05/15	
			1,1-DCE	1.6	12/00	ND	05/15	
			C-1,2-DCE	1.9	04/10	1.2	05/15	
			CF	2.8	04/10	2.2	12/14	
			NO3	33.0	09/14	15.0	05/15	
			CLO4	183.0	02/98	45.0	05/15	
			AS	1.9	04/06	ND	06/10	

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
03	MUNICIPAL	ACTIVE	CR6	3.7	04/06	2.7	03/14	VULNERABLE (VOCS, NO3, AND CLO4) (1,4)	
			TCE	72.0	03/11	0.63	05/15		
			PCE	6.3	04/85	ND	05/15		
			CTC	8.5	11/04	ND	05/15		
			1,1-DCE	0.9	10/95	ND	05/15		
			1,2-DCA	6.7	02/99	ND	05/15		
			C-1,2-DCE	1.4	01/97	ND	05/15		
			1,1-DCA	0.5	09/01	ND	05/15		
			CF	1.9	03/11	ND	06/14		
			NO3	95.0	01/80	37.0	05/15		
			CLO4	174.0	02/98	8.2	05/15		
			AS	2.1	08/04	ND	09/10		
CR6	4.3	06/01	3.7	03/14					
04	MUNICIPAL	INACTIVE	TCE	84.3	03/00	46.0	04/04	VULNERABLE (VOCS, NO3, AND CLO4) (1,4)	
			PCE	6.6	03/00	2.9	04/04		
			CTC	7.6	04/95	1.9	04/04		
			1,1-DCA	0.7	04/04	0.7	04/04		
			1,2-DCA	8.1	03/00	4.4	04/04		
			1,1-DCE	1.3	04/97	0.5	04/04		
			C-1,2-DCE	15.6	11/98	1.7	04/04		
			CF	2.3	04/04	2.3	04/04		
			NO3	24.9	04/95	18.1	04/04		
			CLO4	159.0	06/97	71.2	04/04		
			AS	2.3	09/94	ND	11/98		
			CR6	4.3	11/00	4.3	11/00		
05	MUNICIPAL	ACTIVE	TCE	43.0	03/08	14.0	05/15	VULNERABLE (VOCS, NO3, AND CLO4) (1,4)	
			PCE	3.8	03/08	1.1	05/15		
			CTC	2.3	03/08	0.6	05/15		
			1,1-DCA	0.5	03/08	ND	05/15		
			1,2-DCA	2.7	03/08	0.5	05/15		
			1,1-DCE	0.5	03/08	ND	05/15		
			C-1,2-DCE	0.8	11/08	ND	05/15		
			CF	1.7	03/08	ND	12/14		
			NO3	33.0	02/15	31.0	05/15		
			CLO4	65.0	03/08	17.0	05/15		
			AS	1.1	03/08	ND	03/09		
			CR6	3.1	05/11	3.0	11/14		
LA VERNE, CITY OF									
SNIDO	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
W15-L	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
W24-L	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
LEE, PAUL									
01	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
02	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
03	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
04	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
LOS ANGELES, COUNTY OF									
02	NON POTABLE	DESTROYED	PCE	6.6	09/04	6.6	09/04		
			TCE	1.3	09/04	1.3	09/04		

**APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			1,2-DCA	0.5	01/96	ND	09/04	
			NO3	10.7	09/04	10.7	09/04	
			CLO4	ND	08/97	ND	08/97	
03	IRRIGATION	DESTROYED	PCE	2.1	06/94	2.1	06/94	
			TCE	0.7	06/94	0.7	06/94	
			NO3	4.8	06/94	4.8	06/94	
			CLO4	NA	NA	NA	NA	
03A	IRRIGATION	DESTROYED	PCE	2.5	11/99	ND	10/08	
			NO3	2.1	08/96	ND	10/08	
			CLO4	ND	08/97	ND	08/97	
04	IRRIGATION	DESTROYED	1,1,1-TCA	0.7	05/87	ND	11/87	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
05	IRRIGATION	DESTROYED	PCE	39.0	09/03	35.7	10/08	
			TCE	1.3	09/03	ND	10/08	
			NO3	18.0	09/03	14.0	10/08	
			CLO4	ND	08/97	ND	08/97	
06	IRRIGATION	DESTROYED	PCE	7.4	08/96	2.8	11/99	
			TCE	8.3	08/96	2.9	11/99	
			1,1-DCA	2.0	08/96	ND	11/99	
			1,1-DCE	1.4	08/96	ND	11/99	
			C-1,2-DCE	4.5	08/96	0.8	11/99	
			NO3	11.6	08/96	8.4	11/99	
			CLO4	NA	NA	NA	NA	
600	IRRIGATION	INACTIVE	VOCS	ND	07/98	ND	07/98	
			NO3	4.8	07/98	4.8	07/98	
			CLO4	ND	07/98	ND	07/98	
BIG RED	NON POTABLE	INACTIVE	1,2-DCA	0.6	01/96	ND	10/09	
			NO3	12.0	09/02	ND	10/09	
			CLO4	ND	08/97	ND	08/97	
NEW LAKE	NON POTABLE	INACTIVE	PCE	19.7	02/00	ND	11/10	
			TCE	0.9	02/00	ND	11/10	
			CF	2.6	11/10	2.6	11/10	
			NO3	22.0	02/00	18.0	11/10	
			CLO4	ND	08/97	ND	08/97	
SF 1	NON POTABLE	ACTIVE	TCE	4.3	09/04	ND	10/10	VULNERABLE (VOCS)
			PCE	7.6	09/04	ND	10/10	
			VC	1.4	12/87	ND	10/10	
			NO3	16.0	09/02	6.3	10/10	
			CLO4	ND	06/97	ND	05/10	
WHI 1	NON POTABLE	INACTIVE	PCE	3.8	09/04	1.4	11/10	
			TCE	1.0	09/04	ND	11/10	
			NO3	7.7	10/09	5.1	11/10	
			CLO4	ND	08/97	ND	08/97	
LOS FLORES MUTUAL WATER COMPANY								
HI 1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
LO 1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
LOUCKS, DAVID								
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
MAECHTLEN ESTATE								
M-N	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
OLD60	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
SNIDO	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
MANNING BROTHERS ROCK AND SAND COMPANY									
36230	INDUSTRIAL	DESTROYED	TCE	520.0	12/79	100.0	01/80		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
MAPLE WATER COMPANY									
01	MUNICIPAL	DESTROYED	VOCS	ND	06/89	ND	07/96		
			NO3	68.0	09/94	55.5	07/96		
			CLO4	NA	NA	NA	NA		
			AS	1.3	07/96	1.3	07/96		
02	MUNICIPAL	DESTROYED	VOCS	ND	06/89	ND	07/96		
			NO3	62.7	11/89	55.3	07/96		
			CLO4	NA	NA	NA	NA		
			AS	1.3	07/96	1.3	07/96		
MARTINEZ, FRANCES M.									
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA									
02	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
03	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
MILLERCOORS LLC (MILLER BREWERIES WEST, L.P. /MILLER BREWING COMPANY)									
01	INDUSTRIAL	ACTIVE	VOCS	ND	01/92	ND	10/09		
			NO3	9.8	01/93	4.3	10/09		
			CLO4	ND	06/97	ND	06/08		
			AS	3.9	06/08	3.9	06/08		
02 (NW WELL)	INDUSTRIAL	ACTIVE	VOCS	ND	01/92	ND	03/15		
			NO3	14.0	10/92	3.4	06/14		
			CLO4	ND	06/97	ND	06/14		
			AS	3.5	05/08	3.3	06/13		
			CR6	ND	12/14	ND	12/14		
N BREWER	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
MONROVIA, CITY OF									
01	MUNICIPAL	DESTROYED	TCE	46.8	11/92	12.0	04/02		
			PCE	3.9	03/81	0.8	04/02		
			1,1-DCE	1.2	08/96	0.9	04/02		
			1,1,1-TCA	2.1	08/87	ND	07/01		
			CF	3.2	07/01	3.2	07/01		
			NO3	78.0	02/01	60.0	03/02		
			CLO4	11.1	02/01	8.4	04/02		
			AS	2.5	10/00	2.5	10/00		
			02	MUNICIPAL	ACTIVE	TCE	167.0	08/82	4.3
			PCE	11.0	08/82	ND	05/15	(VOCS, NO3 AND CLO4) (1)	
			1,1,1-TCA	7.1	02/87	ND	07/14		
			1,1-DCE	3.4	06/87	ND	04/15		
			1,2-DCA	1.5	02/87	ND	07/14		

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
03	MUNICIPAL	ACTIVE	CF	2.2	07/07	1.3	07/14	VULNERABLE (VOCS AND NO3) (1)	
			NO3	65.6	12/91	61.0	05/15		
			CLO4	6.9	04/15	6.4	05/15		
			AS	0.9	08/96	ND	04/10		
			CR6	3.6	07/01	3.6	08/13		
			TCE	18.0	08/82	3.3	05/15		
			PCE	17.0	08/82	ND	05/15		
			1,1-DCE	0.8	12/08	ND	04/15		
			CF	1.8	07/08	ND	07/14		
			NO3	49.6	05/76	21.0	05/15		
04	MUNICIPAL	ACTIVE	CLO4	ND	08/97	ND	05/15	VULNERABLE (VOCS AND NO3) (1)	
			AS	3.6	08/97	ND	04/10		
			CR6	5.8	08/13	5.8	08/13		
			TCE	6.5	02/91	2.1	05/15		
			PCE	1.0	02/91	0.5	05/15		
			1,1-DCE	1.1	01/05	ND	04/15		
			MC	2.5	05/89	ND	07/14		
			CF	0.7	07/02	ND	07/14		
			NO3	28.8	06/91	15.0	05/15		
			CLO4	ND	08/97	ND	05/15		
05	MUNICIPAL	ACTIVE	AS	3.8	08/97	ND	04/10	VULNERABLE (VOCS AND NO3) (1)	
			CR6	1.1	07/01	0.5	08/13		
			TCE	5.1	01/91	4.5	05/15		
			PCE	1.0	10/02	0.6	05/15		
			1,1-DCE	1.0	10/02	ND	04/15		
			MC	4.9	05/89	ND	07/14		
			CF	1.2	07/02	ND	07/14		
			NO3	29.4	01/91	17.0	05/15		
			CLO4	ND	08/97	ND	05/15		
			AS	1.0	08/96	ND	04/10		
06	MUNICIPAL	ACTIVE	CR6	1.4	07/01	0.6	08/13	VULNERABLE (VOCS, NO3 AND CLO4) (1)	
			TCE	23.0	04/14	9.6	05/15		
			PCE	2.3	01/10	1.7	05/15		
			1,1-DCE	0.8	10/07	0.6	04/15		
			CF	1.0	08/04	ND	07/14		
			NO3	42.0	06/14	32.0	05/15		
			CLO4	4.9	06/14	ND	07/14		
			AS	ND	10/99	ND	04/10		
			CR6	2.1	08/13	2.1	08/13		
			NO3	213.0	09/04	202.0	02/07		
MONROVIA NURSERY									
DIV 4	IRRIGATION	DESTROYED	VOCS	ND	08/96	ND	02/07		
			NO3	213.0	09/04	202.0	02/07		
			CLO4	ND	02/98	ND	02/98		
DIV 8	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
MONTEREY PARK, CITY OF									
01	MUNICIPAL	ACTIVE	PCE	64.1	12/08	8.1	05/15	VULNERABLE (VOCS, NO3 AND CLO4) (1)	
			TCE	4.1	05/04	1.3	05/15		
			1,1-DCE	0.6	05/04	ND	05/15		
			1,1-DCA	1.0	05/04	ND	05/15		
			C-1,2-DCE	1.0	03/04	ND	05/15		
			NO3	24.0	12/12	21.0	05/15		
			CLO4	4.7	05/04	ND	05/15		
			AS	0.5	07/96	ND	05/15		
			CR6	6.2	11/00	3.4	11/14		
			02	MUNICIPAL	DESTROYED	PCE	6.4		04/98
NO3	18.3	07/95				13.0	07/97		
CLO4	3.0	07/97				ND	03/98		
AS	0.4	07/96				0.4	07/96		
03	MUNICIPAL	INACTIVE	PCE	25.0	08/11	22.0	05/12	VULNERABLE (VOCS AND CLO4) (1)	
			TCE	2.7	05/04	1.3	05/12		
			C-1,2-DCE	0.8	05/04	ND	05/12		
			NO3	13.3	07/97	5.5	05/12		
			CLO4	4.2	05/04	ND	08/11		

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WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
04	MUNICIPAL	DESTROYED	AS	12.9	08/89	4.1	08/11		
			CR6	3.2	05/04	2.5	01/10		
			PCE	0.4	01/80	ND	11/87		
			NO3	6.2	09/87	6.2	09/87		
			CLO4	NA	NA	NA	NA		
05	MUNICIPAL	ACTIVE	PCE	40.0	06/13	27.0	05/15	VULNERABLE (VOCS, NO3 AND CLO4) (1,4)	
			TCE	7.0	01/92	0.9	05/15		
			C-1,2-DCE	2.0	11/01	ND	05/15		
			1,1-DCA	1.1	11/01	ND	05/15		
			1,1-DCE	0.7	11/01	ND	05/15		
			NO3	26.0	12/14	23.0	05/15		
			CLO4	6.5	02/01	ND	05/15		
			AS	1.5	10/12	1.5	10/12		
			CR6	4.6	01/10	4.6	11/14		
			06	MUNICIPAL	INACTIVE	PCE	13.6		03/01
TCE	6.4	05/89				3.1	05/05		
C-1,2-DCE	1.3	01/99				1.2	05/05		
1,1-DCA	0.8	11/01				0.6	05/05		
NO3	30.0	06/03				24.7	05/05		
CLO4	5.9	04/02				5.9	04/02		
AS	2.2	09/00				ND	08/02		
CR6	4.1	11/00				3.4	05/01		
07	MUNICIPAL	INACTIVE				PCE	6.0	09/10	6.0
			CF	3.6	07/98	ND	08/10		
			NO3	12.8	08/89	2.7	08/10		
			CLO4	ND	08/97	ND	08/10		
			AS	28.4	07/96	2.1	08/09		
			CR6	5.3	02/07	5.1	01/10		
08	MUNICIPAL	INACTIVE	PCE	2.5	02/05	1.9	03/09		
			NO3	17.0	08/05	ND	11/08		
			CLO4	ND	08/97	ND	11/08		
			AS	45.0	03/09	45.0	03/09		
			CR6	6.7	12/01	6.7	12/01		
09	MUNICIPAL	ACTIVE	PCE	13.0	05/15	11.0	05/15	VULNERABLE (VOCS) (1,4)	
			TCE	1.3	04/97	ND	05/15		
			NO3	18.0	07/12	2.3	05/15		
			CLO4	ND	08/97	ND	05/15		
			AS	15.0	06/07	8.9	05/15		
			CR6	3.4	11/00	2.6	11/14		
10	MUNICIPAL	ACTIVE	PCE	17.0	02/12	8.4	05/15	VULNERABLE (VOCS, NO3 AND CLO4) (1)	
			TCE	2.6	05/04	0.79	05/15		
			C-1,2-DCE	0.8	05/04	ND	05/15		
			NO3	27.1	08/07	20.0	05/15		
			CLO4	4.3	05/04	ND	05/15		
			AS	6.7	07/98	2.2	05/15		
			CR6	6.6	11/00	5.7	11/14		
12	MUNICIPAL	ACTIVE	PCE	85.0	05/02	38.0	05/15	VULNERABLE (VOCS, NO3 AND CLO4) (1,4)	
			TCE	5.4	10/95	2.9	05/15		
			1,1-DCA	1.3	05/12	0.8	05/15		
			1,1-DCE	0.5	05/12	ND	05/15		
			C-1,2-DCE	1.4	05/12	1.1	05/15		
			NO3	27.2	08/07	14.0	05/15		
			CLO4	15.0	09/97	ND	05/15		
			AS	ND	04/81	ND	05/15		
			CR6	4.6	02/07	3.7	11/14		
14	MUNICIPAL	INACTIVE	PCE	2.2	05/02	0.7	05/06		
			TCE	2.9	11/02	1.5	05/06		
			1,1-DCA	0.8	08/02	ND	05/06		
			C-1,2-DCE	1.0	11/02	ND	05/06		
			NO3	10.0	10/06	10.0	10/06		
			CLO4	ND	08/97	ND	05/03		
			AS	41.0	08/05	39.0	03/06		
CR6	1.0	11/00	1.0	05/01					
15	MUNICIPAL	ACTIVE	PCE	190.0	02/12	76.0	04/15	VULNERABLE (VOCS AND NO3) (1,4)	
			TCE	3.6	03/15	2.2	04/15		
			NO3	23.0	11/08	15.0	04/15		

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
FERN	MUNICIPAL	ACTIVE	CLO4	2.4	07/06	ND	04/15	VULNERABLE (VOCS)	
			AS	ND	09/06	ND	04/15		
			CR6	2.9	02/07	2.8	11/14		
			PCE	12.0	08/10	2.7	05/15		
			TCE	2.3	08/02	ND	05/15		
			C-1,2-DCE	0.7	03/04	ND	05/15		
			NO3	6.5	03/04	ND	05/15		
			CLO4	2.0	08/97	ND	05/15		
			AS	15.0	04/15	14.0	05/15		
			CR6	1.5	11/00	0.2	08/13		
NAMIMATSU FARMS									
NA	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
OWL ROCK PRODUCTS COMPANY									
NA	INDUSTRIAL	INACTIVE	VOCS	ND	05/87	ND	10/09		
			NO3	8.7	08/89	ND	10/09		
			CLO4	NA	NA	NA	NA		
NA	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
NA	INDUSTRIAL	INACTIVE	VOCS	ND	10/02	ND	11/04		
			NO3	ND	10/02	ND	11/04		
			CLO4	NA	NA	NA	NA		
PICO COUNTY WATER DISTRICT									
NA	MUNICIPAL	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
POLOPOLUS ET AL.									
01	IRRIGATION	INACTIVE	PCE	330.0	10/96	270.0	03/98		
			TCE	498.9	09/92	180.0	03/98		
			1,1-DCA	22.0	03/98	22.0	03/98		
			1,2-DCA	1.2	06/96	0.9	03/98		
			1,1-DCE	115.3	09/92	22.0	03/98		
			T-1,2-DCE	1.5	06/87	ND	03/98		
			1,1,1-TCA	53.0	09/92	12.0	03/98		
			CTC	0.8	06/96	0.6	03/98		
			NO3	50.8	07/91	29.7	03/98		
			CLO4	ND	03/98	ND	03/98		
RICHWOOD MUTUAL WATER COMPANY									
NORTH 2	MUNICIPAL	DESTROYED	PCE	93.0	05/83	4.0	12/93		
			TCE	3.0	03/81	ND	05/92		
			CTC	0.2	10/80	ND	05/92		
			NO3	25.0	02/84	19.7	06/99		
			CLO4	NA	NA	NA	NA		
			AS	ND	06/90	ND	09/92		
SOUTH 1	MUNICIPAL	DESTROYED	PCE	96.0	05/83	3.4	12/93		
			TCE	0.7	12/82	ND	05/92		
			NO3	28.6	06/99	28.6	06/99		
			CLO4	NA	NA	NA	NA		
			AS	ND	06/90	ND	09/92		
ROY, RUTH									
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
RURBAN HOMES MUTUAL WATER COMPANY									
NORTH 1	MUNICIPAL	ACTIVE	PCE	16.0	11/80	ND	03/15	VULNERABLE (VOCS AND NO3)	
			1,1-DCE	0.9	09/08	ND	03/15		

**APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)				REMARKS		
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE		DATE	
			CF	0.8	02/02	ND	09/14		
			FREON 11	13.3	05/04	ND	03/15		
			FREON 113	64.4	05/04	ND	03/15		
			NO3	30.0	03/01	16.0	09/14		
			CLO4	ND	09/97	ND	09/14		
			AS	3.0	08/03	2.3	09/12		
			CR6	1.0	06/01	0.9	09/13		
SOUTH 2	MUNICIPAL	INACTIVE	PCE	24.3	02/81	ND	03/13	VULNERABLE (VOCS AND NO3)	
			1,1-DCE	1.7	10/08	ND	03/13		
			CF	3.8	02/02	ND	09/12		
			FREON 11	14.1	05/04	ND	03/13		
			FREON 113	54.2	05/04	ND	03/13		
			MC	1.1	08/02	ND	09/12		
			NO3	38.2	03/07	21.0	03/13		
			CLO4	ND	09/97	ND	06/11		
			AS	3.0	08/03	2.1	09/12		
			CR6	1.0	06/01	ND	12/01		
SAN GABRIEL COUNTRY CLUB									
01	IRRIGATION	INACTIVE	VOCS	ND	05/85	ND	08/05		
			NO3	67.0	07/96	54.0	08/05		
			CLO4	8.5	07/97	5.4	08/05		
02	IRRIGATION	ACTIVE	VOCS	ND	05/87	ND	08/05	VULNERABLE (NO3)	
			NO3	23.0	10/02	20.3	08/05		
			CLO4	1.4	12/97	1.1	08/05		
SAN GABRIEL COUNTY WATER DISTRICT									
05 BRA	MUNICIPAL	INACTIVE	TCE	0.9	01/97	ND	03/01		
			PCE	1.9	02/99	1.0	03/01		
			NO3	83.9	08/89	70.7	03/01		
			CLO4	ND	09/97	ND	09/00		
			AS	0.6	08/96	ND	08/98		
			CR6	7.0	12/00	7.0	12/00		
06 BRA	MUNICIPAL	DESTROYED	VOCS	ND	02/99	ND	02/99		
			NO3	108.9	08/72	57.6	03/00		
			CLO4	3.0	02/99	3.0	02/99		
07	MUNICIPAL	DESTROYED	VOCS	ND	09/89	ND	10/11		
			NO3	48.0	03/03	35.0	10/11		
			CLO4	5.6	03/03	ND	10/11		
			AS	1.3	08/96	ND	07/09		
			CR6	4.5	07/01	4.5	07/01		
08	MUNICIPAL	INACTIVE	VOCS	ND	01/90	ND	03/91		
			NO3	76.0	01/82	23.4	08/93		
			CLO4	NA	NA	NA	NA		
			AS	ND	06/78	ND	08/90		
09	MUNICIPAL	ACTIVE	PCE	2.1	07/14	1.7	01/15	VULNERABLE (NO3)	
			NO3	51.0	03/03	23.0	05/15		
			CLO4	ND	09/97	ND	07/14		
			AS	ND	09/89	ND	07/09		
			CR6	8.1	12/02	5.9	08/13		
10	MUNICIPAL	INACTIVE	PCE	18.0	08/93	1.9	11/98		
			NO3	50.0	05/89	31.0	11/98		
			CLO4	5.5	11/98	5.5	11/98		
			AS	ND	06/78	ND	11/98		
11	MUNICIPAL	ACTIVE	PCE	2.6	01/15	2.6	01/15	VULNERABLE (NO3)	
			TCE	0.7	04/12	ND	01/15		
			NO3	42.0	01/15	29.0	05/15		
			CLO4	ND	09/97	ND	07/14		
			AS	ND	06/78	ND	07/06		
			CR6	25.0	12/00	5.5	08/13		
12	MUNICIPAL	ACTIVE	TCE	0.8	09/02	ND	01/15		
			PCE	0.6	10/10	0.6	01/15		
			MC	0.6	05/90	ND	07/14		
			NO3	7.9	09/14	7.0	05/15		
			CLO4	ND	09/97	ND	07/14		

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
14	MUNICIPAL	ACTIVE	AS	7.0	10/96	3.9	10/14		
			CR6	7.6	07/01	5.0	08/13		
			PCE	0.6	09/02	ND	07/14		
			NO3	5.5	09/14	4.0	05/15		
			CLO4	ND	09/97	ND	07/14		
			AS	3.1	07/08	2.7	07/14		
15	MUNICIPAL	ACTIVE	CR6	4.6	07/01	1.9	08/13	VULNERABLE (NO3)	
			PCE	1.0	04/15	1.0	04/15		
			NO3	30.0	02/15	26.0	05/15		
			CLO4	ND	12/14	ND	12/14		
			AS	ND	06/14	ND	06/14		
			CR6	3.6	11/14	3.6	11/14		
SAN GABRIEL VALLEY WATER COMPANY									
1B	MUNICIPAL	ACTIVE	PCE	46.0	04/81	ND	05/15	VULNERABLE (VOCS)	
			TCE	1.8	02/80	ND	08/14		
			MC	7.1	04/87	ND	08/14		
			FREON 113	22.3	08/08	ND	05/15		
			NO3	22.4	05/08	16.0	05/15		
			CLO4	ND	08/97	ND	08/14		
			AS	2.9	07/96	2.3	08/14		
			CR6	1.0	05/14	1.0	05/14		
1C	MUNICIPAL	ACTIVE	VOCS	ND	07/98	ND	08/14		
			NO3	8.3	08/11	5.4	08/14		
			CLO4	ND	10/99	ND	08/14		
			AS	2.6	09/94	2.4	08/09		
			CR6	1.0	05/01	0.6	08/13		
1D	MUNICIPAL	ACTIVE	VOCS	ND	07/98	ND	08/14		
			NO3	5.0	07/89	3.3	11/14		
			CLO4	ND	08/97	ND	08/14		
			AS	2.0	11/06	ND	11/12		
			CR6	1.0	05/01	0.7	08/13		
1E	MUNICIPAL	ACTIVE	PCE	0.7	09/02	ND	05/15	VULNERABLE (CLO4)	
			NO3	4.5	11/13	4.4	11/14		
			CLO4	5.0	06/00	ND	08/14		
			AS	2.7	11/08	2.0	11/14		
			CR6	1.0	05/01	0.7	08/13		
2C	MUNICIPAL	DESTROYED	TCE	15.2	12/80	ND	11/05		
			PCE	3.0	10/87	ND	11/05		
			NO3	16.4	08/04	5.2	08/05		
			CLO4	ND	08/97	ND	02/03		
			AS	ND	07/89	ND	08/05		
2D	MUNICIPAL	ACTIVE	TCE	25.0	12/80	ND	05/15	VULNERABLE (VOCS)	
			PCE	0.7	01/88	ND	09/14		
			NO3	8.2	07/86	4.9	09/14		
			CLO4	ND	08/97	ND	09/14		
			AS	ND	07/89	ND	09/14		
			CR6	1.7	05/01	1.2	05/11		
2E	MUNICIPAL	ACTIVE	TCE	18.0	01/80	ND	05/15	VULNERABLE (VOCS)	
			PCE	2.2	05/15	2.2	05/15		
			NO3	13.0	08/09	7.7	08/14		
			CLO4	ND	08/97	ND	08/14		
			AS	ND	07/89	ND	08/14		
			CR6	2.8	06/01	1.9	05/11		
2F	MUNICIPAL	ACTIVE	TCE	1.3	02/15	ND	05/15		
			NO3	5.3	08/10	4.0	08/14		
			CLO4	ND	09/06	ND	08/14		
			AS	0.7	03/06	ND	08/09		
			CR6	1.8	02/07	1.0	05/11		
8A	MUNICIPAL	INACTIVE	PCE	0.6	11/87	ND	02/97		
			NO3	40.2	02/97	40.2	02/97		
			CLO4	NA	NA	NA	NA		
			AS	ND	07/89	ND	07/89		
8B	MUNICIPAL	ACTIVE	PCE	220.0	02/09	110.0	05/15	VULNERABLE	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS	
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT				
				VALUE	DATE	VALUE	DATE			
			TCE	1.1	11/10	0.9	05/15	(VOCS, NO3, AND CLO4)		
			NO3	23.0	08/08	19.0	04/15			
			CLO4	3.0	08/97	ND	05/15			
			AS	0.4	07/96	ND	08/09			
			CR6	2.9	11/02	2.3	05/11			
8C	MUNICIPAL	ACTIVE	PCE	170.0	05/09	97.0	05/15	VULNERABLE (VOCS AND CLO4) (1,5)		
			TCE	0.8	05/09	0.7	05/15			
			NO3	20.0	07/98	10.0	04/15			
			CLO4	4.0	03/08	ND	05/15			
			AS	0.5	07/96	ND	08/09			
			CR6	3.0	05/11	3.0	05/11			
8D	MUNICIPAL	ACTIVE	PCE	110.0	11/12	74.0	05/15	VULNERABLE (VOCS AND NO3) (1,5)		
			TCE	0.9	02/14	0.7	05/15			
			C-1,2-DCE	0.8	05/04	ND	05/15			
			CTC	0.6	06/88	ND	05/15			
			NO3	29.0	06/09	20.0	05/15			
			CLO4	2.3	03/08	ND	05/15			
			AS	29.5	09/94	ND	05/14			
			CR6	3.3	11/00	2.7	05/11			
8E	MUNICIPAL	ACTIVE	PCE	10.0	03/03	ND	05/15	VULNERABLE (VOCS) (1,5)		
			NO3	7.2	07/01	ND	04/15			
			CLO4	ND	08/97	ND	05/15			
			AS	2.8	08/95	ND	08/10			
			CR6	4.2	05/11	4.2	05/11			
8F	MUNICIPAL	ACTIVE	VOCS	ND	10/98	ND	05/15			
			NO3	19.0	11/10	ND	04/15			
			CLO4	ND	01/99	ND	05/15			
			AS	2.2	11/01	ND	11/10			
			CR6	6.1	11/00	5.8	05/11			
11A	MUNICIPAL	ACTIVE	PCE	1.5	02/08	ND	05/15			
			NO3	14.7	07/89	ND	11/14			
			CLO4	ND	08/97	ND	08/14			
			AS	3.9	07/96	2.9	08/09			
			CR6	6.8	05/01	5.8	05/11			
11B	MUNICIPAL	ACTIVE	PCE	17.8	04/90	ND	05/15	VULNERABLE (VOCS) (1)		
			TCE	4.0	04/90	ND	05/15			
			1,1-DCE	0.2	04/89	ND	11/14			
			C-1,2-DCE	3.0	04/89	ND	05/15			
			NO3	18.3	08/06	6.7	11/14			
			CLO4	ND	06/97	ND	08/14			
			AS	4.8	09/94	2.5	11/09			
			CR6	6.1	11/00	5.3	05/11			
11C	MUNICIPAL	ACTIVE	PCE	4.1	12/91	ND	05/15	VULNERABLE (VOCS)		
			TCE	0.6	12/91	ND	03/15			
			1,1-DCE	1.1	08/08	ND	08/14			
			C-1,2-DCE	2.5	03/92	ND	05/15			
			NO3	12.0	08/06	7.2	09/14			
			CLO4	ND	08/97	ND	08/14			
			AS	7.5	07/96	3.0	08/09			
			CR6	4.8	05/01	2.8	05/11			
B1	MUNICIPAL	INACTIVE	TCE	12.0	04/85	ND	08/06			
			PCE	7.3	05/88	ND	08/06			
			C-1,2-DCE	7.2	12/92	ND	08/06			
			1,1-DCE	2.1	08/89	ND	08/06			
			NO3	17.4	02/87	3.5	03/05			
			CLO4	ND	08/97	ND	02/03			
			AS	2.8	07/96	2.3	02/05			
B2	MUNICIPAL	INACTIVE	TCE	17.0	03/80	ND	11/98			
			PCE	15.8	06/80	0.7	11/98			
			CTC	1.7	05/82	ND	11/98			
			1,2-DCA	7.7	07/82	ND	11/98			
			1,1,1-TCA	7.6	07/82	ND	11/98			
			C-1,2-DCE	2.6	08/93	ND	11/98			
			NO3	8.7	11/98	8.7	11/98			
			CLO4	ND	11/98	ND	11/98			
B4B	MUNICIPAL	INACTIVE	TCE	25.2	02/08	25.2	02/08			

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)				REMARKS	
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE		DATE
			PCE	43.0	11/07	5.8	02/08	
			CTC	10.0	11/03	6.6	02/08	
			1,2-DCA	1.0	09/07	0.5	02/08	
			1,1-DCE	3.2	11/07	2.3	02/08	
			C-1,2-DCE	4.2	11/07	2.7	02/08	
			NO3	13.1	11/07	13.1	11/07	
			CLO4	24.5	04/08	24.5	04/08	
			AS	6.3	08/95	2.0	02/08	
			CR6	4.1	05/01	4.1	05/01	
B4C	MUNICIPAL	INACTIVE	CTC	22.3	02/01	14.0	08/01	
			TCE	15.5	02/01	9.3	08/01	
			PCE	3.4	02/01	2.2	08/01	
			1,1-DCE	2.3	09/01	2.3	09/01	
			C-1,2-DCE	2.4	09/01	2.4	09/01	
			NO3	14.2	02/01	14.2	02/01	
			CLO4	6.0	06/00	ND	07/00	
			AS	5.8	08/95	ND	03/99	
			CR6	3.3	05/01	3.3	05/01	
B5A	MUNICIPAL	INACTIVE	PCE	17.5	03/91	ND	11/05	
			TCE	5.2	03/98	ND	11/05	
			1,1-DCE	2.5	03/85	ND	08/05	
			CTC	1.1	12/91	ND	11/05	
			1,1,1-TCA	3.7	03/90	ND	08/05	
			CF	1.4	08/01	1.1	08/05	
			NO3	46.1	07/96	25.3	11/05	
			CLO4	14.0	06/97	4.0	08/05	
			AS	2.8	07/96	2.0	08/05	
			CR6	6.4	11/00	6.2	05/01	
B5B	MUNICIPAL	ACTIVE	TCE	5.8	02/97	2.2	05/15	VULNERABLE
			PCE	3.9	02/09	2.3	05/15	(VOCS, NO3, AND CLO4) (1,4)
			CTC	2.3	02/85	ND	05/15	
			1,2-DCA	0.6	09/07	ND	05/15	
			CF	2.4	01/07	ND	08/13	
			NO3	56.0	12/12	47.0	05/15	
			CLO4	12.0	06/97	8.2	05/15	
			AS	ND	07/89	ND	08/10	
			CR6	6.1	02/09	5.2	05/11	
B5C	MUNICIPAL	INACTIVE	VOCS	ND	05/89	ND	08/07	
			NO3	3.8	05/07	3.8	05/07	
			CLO4	ND	06/97	ND	03/08	
			AS	5.8	08/95	2.0	08/07	
			CR6	5.8	05/01	5.8	05/01	
B5D	MUNICIPAL	ACTIVE	CTC	1.0	04/13	0.9	05/15	VULNERABLE
			NO3	4.9	08/08	3.7	05/15	(VOCS) (1,4)
			CLO4	ND	12/97	ND	05/15	
			AS	2.4	09/10	2.4	09/10	
			CR6	4.6	05/01	2.6	05/11	
B5E	MUNICIPAL	ACTIVE	TCE	20.0	11/12	14.0	05/15	VULNERABLE
			PCE	3.7	03/15	2.8	05/15	(VOCS, NO3, AND CLO4) (1,4)
			CTC	5.2	05/07	2.3	05/15	
			CF	3.9	01/07	ND	08/14	
			NO3	23.0	08/07	20.0	05/15	
			CLO4	21.0	11/14	16.0	05/15	
			AS	3.0	08/07	2.5	08/10	
			CR6	7.0	02/09	5.9	05/11	
B6B	MUNICIPAL	DESTROYED	TCE	111.0	02/85	35.8	09/92	
			PCE	6.4	10/81	4.3	09/92	
			CTC	17.0	02/85	5.0	09/92	
			1,1-DCE	1.1	04/85	0.5	09/92	
			1,1-DCA	0.6	09/92	0.6	09/92	
			1,2-DCA	8.3	09/92	8.3	09/92	
			NO3	85.4	02/91	57.2	09/92	
			CLO4	NA	NA	NA	NA	
B6C	MUNICIPAL	ACTIVE	TCE	84.0	03/88	1.7	05/15	VULNERABLE
			PCE	12.0	11/81	ND	05/15	(VOCS, NO3, AND CLO4) (1,4)
			CTC	13.0	02/85	ND	05/15	
			1,2-DCA	9.0	05/88	ND	05/15	
			1,1-DCE	1.5	06/94	ND	05/15	

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS	
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
			C-1,2-DCE	6.2	04/88	ND	05/15		
			CF	1.7	04/04	ND	05/13		
			NO3	93.0	09/11	93.0	05/15		
			CLO4	370.0	11/05	19.0	05/15		
			AS	3.7	07/96	2.2	08/14		
			CR6	3.9	03/10	2.3	10/14		
B6D	MUNICIPAL	ACTIVE	TCE	140.0	05/11	8.3	05/15	VULNERABLE (VOCS, NO3, AND CLO4) (1,4)	
			PCE	7.1	05/09	0.8	05/15		
			CTC	14.0	05/11	ND	05/15		
			1,1-DCA	1.1	05/09	ND	05/15		
			1,2-DCA	3.7	05/11	ND	05/15		
			1,1-DCE	1.0	08/08	ND	05/15		
			C-1,2-DCE	2.8	05/09	ND	05/15		
			CF	2.9	05/09	1.8	05/13		
			NO3	29.0	05/15	29.0	05/15		
			CLO4	390.0	11/05	8.1	05/15		
			AS	3.1	07/96	ND	08/14		
			CR6	2.9	10/14	2.9	10/14		
B7B	MUNICIPAL	DESTROYED	TCE	2.4	03/85	2.4	03/85		
			PCE	1.4	03/85	1.2	03/85		
			NO3	12.4	08/87	12.4	08/87		
			CLO4	NA	NA	NA	NA		
B7C	MUNICIPAL	ACTIVE	TCE	15.0	11/10	4.8	11/14	VULNERABLE (VOCS AND NO3) (1)	
			PCE	35.0	03/03	15.0	11/14		
			1,1-DCE	6.7	12/89	2.9	11/14		
			C-1,2-DCE	4.7	12/93	0.9	11/14		
			CTC	0.6	02/89	ND	08/14		
			NO3	28.4	08/92	15.0	08/14		
			CLO4	ND	06/97	ND	08/14		
			AS	2.0	08/05	ND	08/14		
			CR6	5.0	05/01	3.5	05/11		
B7D	MUNICIPAL	INACTIVE	PCE	5.3	07/87	3.5	09/87		
			TCE	3.9	07/87	3.3	09/87		
			1,1-DCE	5.3	05/87	5.0	09/87		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
B7E	MUNICIPAL	ACTIVE	VOCS	ND	08/90	ND	08/14		
			NO3	16.0	11/08	2.8	05/15		
			CLO4	ND	06/97	ND	08/14		
			AS	4.6	03/97	3.1	05/15		
			CR6	3.4	05/01	3.0	05/11		
B8	MUNICIPAL	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
B9	MUNICIPAL	INACTIVE	TCE	37.0	02/85	34.7	01/87		
			PCE	4.9	01/87	4.9	01/87		
			CTC	8.3	01/87	8.3	01/87		
			NO3	84.7	02/86	68.1	02/87		
			CLO4	NA	NA	NA	NA		
B9B	MUNICIPAL	ACTIVE	VOCS	ND	06/87	ND	08/14		
			NO3	4.5	06/87	3.2	09/14		
			CLO4	1.2	03/08	ND	08/14		
			AS	3.5	08/95	ND	08/10		
			CR6	9.8	05/01	8.0	05/11		
B11A	MUNICIPAL	INACTIVE	TCE	9.8	08/01	5.8	08/04		
			PCE	21.7	05/92	8.5	08/04		
			1,1-DCE	14.0	08/01	2.8	08/04		
			CTC	0.9	01/88	ND	08/04		
			C-1,2-DCE	1.5	08/01	0.6	09/04		
			1,1-DCA	1.0	08/01	ND	08/04		
			NO3	37.7	03/00	36.5	08/04		
			CLO4	8.0	12/97	ND	08/04		
			AS	2.7	07/96	ND	09/02		
			CR6	10.0	06/01	10.0	06/01		
B11B	MUNICIPAL	ACTIVE	TCE	33.0	11/14	6.1	05/15	VULNERABLE (VOCS, NO3, AND CLO4) (1)	
			PCE	34.5	06/92	4.9	05/15		

**APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			1,1-DCE	64.0	11/14	7.0	05/15	
			1,1-DCA	4.7	11/14	0.7	05/15	
			1,1,1-TCA	2.9	10/88	ND	08/14	
			C-1,2-DCE	5.1	11/14	0.9	05/15	
			NO3	46.0	11/14	19.0	05/15	
			CLO4	7.0	06/00	ND	01/15	
			AS	2.2	07/96	ND	08/14	
			CR6	10.3	05/01	8.9	05/11	
B24A	MUNICIPAL	ACTIVE	VOCS	ND	01/07	ND	05/15	
			NO3	13.0	02/15	13.0	02/15	
			CLO4	ND	01/07	ND	04/15	
			AS	2.3	09/14	2.3	09/14	
			CR6	1.2	08/13	1.2	08/13	
B24B	MUNICIPAL	ACTIVE	PCE	2.1	05/07	ND	05/15	
			TCE	0.7	05/07	ND	05/15	
			NO3	15.0	02/14	6.3	02/15	
			CLO4	ND	01/07	ND	04/15	
			AS	2.2	02/10	2.2	02/10	
			CR6	3.3	08/13	3.3	08/13	
B25A (SA3-1S)	MUNICIPAL	ACTIVE	TCE	60.3	02/08	49.0	05/15	VULNERABLE
			PCE	35.0	08/13	27.0	05/15	(VOCS, NO3, AND CLO4) (1,4)
			CTC	5.9	10/07	1.8	05/15	
			1,2-DCA	1.4	10/07	1.1	05/15	
			1,1-DCE	6.6	02/08	4.3	05/15	
			C-1,2-DCE	6.3	08/07	4.5	05/15	
			CF	2.0	08/14	1.8	11/14	
			NO3	78.0	05/09	57.0	05/15	
			CLO4	43.0	08/13	41.0	05/15	
			AS	3.2	03/10	3.2	03/10	
			CR6	3.2	08/14	3.2	08/14	
B25B (SA3-1D)	MUNICIPAL	ACTIVE	TCE	29.0	03/15	26.0	05/15	VULNERABLE
			PCE	9.1	02/15	8.5	05/15	(VOCS, NO3, AND CLO4) (1,4)
			CTC	10.0	09/04	5.5	05/15	
			1,1-DCA	1.2	10/07	ND	05/15	
			1,1-DCE	4.8	08/14	2.1	05/15	
			C-1,2-DCE	2.6	02/15	2.4	05/15	
			NO3	27.0	05/09	8.8	05/15	
			CLO4	15.0	05/15	15.0	05/15	
			AS	3.0	03/06	ND	03/10	
			CR6	2.4	08/06	2.3	08/14	
B26A (SA3-2S)	MUNICIPAL	ACTIVE	TCE	57.0	05/09	30.0	05/15	VULNERABLE
			PCE	6.8	12/10	2.4	05/15	(VOCS, NO3, AND CLO4) (1,4)
			CTC	5.4	12/10	1.3	05/15	
			1,1-DCA	0.8	05/09	ND	05/15	
			1,2-DCA	4.3	11/04	1.6	05/15	
			1,1-DCE	2.0	12/10	ND	05/15	
			C-1,2-DCE	3.3	05/06	1.2	05/15	
			CF	3.1	07/06	1.3	05/14	
			NO3	70.0	05/14	57.0	05/15	
			CLO4	87.0	07/06	40.0	05/15	
			AS	3.0	03/06	2.1	02/15	
			CR6	4.2	08/14	4.2	08/14	
B26B (SA3-2D)	MUNICIPAL	ACTIVE	TCE	70.0	03/15	65.0	05/15	VULNERABLE
			PCE	2.3	05/14	1.8	05/15	(VOCS, NO3, AND CLO4) (1,4)
			CTC	16.6	02/09	11.0	05/15	
			1,2-DCA	2.4	08/14	2.2	05/15	
			CF	2.0	05/14	2.0	05/14	
			NO3	16.0	05/14	15.0	05/15	
			CLO4	59.0	08/13	57.0	05/15	
			AS	2.9	11/04	2.1	02/15	
			CR6	3.7	02/06	3.1	08/14	
EW4-5	MUNICIPAL	INACTIVE	PCE	29.0	10/06	22.0	12/11	VULNERABLE
			TCE	4.1	10/06	1.6	12/11	(VOCS) (1)
			NO3	16.0	12/05	13.0	11/11	
			CLO4	ND	12/05	ND	11/11	
			AS	1.1	08/09	1.1	08/09	
EW4-6	MUNICIPAL	INACTIVE	PCE	8.1	06/06	4.7	12/11	VULNERABLE

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
			TCE	1.1	10/06	0.7	12/11	(VOCS) (1)	
			NO3	15.0	11/06	15.0	11/11		
			CLO4	ND	05/06	ND	11/11		
			AS	1.0	08/09	1.0	08/09		
EW4-7	MUNICIPAL	INACTIVE	PCE	8.2	01/06	2.0	12/11	VULNERABLE	
			TCE	1.8	02/06	ND	12/11	(VOCS) (1)	
			NO3	18.0	01/06	13.0	11/11		
			CLO4	ND	12/05	ND	11/11		
			AS	1.8	08/09	1.8	08/09		
G4A	MUNICIPAL	ACTIVE	PCE	9.4	05/14	5.7	05/15	VULNERABLE	
			TCE	1.3	11/97	ND	05/15	(VOCS AND NO3) (1)	
			NO3	28.0	05/14	23.0	05/15		
			CLO4	1.0	03/08	ND	02/15		
			AS	0.5	07/96	ND	11/09		
			CR6	4.4	11/00	3.9	08/14		
SIERRA LA VERNE COUNTRY CLUB									
01	IRRIGATION	ACTIVE	VOCS	ND	08/96	ND	10/07		
			NO3	10.5	05/99	ND	10/07		
			CLO4	ND	03/98	ND	03/98		
02	IRRIGATION	INACTIVE	MC	0.5	10/08	ND	10/10		
			NO3	17.4	08/96	ND	10/10		
			CLO4	28.0	03/98	ND	04/98		
SLOAN RANCHES									
01	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
02	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
SONOCO PRODUCTS COMPANY									
01	INDUSTRIAL	ACTIVE	TCE	28.6	12/99	0.6	12/05	VULNERABLE	
			PCE	8.5	12/99	ND	12/05	(VOCS AND NO3)	
			1,1-DCE	113.0	12/99	1.0	12/05		
			1,1,1-TCA	71.8	12/99	ND	12/05		
			CTC	1.2	07/96	ND	12/05		
			CF	1.4	07/04	0.6	12/05		
			NO3	72.8	12/05	72.8	12/05		
			CLO4	ND	06/98	ND	07/04		
02	INDUSTRIAL	ACTIVE	CTC	0.9	11/87	ND	12/05	VULNERABLE	
			1,1,1-TCA	2.0	11/87	ND	12/05	(VOCS, NO3, AND CLO4)	
			1,1-DCE	5.9	02/98	1.0	12/05		
			PCE	1.8	10/03	0.6	12/05		
			TCE	16.0	10/03	1.0	12/05		
			CF	1.4	09/02	1.2	12/05		
			NO3	74.5	12/05	74.5	12/05		
			CLO4	10.0	02/98	ND	07/04		
SOUTH COVINA WATER SERVICE									
102W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
SOUTHERN CALIFORNIA EDISON COMPANY									
110RH	NON-POTABLE	INACTIVE	VOCS	ND	08/89	ND	02/07		
			NO3	8.9	02/07	8.9	02/07		
			CLO4	ND	11/97	ND	11/97		
			AS	ND	08/98	ND	08/98		
1EB86	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
2EB76	IRRIGATION	DESTROYED	PCE	4.3	09/04	4.1	02/07		

APPENDIX C
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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			TCE	1.3	09/04	0.7	02/07	
			NO3	51.4	09/98	26.5	02/07	
			CLO4	2.0	11/97	2.0	11/97	
38EIS	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
38W	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
MURAT	IRRIGATION	DESTROYED	PCE	4.1	09/02	0.6	10/08	
			TCE	0.9	09/02	ND	10/08	
			NO3	26.9	09/04	14.0	10/08	
			CLO4	ND	04/98	ND	04/98	
			AS	ND	04/98	ND	04/98	
SOUTH PASADENA, CITY OF								
GRAV 2	MUNICIPAL	ACTIVE	PCE	16.0	07/08	9.0	05/15	VULNERABLE (VOCS, NO3, CLO4)
			CTC	0.9	07/08	0.5	05/15	
			NO3	58.2	04/87	49.0	05/15	
			CLO4	6.9	02/03	4.1	05/15	
			AS	0.7	07/96	ND	08/09	
			CR6	4.0	06/01	2.4	08/13	
WIL 2	MUNICIPAL	INACTIVE	PCE	23.0	01/88	9.1	03/01	
			TCE	4.6	03/00	4.6	03/01	
			NO3	86.8	03/00	77.9	02/01	
			CLO4	5.0	07/97	ND	12/99	
			AS	0.6	07/96	ND	08/99	
WIL 3	MUNICIPAL	ACTIVE	PCE	9.5	08/94	2.4	05/15	VULNERABLE (VOCS AND NO3)
			TCE	1.9	04/13	1.7	05/15	
			NO3	66.0	01/83	25.0	05/15	
			CLO4	ND	07/97	ND	05/15	
			AS	2.2	08/01	ND	08/10	
			CR6	3.0	08/13	3.0	08/13	
WIL 4	MUNICIPAL	ACTIVE	PCE	8.1	06/00	1.8	05/15	VULNERABLE (VOCS AND NO3)
			TCE	2.1	05/07	0.86	05/15	
			NO3	30.0	02/03	25.0	11/14	
			CLO4	ND	07/97	ND	05/15	
			AS	2.0	02/03	ND	05/15	
			CR6	3.9	06/01	3.5	08/13	
SPEEDWAY 605 INC.								
NA	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
STERLING MUTUAL WATER COMPANY								
NEW SO.	MUNICIPAL	ACTIVE	VOCS	ND	06/91	ND	07/14	VULNERABLE (NO3)
			NO3	35.0	02/10	19.0	07/14	
			CLO4	ND	10/97	ND	07/14	
			AS	2.9	12/00	2.7	07/14	
			CR6	1.0	06/01	0.6	08/13	
NORTH	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	07/14	VULNERABLE (NO3)
			NO3	43.4	02/07	23.0	02/15	
			CLO4	ND	09/97	ND	07/14	
			AS	4.6	08/95	2.9	05/14	
			CR6	1.0	06/01	0.8	08/13	
SOUTH	MUNICIPAL	DESTROYED	VOCS	ND	01/85	ND	06/91	
			NO3	16.2	03/91	14.0	05/12	
			CLO4	NA	NA	NA	NA	
			AS	2.6	08/11	2.6	08/11	
SUBURBAN WATER SYSTEMS								
101W-1	MUNICIPAL	DESTROYED	TCE	1.5	07/87	ND	08/89	
			NO3	54.2	08/89	54.2	08/89	

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WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			CLO4	NA	NA	NA	NA	
			AS	ND	02/88	ND	08/89	
102W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
102W-2	MUNICIPAL	DESTROYED	TCE	2.0	01/80	ND	06/85	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
103W-1	MUNICIPAL	DESTROYED	TCE	2.5	06/80	ND	07/82	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
105W-1	MUNICIPAL	DESTROYED	PCE	1.4	01/96	1.4	01/96	
			NO3	46.2	04/95	46.2	04/95	
			CLO4	NA	NA	NA	NA	
			AS	ND	06/88	ND	06/94	
106W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
111W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	82.5	03/73	82.5	03/73	
			CLO4	NA	NA	NA	NA	
112W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	99.2	07/69	99.2	07/69	
			CLO4	NA	NA	NA	NA	
113W-1	MUNICIPAL	DESTROYED	TCE	0.7	02/80	0.5	03/85	
			NO3	85.0	10/85	67.8	02/88	
			CLO4	NA	NA	NA	NA	
114W-1	MUNICIPAL	INACTIVE	TCE	2.9	01/80	ND	07/95	
			PCE	0.5	12/93	ND	07/95	
			NO3	46.7	08/91	39.8	04/95	
			CLO4	NA	NA	NA	NA	
			AS	ND	11/88	ND	11/94	
117W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
120W-1	MUNICIPAL	DESTROYED	TCE	0.3	07/82	ND	08/96	
			NO3	66.0	07/88	60.5	08/96	
			CLO4	NA	NA	NA	NA	
121W-1	MUNICIPAL	ACTIVE	VOCS	ND	10/02	ND	06/13	VULNERABLE
			NO3	25.0	12/14	25.0	12/14	(NO3 AND CLO4)
			CLO4	8.5	12/14	8.5	12/14	
			AS	1.6	02/04	ND	08/14	
			CR6	9.6	02/05	6.4	04/13	
122W-1	MUNICIPAL	DESTROYED	TCE	2.6	08/96	2.6	08/96	
			NO3	90.0	05/86	60.7	08/96	
			CLO4	NA	NA	NA	NA	
			AS	3.0	08/79	ND	05/85	
123W-1	MUNICIPAL	DESTROYED	TCE	26.8	04/81	ND	08/96	
			PCE	33.0	04/81	ND	08/96	
			NO3	47.0	05/76	4.0	08/96	
			CLO4	NA	NA	NA	NA	
124W-1	MUNICIPAL	DESTROYED	TCE	0.5	06/83	ND	08/89	
			NO3	60.0	09/84	53.6	08/89	
			CLO4	NA	NA	NA	NA	
			AS	ND	06/80	ND	08/89	
125W-1	MUNICIPAL	DESTROYED	VOCS	ND	01/80	ND	09/81	
			NO3	30.0	05/76	21.0	05/79	
			CLO4	NA	NA	NA	NA	
125W-2	MUNICIPAL	INACTIVE	VOCS	ND	03/83	ND	07/95	

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WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
126W-1	MUNICIPAL	DESTROYED	NO3	50.0	08/87	40.6	03/95	
			CLO4	NA	NA	NA	NA	
			AS	ND	05/88	ND	08/94	
126W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	18.0	05/75	18.0	05/75	
			CLO4	NA	NA	NA	NA	
126W-2	MUNICIPAL	INACTIVE	VOCS	ND	03/85	ND	08/00	
			NO3	38.8	07/91	34.9	03/01	
			CLO4	4.8	07/97	ND	01/98	
			AS	1.3	07/96	ND	08/00	
131W-1	MUNICIPAL	DESTROYED	TCE	56.0	10/93	56.0	10/93	
			PCE	227.0	04/80	52.0	10/93	
			CTC	2.7	10/93	2.7	10/93	
			1,1-DCE	40.0	10/93	40.0	10/93	
			1,1,1-TCA	5.3	10/93	5.3	10/93	
			NO3	62.0	09/81	55.3	10/93	
			CLO4	NA	NA	NA	NA	
133W-1	MUNICIPAL	DESTROYED	TCE	0.5	07/87	ND	08/89	
			CTC	0.5	08/89	0.5	08/89	
			NO3	49.1	08/89	47.8	09/89	
			CLO4	NA	NA	NA	NA	
			AS	ND	04/81	ND	08/89	
134W-1	MUNICIPAL	DESTROYED	TCE	56.0	10/93	56.0	10/93	
			PCE	0.1	12/80	ND	10/93	
			1,1-DCE	8.6	10/93	8.6	10/93	
			1,1,1-TCA	13.2	03/83	ND	10/93	
			NO3	43.0	06/87	40.9	10/93	
			CLO4	NA	NA	NA	NA	
			AS	ND	03/88	ND	07/89	
135W-1	MUNICIPAL	DESTROYED	TCE	0.8	03/85	0.3	05/85	
			NO3	59.0	02/86	47.5	09/86	
			CLO4	NA	NA	NA	NA	
136W-1	MUNICIPAL	DESTROYED	PCE	335.0	03/80	66.0	10/93	
			TCE	53.0	03/80	9.1	10/93	
			CTC	2.4	10/93	2.4	10/93	
			1,1-DCE	15.0	10/93	15.0	10/93	
			NO3	48.0	01/77	37.6	10/93	
			CLO4	NA	NA	NA	NA	
			AS	5.0	08/79	5.0	08/79	
139W-1	MUNICIPAL	DESTROYED	TCE	34.8	06/81	ND	01/97	
			PCE	5.0	02/88	ND	01/97	
			CTC	0.8	09/80	ND	07/96	
			NO3	99.2	05/94	92.9	07/96	
			CLO4	NA	NA	NA	NA	
			AS	3.6	07/95	2.6	07/96	
139W-2	MUNICIPAL	INACTIVE	TCE	18.7	09/80	ND	05/10	
			PCE	12.1	03/80	ND	05/10	
			CTC	0.8	09/80	ND	05/10	
			CF	0.6	10/08	ND	05/10	
			NO3	103.5	10/08	58.5	05/10	
			CLO4	34.0	10/08	15.0	05/10	
			AS	3.2	07/95	2.6	08/01	
139W-4	MUNICIPAL	STANDBY	TCE	4.7	04/97	ND	11/11	VULNERABLE (VOCS)
			MC	0.7	09/07	ND	11/11	
			NO3	52.0	11/11	50.0	12/14	
			CLO4	12.0	12/03	11.0	12/14	
			AS	1.5	07/96	ND	12/14	
			CR6	4.1	11/00	3.5	12/14	
139W-5	MUNICIPAL	INACTIVE	TCE	19.0	08/01	19.0	08/01	
			PCE	10.8	05/99	0.7	08/01	
			CTC	1.0	08/01	1.0	08/01	
			1,2-DCA	1.0	02/00	ND	08/01	
			MC	2.4	09/97	ND	08/01	
			NO3	36.5	06/01	36.5	10/09	
			CLO4	12.0	09/97	12.0	10/09	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
139W-6	MUNICIPAL	INACTIVE	AS	1.6	07/96	ND	08/01	
			TCE	51.2	02/01	ND	05/10	
			PCE	2.8	02/01	ND	05/10	
			CTC	1.9	02/01	ND	05/10	
			1,2-DCA	1.6	02/01	ND	05/10	
			NO3	42.8	10/08	36.5	05/10	
			CLO4	35.4	11/00	2.0	05/10	
			AS	2.7	05/96	ND	05/99	
140W-1	MUNICIPAL	DESTROYED	TCE	1.0	01/80	1.0	01/80	
			NO3	86.9	04/73	68.0	05/75	
			CLO4	NA	NA	NA	NA	
			AS	ND	01/02	ND	01/02	
140W-3	MUNICIPAL	STANDBY	TCE	13.6	03/80	ND	12/11	VULNERABLE (VOCS, NO3, AND CLO4)
			PCE	1.0	06/88	ND	12/11	
			CTC	1.0	09/81	ND	12/11	
			1,1-DCE	1.1	10/09	ND	12/11	
			NO3	78.0	03/85	48.0	12/14	
			CLO4	16.0	12/05	5.9	12/14	
			AS	4.0	08/76	2.5	12/14	
			CR6	12.7	06/01	8.7	12/14	
140W-4	MUNICIPAL	INACTIVE	TCE	7.0	01/96	1.5	11/06	
			NO3	36.4	10/03	36.3	12/04	
			CLO4	12.6	10/03	11.6	12/04	
			AS	2.4	07/95	ND	12/04	
140W-5	MUNICIPAL	ACTIVE	TCE	21.0	02/91	3.7	05/15	VULNERABLE (VOCS, NO3, CLO4)
			PCE	1.0	06/07	ND	05/15	
			NO3	36.0	02/14	15.0	04/15	
			CLO4	15.0	10/12	8.2	05/15	
			AS	1.9	07/96	ND	11/09	
			CR6	9.8	02/05	6.8	04/13	
142W-1	MUNICIPAL	DESTROYED	VOCS	ND	02/80	ND	07/82	
			NO3	74.0	06/81	74.0	06/81	
			CLO4	NA	NA	NA	NA	
142W-2	MUNICIPAL	ACTIVE	VOCS	ND	03/04	ND	06/13	VULNERABLE (CLO4)
			NO3	15.0	03/14	13.0	12/14	
			CLO4	3.6	10/09	ND	12/14	
			AS	1.6	07/04	ND	02/12	
			CR6	12.0	02/05	6.8	04/13	
147W-1	MUNICIPAL	DESTROYED	TCE	23.0	03/85	23.0	03/85	
			PCE	1.2	03/85	1.2	03/85	
			NO3	100.0	03/85	100.0	03/85	
			CLO4	NA	NA	NA	NA	
147W-2	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	54.0	09/74	54.0	09/74	
			CLO4	NA	NA	NA	NA	
147W-3	MUNICIPAL	ACTIVE	TCE	4.1	01/92	2.4	05/15	VULNERABLE (VOCS AND CLO4)
			PCE	4.4	04/89	1.5	05/15	
			1,1-DCE	8.9	01/89	2.6	05/15	
			1,1-DCA	4.8	05/89	ND	05/15	
			NO3	19.8	09/88	9.0	05/15	
			CLO4	3.0	04/10	ND	05/15	
			AS	1.8	07/04	ND	08/14	
			CR6	13.0	04/05	9.6	04/13	
148W-1	MUNICIPAL	DESTROYED	TCE	0.8	06/80	ND	04/97	
			NO3	47.0	02/76	34.8	04/97	
			CLO4	NA	NA	NA	NA	
			AS	26.0	06/78	26.0	06/78	
149W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
150W-1	MUNICIPAL	DESTROYED	TCE	6.0	09/81	ND	08/93	
			NO3	53.0	03/86	13.4	08/94	
			CLO4	NA	NA	NA	NA	

APPENDIX C
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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
			AS	ND	07/89	ND	08/94		
151W-1	MUNICIPAL	DESTROYED	VOCS	ND	01/80	ND	03/98		
			NO3	116.0	03/98	116.0	03/98		
			CLO4	21.6	03/98	21.6	03/98		
			AS	7.0	08/79	7.0	08/79		
151W-2	MUNICIPAL	ACTIVE	TCE	0.9	10/12	ND	05/15		
			NO3	8.6	05/15	3.1	05/15		
			CLO4	1.5	03/12	ND	05/15		
			AS	1.3	12/06	1.3	12/06		
			CR6	12.0	04/05	8.1	04/13		
152W-1	MUNICIPAL	DESTROYED	TCE	12.8	11/82	8.0	03/85		
			PCE	0.8	11/82	0.3	03/85		
			NO3	43.4	05/86	43.4	05/86		
			CLO4	NA	NA	NA	NA		
153W-1	MUNICIPAL	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
154W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	81.0	05/79	81.0	05/79		
			CLO4	NA	NA	NA	NA		
155W-1	MUNICIPAL	INACTIVE	PCE	190.0	11/80	90.0	11/98		
			TCE	50.0	07/81	24.0	11/98		
			CTC	19.0	02/82	ND	11/98		
			1,1-DCE	16.0	03/85	13.0	11/98		
			NO3	60.0	11/80	49.8	11/98		
			CLO4	5.4	11/98	5.4	11/98		
			AS	4.0	08/76	ND	03/85		
155W-2	MUNICIPAL	DESTROYED	PCE	190.0	09/93	76.0	11/98		
			TCE	39.0	04/80	22.0	11/98		
			1,1-DCE	21.0	09/93	11.0	11/98		
			1,1-DCA	3.0	09/93	1.4	11/98		
			C-1,2-DCE	16.0	03/85	1.8	11/98		
			NO3	49.0	11/98	49.0	11/98		
			CLO4	4.3	11/98	ND	11/98		
157W-1	MUNICIPAL	DESTROYED	TCE	12.2	02/80	ND	03/85		
			NO3	58.0	02/86	58.0	02/86		
			CLO4	NA	NA	NA	NA		
201W-1	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
201W-2	MUNICIPAL	DESTROYED	TCE	6.8	04/89	1.7	08/06		
			PCE	3.9	09/88	1.4	08/06		
			1,1-DCE	3.2	08/89	ND	08/06		
			C-1,2-DCE	6.1	02/91	4.3	08/06		
			NO3	6.8	08/94	6.3	08/06		
			CLO4	ND	08/97	ND	09/03		
			AS	8.5	08/97	3.0	08/06		
201W-3	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
201W-4	MUNICIPAL	STANDBY	TCE	6.4	09/89	ND	02/09		
			PCE	4.1	09/88	ND	02/09		
			1,1-DCE	2.0	07/88	ND	02/09		
			C-1,2-DCE	5.2	05/97	ND	02/09		
			BF	4.7	11/07	2.2	02/09		
			DBCM	1.9	11/07	1.0	02/09		
			NO3	21.0	11/14	21.0	11/14		
			CLO4	ND	06/97	ND	07/14		
			AS	4.0	08/97	ND	06/14		
			CR6	1.9	05/01	ND	11/14		
201W-5	MUNICIPAL	DESTROYED	TCE	6.4	09/89	ND	03/08		
			PCE	3.8	09/89	ND	03/08		
			1,1-DCE	2.9	09/88	ND	03/08		

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
			C-1,2-DCE	4.9	08/88	ND	03/08	
			BDCM	1.7	11/07	ND	03/08	
			BF	6.4	11/07	0.6	03/08	
			DBCM	4.6	11/07	ND	03/08	
			NO3	12.0	08/94	12.0	08/07	
			CLO4	ND	06/97	ND	06/03	
			AS	8.9	09/89	4.0	09/05	
201W-6	MUNICIPAL	DESTROYED	TCE	3.9	05/88	ND	09/05	
			PCE	3.3	05/88	ND	09/05	
			1,1-DCE	3.2	09/88	ND	09/05	
			C-1,2-DCE	8.7	05/88	ND	09/05	
			NO3	20.0	06/85	7.7	05/05	
			CLO4	ND	06/97	ND	06/03	
			AS	9.2	08/95	2.0	09/04	
201W-7	MUNICIPAL	ACTIVE	PCE	0.6	08/08	ND	05/15	
			C-1,2-DCE	0.9	08/08	ND	05/15	
			NO3	14.0	08/09	12.0	08/14	
			CLO4	ND	08/08	ND	08/14	
			AS	2.0	08/08	ND	08/14	
			CR6	0.8	04/13	0.8	04/13	
201W-8	MUNICIPAL	ACTIVE	TCE	0.5	05/07	ND	05/15	
			C-1,2-DCE	1.1	05/07	ND	05/15	
			EBZ	0.8	07/06	ND	05/15	
			NO3	11.0	08/11	7.1	08/14	
			CLO4	2.1	07/06	ND	08/14	
			AS	2.7	08/09	2.7	08/09	
			CR6	1.1	05/07	0.9	04/13	
201W-9	MUNICIPAL	ACTIVE	PCE	0.9	04/12	ND	12/14	
			NO3	19.0	02/15	19.0	02/15	
			CLO4	ND	03/08	ND	08/14	
			AS	1.5	05/07	ND	02/14	
			CR6	0.6	04/13	0.6	04/13	
201W-10	MUNICIPAL	ACTIVE	TCE	1.4	09/07	ND	05/15	
			PCE	1.3	09/07	ND	05/15	
			C-1,2-DCE	3.0	09/07	ND	05/15	
			NO3	5.1	42138	5.1	05/15	
			CLO4	ND	09/07	ND	05/15	
			AS	2.1	09/07	ND	05/15	
			CR6	0.3	09/07	0.3	09/07	
202W-1	MUNICIPAL	DESTROYED	TCE	4.3	09/81	ND	01/89	
			PCE	15.0	10/88	12.1	01/89	
			NO3	24.0	07/87	23.0	10/88	
			CLO4	NA	NA	NA	NA	
			AS	ND	09/88	ND	09/88	
SUNNY SLOPE WATER COMPANY								
08	MUNICIPAL	ACTIVE	VOCS	ND	01/87	ND	03/15	VULNERABLE (NO3)
			NO3	24.0	09/94	14.0	05/15	
			CLO4	ND	07/97	ND	09/14	
			AS	ND	09/89	ND	09/14	
			CR6	7.1	12/00	5.2	09/13	
09	MUNICIPAL	ACTIVE	VOCS	ND	01/85	ND	03/15	VULNERABLE (NO3)
			NO3	36.0	06/03	28.0	05/15	
			CLO4	ND	07/97	ND	09/14	
			AS	3.6	08/96	ND	09/09	
			CR6	4.5	07/01	4.3	09/13	
10	MUNICIPAL	INACTIVE	VOCS	ND	01/85	ND	08/96	
			NO3	63.6	12/94	50.9	08/96	
			CLO4	NA	NA	NA	NA	
			AS	0.7	08/96	0.7	08/96	
13	MUNICIPAL	ACTIVE	VOCS	ND	08/96	ND	09/13	
			NO3	7.2	09/09	6.3	08/14	
			CLO4	ND	07/97	ND	09/13	
			AS	ND	08/96	ND	09/11	
			CR6	9.9	07/01	7.9	09/13	

**APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
TAYLOR HERB GARDEN									
NA	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
TEXACO INC.									
14	INDUSTRIAL	DESTROYED	PCE	40.0	07/01	2.8	09/03		
			TCE	5.0	05/85	ND	09/03		
			1,2-DCA	0.6	01/96	ND	09/03		
			MC	4.6	04/87	ND	09/03		
			NO3	33.0	07/01	6.4	09/03		
			CLO4	ND	09/97	ND	09/97		
THOMPSON, EARL W.									
01	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
TOMOVICH (NICK) & SON									
NA	DOMESTIC	DESTROYED	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
TYLER NURSERY									
NA	IRRIGATION	INACTIVE	TCE	12.9	12/99	1.2	09/04		
			PCE	44.6	12/99	1.2	09/04		
			1,1-DCE	0.6	09/02	ND	09/04		
			1,1-DCA	0.9	09/02	ND	09/04		
			C-1,2-DCE	8.7	09/02	ND	09/04		
			NO3	31.0	09/02	ND	09/04		
			CLO4	NA	NA	NA	NA		
UNITED CONCRETE PIPE CORPORATION									
NA	INDUSTRIAL	INACTIVE	VOCS	ND	08/89	ND	10/08		
			NO3	4.3	08/89	4.3	08/89		
			CLO4	NA	NA	NA	NA		
UNITED ROCK PRODUCTS CORPORATION									
IRW-1	INDUSTRIAL	ACTIVE	VOCS	ND	08/89	ND	10/09		
			NO3	6.4	07/96	2.5	10/09		
			CLO4	ND	02/98	ND	02/98		
			AS	ND	04/98	ND	04/98		
IRW-2	INDUSTRIAL	ACTIVE	VOCS	ND	07/96	ND	11/05		
			NO3	4.5	10/04	2.6	11/05		
			CLO4	ND	02/98	ND	02/98		
SIERRA	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
VALENCIA HEIGHTS WATER COMPANY									
01	MUNICIPAL	INACTIVE	MC	0.7	06/89	ND	07/09		
			NO3	46.5	04/99	32.6	07/07		
			CLO4	8.5	08/00	ND	07/09		
			AS	0.7	08/96	ND	07/07		
02	MUNICIPAL	INACTIVE	TCE	0.2	01/80	ND	07/08		
			NO3	53.7	07/97	27.0	07/06		
			CLO4	8.0	10/98	4.2	07/08		
			AS	0.9	08/96	ND	07/06		
03A	MUNICIPAL	INACTIVE	VOCS	ND	03/85	ND	03/92		
			NO3	34.8	09/89	12.1	08/92		
			CLO4	NA	NA	NA	NA		

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WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS				
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT						
				VALUE	DATE	VALUE	DATE					
04	MUNICIPAL	INACTIVE	PCE	1.0	09/99	ND	09/01					
			NO3	90.0	11/97	78.0	03/02					
			CLO4	32.6	11/00	28.0	03/02					
			AS	2.2	07/00	ND	08/00					
			CR6	5.0	11/00	5.0	11/00					
05	MUNICIPAL	ACTIVE	VOCS	ND	06/90	ND	07/14	VULNERABLE (NO3 AND CLO4)				
			NO3	42.0	08/12	37.0	05/15					
			CLO4	7.2	11/00	ND	05/15					
			AS	0.9	08/96	ND	08/12					
			CR6	1.7	08/13	1.7	08/13					
06	MUNICIPAL	ACTIVE	CF	13.0	12/02	ND	07/14	VULNERABLE (NO3 AND CLO4)				
			NO3	49.3	06/04	44.0	05/15					
			CLO4	8.9	01/07	5.4	05/15					
			AS	ND	12/02	ND	10/14					
			CR6	8.0	12/02	2.2	08/13					
07	MUNICIPAL	ACTIVE	VOCS	ND	05/08	ND	07/14	VULNERABLE (NO3 AND CLO4)				
			NO3	32.0	08/12	29.0	05/15					
			CLO4	5.4	10/12	ND	05/15					
			AS	ND	12/09	ND	08/12					
			CR6	1.2	08/13	1.2	08/13					
VALLEY COUNTY WATER DISTRICT												
ARROW	MUNICIPAL	INACTIVE	TCE	700.0	07/82	600.0	12/96					
			PCE	980.0	12/96	980.0	12/96					
			1,1-DCE	64.0	12/96	64.0	12/96					
			C-1,2-DCE	59.0	12/96	59.0	12/96					
			CTC	14.5	09/92	8.0	12/96					
			1,2-DCA	9.0	02/92	7.3	12/96					
			1,1,1-TCA	45.0	12/96	45.0	12/96					
			1,1-DCA	2.9	02/95	2.7	12/96					
			NO3	26.4	08/96	26.4	08/96					
			CLO4	NA	NA	NA	NA					
			AS	1.5	08/96	1.5	08/96					
			B DALTON	MUNICIPAL	INACTIVE	TCE	137.0		04/85	ND	05/11	
						PCE	8.0		04/85	ND	05/11	
1,1-DCA	0.9	05/96				ND	05/11					
C-1,2-DCE	2.0	11/95				ND	05/11					
CTC	9.9	04/85				ND	05/11					
1,2-DCA	11.0	12/98				ND	05/11					
NO3	72.0	10/09				72.0	05/11					
CLO4	99.1	12/98				11.0	05/11					
AS	5.0	11/95				2.7	09/07					
E NIXON (E JOAN)	MUNICIPAL	ACTIVE	TCE	7.0	11/08	1.7	10/14	VULNERABLE (VOCS) (1)				
			PCE	11.0	10/04	4.3	10/14					
			1,1-DCE	1.3	10/04	ND	10/14					
			C-1,2-DCE	1.7	10/04	ND	10/14					
			NO3	13.6	02/05	8.4	10/14					
			CLO4	ND	05/97	ND	10/14					
			AS	3.0	08/06	2.0	10/12					
			CR6	1.0	05/01	0.3	08/13					
E MAINE	MUNICIPAL	ACTIVE	TCE	36.0	10/04	0.82	05/15	VULNERABLE (VOCS AND CLO4) (1)				
			PCE	110.0	10/04	1.7	05/15					
			1,1-DCE	10.1	02/91	ND	05/15					
			1,2-DCA	1.4	10/04	ND	05/15					
			1,1,1-TCA	9.1	02/91	ND	05/15					
			C-1,2-DCE	13.0	06/03	ND	05/15					
			CF	1.1	10/04	ND	11/14					
			NO3	21.0	02/11	10.0	05/15					
			CLO4	7.8	10/04	ND	05/15					
			AS	4.4	08/89	2.0	03/15					
			CR6	1.0	05/01	0.4	08/13					
LANTE (SA1-3)	MUNICIPAL	ACTIVE	TCE	1315.0	04/98	15.0	05/15	VULNERABLE (VOCS, NO3, AND CLO4) (1,4)				
			PCE	1200.0	11/96	36.0	05/15					
			1,1-DCE	110.0	11/96	3.4	05/15					
			C-1,2-DCE	90.0	11/96	0.9	05/15					
			T-1,2-DCE	110.0	04/85	ND	05/15					
			1,1-DCA	18.0	08/04	ND	05/15					
			1,2-DCA	12.5	01/92	ND	05/15					

**APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)				REMARKS	
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE		DATE
			CTC	17.6	01/92	ND	05/15	
			1,1,1-TCA	170.0	04/85	ND	05/15	
			MC	24.4	05/87	ND	05/15	
			CF	3.2	05/06	1.1	08/14	
			o-DCB	0.6	08/04	ND	05/15	
			p-DCB	3.1	08/04	ND	05/15	
			NO3	45.0	05/15	43.0	05/15	
			CLO4	94.0	04/98	7.4	05/15	
			AS	2.4	01/05	ND	04/15	
			CR6	18.0	01/05	2.3	08/13	
MORADA	MUNICIPAL	INACTIVE	TCE	770.0	03/80	ND	05/11	
			PCE	100.0	02/85	2.2	05/11	
			CTC	29.0	04/84	ND	05/11	
			1,1-DCE	2.5	04/88	ND	05/11	
			1,1-DCA	8.5	02/85	ND	05/11	
			1,2-DCA	0.7	04/88	ND	05/11	
			C-1,2-DCE	8.1	08/95	ND	05/11	
			CF	1.7	10/08	ND	05/11	
			NO3	110.8	11/90	85.5	05/11	
			CLO4	21.0	02/04	11.0	05/11	
			AS	3.6	08/95	3.6	08/95	
PADDY LN	MUNICIPAL	INACTIVE	TCE	166.0	04/94	29.0	05/11	
			PCE	42.0	11/93	3.5	05/11	
			CF	4.9	05/10	1.8	05/11	
			CTC	15.0	12/87	1.0	05/11	
			1,1-DCE	17.2	11/93	1.6	05/11	
			C-1,2-DCE	23.8	11/93	1.9	05/11	
			1,2-DCA	6.6	02/04	2.6	05/11	
			NO3	63.0	05/10	39.6	05/11	
			CLO4	154.0	02/98	38.0	05/11	
			AS	ND	06/80	ND	11/94	
PALM	MUNICIPAL	INACTIVE	CTC	48.0	07/82	0.8	02/04	
			TCE	56.0	02/04	56.0	02/04	
			PCE	51.0	02/04	51.0	02/04	
			CF	0.7	02/04	0.7	02/04	
			C-1,2-DCE	7.1	02/04	7.1	02/04	
			1,1,1-TCA	1.8	02/04	1.8	02/04	
			NO3	11.0	12/94	10.0	02/04	
			CLO4	5.6	02/04	5.6	02/04	
			AS	ND	10/87	ND	11/92	
W NIXON (W JOAN)	MUNICIPAL	ACTIVE	TCE	4.0	11/04	1.4	05/15	VULNERABLE (VOCS) (1)
			PCE	8.0	11/04	3.4	05/15	
			MC	1.6	05/89	ND	05/15	
			NO3	8.5	08/13	8.0	05/15	
			CLO4	ND	05/97	ND	05/15	
			AS	3.1	08/95	ND	03/15	
			CR6	1.0	05/01	0.3	08/13	
W MAINE	MUNICIPAL	ACTIVE	TCE	47.3	02/91	1.9	05/15	VULNERABLE (VOCS AND CLO4) (1)
			PCE	70.0	02/03	3.7	05/15	
			1,1-DCE	14.2	02/91	ND	05/15	
			1,2-DCA	0.8	08/04	ND	05/15	
			1,1,1-TCA	10.6	02/91	ND	05/15	
			C-1,2-DCE	9.0	02/03	ND	05/15	
			NO3	20.8	05/90	9.9	05/15	
			CLO4	6.3	10/04	ND	05/15	
			AS	2.6	07/96	2.1	03/15	
			CR6	1.0	05/01	0.4	08/13	
SA1-1	MUNICIPAL	ACTIVE	TCE	34.0	07/05	ND	05/15	VULNERABLE (VOCS, NO3, AND CLO4) (1,4)
			PCE	47.0	04/07	1.3	05/15	
			1,1-DCA	11.0	07/05	ND	04/15	
			1,1-DCE	110.0	07/05	ND	04/15	
			1,2-DCA	1.0	07/05	ND	04/15	
			C-1,2-DCE	4.1	07/05	ND	04/15	
			1,1,1-TCA	6.0	05/06	ND	04/15	
			CF	1.6	12/04	ND	11/14	
			MC	2.2	04/07	ND	04/15	
			FREON 11	5.8	02/12	ND	04/15	
			NO3	87.0	01/05	63.0	04/15	
			CLO4	17.0	01/05	7.6	04/15	
			AS	1.3	06/03	ND	02/15	

**APPENDIX C
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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS			
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT						
				VALUE	DATE	VALUE	DATE					
SA1-2	MUNICIPAL	STANDBY	CR6	2.4	03/06	1.7	11/14	VULNERABLE (VOCS, NO3, AND CLO4) (1,4)				
			TCE	25.0	04/06	2.0	12/09					
			PCE	37.0	05/06	4.8	12/09					
			1,1-DCA	8.7	07/05	ND	12/09					
			1,1-DCE	62.0	04/06	1.2	12/09					
			1,2-DCA	1.0	07/05	ND	12/09					
			C-1,2-DCE	6.2	07/05	ND	12/09					
			1,1,1-TCA	2.2	05/06	ND	12/09					
			CF	1.3	05/06	ND	12/09					
			NO3	72.0	03/05	72.0	05/12					
			CLO4	15.0	03/05	11.0	12/09					
			AS	2.0	03/06	ND	02/09					
			CR6	2.6	03/06	2.0	09/07					
VALLEY VIEW MUTUAL WATER COMPANY												
01	MUNICIPAL	ACTIVE	VOCS	ND	06/89	ND	09/10					
			NO3	6.4	09/09	5.7	09/10					
			CLO4	ND	08/97	ND	09/10					
			AS	3.0	09/07	ND	09/10					
			CR6	1.0	11/00	1.0	05/01					
02	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	09/14					
			NO3	7.7	09/09	6.5	09/14					
			CLO4	ND	08/97	ND	09/14					
			AS	2.0	09/96	ND	12/10					
			CR6	2.5	05/01	0.6	09/13					
03	MUNICIPAL	INACTIVE	TCE	1.3	01/80	ND	03/98					
			NO3	26.9	03/98	26.9	03/98					
			CLO4	18.6	03/98	18.6	03/98					
VIA TRUST												
01	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA					
			NO3	NA	NA	NA	NA					
			CLO4	NA	NA	NA	NA					
VULCAN MATERIALS COMPANY (CALMAT COMPANY)												
DUR E	INDUSTRIAL	ACTIVE	TCE	32.0	11/04	ND	10/10	VULNERABLE (VOCS)				
			PCE	27.0	11/04	0.9	10/10					
			1,1-DCE	5.3	11/04	ND	10/10					
			C-1,2-DCE	2.8	11/04	ND	10/10					
			1,1,1-TCA	0.7	11/04	ND	10/10					
			CF	0.7	11/04	ND	10/10					
			MC	1.1	10/06	ND	10/10					
			NO3	16.2	10/04	7.2	10/10					
			CLO4	ND	04/98	ND	10/08					
			AS	ND	04/98	ND	04/98					
			DUR W	INDUSTRIAL	ACTIVE	PCE	0.8		02/07	ND	10/09	
						NO3	16.0		07/01	14.0	10/09	
						CLO4	4.0		05/98	4.0	05/98	
AS	2.9	05/98				2.9	05/98					
REL 1	INDUSTRIAL	ACTIVE	VOCS	ND	05/94	ND	10/10					
			NO3	6.5	09/02	ND	10/10					
			CLO4	ND	05/98	ND	05/98					
			AS	4.8	05/94	3.5	07/94					
WADE, RICHARD I.												
NA	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA					
			NO3	NA	NA	NA	NA					
			CLO4	NA	NA	NA	NA					
WEST COVINA VENTURE LIMITED												
NA	NA	INACTIVE	VOCS	NA	NA	NA	NA					
			NO3	NA	NA	NA	NA					
			CLO4	NA	NA	NA	NA					
WHITTIER, CITY OF												

**APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)**

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
				VALUE	DATE	VALUE	DATE	
09	MUNICIPAL	DESTROYED	TCE	1.4	04/85	ND	08/89	
			PCE	1.9	10/88	0.6	08/89	
			NO3	8.8	08/89	8.8	08/89	
			CLO4	NA	NA	NA	NA	
			AS	ND	07/74	ND	08/89	
10	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
			NO3	6.6	01/74	6.6	01/74	
			CLO4	NA	NA	NA	NA	
11	MUNICIPAL	DESTROYED	VOCS	ND	06/87	ND	11/90	
			NO3	10.1	01/90	10.1	01/90	
			CLO4	NA	NA	NA	NA	
			AS	ND	04/80	ND	08/89	
12	MUNICIPAL	INACTIVE	TCE	1.5	07/88	1.5	07/88	
			PCE	0.7	07/88	0.7	07/88	
			NO3	10.0	12/84	8.5	12/85	
			CLO4	NA	NA	NA	NA	
13	MUNICIPAL	ACTIVE	PCE	4.9	11/87	ND	03/15	VULNERABLE (VOCS) (3)
			TCE	1.1	06/87	ND	03/15	
			MTBE	6.4	03/02	ND	03/15	
			NO3	17.0	03/11	11.0	05/15	
			CLO4	ND	08/97	ND	09/14	
			AS	4.1	03/02	ND	03/14	
			CR6	1.0	05/01	0.2	09/13	
15	MUNICIPAL	ACTIVE	PCE	9.4	03/03	ND	05/15	VULNERABLE (VOCS) (3)
			TCE	0.7	09/04	ND	05/15	
			C-1,2-DCE	2.5	12/93	ND	03/15	
			NO3	13.0	08/89	6.0	09/14	
			CLO4	ND	08/97	ND	09/14	
			AS	3.5	03/02	ND	09/10	
			CR6	2.2	10/00	0.4	09/13	
16	MUNICIPAL	ACTIVE	PCE	3.4	12/02	0.92	05/15	VULNERABLE (VOCS) (3)
			TCE	1.4	01/97	ND	05/15	
			C-1,2-DCE	2.5	10/96	ND	03/15	
			NO3	11.0	03/11	6.0	03/15	
			CLO4	ND	08/97	ND	09/14	
			AS	5.8	03/02	ND	03/14	
			CR6	2.5	05/01	1.6	09/13	
17	MUNICIPAL	INACTIVE	PCE	12.0	12/02	3.3	09/08	
			TCE	2.2	05/92	0.5	09/08	
			C-1,2-DCE	1.2	04/95	ND	09/08	
			NO3	13.0	03/03	9.1	03/08	
			CLO4	ND	08/97	ND	09/08	
			AS	3.4	03/02	ND	03/06	
			CR6	1.6	10/00	1.6	05/01	
18	MUNICIPAL	ACTIVE	PCE	9.2	09/08	3.4	05/15	VULNERABLE (VOCS AND NO3)
			TCE	2.4	11/95	0.8	05/15	
			C-1,2-DCE	0.7	10/96	ND	03/15	
			NO3	14.7	03/05	11.0	03/15	
			CLO4	ND	08/97	ND	09/14	
			AS	4.1	03/02	ND	03/15	
			CR6	1.0	10/00	0.8	09/13	
WILMOTT, ERMA M.								
01	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
WOODLAND, RICHARD								
01	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	
02	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
			NO3	NA	NA	NA	NA	
			CLO4	NA	NA	NA	NA	

APPENDIX C
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AND WELLS VULNERABLE TO CONTAMINATION (AS OF MAY 31, 2015)

WELL NAME	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						REMARKS
			CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT			
				VALUE	DATE	VALUE	DATE		
WORKMAN MILL INVESTMENT COMPANY (ROSE HILLS MEMORIAL PARK)									
04	IRRIGATION	ACTIVE	PCE	5.3	08/87	ND	10/09	VULNERABLE (VOCS AND NO3)	
			TCE	11.0	04/85	ND	10/09		
			1,1-DCE	14.0	04/85	ND	10/09		
			1,1,1-TCA	3.3	04/85	ND	10/09		
			NO3	52.8	02/07	43.0	10/10		
			CLO4	ND	06/98	ND	06/98		
01	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA		
			NO3	NA	NA	NA	NA		
			CLO4	NA	NA	NA	NA		
02	IRRIGATION	INACTIVE	PCE	8.6	04/85	ND	10/04		
			TCE	11.0	04/85	ND	10/04		
			NO3	91.4	10/04	91.4	10/04		
			CLO4	ND	06/98	ND	06/98		
01	IRRIGATION	INACTIVE	TCE	6.1	04/87	ND	10/10		
			PCE	6.4	11/87	1.1	10/10		
			1,2-DCA	0.8	01/96	ND	10/10		
			1,1-DCE	1.0	04/87	ND	10/10		
			C-1,2-DCE	2.6	05/85	ND	10/10		
			NO3	45.2	02/98	31.0	10/10		
			CLO4	ND	02/98	ND	02/98		
			AS	3.0	06/95	2.1	06/96		
03	IRRIGATION	ACTIVE	TCE	21.0	05/85	ND	09/05	VULNERABLE (VOCS AND NO3)	
			PCE	7.4	05/85	ND	09/05		
			1,1-DCE	2.7	05/85	ND	09/05		
			C-1,2-DCE	28.0	05/85	ND	09/05		
			1,1-DCA	1.1	05/85	ND	09/05		
			1,1,1-TCA	7.5	05/85	ND	09/05		
			NO3	46.4	08/00	25.7	09/05		
			CLO4	ND	02/98	ND	02/98		

NOTES	CONTAMINANT	MAXIMUM CONTAMINANT LEVEL	REPORTING LIMIT	REMARKS
	1,1-Dichloroethane (1,1-DCA)	5 micrograms per liter (ug/L)	0.5 ug/L	(1) Existing VOC treatment
	1,1-Dichloroethylene (1,1-DCE)	6 ug/L	0.5 ug/L	(2) VOC treatment under construction
	1,1,1-Trichloroethane (1,1,1-TCA)	200 ug/L	0.5 ug/L	(3) VOC treatment proposed
	1,1,1,2-Tetrachloroethane (1,1,1,2-PCA)	1 ug/L	0.5 ug/L	(4) Existing CLO4 treatment
	1,2-Dichloroethane (1,2-DCA)	0.5 ug/L	0.5 ug/L	(5) CLO4 treatment proposed
	Arsenic (AS)	10 ug/L	2.0 ug/L	
	Bromodichloromethane	80 ug/L	0.5 ug/L	NA Not Available
	Bromoform (BF)	80 ug/L	0.5 ug/L	ND Not Detected above Reporting Limit
	Chloroform (CF)	80 ug/L	0.5 ug/L	NL Notification Level
	Perchlorate (CLO4)	6 ug/L	4.0 ug/L	VOCS Volatile Organic Compounds
	Carbon Tetrachloride (CTC)	0.5 ug/L	0.5 ug/L	
	Cis-1,2-Dichloroethylene (c-1,2-DCE)	6 ug/L	0.5 ug/L	
	Hexavalent Chromium (CR6)	10 ug/L	1.0 ug/L	
	Dibromochloromethane	80 ug/L	0.5 ug/L	
	Ethylbenzene	300 ug/L	0.5 ug/L	
	Trichlorofluoromethane (Freon 11)	150 ug/L	5.0 ug/L	
	Trichlorotrifluoroethane (Freon 113)	1200 ug/L	10.0 ug/L	
	Methylene Chloride (MC)	5 ug/L	0.5 ug/L	
	Methyl Tert-Butyl Ether (MTBE)	13 ug/L	3.0 ug/L	
	Nitrate as Nitrate (NO3)	45 milligrams per liter (mg/L)	2.0 mg/L	
	1,2-Dichlorobenzene (1,2-DCB)	600 ug/L	0.5 ug/L	
	1,4-Dichlorobenzene (1,4-DCB)	5 ug/L	0.5 ug/L	
	Tetrachloroethylene (PCE)	5 ug/L	0.5 ug/L	
	Trichloroethylene (TCE)	5 ug/L	0.5 ug/L	
	Trans-1,2-Dichloroethylene (t-1,2-DCE)	10 ug/L	0.5 ug/L	
	Vinyl Chloride (VC)	0.5 ug/L	0.5 ug/L	

APPENDIX D.
POTENTIAL SITES FOR
AQUIFER PERFORMANCE TESTS

APPENDIX D

POTENTIAL SITES FOR AQUIFER PERFORMANCE TESTS

NAME	RECORD.	USAGE	STATUS	PERF. (1)	FUNCTION	REMARKS
ALHAMBRA, CITY OF						
LON 1	1902789	MUNICIPAL	ACTIVE	411-800	MONITORING	
LON 2	1900017	MUNICIPAL	ACTIVE	296-563	PUMPING	
AZUSA, CITY OF						
NO. 12	8000179	MUNICIPAL	ACTIVE	206-311	PUMPING	
NO. 11	8000178	MUNICIPAL	ACTIVE	200-320	MONITORING	
CALIFORNIA AMERICAN WATER COMPANY/DUARTE						
B V	1900035	MUNICIPAL	ACTIVE	300-580	PUMPING	
B V 2	8000216	MUNICIPAL	ACTIVE	300-700	MONITORING	
CALIFORNIA DOMESTIC WATER COMPANY						
05A	8000100	MUNICIPAL	ACTIVE	?-920	PUMPING	
06	1902967	MUNICIPAL	ACTIVE	200-800	MONITORING	
CHAMPION MUTUAL WATER COMPANY						
01	1900908	MUNICIPAL	INACTIVE	100-130	MONITORING	
02	1902816	MUNICIPAL	ACTIVE	152-265	PUMPING	
03	8000121	MUNICIPAL	ACTIVE	107-299	MONITORING	
GLENDORA, CITY OF						
05-E	8000149	MUNICIPAL	ACTIVE	150-400	PUMPING	
NA	1903119	INDUSTRIAL	INACTIVE	?-220	MONITORING	OWL ROCK PRODUCTS WELL
GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN DIMAS DISTRICT						
COL-4	1902268	MUNICIPAL	INACTIVE	122-190	PUMPING	
COL-6	1902270	MUNICIPAL	INACTIVE	?-414	MONITORING	
GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN GABRIEL VALLEY DISTRICT						
FAR 1	1902034	MUNICIPAL	ACTIVE	274-455	PUMPING	
FAR 2	1902948	MUNICIPAL	ACTIVE	229-600	MONITORING	
SG 1	1900510	MUNICIPAL	ACTIVE	190-411	MONITORING	
SG 2	1900511	MUNICIPAL	ACTIVE	209-393	PUMPING	
RURBAN HOMES MUTUAL WATER COMPANY						
NORTH 1	1900120	MUNICIPAL	ACTIVE	140-190	MONITORING	
SOUTH 2	1900121	MUNICIPAL	ACTIVE	125-165	PUMPING	
SAN GABRIEL COUNTY WATER DISTRICT						
05 BRA	1901669	MUNICIPAL	INACTIVE	450-800	MONITORING	
11	8000067	MUNICIPAL	ACTIVE	350-800	PUMPING	
12	8000123	MUNICIPAL	ACTIVE	470-1320	MONITORING	
SAN GABRIEL VALLEY WATER COMPANY						
B24A	8000203	MUNICIPAL	ACTIVE	600-1150	PUMPING	
B24B	8000204	MUNICIPAL	ACTIVE	600-1150	MONITORING	

APPENDIX D

POTENTIAL SITES FOR AQUIFER PERFORMANCE TESTS

NAME	RECORD.	USAGE	STATUS	PERF. (1)	FUNCTION	REMARKS
SUBURBAN WATER SYSTEMS						
201W-9	8000208	MUNICIPAL	ACTIVE	260-650	PUMPING	
201W-7	8000195	MUNICIPAL	ACTIVE	200-650	MONITORING	
201W-8	8000198	MUNICIPAL	ACTIVE	200-650	MONITORING	
201W-10	8000210	MUNICIPAL	ACTIVE	NA	MONITORING	
VALLEY COUNTY WATER DISTRICT						
E NIXON (JOANBRIDGE)	1900032	MUNICIPAL	ACTIVE	300-586	MONITORING	ALTERNATE FOR MAINE SITE
W NIXON (JOANBRIDGE)	1902356	MUNICIPAL	ACTIVE	300-584	PUMPING	
E MAINE	1900027	MUNICIPAL	ACTIVE	250-580	PUMPING	ALTERNATE FOR NIXON SITE
W MAINE	1900028	MUNICIPAL	ACTIVE	250-580	MONITORING	
VALLEY VIEW MUTUAL WATER COMPANY						
01	1900363	MUNICIPAL	ACTIVE	300-585	MONITORING	
02	1900364	MUNICIPAL	ACTIVE	300-535	PUMPING	
03	1900365	MUNICIPAL	INACTIVE	100-200	MONITORING	
VULCAN MATERIALS COMPANY (CALMAT COMPANY)						
DUR E	1902920	INDUSTRIAL	ACTIVE	238-484	PUMPING	
DUR W	8000063	INDUSTRIAL	ACTIVE	?-525	MONITORING	
WORKMAN MILL INVESTMENT COMPANY (ROSE HILLS MEMORIAL PARK)						
01	1900094	IRRIGATION	INACTIVE	137-264	PUMPING	
ROSE HILLS	8000004	MUNICIPAL	INACTIVE	?-200	MONITORING	BEVERLY ACRES MWC

NOTES

NA: NOT AVAILABLE

RECORD.: RECORDATION NUMBER

PERF.: PERFORATION INTERVAL

(1) TOP OF THE TOP INTERVAL - BOTTOM OF THE BOTTOM INTERVAL (DEPTH BELOW GROUND SURFACE IN FEET)

APPENDIX E.

SUMMARY OF TREATMENT FACILITY ACTIVITY IN THE MAIN SAN GABRIEL BASIN

APPENDIX E

**SUMMARY OF TREATMENT FACILITY ACTIVITY
IN THE MAIN SAN GABRIEL BASIN
AS OF JUNE 30, 2015**

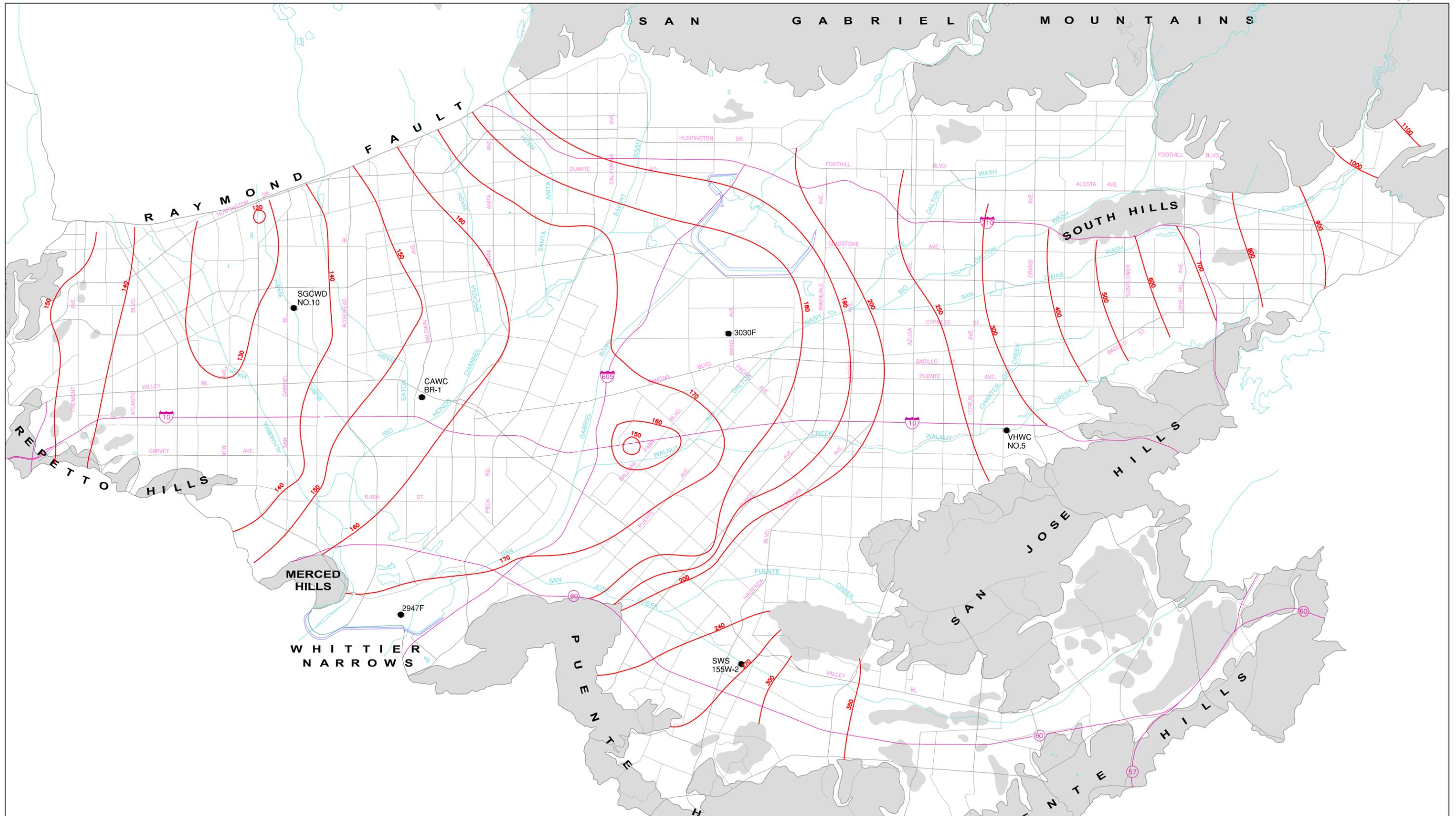
Operable Unit	Treatment Facility Owner	Treatment Facility(s)	Start Date 1/	Total Water Treated		Total Contaminants Removed	
				Fiscal Year 2013-14 (Acre-feet)	Accum. Total (Acre-feet)	Fiscal Year 2013-14 (Pounds)	Accum. Total (Pounds)
AREA 3	ALHAMBRA, CITY OF	Well No. 7	July 2001	—	7,582.35	—	130.1
		Well No. 7, 8, 11 & 12	April 2009	2,464.00	22,280.80	105.1	711.4
BPOU	LA PUENTE VALLEY COUNTY WATER DISTRICT	Well No. 2, 3 & 4	August 1992	—	11,493.13	—	826.9
		Well No. 2, 3 & 5 (BPOU)	January 2000	3,262.23	49,536.43	332.8	10,268.5
	SAN GABRIEL VALLEY WATER COMPANY	Well B6C	April 1994	—	5,194.17	—	856.2
		Well B6D	April 1994	—	14,526.27	—	421.7
		Plant B5 (BPOU)	January 2007	9,702.41	86,482.83	391.9	3,662.4
		Plant B6 (BPOU)	September 2004	9,645.67	81,463.99	1433.7	16,774.7
	VALLEY COUNTY WATER DISTRICT	Lante	June 1984	—	7,719.61	—	10,356.7
		Lante, SA1-1 & SA1-2 (BPOU)	December 2004	4,408.36	62,470.56	508.2	39,643.6
EMOU	ADAMS RANCH MUTUAL WATER COMPANY	Well No. 3	November 2003	55.59	844.37	3.4	30.3
	HERMETIC SEAL CORPORATION	Hermetic Seal	May 2012	50.31	205.75	4.3	18.1
	GOLDEN STATE WATER COMPANY (SGV)	Encinita No. 1, 2 & 3	April 1998	1,844.08	23,173.48	51.8	546.7
PVOU	BDP - CARRIER	Carrier	April 1988	100.16	6,600.73	7.9	2,828.9
SEMOU	MONTEREY PARK, CITY OF	Well No. 5	September 1999	1,169.44	16,677.09	97.7	1,244.7
		Well No. 9 & 12, 15	April 2002	5,157.76	61,292.54	947.8	10,078.0
	SAN GABRIEL VALLEY WATER COMPANY	Well 8B, 8C, 8D & 8E	August 2002	2,900.44	37,163.39	709.4	4,869.1
	GOLDEN STATE WATER COMPANY (SGV)	San Gabriel No.1 & 2	November 2001	2,011.97	16,262.27	32.5	505.3
WNOU	EPA	WNOU (Shallow Zone)	December 1999	—	30,065.52	—	1,618.9
	SAN GABRIEL VALLEY WATER COMPANY	WNOU (Intermediate Zone) 2/	December 2005	2,279.71	43,919.16	71.2	1,691.4
PRODUCER FACILITY	ARCADIA, CITY OF	Longden 1 & 2	January 1985	1,003.12	69,817.73	6.1	738.4
	BOZUNG	Well B36, F38, F39 & BC34 3/	October 1994	—	233.00	—	131.3
	CALIFORNIA DOMESTIC WATER COMPANY	Well No. 3, Well No. 5A, & Well No. 6	September 1993 April 1997	14,682.74	314,186.76	1228.0	13,951.2
	EL MONTE, CITY OF	Well No. 12	February 1997	0.00	15,570.96	0.0	1,000.5
		Well No. 10	May 2004	253.91	6,380.82	0.0	43.4
		Well No. 2A	July 1999	486.15	7,449.64	5.0	115.8
	EPA	Richwood (North Well) 4/ Richwood (South Well) 4/	April 1990 April 1990	—	451.98	—	5.8
	GOLDEN STATE WATER COMPANY (SD)	Art 2 & 3, Base 3 & 4, Hwy 1	May 2005	604.34	16,118.77	25.8	288.1
	HEMLOCK MUTUAL WATER COMPANY	Hemlock (North Well) 4/ Hemlock (South Well) 4/	April 1986 April 1986	—	2,553.65	—	44.6
	MONROVIA, CITY OF	Wells No. 2 & 6	March 1996	2,053.17	41,121.02	74.2	770.4
		Wells No. 3, 4 & 5	October 2007	1,681.01	13,479.09	18.5	103.9
	MONTEREY PARK, CITY OF	Well No. 1, 3, 10 & Fern	June 2004	2,577.49	24,993.68	67.7	1,621.1
	SAN GABRIEL VALLEY WATER COMPANY	Well 11B	March 1991	1,201.17	44,878.99	1.1	319.7
		Well B11B	March 1993	875.23	45,546.11	58.1	3,068.0
		Well B7C	March 1993	551.25	46,711.28	27.5	1,824.2
		Well B4B & B4C	January 1999	—	24,093.04	—	1,233.5
		Well G4A	December 2005	215.51	3,808.40	4.0	59.3
	SUBURBAN WATER SYSTEMS	Well No. 140W-4 5/	May 2001	—	2,247.59	—	16.2
	VALLEY COUNTY WATER DISTRICT	Maine East & West	June 1990	2,826.94	46,707.19	20.1	1,735.3
		Nixon East & West 5/	January 2004	4,265.31	38,031.88	41.4	229.3
	WATER QUALITY AUTHORITY	Arrow (Project No. 1) 5/	February 1992	—	7,250.41	—	17,423.0
		Big Dalton (Project No. 2)	March 1997	—	1,229.02	—	82.5
		Whitmore Street	January 2008	23.11	268.54	10.6	155.7
		SEMOU	July 1999	—	3,885.19	—	1,558.5
		TOTAL		78,352.58	1,361,969.18	6,285.7	153,603.2

Footnotes:

- 1/ From date of beginning of operation.
- 2/ Previously operated by City of Whittier from December 2005 to May 2013.
- 3/ Treatment facility has been permanently dismantled.
- 4/ Wells destroyed in June 1999.
- 5/ Wellfield no longer pumps to treatment facility.

APPENDIX F.

SIMULATED BASIN GROUNDWATER CONTOURS 2014-15 AND 2019-20 (FIGURES 16 AND 17)



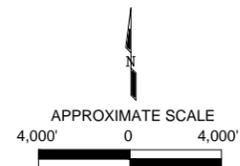
MAIN SAN GABRIEL BASIN WATERMASTER

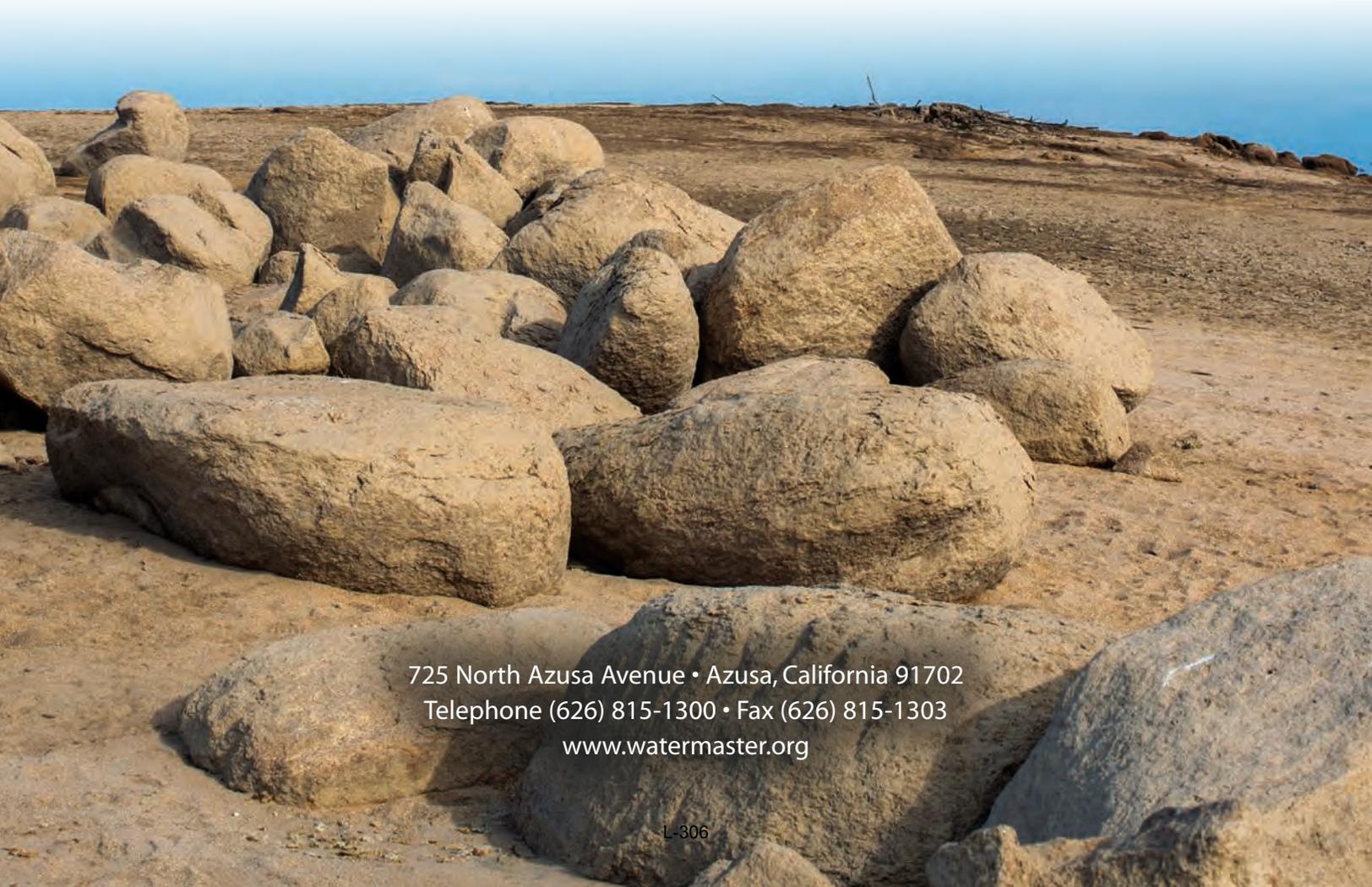
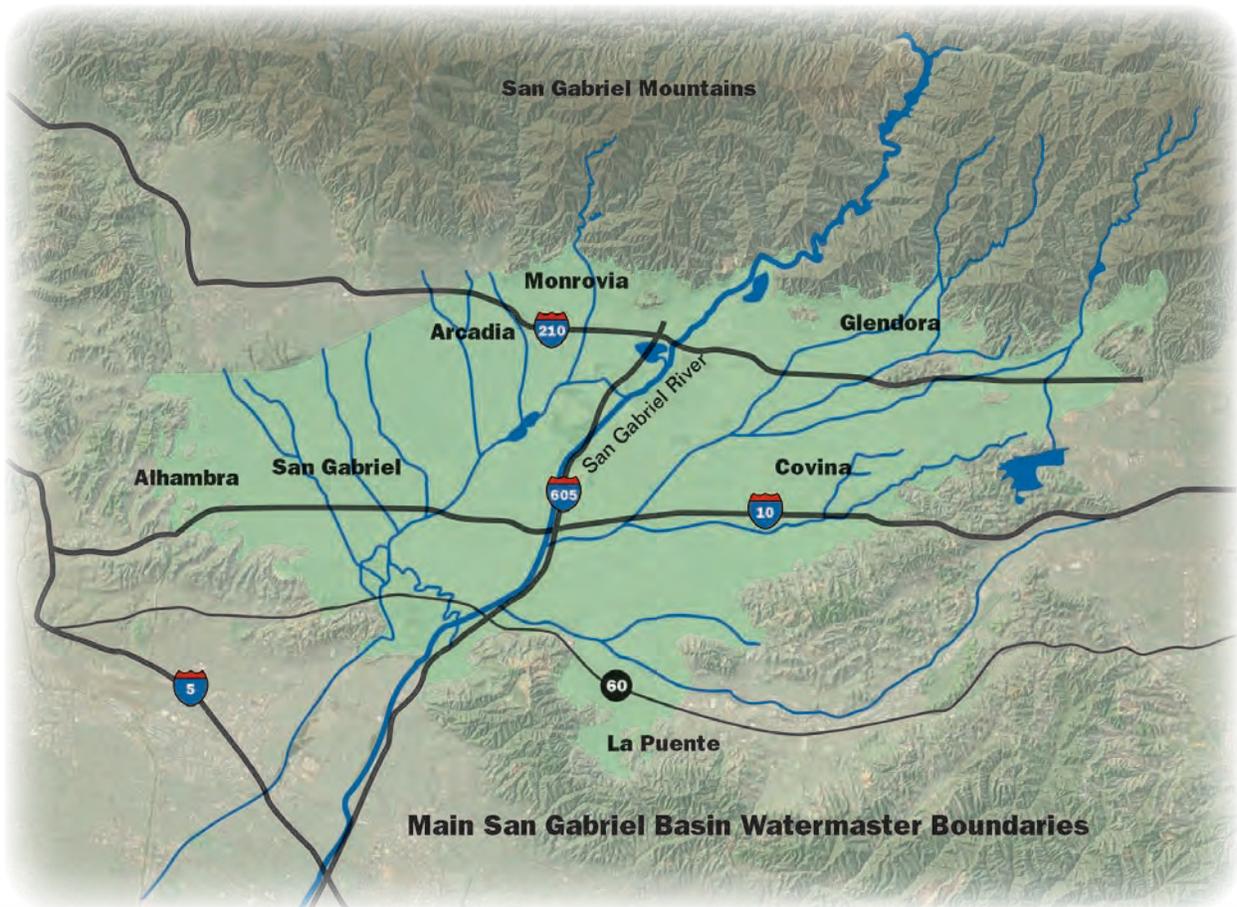
SIMULATED 2019-20 BASIN GROUNDWATER CONTOURS

861 VILLAGE OAKS DRIVE, SUITE 100
 COVINA, CALIFORNIA 91724
 TEL: (626) 967-6202
 FAX: (626) 331-7065

2171 E Francisco Blvd., Suite K
 San Rafael California 94901

2651 W Guadalupe Rd., Suite A209
 Mesa Arizona 85202





725 North Azusa Avenue • Azusa, California 91702
Telephone (626) 815-1300 • Fax (626) 815-1303
www.watermaster.org

APPENDIX C. UPPER DISTRICT SUPPLY VERIFICATION LETTER



October 24, 2016

Mr. Spencer Waterman
Water Systems Consulting, Inc.
3765 S. Higuera Street, Suite 102
San Luis Obispo, CA 93401

Board of Directors:
Anthony R. Fellow, Ph.D.,
Division 1
Charles M. Treviño,
Division 2
Ed Chavez,
Division 3
Michael Touhey,
Division 4
Bryan Urias,
Division 5

**SUBJECT: Supplemental Imported Water Provided
for Main San Gabriel Basin Groundwater Replenishment**

Dear Mr. Waterman:

Upper San Gabriel Valley Municipal Water District (Upper District) is in receipt of your email dated September 1, 2016, regarding the Water Supply Assessment (WSA) being prepared for a proposed development by the City of Hope within California American Water – Duarte’s (CAW-Duarte) service area. By comparing the projected imported water demands from Upper District contained in CAW-Duarte’s July 27, 2016 letter to Table 6-2 of your draft WSA, it appears the net increase in Replacement Water requirement is about 64 acre-feet per year as of calendar year 2035.

Upper District is identified in the Main San Gabriel Basin Judgment as a Responsible Agency for the purposes of delivering untreated imported water on behalf of water producers within Upper District’s service area, which produce local water supplies in excess of their water rights, including CAW-Duarte. Upper District is also a member of the Metropolitan Water District of Southern California (MWD). Based on historical deliveries, MWD has established a Tier 1 allocation of 67,228 acre-feet for Upper District. The projected 2035 imported water supply to Upper District during an average year is accurately presented on your Table 6-6 and totals 51,288 acre-feet. In addition, Upper District anticipates its recycled water supply will be 20,731 acre-feet, including 10,000 acre-feet for our planned groundwater replenishment project. Consequently, total supply is projected to be 72,019 acre-feet, while total demand is projected to be 62,019 acre-feet, resulting in a projected surplus of supply over demand of about 10,000 acre-feet. (This same surplus of 10,000 acre-feet is also projected to be available in multiple dry year scenarios.)

Upper District anticipates it will be able to meet the projected demand from the proposed project in CAW-Duarte’s service area now and over the next 20 years through 2035.

Mr. Spencer Waterman
October 24, 2016
Page 2

Upper District also notes that CAW-Duarte has a Cyclic Storage account with the Main San Gabriel Basin Watermaster in the amount of 2,200 acre-feet and has about 1,000 acre-feet in storage as of June 30, 2016. Maintaining water in its Cyclic Storage account provides CAW-Duarte with an added level of flexibility to address future demands requiring delivery of untreated imported water.

Please feel free to contact me should you have any questions.

Sincerely,



Shane Chapman
General Manager

APPENDIX D. RULE NO. 15

Rule No. 15
MAIN EXTENSIONS

A. General Provisions and Definitions

1. Applicability

- a. All extensions of distribution mains, from the utility's basic production and transmission system or existing distribution system, to serve new customers, except for those specifically excluded below, shall be made under the provisions of this rule unless specific authority is first obtained from the Commission to deviate there from. A main extension contract shall be executed by the utility and the applicant or applicants for the main extension before the utility commences construction work on said extensions or, if constructed by applicant or applicants, before the facilities comprising the main extension are transferred to the utility.
- b. Extensions primarily for fire hydrant, private fire protection, resale, temporary, standby, or supplemental service shall not be made under this rule.
- c. The utility may, but will not be required to, make extensions under this rule in easements or rights-of-way where final grades have not been established, or where street grades have not been brought to those established by public authority. If extensions are made when grades have not been established and there is a reasonable probability that the existing grade will be changed, the utility shall require that the applicant or applicants for the main extension deposit, at the time of execution of the main extension agreement, the estimated net cost of relocating, raising or lowering facilities upon establishment of final grades. Adjustment of any difference between the amount so deposited and the actual cost of relocating, raising or lowering facilities shall be made within ten days after the utility has ascertained such actual cost. The net deposit representing actual cost is not subject to refund. The entire deposit related to the proposed relocation, raising or lowering shall be refunded when such displacements are determined by proper authority to be not required.

2. Limitation of Expansion

- a. Whenever the outstanding advance contract balances reach 40 percent of total capital (defined, for the purpose of this rule, as proprietary capital, or capital stock and surplus, plus debt and advances for construction) the utility shall so notify the Commission within thirty days.
- b. Whenever the outstanding advance contract balances plus the advance on a proposed new extension would exceed 50 percent of total capital, as defined in Section A.2.a. plus the advance on the proposed new extension, the utility shall not make the proposed new extension of distribution mains without authorization of the Commission. Such authorization may be granted by a letter from the Executive Director of the Commission.
- c. Whenever the outstanding advance contract balances reach the above level, the utility shall so notify the Commission within thirty days.

(Continued)

(TO BE INSERTED BY UTILITY)
ADVICE LETTER NO. 949

ISSUED BY
D. P. STEPHENSON
NAME

(TO BE INSERTED BY C.P.U.C.)
DATE FILED JUN 13 2012

DECISION NO. D.12-06-016

DIRECTOR - Rates & Regulatory
TITLE

EFFECTIVE JUN 18 2012
RESOLUTION

Rule No. 15 (Continued)
MAIN EXTENSIONS

A. 3. Definitions

- a. A "bona-fide customer," for the purposes of this rule, shall be a customer (excluding any customer formerly served at the same location) who has given satisfactory evidence that service will be reasonably permanent to the property which has been improved with a building of a permanent nature, and to which service has commenced. The provision of service to a real estate developer or builder, during the construction or development period, shall not establish him as a bona-fide customer.
- b. A "real estate developer" or "builder," for the purposes of this rule, shall include any individual, association of individuals, partnership, or corporation that divides a parcel of land into two or more portions, or that engages in the construction and resale of individual structures on a continuing basis.
- c. The "adjusted construction cost," for the purposes of this rule, shall be reasonable and shall not exceed the costs recorded in conformity with generally accepted water utility accounting practices, and as specifically defined in the Uniform System of Accounts for Water Utilities prescribed by the Commission for installing facilities of adequate capacity for the service requested. If the utility, at its option, should install facilities with a larger capacity or resulting in a greater footage of extension than required for the service requested, the "adjusted construction cost," for the purpose of this rule, shall be determined by the application of an adjustment factor to actual construction cost of facilities installed. This factor shall be the ratio of estimated cost of required facilities to estimated cost of actual facilities installed.

4. Ownership, Design, and Construction of Facilities

- a. Any facilities installed hereunder shall be the sole property of the utility. In those instances in which title to certain portions of the installation, such as fire hydrants, will be held by a political subdivision, such facilities shall not be included as a part of the main extension under this rule, and will neither be owned by the utility nor subject to refund under the provisions of Section C.2. of this rule.
- b. The size, type, quality of materials, and their location shall be specified by the utility; and the actual construction shall be done by the utility or by a constructing agency acceptable to it.
- c. Where the property of an applicant is located adjacent to a right-of-way, exceeding 70 feet in width, for a street, highway, or other public purpose, regardless of the width of the traveled way or pavement; or on a freeway, waterway, or railroad right of way, the utility may elect to install a main extension on the same side thereof as the property of the applicant, and the estimated, and the adjusted construction costs in such case shall be based upon such an extension.

(Continued)

(TO BE INSERTED BY UTILITY)
ADVICE LETTER NO. 949

ISSUED BY
D. P. STEPHENSON
NAME

(TO BE INSERTED BY C.P.U.C.)
DATE FILED JUN 13 2012
EFFECTIVE JUN 18 2012
RESOLUTION

DECISION NO. D.12-06-016

DIRECTOR - Rates & Regulatory
TITLE

Rule No. 15 (Continued)
MAIN EXTENSIONS

A. 4. Ownership, Design, and Construction of Facilities (continued)

d. When an extension must comply with an ordinance, regulation, or specification of a public authority, the estimated and adjusted construction costs of said extension shall be based upon the facilities required to comply therewith.

e. If the following provisions for water conservation are included in local building codes and/or ordinances, the main extension contract shall contain these provisions.

(1) All interior plumbing in new buildings shall meet the following requirements:

(a) Toilets shall not use more than 3-1/2 gallons per flush, except that toilets and urinals with flush valves may be installed.

(b) Shower heads shall contain flow controls which restrict flow to a maximum of approximately 3 gallons per minute.

(c) Kitchen and lavatory faucets shall have flow controls which restrict flow to a maximum of approximately 2 gallons per minute.

(2) All new parks, median strips, landscaped public areas and landscaped areas surrounding condominiums, townhouses, apartments and industrial parks shall have a well-balanced automatic irrigation system designed by a landscape architect or other competent person, and shall be operated by electric time controller stations set for early morning irrigation.

5. Estimates, Plans, and Specifications

a. Upon request by a potential applicant for a main extension of 100 feet or less, the utility shall prepare, without charge, an installation to be advanced by said applicant.

b. Any applicant for a main extension requesting the utility to prepare detailed plans, specification, and cost estimates shall be required to deposit with the utility an amount equal to the estimated cost of preparation of such material. The utility shall, upon request, make available within 45 days after receipt of the deposit referred to above, such plans, specifications, and cost estimates of the proposed main extension. If the extension is to include over sizing of facilities to be done at the utility's expense, appropriate details shall be set forth in the plans, specifications, and cost estimates.

c. In the event a main extension contract with the utility is executed within 180 days after the utility furnishes the detailed plans and specifications, the deposit shall become a part of the advance, and shall be refunded in accordance with the terms of the main extension contract. If such contract is not so executed, the deposit to cover the cost of preparing plans, specifications, and cost estimates, shall be forfeited by the applicant for the main extension and the amount of the forfeited deposit shall be credited to the account or accounts to which the expense of preparing said material was charged.

(Continued)

(TO BE INSERTED BY UTILITY)
ADVICE LETTER NO. 949

ISSUED BY
D. P. STEPHENSON
NAME

(TO BE INSERTED BY C.P.U.C.)
DATE FILED JUN 13 2012
EFFECTIVE JUN 18 2012

DECISION NO. D.12-06-016

DIRECTOR - Rates & Regulatory
TITLE

RESOLUTION

Rule No. 15 (Continued)
MAIN EXTENSIONS

A. 5. Estimates, Plans, and Specifications (continued)

d. When detailed plans, specifications, and cost estimates are requested, the applicant for a main extension shall furnish a map to a suitable scale showing the street and lot layouts and, when requested by the utility, contours or other indication of the relative elevation of the various parts of the area to be developed. If changes are made subsequent to the presentation of this map by the applicant, and these changes require additional expense in revising plans, specifications, and cost estimates, this additional expense shall be borne by the applicant, not subject to refund, and the additional expense thus recovered shall be credited to the account or accounts to which the additional expense was charged.

6. Timing and Adjustment of Advances

a. Unless the applicant for the main extension elects to arrange for the installation of the extension himself, as permitted by Section C.1.c., the full amount of the required advance or an acceptable surety bond must be provided to the utility at the time of the main extension agreement.

b. If the applicant for a main extension posts a surety bond in lieu of cash, such surety bond must be replaced with cash not less than ten calendar days before construction is to commence; provided, however, that if special facilities are required primarily for the service requested, the applicant for the extension may be required to deposit sufficient cash to cover the cost of such special facilities before they are ordered by the utility.

c. An applicant for a main extension who advances funds shall be provided with a statement of actual construction cost and adjusted construction cost showing in reasonable detail the costs incurred for material, labor, any other direct and indirect costs, overheads, and total costs; or unit costs; or contract costs, whichever are appropriate.

d. Said statement shall be submitted within sixty days after the actual construction costs of the installation have been ascertained by the utility. In the event that the actual construction costs of the entire installation shall not have been determined within 120 days after completion of construction work, a preliminary determination of actual and adjusted construction costs shall be submitted, based upon the best available information at that time.

e. Any differences between the adjusted construction costs and the amount advanced shall be shown as a revision of the amount of advance and shall be payable within thirty days of date of submission of statement.

(Continued)

(TO BE INSERTED BY UTILITY)

ADVICE LETTER NO. 949

ISSUED BY

D. P. STEPHENSON

NAME

(TO BE INSERTED BY C.P.U.C.)

DATE FILED JUN 13 2012

EFFECTIVE JUN 18 2012

DECISION NO. D.12-06-016

DIRECTOR - Rates & Regulatory

TITLE

RESOLUTION

Rule No. 15 (Continued)
MAIN EXTENSIONS

A. 7. Assignment of Main Extension Contracts

Any contract entered into under Sections B and C of this rule, or under similar provisions of former rules, may be assigned, after settlement of adjusted construction costs, after written notice to the utility by the holder of said contract as shown by the utility's records. Such assignment shall apply only to those refunds which become due more than thirty days after the date of receipt by the utility of the notice of assignment. The utility shall not be required to make any one refund payment under such contract to more than a single assignee.

8. Interpretations and Deviations

In case of disagreement or dispute regarding the application of any provision of this rule, or in circumstances where the application of this rule appears unreasonable to either party, the utility, applicant or applicants may refer the matter to the Commission for determination.

B. Extensions to Serve Individuals

1. Payment

Extensions of water mains to serve new individual customers shall be paid for and contributed to the utility by the individual customer requesting the main extension. Calculation of payment shall be on the basis of a main not in excess of 6" in diameter, except where a larger main is required by the special needs of the new customer. The utility shall be responsible for installing and paying for service pipes, meter boxes, and meters to serve a new individual customer; provided, however, a Class C or Class D utility, or a Class A or Class B utility district or subsidiary serving 2,000 or fewer connections, may accept from individual customers amounts in contribution as a connection fee calculated pursuant to the Commission's Connection Fee Data Form contained in the utility's tariffs.

2. Refunds

If subsequent applications for water service are connected directly to the main extension contributed by the original individual customer, such subsequent applicants shall pay to the utility an amount equal to the cost of 100 feet of the original extension. Such amounts shall be immediately refunded by the utility to the initial customer who originally paid for and contributed the main extension to the utility. Total payments to the initial customer by subsequent applicants for water service who are connected directly to the extension shall not exceed the original cost of the extension. No refunds shall be made after a period of ten years from completion of the main extension.

(Continued)

(TO BE INSERTED BY UTILITY)
ADVICE LETTER NO. 949

ISSUED BY
D. P. STEPHENSON
NAME

(TO BE INSERTED BY C.P.U.C.)
DATE FILED JUN 13 2012
EFFECTIVE JUN 18 2012
RESOLUTION

DECISION NO. D.12-06-016

DIRECTOR - Rates & Regulatory
TITLE

Rule No. 15 (Continued)
MAIN EXTENSIONS

C. Extensions to Serve Subdivisions, Tracts, Housing Projects, Industrial Developments, Commercial Buildings, or Shopping Centers

1. Advances

- a. Unless the procedure outlined in Section C.1.c., is followed, an applicant for a main extension to serve a new subdivision, tract, housing project, industrial development, commercial building, or shopping center shall be required to advance to the utility, before construction is commenced, the estimated reasonable cost of the extension to be actually installed, from the nearest utility facility at least equal in size or capacity to the main required to serve both the new customers and a reasonable estimate of the potential customers who might be served directly from the main extension. The costs of the extension shall include necessary service stubs or service pipes, fittings, gates and housing there for, and meter boxes, but shall not include meters. To this shall be added the cost of fire hydrants when requested by the applicant for the main extension or required by public authority, whenever such hydrants are to become the property of the utility.
- b. If special facilities consisting of items not covered by Section C.1.a. are required for the service requested and, when such facilities to be installed will supply both the main extension and other parts of the utility's system, at least 50 percent of the design capacity (in gallons, gpm, or other appropriate units) is required to supply the main extension, the cost of such special facilities may be included in the advance, subject to refund, as hereinafter provided, along with refunds of the advance of the cost of the extension facilities described in Section C.1.a. above, except as specified in Section C.1.e.
- c. In lieu of providing the advances in accordance with Sections C.1.a. and C.1.b., the applicant for a main extension shall be permitted, if qualified in the judgment of the utility, to construct and install the facilities himself, or arrange for their installation pursuant to competitive bidding procedures initiated by him and limited to the qualified bidders. The cost, including the cost of inspection and supervision by the utility, shall be paid directly by applicant. The applicant shall provide the utility with a statement of actual construction cost in reasonable detail. The amount to be treated as an advance subject to refund shall be the lesser of (1) the actual cost, or (2) the price quoted in the utility's detailed cost estimate. The installation shall be in accordance with the plans and specifications submitted by the utility pursuant to Section A.5.b.
- d. If, in the opinion of the utility it appears that a proposed main extension will not, within a reasonable period, develop sufficient revenue to make the extension self-supporting, or if for some other reason it appears to the utility that a main extension contract would place an excessive burden on customers, the utility may require nonrefundable contributions of plant facilities from developers in lieu of a main extension contract.

If an applicant for a main extension contract who is asked to contribute the facilities believes such request to be unreasonable, such applicant may refer the matter to the Commission for determination, as provide for in Section A. 8. of this rule.

(Continued)

(TO BE INSERTED BY UTILITY)
ADVICE LETTER NO. 949

ISSUED BY
D. P. STEPHENSON
NAME

(TO BE INSERTED BY C.P.U.C.)
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DECISION NO. D.12-06-016

DIRECTOR - Rates & Regulatory
TITLE

Rule No. 15 (Continued)
MAIN EXTENSIONS
(Continued)

C. Extensions to Serve Subdivisions, Tracts, Housing Projects, Industrial Developments, Commercial Buildings, or Shopping Centers

1. Advances

e. A special facilities fee for water supply will be contributed in lieu of any domestic water supply requirement covered under Section C. 1.b in some areas of the West Placer County service area. The special facilities area and fees applicable are shown below.

(N)

West Placer Service Area:

Year	Fee per EDU	Year	Fee per EDU
2014	\$5,354	2021	\$7,534
2015	\$5,622	2022	\$7,910
2016	\$5,903	2023	\$8,306
2017	\$6,198	2024	\$8,721
2018	\$6,508	2025	\$9,157
2019	\$6,833	2026	\$9,615
2020	\$7,175	2027	\$10,096

The West Placer facilities fee area is that portion of land in general to the area bordered by Baseline Road to the north, the Placer County line (just south of PFE Road) to the south, Walerga Road to the west, and Foothills Boulevard/Brady Road to the east. Also included is the initial planned development of Riolo Vineyards (107 EDU's) which immediately "fronts" the west side of Walerga Road, generally between the entrance to Dry Creek Park (to the north) and PFE Road (to the south). This service area excludes almost all parcels generally located west of Walerga Road (namely Placer Vineyards, located within Parcel E1) and the majority of Riolo Vineyards. The service area is more specifically identified on the West Placer Service Area Tariff Map.

Residential Fire Sprinkler System (RFSS) metered service:

Any customer located within the West Placer service area of the Sacramento District that is required or is requesting a Residential Fire Sprinkler System (RFSS) to be installed in accordance with either local fire or building codes shall have their meter factor modified. The facility fee to be paid by the customer is based on their RFSS that will be verified by the company that the proper Meter Equivalency Factor is applied.

Meter Equivalency Factor per EDU	
For 5/8 x 3/4-inch residential to 1-inch residential metered fire sprinkler	1
For 5/8 x 3/4-inch residential to 1 1/2-inch residential metered fire sprinkler	1
For 5/8 x 3/4-inch residential to 2-inch residential metered fire sprinkler	1
For 3/4-inch residential to 1-inch residential metered fire sprinkler	1.5
For 3/4-inch residential to 1 1/2-inch residential metered fire sprinkler	1.5
For 3/4-inch residential to 2-inch residential metered fire sprinkler	1.5
For 1-inch residential to 1 1/2-inch residential metered fire sprinkler	2.5
For 1-inch residential to 2-inch residential metered fire sprinkler	2.5
For 1 1/2-inch residential to 2-inch residential metered fire sprinkler	5

(N)

(Continued)

(TO BE INSERTED BY UTILITY)
ADVICE LETTER NO. 1018

ISSUED BY
D. P. STEPHENSON
NAME

(TO BE INSERTED BY C.P.U.C.)
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Rule No. 15 (Continued)
MAIN EXTENSIONS

C. Extensions to Serve Subdivisions, Tracts, Housing Projects, Industrial Developments, Commercial Buildings, or Shopping Centers

1. Advances (continued)

- f. A special facilities fee for water supply will be contributed in lieu of any domestic water supply requirement covered under Section C. 1.b in the Rosemont service area. The special facilities area and fees applicable are shown below.

Area: Jackson Well

Facilities Fee: Based on Meter Size

This fee is determined by Meter Size and is applicable to all subdivisions, tracts, housing projects, industrial developments, commercial buildings, or shopping centers requiring a main extension within the area described below. The following Table lists the Special Facility Fee per Meter Size.:

<u>Meter Size:</u>	<u>Special Facility Fee:</u>	<u>Meter Size:</u>	<u>Special Facility Fee:</u>
5/8 x 3/4 - inch	\$ 1,795.27	6 - inch	\$ 89,763.26
3/4 - inch	2,692.90	8 - inch	143,621.22
1 - inch	4,488.16	10 - inch	206,455.50
1 1/2 - inch	8,976.33	12 - inch	296,218.76
2 - inch	14,362.12		
3 - inch	26,928.98		
4 - inch	44,881.63		

The Suburban water system and the Rosemont water system are contiguous systems located south of the American River, east of the City of Sacramento, west of Mather Air Force Base, and north of Jackson Highway. A portion of the City of Rancho Cordova comprises most of the Suburban system to the east of Bradshaw Road. The location of the Suburban and Rosemont systems are more specifically identified on the Suburban/Rosemont Service Area Tariff Map

(Continued)

(TO BE INSERTED BY UTILITY)
 ADVICE LETTER NO. 949
 DECISION NO. D.12-06-016

ISSUED BY
 D. P. STEPHENSON
NAME
 DIRECTOR - Rates & Regulatory
TITLE

(TO BE INSERTED BY C.P.U.C.)
 DATE FILED JUN 13 2012
 EFFECTIVE JUN 18 2012
 RESOLUTION

Rule No. 15 (Continued)
MAIN EXTENSIONS

C. Extensions to Serve Subdivisions, Tracts, Housing Projects, Industrial Developments, Commercial Buildings, or Shopping Centers

1. Advances (continued)

f. (Continued)

Residential Fire Sprinkler System (RFSS) metered service:

Any customer in the Jackson Well Facilities Fee area located within the Rosemont service area of the Sacramento District that is required or is requesting a Residential Fire Sprinkler System (RFSS) to be installed in accordance with either local fire or building codes shall have their Special Facility Fee based on meter size modified. The special facility fee to be paid by the customer is based on their RFSS that will be verified by the company that the proper Special Facility Fee based on Meter Rate Equivalency is applied.

Meter Rate Equivalency

For 5/8 x 3/4-inch residential to 1-inch residential metered fire sprinkler ...	\$1,795.27
For 5/8 x 3/4-inch residential to 1 1/2-inch residential metered fire sprinkler	1,795.27
For 5/8 x 3/4-inch residential to 2-inch residential metered fire sprinkler	1,795.27
For 3/4-inch residential to 1-inch residential metered fire sprinkler	2,692.90
For 3/4-inch residential to 1 1/2-inch residential metered fire sprinkler	2,692.90
For 3/4-inch residential to 2-inch residential metered fire sprinkler	2,692.90
For 1-inch residential to 1 1/2-inch residential metered fire sprinkler	4,488.16
For 1-inch residential to 2-inch residential metered fire sprinkler	4,488.16
For 1 1/2-inch residential to 2-inch residential metered fire sprinkler	8,976.33

(Continued)

(TO BE INSERTED BY UTILITY)
 ADVICE LETTER NO. 949

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DECISION NO. D.12-06-016

DIRECTOR - Rates & Regulatory
TITLE

Rule No. 15 (Continued)
MAIN EXTENSIONS

C. 2. Refunds

- a. The amount advanced under Sections C.1.a., C.1.b., and C.1.c. shall be subject to refund by the utility, in cash, without interest, to the party or parties entitled thereto as set forth in the following two paragraphs. The total amount so refunded shall not exceed the total of the amount advanced and for a period not to exceed 40 years after the date of the contract.
- b. Payment of refunds shall be made not later than June 30 of each year, beginning the year following execution of contract, or not later than 6 months after the contract anniversary date if on an anniversary date basis.
- c. Whenever costs of main extensions and/or special facilities have been advanced pursuant to Section C.1.a., C.1.b., or C.1.c., the utility shall annually refund to the contract holders an amount equal to 2-1/2 percent of the advances until the principal amounts of the contracts have been fully repaid.

Whenever costs of special facilities have been advanced pursuant to Sections C.1.b., or C.1.c., the amount so advanced shall be divided by the number of lots (or living units, whichever is greater) which the special facilities are designed to serve, to obtain an average advance per lot (or living unit) for special facilities. When another builder applies for a main extension to serve any lots for which the special facilities are to be used, the new applicant shall, in addition to the costs of his proposed main extension, also advance an amount for special facilities. This amount shall be the average advance per lot for special facilities for each lot to be used less 2-1/2 percent of the average advance for each year in which refunds have been due and payable on the original contract anniversary date on a monthly basis.

The amount advanced to the utility by the new applicant shall be immediately refunded to the holder of the original contract, which included the cost of the special facilities, and the original contract advance will be reduced accordingly. The utility will thenceforth refund 2-1/2 percent annually on each of the contract amounts, as determined above, to the holders of the contracts.

Advances and refunds based on additional builder participation will be determined in a similar manner.

In no case shall the refund on any contract exceed the amount advanced.

(Continued)

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ADVICE LETTER NO. 949

ISSUED BY
D. P. STEPHENSON
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(TO BE INSERTED BY C.P.U.C.)
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DECISION NO. D.12-06-016

DIRECTOR - Rates & Regulatory
TITLE

Rule No. 15 (Continued)
MAIN EXTENSIONS

C. 3. Termination of Main Extension Contracts

- a. Any contract whose refunds are based on a percentage of the amount advanced may be purchased by the utility and terminated provided that the terms are mutually agreed to by the parties or their assignees and Section C.3.c. and Section C.3.d. are complied with. The maximum price that may be paid by the utility to terminate a contract shall be calculated by multiplying the remaining unrefunded contract balance times the appropriate termination factor set out below. No contract that has been in effect for less than 10 years shall be terminated without prior Commission approval.

TERMINATION FACTORS

Years Remaining	Factor						
1	0.8929	11	0.5398	21	0.3601	31	0.2608
2	0.8450	12	0.5162	22	0.3475	32	0.2535
3	0.8006	13	0.4941	23	0.3356	33	0.2465
4	0.7593	14	0.4734	24	0.3243	34	0.2399
5	0.7210	15	0.4541	25	0.3137	35	0.2336
6	0.6852	16	0.4359	26	0.3037	36	0.2276
7	0.6520	17	0.4188	27	0.2942	37	0.2218
8	0.6210	18	0.4028	28	0.2851	38	0.2136
9	0.5920	19	0.3877	29	0.2766	39	0.2111
10	0.5650	20	0.3729	30	0.2685	40	0.2061

- b. Any contract with refunds based upon percentage of revenues and entered into under Section C. of the former rule, may be purchased by the utility and terminated, provided the payment is not in excess of the estimated revenue refund multiplied by the termination factor in the following table, the terms are otherwise mutually agreed to by the parties or their assignees and Section C.3.c. and Section C.3.d. herein are complied with. The estimated revenue refund is the amount that would otherwise be refunded, at the current level of refunds, over the remainder of the twenty-year contract period, or shorter period that would be required to extinguish the total refund obligation. It shall be determined by multiplying 22 percent of the average annual revenue per service for the immediately preceding calendar year by the number of bona fide customers at the proposed termination date, times the number of years or fractions thereof to the end of the twenty-year contract period or shorter period that would be required to refund the remaining contract balance.

(Continued)

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ADVICE LETTER NO. 949

ISSUED BY
D. P. STEPHENSON
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(TO BE INSERTED BY C.P.U.C.)
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RESOLUTION _____

DECISION NO. D.12-06-016

DIRECTOR - Rates & Regulatory
TITLE

Rule No. 15 (Continued)
MAIN EXTENSIONS

C. 3. b. (continued)

TERMINATION FACTORS			
Years Remaining	Factor	Years Remaining	Factor
1	0.8929	11	0.5398
2	0.8450	12	0.5162
3	0.8006	13	0.4941
4	0.7593	14	0.4734
5	0.7210	15	0.4541
6	0.6852	16	0.4359
7	0.6520	17	0.4188
8	0.6210	18	0.4028
9	0.5920	19	0.3877
10	0.5650		

- c. The utility shall furnish promptly to the Commission the following information in writing and shall obtain prior authorization by a formal application under Sections 816-830 of the Public Utilities Code if payment is to be made other than in cash:
- (1) A copy of the main extension contract, together with data adequately describing the development for which the advance as made and the total adjusted construction cost of the extension.
 - (2) The balance unpaid on the contract and the calculation of the maximum termination price, as above defined, as of the date of termination and the terms under which the obligation was terminated.
 - (3) The name of the holder of the contract when terminated.
- d. Discounts obtained by the utility from contracts terminated under the provisions of this section shall be accounted for by credits to Ac. 265, Contributions in Aid of Construction.

D. Extension Designed to Include Fire Protection

- 1. The cost of distribution mains designed to meet the fire flow requirements set forth in Section VIII.1(a) of General Order No. 103 is to be advanced by the applicant. The utility shall refund this advance as provided in Sections B.2. and C.2. of this rule.
- 2. Should distribution mains be designed to meet fire flow requirements in excess of those set forth in Section VIII.1(a) of General Order No. 103, the increase in cost of the distribution mains necessary to meet such higher fire flow requirements shall be paid to the utility as a contribution in aid of construction.
- 3. The cost of facilities other than hydrants and distribution mains required to provide supply, pressure, or storage primarily for fire protection purposes, or portions of such facilities allocated in proportion to the capacity designed for fire protection purposes, shall be paid to the utility as a contribution in aid of construction.

(Continued)

(TO BE INSERTED BY UTILITY)
 ADVICE LETTER NO. 949

ISSUED BY
 D. P. STEPHENSON
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(TO BE INSERTED BY C.P.U.C.)
 DATE FILED JUN 13 2012
 EFFECTIVE JUN 18 2012

DECISION NO. D.12-06-016

DIRECTOR - Rates & Regulatory

RESOLUTION

Rule No. 15 (Continued)
MAIN EXTENSIONS

E. INCOME TAX COMPONENT OF CONTRIBUTIONS AND ADVANCES PROVISION

1. Contributions is Aid of Construction (CIAC) and Advances for Construction (AIC) shall include, but are not limited to, cash, services, facilities, labor, property, and income taxes thereon provided by a person or agency to the utility. The value of all contributions and advances shall be based on the utility's estimates. Contributions and advances shall consist of two components for the purpose of recording transactions as follows:
 - a. Income Tax Component, and
 - b. The balance of the contribution or advance.

2. Starting from January 11, 2001, the Income Tax Component shall be calculated by multiplying the following tax factors times the appropriate portion of the contribution or advance:
 - a. For CIAC:

Service Connection Component:	33.58%
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 - b. For AIC:

Service Connection Component:	38.42%
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3. The tax factors are established by using Method 5 as set forth in Decision No. 87-09-026 in I. 86-11-019.

4. The formula to compute Method 5 includes the following factors:
 - a. Corporate tax rate of: 35%
 - b. Franchise tax rate of: 8.84%
 - c. A discount rate of: 8.89%
 - d. A pre-tax rate of return of: 11.99%

5. The Income Tax Component factor has been derived from the federal and state corporate income tax rates and will remain in effect until changes to those rates would increase or decrease the gross-up rate by five percentage points or more as reflected in Ordering Paragraph No. 7 of I. 86-11-019/D. 87-09-026. When and if that occurs, the utility will file and advice letter showing the new rates and cancel out this sheet.

6. In the event that the Utility collects a gross-up using an incremental tax rate that is more than its incremental tax rate as determined on a taxable year basis, without consideration of a tax credit or tax loss carry forward, the difference between what was and what should have been collected will be refunded to the Applicant.

(Continued)

(TO BE INSERTED BY UTILITY)
 ADVICE LETTER NO. 949
 DECISION NO. D.12-06-016

ISSUED BY
D. P. STEPHENSON
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DIRECTOR - Rates & Regulatory
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