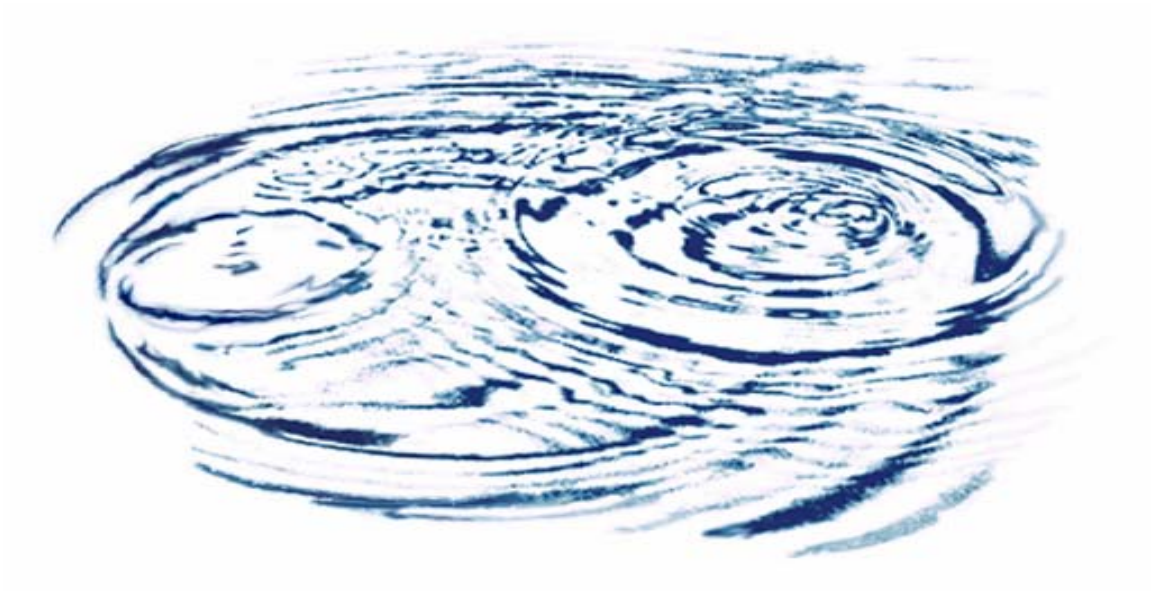
COVINA IRRIGATING COMPANY

2010 Urban Water Management Plan



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STETSON ENGINEERS INC.

861 Village Oaks Drive, Suite 100 • Covina , California 91724
Phone: (626) 967-6202 • FAX: (626) 331-7065 • Web site: www.stetsonengineers.com

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Chapter 1
PLAN PREPARATION

1.1 BACKGROUND

Section 10617. "Urban Water Supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. An urban water supplier includes a supplier or contractor for water, regardless of the basis of right, which distributes or sells for ultimate resale to customers.

Section 10620.

(a) Every urban water supplier shall prepare and adopt an urban water management plan in the manner set forth in Article 3 (commencing with Section 10640).

(b) Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.

(c) An urban water supplier indirectly providing water shall not include planning elements in its water management plan as provided in Article 2 (commencing with Section 10630) that would be applicable to urban water suppliers or public agencies directly providing water, or to their customers, without the consent of those suppliers or public agencies.

(d) (1) An urban water supplier may satisfy the requirements of this part by participation in areawide, regional, watershed, or basinwide urban water management planning where those plans will reduce preparation costs and contribute to the achievement of conservation and efficient water use.

(2) Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.

(e) The urban water supplier may prepare the plan with its own staff, by contract, or in cooperation with other governmental agencies.

This Urban Water Management Plan (Plan) was prepared in accordance with the California Urban Water Management Planning Act (Act)[1] which became effective on January 1, 1985. The Act requires every "urban water supplier" to prepare and adopt a Plan, to periodically review its Plan at least once every five years and make any amendments or changes which are indicated by the review. An "Urban Water Supplier" is defined as a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. The primary objective of the Act is to direct urban water suppliers to evaluate their existing water conservation efforts and, to the extent practicable, review and implement alternative and supplemental water conservation measures. **The Act is directed primarily at retail water purveyors where programs can be immediately affected upon the consumer.** Sections 10610 through 10656 of the California Water Code, Urban Water Management Planning Act,

[1] Water Code Sections 10610 through 10656

were enacted in 1983. The Act, originally known as Assembly Bill (AB) 797, is included in Appendix A.

There have been many new amendments added to the Plan and some reorganization of the California Water Code sections since 2005. The additions and changes follow:

- Senate Bill (SB) 1087 – Requires reporting of water use projections for lower income households
- AB 1376 – Requires 60 days notice of a public hearing on a Plan
- AB 1420 – Conditions state funding
- SB 7 – Requires 20 percent reduction in urban per capita water use by 2020 (see Appendix B).

Section 10621(a) of the California Water Code states, "Each water supplier shall update its plan at least once every five years on or before December 31, in years ending in five and zero."

1.2 COORDINATION

1.2.1 COORDINATION WITH APPROPRIATE AGENCIES

Section 10620.
(d) (2) Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.

Covina Irrigating Company (CIC) is a wholesale water supplier that provides water to the City of Covina, City of Glendora, Golden State Water Company, Suburban Water Systems, Valencia Heights Water Company, and Valley County Water District. **These retail water suppliers are not entirely dependent on CIC's water supply, but obtain water from CIC to supplement their local water supply needs within their respective service areas. Sales of CIC water are made with the understanding the supply is interruptible.**

CIC has coordinated the preparation of the Plan with the City of Covina, City of Glendora, Golden State Water Company, Suburban Water Systems, Valencia Heights Water Company, Valley County Water District, County of Los Angeles, Main San Gabriel Basin Watermaster (Main Basin Watermaster), Three Valleys Municipal Water District (TVMWD), and Upper San Gabriel Valley Municipal Water District (Upper District) (see Table 1). CIC notified these agencies of the preparation of the 2010 Plan and invited them to participate in the development of the 2010 Plan. CIC did not receive

comments on its draft Plan. A copy of the coordination letters sent to these agencies is located in Appendix C.

1.2.2 NOTIFICATION TO CITIES AND COUNTIES

Section 10621
(b) Every urban water supplier required to prepare a plan pursuant to this part shall, at least 60 days prior to the public hearing on the plan required by Section 10642, notify any city or county within which the supplier provides water supplies that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. The urban water supplier may consult with, and obtain comments from, any city or county that receives notices pursuant to this subdivision.

CIC wholesales water to retail water suppliers that in turn provide water to retail customers. CIC's retail water suppliers include the City of Covina, City of Glendora, Golden State Water Company, Suburban Water Systems, Valencia Heights Water Company, and Valley County Water District. These retail water suppliers use CIC's water supply to serve portions of the cities of Azusa, Baldwin Park, Covina, Glendora, Industry, Irwindale, La Puente, La Verne, San Dimas, Walnut, and West Covina, California; and the Hacienda Heights community in the County of Los Angeles. At least 60 days prior to the public hearing on the draft Plan, CIC provided a notice to the cities of Azusa, Baldwin Park, Covina, Glendora, Industry, Irwindale, La Puente, La Verne, San Dimas, Walnut, and West Covina; and County of Los Angeles that CIC will be reviewing its Plan and considering amendments or changes to the Plan. A copy of the notification letters sent to these cities and county is provided in Appendix D.

1.2.3 PLAN DISTRIBUTION

Section 10635(b)
The urban water supplier shall provide that portion of its urban water management plan prepared pursuant to this article to any city or county within which it provides water supplies no later than 60 days after submission of its urban water management plan.

CIC wholesales water to the City of Covina, City of Glendora, Golden State Water Company, Suburban Water Systems, Valencia Heights Water Company, and Valley County Water District. These retail water suppliers use CIC's water supply to serve portions of the cities of Azusa, Baldwin Park, Covina, Glendora, Industry, Irwindale, La Puente, La Verne, San Dimas, Walnut, and West Covina, California; and the Hacienda Heights community in the County of Los Angeles. Therefore, CIC will provide a copy of the 2010 Plan to the cities of Azusa, Baldwin Park, Covina, Glendora, Industry, Irwindale, La Puente, La Verne, San Dimas, Walnut, and West Covina; and County of Los Angeles no later than 60 days after submission of the 2010 Plan to the State of California, Department of Water Resources (DWR). A copy of the letter transmitting the 2010 Plan to each of these cities and county will be maintained in CIC's

file to document compliance with the requirement to provide the water service reliability portion (Chapter 5.4.5) of the Plan.

1.2.4 PUBLIC PARTICIPATION

Section 10642
Each urban water supplier shall encourage the active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan. Prior to adopting a plan, the urban water supplier shall make the plan available for public inspection and shall hold a public hearing thereon. Prior to the hearing, notice of the time and place of hearing shall be published within the jurisdiction of the publicly owned water supplier pursuant to Section 6066 of the Government Code. The urban water supplier shall provide notice of the time and place of hearing to any city or county within which the supplier provides water supplies. A privately owned water supplier shall provide an equivalent notice within its service area. After the hearing, the plan shall be adopted as prepared or as modified after the hearing.

CIC made the draft 2010 Plan update available for public review at the City of Covina's Council Chamber and published a notice of the public review/public hearing in a local newspaper, as shown in Appendix E. Public notification of the hearing, including the time and place of the hearing, was made pursuant to Section 6066 of the Government Code. The notice of public hearing was published and distributed to allow involvement of social, cultural, and economic community groups. Notice of the time and place of the public hearing was also provided to the cities of Azusa, Baldwin Park, Covina, Glendora, Industry, Irwindale, La Puente, La Verne, San Dimas, Walnut, and West Covina, California; and the County of Los Angeles (see Appendix E)

CIC held a public hearing at the City of Covina's Council Chamber on June 2, 2011 at 6:00 PM. None of the agencies, cities and county attended the public hearing. CIC did not receive comments from the public hearing on its draft Plan.

1.3 PLAN ADOPTION, SUBMITTAL, AND IMPLEMENTATION

1.3.1 SUBMITTAL OF AMENDED PLAN

Section 10621
c) The amendments to, or changes in, the plan shall be adopted and filed in the manner set forth in Article 3 (commencing with Section 10640).

CIC did not amend the 2010 Plan after its initial adoption.

1.3.2 PLAN ADOPTION

Section 10642
After the hearing, the plan shall be adopted as prepared or as modified after the hearing.

No modifications were made to the draft Plan. Following the public hearing, CIC adopted the draft Plan on June 8, 2011, as its Plan. A copy of the resolution adopting the Plan is provided in Appendix F.

1.3.3 PLAN IMPLEMENTATION

Section 10643
An urban water supplier shall implement its plan adopted pursuant to this chapter in accordance with the schedule set forth in its plan.

CIC is committed to the implementation of this 2010 Plan in accordance with Section 10643 of the Act. CIC continues to be committed to the concept of good water management practice. CIC will periodically review its water management practices to effect better methods or techniques as the need arises.

1.3.4 PLAN SUBMITTAL

Section 10644(a)
An urban water supplier shall submit to the department, the California State Library, and any city or county within which the supplier provides water supplies a copy of its plan no later than 30 days after adoption. Copies of amendments or changes to the plans shall be submitted to the department, the California State Library, and any city or county within which the supplier provides water supplies within 30 days after adoption.

Within 30 days of adoption of the Plan by CIC, a copy of the Plan will be filed with the DWR; State of California Library; County of Los Angeles; and the cities of Azusa, Baldwin Park, Covina, Glendora, Industry, Irwindale, La Puente, La Verne, San Dimas, Walnut, and West Covina. Copies of the letters to DWR; State Library; County of Los Angeles; and the cities of Azusa, Baldwin Park, Covina, Glendora, Industry, Irwindale, La Puente, La Verne, San Dimas, Walnut, and West Covina will be maintained in CIC's file.

1.3.5 PUBLIC REVIEW

Section 10645
Not later than 30 days after filing a copy of its plan with the department, the urban water supplier and the department shall make the plan available for public review during normal business hours.

Within 30 days after submittal of the 2010 Plan to DWR, CIC will make the 2010 Plan available for public review at its office during normal business hours.

Chapter 2
SYSTEM DESCRIPTION

2.1 BACKGROUND

2.1.1 COMPANY HISTORY

CIC was initially incorporated in 1882 as the "Azusa Water Development and Irrigating Company." Azusa Water Development and Irrigating Company was organized as a general water supply corporation to serve its stockholders and the Azusa area. Azusa Water Development and Irrigating Company owned diversion facilities on the San Gabriel River and a canal system for distributing water to local users. In 1898, groundwater wells were constructed to supplement the seasonal supply of surface water. In 1903, Azusa Water Development and Irrigating Company became CIC. CIC continued to grow and increase its sales, primarily for irrigation purposes. Baldwin Park Wells No. 1 and No. 2; Contract Well; Valencia Well; and Baldwin Park Well No. 3 were constructed in 1910, 1911, 1925, 1929, and 1951, respectively. In 1958, CIC acquired the Contract Water Company. With urbanization of the San Gabriel Valley following World War II, CIC increased its sales of water for domestic use to such an extent that a filtration plant was built in 1967 to process surface water from the San Gabriel River. Water sales for irrigation purposes ended in 2005. In 2009, the Valencia Well was destroyed. Water sales as of 2010 are for domestic use.

CIC's office is located at 146 East College Street in the City of Covina, California. CIC operates under Public Water System (PWS) Number 1910128.

2.1.2 WATER SYSTEM

CIC owns and operates surface water diversion facilities on the San Gabriel River, groundwater wells, and a distribution system that enables it to sell water for domestic purposes. CIC has no direct retail customers. Instead, CIC wholesales its water supply to the six retail water suppliers listed below:

- City of Covina
- City of Glendora
- Golden State Water Company
- Suburban Water Systems
- Valencia Heights Water Company
- Valley County Water District.

These retail water suppliers are not entirely dependent on CIC's water supply but obtain water from CIC to supplement their local water supply needs within their

respective service areas. These retail water suppliers use CIC's water supply to serve portions of the cities of Azusa, Baldwin Park, Covina, Glendora, Industry, Irwindale, La Puente, La Verne, San Dimas, Walnut, and West Covina, California; and the community of Hacienda Heights in the County of Los Angeles.

2.1.3 SURFACE WATER DIVERSION

Surface water from the San Gabriel River is delivered by an underground pipeline to the William B. Temple Treatment Plant (Temple Treatment Plant). The Temple Treatment Plant was constructed with settling basins and filter beds. The Temple Treatment Plant uses flash mixing, coagulation, flocculation, sedimentation, filtration, and chlorination to treat surface water. It can process up to 12.5 million gallons of water per day. Operation of the Temple Treatment Plant began in 1967.

From the Temple Treatment Plant, treated surface water may be pumped through CIC's distribution system to interconnections with CIC's retail water suppliers.

2.1.4 GROUNDWATER WELLS

CIC currently has three active wells (Baldwin Park Wells No. 1, No. 2, and No. 3) and one inactive well (Contract Well) which are all located in the Main San Gabriel Basin (Main Basin). CIC's wells are located at two points within the distribution system, in the cities of Baldwin Park (active Baldwin Park Wells No. 1, No. 2, and No. 3) and Azusa (inactive Contract Well) in residential and commercial areas. Water produced from Baldwin Park Wells No. 1, No. 2, and No. 3 is pumped into the Baldwin Park Reservoir, which has a storage capacity of approximately 1.5 million gallons. The Baldwin Park Reservoir was built in 1910. Water at this reservoir is disinfected using chlorine before entering the distribution system. Three boosters located at this reservoir site then pump the water through the distribution system.

2.1.5 DISTRIBUTION SYSTEM

CIC has three pumping plants. The two pumping plants located at the Temple Treatment Plant pump treated surface water to the distribution system. The Baldwin Park pumping plant pumps water from the Baldwin Park Reservoir to the distribution system. These pumping plants were built between 1925 and 1994.

CIC has connections providing water to its retail water suppliers. The City of Glendora and Golden State Water Company can receive only treated surface water from CIC, while the other retail suppliers can receive both treated surface water and groundwater from CIC.

2.2 SERVICE AREA PHYSICAL DESCRIPTION

Section 10631.
A plan shall be adopted in accordance with this chapter and shall do the following:
a) Describe the service area of the supplier; including current and projected population, climate, and other demographic factors affecting the supplier's water management planning. The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier and shall be in five-year increments to 20 years or as far as data is available.

2.2.1 SERVICE AREA

CIC provides wholesale water sales to its retail water suppliers. Each of these retail water suppliers has its own sources of water supply in addition to water purchased from CIC. Those sources of water supply and the service area of each of these retail water suppliers are described in the retail water suppliers' Plans, which are prepared and submitted separate of this Plan. Sales of CIC water are made with the understanding the supply is interruptible. CIC's retail water suppliers' alternative sources of supply that can meet long-term water demands are described in their respective Plans.

2.2.2 CLIMATE

Table 2 shows historical rainfall at the Pasadena Powerhouse Station located at the entrance to the San Gabriel Canyon Table 3 shows the monthly average rainfall at the Pasadena Powerhouse Station; and monthly average temperature and monthly average evapotranspiration in the San Gabriel Valley. Table 3 shows the average annual rainfall at the Pasadena Powerhouse Station is 22.98 inches, the average daily temperature is 63.8 degrees Fahrenheit (^{o}F), and the average annual evapotranspiration is 55.1 inches. The climate is characterized by hot, dry summers and mild winters.

2.3 SERVICE AREA POPULATION

Section 10631.
A plan shall be adopted in accordance with this chapter and shall do the following:
a) Describe the service area of the supplier; including current and projected population, climate, and other demographic factors affecting the supplier's water management planning. The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier and shall be in five-year increments to 20 years or as far as data is available.

2.3.1 POPULATION

CIC provides wholesale water sales to its retail water suppliers. Each of these retail water suppliers has its own sources of water supply in addition to water purchased from CIC. The current and projected population in the service area of these retail water suppliers are described in the retail water suppliers' Plans, which are prepared and submitted separate of this Plan. The current estimated population in the cities included in the service areas of CIC's retail water suppliers is about 566,400. Table 4 presents the estimated current and projected population in the cities included in the service areas served by CIC's retail water suppliers from 2010 to 2030 (five-year increments to 20 years). The population data were obtained from the Southern California Association of Governments.

2.3.2 OTHER DEMOGRAPHIC FACTORS

CIC provides wholesale water sales to its retail water suppliers. Each of these retail water suppliers has its own sources of water supply in addition to water purchased from CIC. Sales of CIC water are made with the understanding the supply is interruptible. Information on other demographic factors affecting water management of these retail water suppliers are described in the retail water suppliers' Plans, which are prepared and submitted separate of this Plan. There are no other demographic factors affecting CIC's water management planning.

Chapter 3
SYSTEM DEMANDS

3.1 BASELINES AND TARGETS

Section 10608.20 (e)

An urban retail water supplier shall include in its urban water management plan required pursuant to Part 2.6 (commencing with Section 10610) due in 2010 the baseline daily per capita water use, urban water use target, interim urban water use target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.

CIC is not an urban retail water supplier. Therefore, this requirement is not applicable to CIC.

3.2 WATER DEMANDS

3.2.1 PAST, CURRENT, AND PROJECTED WATER DEMAND

Section 10631(e)

(1) Quantify, to the extent records are available, past and current water use, over the same five-year increments described in subdivision (a), and projected water use, identifying the uses among water use sectors, including, but not necessarily limited to, all of the following uses:

- *(A) Single-family residential.*
- *(B) Multifamily.*
- *(C) Commercial.*
- *(D) Industrial.*
- *(E) Institutional and governmental.*
- *(F) Landscape.*
- *(G) Sales to other agencies.*
- *(H) Saline water intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof.*
- *(I) Agricultural*

(2) The water use projections shall be in the same five-year increments described in subdivision (a).

As a wholesale water supplier, CIC does not have information on past, current, and projected water demand at the retail level. CIC provides wholesale water supplies to its retail water suppliers with the understanding the supply is interruptible. CIC supplies water to supplement water supplies maintained by its retail water suppliers. CIC's retail water suppliers' information on past, current, and projected water demand at the retail level is described in their respective Plans.

Table 5 shows the past, current, and projected sales to CIC's retail water suppliers. Table 5 also shows the past, current, and projected total water demand and

unaccounted water losses. Past, current, and projected water uses by sector are discussed in CIC's retail water suppliers' Plans.

3.2.2 PROJECTED WATER DEMAND FOR LOWER INCOME HOUSEHOLDS

Section 10631.1(a)

> *The water use projections required by Section 10631 shall include projected water use for single-family and multifamily residential housing needed for lower income households, as defined in Section 50079.5 of the Health and Safety Code, as identified in the housing element of any city, county, or city and county in the service area of the supplier.*

According to DWR, the requirement to address the projected water demand for lower income households is applicable only to urban retail water suppliers (DWR, 2011).[2] Because CIC is a wholesale water supplier, this requirement is not applicable to CIC.

3.3 WATER DEMAND PROJECTIONS

Section 10631(k)

> *Urban water suppliers that <u>rely upon a wholesale agency for a source of water</u> shall provide the wholesale agency with water use projections from that agency for that source of water in five-year increments to 20 years as far as data is available. <u>The wholesale agency shall provide information to the urban water supplier for inclusion in the urban water supplier's plan that identifies and quantifies, to the extent practicable, the existing and planned sources of water as required by subdivision (b)</u>, available from the wholesale agency to the urban water supplier over the same five-year increments, and during various water-year types in accordance with subdivision (c). An urban water supplier may rely upon water supply information provided by the wholesale agency in fulfilling the plan informational requirements of subdivisions (b) and (c).*

CIC provides wholesale water sales to its retail water suppliers. Each of these retail water suppliers has its own sources of water supply in addition to water purchased from CIC. Sales of CIC water are made with the understanding the supply is interruptible. CIC notified its retail water suppliers, TVMWD (which provides imported untreated water for groundwater replenishment of the Main Basin), and Upper District (which provides imported untreated water for groundwater replenishment of the Main Basin) of the development of its 2010 Plan, and made a copy of its draft 2010 Plan available to them. TVMWD and Upper District provided CIC with a copy of their draft 2010 Plan, which are incorporated by reference in this Plan.

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[2] DWR, 2011. *Guidebook to Assist Urban Water Suppliers to Prepare a 2010 Urban Water Management Plan, Final*. March 2011.

3.4 WATER USE REDUCTION PLAN

10608.36.

Urban wholesale water suppliers shall include in the urban water management plans required pursuant to Part 2.6 (commencing with Section 10610) an assessment of their present and proposed future measures, programs, and policies to help achieve the water use reductions required by this part.

10608.26

Urban retail water suppliers are to prepare a plan for implementing the Water Conservation Bill of 2009 requirements and conduct a public meeting which includes consideration of economic impacts.

CIC is a wholesale water supplier. Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and have alternative sources of supply that can meet long-term water demands as described in their Plans. Because CIC's retail water suppliers are not entirely dependent on CIC for their water supply, CIC does not have any present or proposed future measure, program, or policy that will help its retail water suppliers achieve the water reduction goals of the Water Conservation Bill of 2009.

CIC is not an urban retail water supplier. Therefore, the requirements for urban retail water suppliers to prepare a plan for implementing the Water Conservation Bill of 2009 and to hold a public meeting that includes consideration of economic impacts are not applicable to CIC.

3.5 PROGRESS REPORT

10608.40.

Urban water retail suppliers shall report to the department on their progress in meeting their urban water use targets as part of their urban water management plans submitted pursuant to Section 10631. The data shall be reported using a standardized form developed pursuant to Section 10608.52.

CIC is not an urban retail water supplier. Therefore, this requirement is not applicable to CIC.

Chapter 4
SYSTEM SUPPLIES

4.1 WATER SOURCES

Section 10631
A plan shall be adopted in accordance with this chapter and shall do the following:
b) Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a).

CIC's water supply sources include surface water diversions from the San Gabriel River and groundwater pumped from the Main Basin. CIC's past, current, and projected water supply is shown on Table 6.

4.2 GROUNDWATER

Section 10631(b)
If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information shall be included in the plan:

As indicated in Chapter 2.1.4, CIC currently has three active wells (Baldwin Park Wells No. 1, No. 2, and No. 3) which are all located in the Main Basin. Water produced from these wells is pumped into the Baldwin Park Reservoir, which is then pumped through the distribution system.

4.2.1 GROUNDWATER MANAGEMENT

Section 10631(b)
If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information shall be included in the plan:
1) A copy of any groundwater management plan adopted by the urban water supplier, including plans adopted pursuant to Part 2.75 (commencing with Section 10750), or any other specific authorization for groundwater management.

4.2.1.1 MAIN BASIN GROUNDWATER MANAGEMENT

Management of the water resources in the San Gabriel Valley is based upon Watermaster Services under two Court Judgments: San Gabriel River Watermaster (River Watermaster)[3] and Main Basin Watermaster.[4] CIC was a party to the Main Basin

[3] Board of Water Commissioners of the City of Long Beach et al, v. San Gabriel Valley Water Company, et al, Los Angeles County Case No. 722647, Judgment entered September 24, 1965.

Judgment and as such had participation. CIC also participates in the Main Basin management described in the Main Basin Watermaster document entitled "Five-Year Water Quality and Supply Plan." These three basin management documents are described in the following chapters.

LONG BEACH JUDGMENT

On May 12, 1959, the Board of Water Commissioners of the City of Long Beach, Central Basin Municipal Water District (CBMWD) and the City of Compton, as plaintiffs, filed an action against the San Gabriel Valley Water Company and 24 other producers of groundwater from the San Gabriel Valley as defendants. This action sought a determination of the rights of the defendants in and to the waters of the San Gabriel River system and to restrain the defendants from an alleged interference with the rights of plaintiffs and persons represented by the CBMWD in such waters. After six years of study and negotiation a Stipulation for Judgment was filed on February 10, 1965, and Judgment (Long Beach Judgment) was entered on September 24, 1965. Under the terms of the Long Beach Judgment, the water supply of the San Gabriel River system was divided at Whittier Narrows, the boundary between San Gabriel Valley upstream and the coastal plain of Los Angeles County downstream. A copy of the Long Beach Judgment is located in Appendix G.

Under the terms of the Long Beach Judgment, the area downstream from Whittier Narrows (Lower Area), the plaintiffs and those they represent, are to receive a quantity of usable water annually from the San Gabriel River system comprised of usable surface flow, subsurface flow at Whittier Narrows and water exported to the Lower Area. This annual entitlement is guaranteed by the area upstream of Whittier Narrows (Upper Area), the defendants, and provision is made for the supply of Make-Up Water by the Upper Area for years in which the guaranteed entitlement is not received by the Lower Area.

Make-Up Water is imported water purchased by the Main Basin Watermaster and delivered to agencies within CBMWD to satisfy obligations under the Long Beach Judgment. The entitlement of the Lower Area varies annually, dependent upon the 10-year average annual rainfall in San Gabriel Valley for the 10 years ending with the year for which entitlement is calculated.

The detailed operations described in the Long Beach Judgment are complex and require continuous compilation of data so that annual determinations can be made to assure compliance with the Long Beach Judgment. In order to do this, a three-member Watermaster was appointed by the Court, one representing the Upper Area parties nominated by and through Upper District, one representing the Lower Area parties

[4] Upper San Gabriel Valley Municipal Water District v. City of Alhambra, et al, 924128, Judgment entered January 4, 1973.

nominated by and through CBMWD, and one jointly nominated by Upper District and CBMWD. This three-member board is known as the River Watermaster.

The River Watermaster meets periodically during the year to adopt a budget, to review activities affecting water supply in the San Gabriel River system area, to compile and review data, to make its determinations of usable water received by the Lower Area, and to prepare an annual report to the Court and to the Parties. The River Watermaster has rendered annual reports for the water years 1963-64 through 2008-09 and operations of the river system under the Long Beach Judgment and through the administration by the River Watermaster have been very satisfactory since its inception.

One major result of the Long Beach Judgment was to leave the Main Basin free to manage its water resources so long as it meets its downstream obligation to the Lower Area under the terms of the Long Beach Judgment.

MAIN BASIN JUDGMENT

Following the Long Beach Judgment, the Upper Area then turned to the task of developing a water resources management plan to optimize the conservation of the natural water supplies of the area. Studies were made of various methods of management of the Main Basin as an adjudicated area and a report thereon was prepared for the Upper San Gabriel Valley Water Association, an association of water producers in the Main Basin, including CIC. After consideration by the Association membership, Upper District was requested to file as plaintiff, and did file, an action on January 2, 1968, seeking an adjudication of the water rights of the Main Basin and its Relevant Watershed. In this Judgment, CIC was included as a Party. After several years of study (including verification of annual water production) and negotiations, a stipulation for entry of Judgment was approved by a majority of the Parties, by both the number of parties and the quantity of rights to be adjudicated. Trial was held in late 1972 and Judgment (Main Basin Judgment) was entered on January 4, 1973. A copy of the Main Basin Judgment is located in Appendix H.

There are three municipal water districts overlying and partially overlying the Main Basin. The three districts are the Upper District, San Gabriel Valley Municipal Water District (SGVMWD) and TVMWD. The location of these districts is shown on Plate 1. CIC is a member agency of Upper District and TVMWD.

Under the terms of the Main Basin Judgment, all rights to the diversion of surface water and production of groundwater within the Main Basin and its Relevant Watershed were adjudicated. The Main Basin Judgment provides for the administration of the provisions of the Main Basin Judgment by a nine-member Watermaster. Six of those members are nominated by water producers (producer members) and three members (public members) are nominated by the Upper District and SGVMWD, which overlie most of the Main Basin. The nine-member board employs a staff, an attorney and a

consulting engineer. The Main Basin Watermaster holds public meetings on a regular monthly basis through the year. A copy of the Main Basin Watermaster's Rules and Regulations is located in Appendix I.

The Main Basin Judgment does not restrict the quantity of water, which Parties may extract from the Main Basin. Rather, it provides a means for replacing all annual extractions in excess of a Party's annual right to extract water with Supplemental Water. The Main Basin Watermaster annually establishes an Operating Safe Yield[5] for the Main Basin which is then used to allocate to each Party its portion of the Operating Safe Yield which can be produced free of a Replacement Water Assessment. If a producer extracts water in excess of its right under the annual Operating Safe Yield, it must pay an assessment for Replacement Water which is sufficient to purchase one acre-foot of Supplemental Water to be spread in the basin for each acre-foot of excess production. Any pumper's share of the Operating Safe Yield, and the production right of any Integrated Producer,[6] which is not produced in a given fiscal year may be carried over and accumulated for one fiscal year, pursuant to Main Basin Watermaster rules. All water production is metered and is reported quarterly to the Main Basin Watermaster.

CIC has an integrated production right of 9,092.37 acre-feet consisting of a prescriptive pumping component of 6,578.37 acre-feet and a surface diversion component of 2,514 acre-feet. CIC has a pumper's share of 3.32855 percent of the Operating Safe Yield.

There is also provision for Cyclic Storage Agreements by which Parties and Non-Parties may store imported Supplemental Water in the Main Basin under such agreements with the Main Basin Watermaster pursuant to uniform rules and conditions and Court approval. CIC has a Cyclic Storage account and is allowed to store a maximum of 2,000 acre-feet at any given time. As of June 30, 2010, CIC had no water in its Cyclic Storage account.

In addition to Replacement Water Assessments, the Main Basin Watermaster levies an Administration Assessment to fund the administration of the Main Basin management program under the Main Basin Judgment, and a Make-Up Obligation Assessment in order to fulfill the requirements for any Make-Up Obligation under the Long Beach Judgment and to supply 50 percent of the administration costs of the River Watermaster service. The Main Basin Watermaster also levies an In-Lieu Assessment and may levy special Administration Assessments.

The Main Basin Judgment provides that the Main Basin Watermaster will not allow imported water to be spread in the main part of the Main Basin when the

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[5] Operating Safe Yield is set by Watermaster to allocate to each Party its portion of groundwater that can be produced from the Main Basin free of a Replacement Water Assessment.
[6] Any Party that is both a Pumper and Diverter, and has elected to have its rights adjudicated under the optional formula provided in Section 18 of the Main Basin Judgment.

groundwater elevation at the Baldwin Park Key Well[7] (Key Well) exceeds 250 feet; and that the Main Basin Watermaster will, insofar as practicable, spread imported water in the Main Basin to maintain the groundwater elevation at the Key Well above 200 feet. One of the principal reasons for the limitation on spreading imported water when the Key Well elevation exceeds 250 feet is to reserve ample storage space in the Main Basin to capture native surface water runoff when it occurs and to optimize the conservation of such local water. Under the terms of the Long Beach Judgment, any excess surface flows that pass through the Main Basin at Whittier Narrows to the Lower Area (which is then conserved in the Lower Area through percolation to groundwater storage) is credited to the Upper Area as Usable Surface Flow.

OPERATIONS OF THE GROUNDWATER BASIN

Through the Long Beach Judgment and the Main Basin Judgment, operations of the Main Basin are optimized to conserve local water to meet the needs of the Parties of the Main Basin Judgment.

Typically, water producers within Upper District rely upon groundwater from the Main Basin for their water supply. Imported water for groundwater replenishment is delivered to the flood control channels and diverted and spread at spreading grounds through Main Basin Watermaster's agreement with the County of Los Angeles, Department of Public Works (DPW). Groundwater replenishment, utilizing imported water, is Replacement Water under the terms of the Main Basin Judgment. It can be stored in the Main Basin through Cyclic Storage agreements, authorized by terms of the Main Basin Judgment, but such stored water may be used only to supply Supplemental Water to the Main Basin Watermaster.

The Main Basin Watermaster has entered into a Cyclic Storage Agreement with each of the three municipal water districts. One is with the Metropolitan Water District of Southern California (MWD) and Upper District, which permits MWD to deliver and store imported water in the Main Basin in an amount not to exceed 100,000 acre-feet for future Replacement Water use. The second Cyclic Storage Agreement is with TVMWD and permits MWD to deliver and store 40,000 acre-feet for future Replacement Water use. The third is with SGVMWD and contains generally the same conditions as the agreement with MWD except that the stored quantity is not to exceed 40,000 acre-feet. CIC has a Cyclic Storage account with the Main Basin Watermaster and is allowed to store a maximum of 2,000 acre-feet at any given time. As of June 30, 2010, CIC had no water in its Cyclic Storage account.

Imported Make-Up Water is often delivered to lined stream channels and conveyed to the Lower Area. Make-Up Water is required to be delivered to the Lower

[7] The Baldwin Park Key Well is a water level monitoring well located in the City of Baldwin Park used to determine when imported water may or may not be spread in the Basin.

Area by the Upper Area when the Lower Area entitlement under the Long Beach Judgment exceeds the usable water received by the Lower Area. Imported water is used to fulfill the Make-Up Water Obligation when reimbursing the Lower Area interests for their purchase of recycled water cannot fulfill the amount of Make-Up Water. The amount of recycled water for which reimbursement may be made as a delivery of Make-Up Water is limited by the terms of the Long Beach Judgment to the annual deficiency in Lower Area Entitlement water or to 14,735 acre-feet, whichever is the lesser quantity.

FIVE-YEAR WATER QUALITY AND SUPPLY PLAN

The Main Basin Watermaster was created in 1973 to resolve water issues that had arisen among water users in the San Gabriel Valley. Main Basin Watermaster's mission is to generally manage the water supply of the Main Basin. During the late 1970s and early 1980s, significant groundwater contamination was discovered in the Main Basin. The contamination was caused in part by past practices of local industries that had carelessly disposed of industrial solvents referred to as volatile organic compounds (VOCs) as well as by agricultural operations that infiltrated nitrates into the groundwater. Cleanup efforts were undertaken at the local, state, and federal level.

By 1989, local water agencies, including CIC, adopted a joint resolution regarding water quality issues stating the Main Basin Watermaster should coordinate local activities aimed at preserving and restoring the quality of groundwater in the Main Basin. The joint resolution also called for a cleanup plan. In 1991, the Court granted Main Basin Watermaster the authority to control pumping for water quality purposes. Accordingly, Main Basin Watermaster added Section 28 to its Rules and Regulations regarding water quality management. The new responsibilities included development of a Five-Year Water Quality and Supply Plan, updating it annually, submitting it to the California Regional Water Quality Control Board, Los Angeles Region, and making it available for public review by November 1 of each year. A copy of the "Five-Year Water Quality and Supply Plan" is located in Appendix J.

The Main Basin Watermaster prepares and annually updates the Five-Year Water Quality and Supply 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 Basin are protected and improved. Many important issues are detailed in the Five-Year Plan, including how the Main Basin Watermaster plans to:

1. monitor groundwater supply and quality;
2. develop projections of future groundwater supply and quality;
3. review and cooperate on cleanup projects, and provide technical assistance to other agencies;

4. assure that pumping does not lead to further degradation of water quality in the Main Basin;
5. address perchlorate, N-nitrosodimethylamine (NDMA), and other emerging contaminants in the Main Basin;
6. develop a cleanup and water supply program consistent with the U.S. Environmental Protection Agency (EPA) plans for its San Gabriel Valley Superfund sites; and
7. coordinate and manage the design, permitting, construction, and performance evaluation of the Baldwin Park Operable Unit (BPOU) cleanup and water supply plan.

The Main Basin Watermaster has worked with state and federal regulators, along with local water companies to clean up water supplies. Section 28 of the Main Basin Watermaster's Rules and Regulations require all producers (including the CIC) to submit an application to 1) construct a new well, 2) modify an existing well, 3) destroy a well, or 4) construct a treatment facility. Main Basin Watermaster prepares a report on the implications of the proposed activity. As a Party to the Main Basin Judgment, CIC reviews a copy of these reports and is provided the opportunity to submit comments on the proposed activity before Main Basin Watermaster Board takes its final action.

4.2.2 DESCRIPTION OF GROUNDWATER BASIN

Section 10631(b)(2)

A description of any groundwater basin or basins from which the urban water supplier pumps groundwater. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the urban water supplier has the legal right to pump under the order or decree. For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current official departmental bulletin that characterizes the condition of the groundwater basin, and a detailed description of the efforts being undertaken by the urban water supplier to eliminate the long-term overdraft condition.

4.2.2.1 MAIN SAN GABRIEL BASIN

The Main Basin is located within the San Gabriel Valley in southeastern Los Angeles County and is bounded on the north by the San Gabriel Mountains; on the west by the San Rafael and Merced Hills; on the south by the Puente Hills and the San Jose Hills; and on the east by the San Jose and Puente Hills, as shown on Plate 2.

The San Gabriel River and its distributary, the Rio Hondo, drain an area of about 490 square miles upstream of Whittier Narrows. Whittier Narrows is a low gap between the Merced and Puente Hills, just northwest of the City of Whittier, through which the

San Gabriel River and the Rio Hondo flow to the coastal plain of Los Angeles County. Whittier Narrows is a natural topographic divide and a subsurface restriction to the movement of groundwater between the Main Basin and the Coastal Plain. Of the approximately 490 square miles of drainage area upstream of Whittier Narrows, about 167 square miles are valley lands, and about 323 square miles are mountains and foothills.

The Main Basin includes essentially the entire valley floor of San Gabriel Valley with the exception of the Raymond Basin and Puente Basin. As shown on Plate 2, the boundaries of the Main Basin are the Raymond Basin on the northwest, the base of the San Gabriel Mountains on the north, the groundwater divide between San Dimas and La Verne and the lower boundary of the Puente Basin on the east, and the common boundaries between Upper District and CBMWD through Whittier Narrows on the southwest. The common water supply of the Main Basin does not include the Raymond Basin, the area northerly of Raymond Hill Fault, which was adjudicated in the Pasadena v. Alhambra case (*Superior Court of the County of Los Angeles, 1944*). The Puente Basin, although tributary to the Main Basin, is not included in the Main Basin administered by the Main Basin Watermaster.

The Main Basin is a large groundwater basin replenished by stream runoff from the adjacent mountains and hills, by rainfall directly on the surface of the San Gabriel Valley floor, subsurface inflow from Raymond Basin and Puente Basin, and by return flow from water applied for overlying uses. Additionally, the Main Basin is replenished with imported water. The Main Basin serves as a natural storage reservoir, transmission system and filtering medium for wells constructed therein.

Urbanization of the San Gabriel Valley began in the early part of the twentieth century, but until the 1940s, agricultural land use occupied more area than residential and commercial land use. After World War II, agricultural areas reduced rapidly and are now less than two thousand acres. The agricultural areas tend to be located in the easterly portion of the Main Basin and along power transmission rights of way adjacent to the San Gabriel River. Agricultural plots are discontinuous and relatively small. There are several major industrial areas adjacent to the San Gabriel River and within other portions of the San Gabriel Valley. The greatest area of land use in the San Gabriel Valley is for residential and commercial purposes. DWR Bulletin 118 does not identify the Main Basin as currently being in overdraft.

Adjudication of water rights in the Main Basin is discussed in Chapter 4.2.1.1, including a description of the amount of groundwater CIC has the legal right to pump.

GEOLOGY

The Main Basin consists of a roughly bowl-shaped depression in the bedrock, filled over millions of years with alluvial deposits. This bowl-shaped depression is

relatively deep; the elevation of the base of the groundwater reservoir declines from about 800 feet above the mean sea level (MSL) in the vicinity of San Dimas at the northeast corner of the Main Basin to about 2,200 feet below MSL in the vicinity of South El Monte (*DWR, 1966*).[8]

Most of the alluvium deposited within this depression is debris from the San Gabriel Mountains, washed and blown from the side of the mountains over time. This process has also resulted in the materials within the Main Basin varying in size from relatively coarse gravel nearer the mountains to fine and medium-grained sand containing silt and clay as the distance from the mountains increases. The principal water-bearing formations of the Main Basin are unconsolidated and semi-consolidated sediments, which vary in size from coarse gravel to fine-grained sands. The interstices between these alluvial particles throughout the Main Basin fill with water and transmit water readily to wells. The thickness of the water-bearing materials in the Main Basin ranges from 200 feet to 300 feet in the northeastern portion of the Main Basin near the mountains to nearly 4,000 feet in the South El Monte area (*DWR, 1966*).

The soils overlying the Main Basin average about 6 feet in depth. Soil depths are generally greater at the perimeter of the valley and decrease toward the center along the San Gabriel River. These soils are residual, formed in place through chemical, mechanical and plant weathering processes. The infiltration rates of these soils are greater along the natural channels and their adjacent flood plains. Lower infiltration rates are found in the perimeter areas of the San Gabriel Valley. Since the San Gabriel Valley is mostly urbanized, a significant portion of the area has been paved and many miles of stream channel have been lined for flood control purposes, thus decreasing infiltration of water through streambeds. More detailed Main Basin geology is discussed in the report entitled "Planned Utilization of Ground Water Basins, San Gabriel Valley, Appendix A: Geohydrology" (*DWR, 1966*).

HYDROGEOLOGY

The total fresh water storage capacity of the Main Basin is estimated to be about 9.5 million acre-feet. Of that, about 1,000,000 acre-feet have been used historically in Main Basin operations. The change in groundwater elevation at the Key Well is representative of changes in groundwater in the Main Basin. One foot of elevation change at the Key Well is roughly the equivalent of about 8,000 acre-feet of water storage. The location of the Key Well is shown on Plate 2 and hydrograph of the Key Well is shown on Figure 1. The historical high groundwater elevation was recorded at over 329.1 feet in April 1916, at which time Main Basin storage was estimated to be about 8,700,000 acre-feet. The historical low was recorded in November 2009 at 189.2 feet, at which time Main Basin storage was estimated to be about 7,600,000 acre-feet.

[8] DWR, 1966. *Bulletin No. 104-2, Planned Utilization of Ground Water Basins, San Gabriel Valley, Appendix A: Geohydrology*. March 1966.

The Key Well hydrograph shown on Figure 1 illustrates the cyclic nature of Main Basin recharge and depletion. The hydrograph also illustrates the dramatic recharge capability of the Main Basin during wet periods.

Generally, water movement in the Main Basin is from the San Gabriel Mountains on the north to Whittier Narrows to the southwest. The most recent groundwater contour map is shown on Plate 3. Groundwater movement in the northern and northeastern regions of the Main Basin is affected by faulting. For example, the Raymond Fault located in the northwesterly portion of the Main Basin separates the Raymond Basin from the Main Basin.

The Main Basin is an unconfined aquifer. Although clay deposits appear mixed with the soils in several locations in the Main Basin and there are various clay lenses throughout the Main Basin, they do not coalesce to form a single impermeable barrier to the movement of subsurface water. The Main Basin therefore operates as a single, unconfined aquifer. As previously mentioned, a thorough discussion of Main Basin hydrogeology is contained in the report "Planned Utilization of Ground Water Basins, San Gabriel Valley, Appendix A: Geohydrology" (*DWR, 1966*).

Within the Main Basin, there are a number of identified sub-basins. These include the Upper San Gabriel Canyon Basin, Lower San Gabriel Canyon Basin, Glendora Basin, Foothill Basin, Way Hill Basin and San Dimas Basin. In addition, the Puente Basin is tributary to the Main Basin from the southeast, between the San Jose and Puente Hills. Plate 2 shows the location of the sub-basins within the Main Basin.

HYDROLOGY

The major sources of recharge to the Main Basin are direct penetration of rainfall on the San Gabriel Valley floor, percolation of runoff from the mountains, percolation of imported water and return flow from applied water. Rainfall occurs predominantly in the winter months and is more intense at higher elevations and closer to the San Gabriel Mountains. Rainfall is also highly variable from year to year.

The magnitude of annual recharges from direct penetration of local rainfall and return flow from applied water is not easily quantifiable. Percolation of runoff from the mountains and valley floor along with percolation of imported water has been estimated by River Watermaster. DPW maintains records on the amount of local and imported water conserved in water spreading facilities and stream channels.

The Main Basin is bisected by the San Gabriel River. The San Gabriel River originates at the confluence of its west and east forks in the San Gabriel Mountains. It flows through the San Gabriel Canyon and enters the Main Basin at the mouth of the canyon north of the City of Azusa (see Plate 2). The San Gabriel River flows southwesterly across the valley to Whittier Narrows, a distance of about 15 miles. It

exits the San Gabriel Valley at Whittier Narrows, and transverses the Coastal Plan in a southerly direction to reach the Pacific Ocean at Alamitos Bay near the City of Long Beach.

The San Gabriel River is joined and fed by tributary creeks and washes. In the Main Basin these include: Big Dalton Wash, which originates in the San Gabriel Mountains; Walnut Creek, which originates at the northeast end of the San Jose Hills; and San Jose Creek, which originates in the San Gabriel Mountains, but which travels around the southerly side of the San Jose Hills through the Puente Narrows before joining the San Gabriel River just above Whittier Narrows.

The channel of the San Gabriel River bifurcates in the upper middle portion of the Main Basin, forming a channel to the west of and parallel to the San Gabriel River, known as the Rio Hondo. Tributaries draining the westerly portion of the Main Basin, including Sawpit Wash, Santa Anita Wash, Eaton Canyon Wash, Rubio Wash and Alhambra Wash, all of which originate in the San Gabriel Mountains or the foothills. The Santa Anita Wash, Eaton Canyon Wash, Rubio Wash and Alhambra Wash all cross the Raymond Basin area before entering the Main Basin. The channel of the Rio Hondo passes through Whittier Narrows westerly of the San Gabriel River, and then flows southwesterly to join the Los Angeles River on the Coastal Plain.

To protect residents of the San Gabriel Valley from flooding that can result during periods of intensive rainfall, the DPW and the U.S. Army Corps of Engineers (Corps of Engineers) have constructed an extensive system of dams, debris basins, reservoirs and flood control channels. The dams and reservoirs also operate as water conservation facilities. The dams and reservoirs that control the flow of the San Gabriel River and the Rio Hondo include: Cogswell Reservoir on the west fork of the San Gabriel River, San Gabriel Reservoir at the confluence of the west and east forks of the San Gabriel River, Morris Reservoir near the mouth of the San Gabriel Canyon, Santa Fe Reservoir in the northerly portion of the Basin, and Whittier Narrows Reservoir at the southwestern end of the San Gabriel Valley.

Many of the stream channels tributary to the San Gabriel River have been improved with concrete banks (walls) and concrete-lined bottoms. These stream channel improvements have significantly reduced the area of previous stream channels and reduced Main Basin recharge. A number of off-stream groundwater replenishment facilities have been established along these stream channels to offset such reductions in recharge. The locations of these water-spreading facilities are shown on Plate 2. Some of these facilities are accessible to imported water supplies, while some facilities receive only local runoff.

The paths of the surface streams are mirrored in the soils and in the direction of groundwater movement in the Main Basin. The tributary creeks and washes, carrying smaller amounts of water, generally flow toward the center of the San Gabriel Valley, while the direction of flow of the major streams, the San Gabriel River and the Rio

Hondo, is from the mountains in the north to Whittier Narrows in the southwest. In similar fashion, the primary direction of groundwater movement in the Main Basin is from the north to the southwest, with contributing movement generally from the east and west toward the center of the Main Basin as shown on Plate 3. The greatest infiltration and transmissivity rates of soils in the Main Basin are from north to south, with the maximum rates found in the center of the San Gabriel Valley along the stream channels. Generally, the Main Basin directs groundwater to the southwest through Whittier Narrows.

WATER QUALITY MONITORING

As detailed in Chapter 4.2.1.1, the Main Basin Watermaster prepares and annually updates the Five-Year Water Quality and Supply Plan that discusses water quality management in the Main Basin.

4.2.3 LOCATION, AMOUNT AND SUFFICIENCY OF GROUNDWATER PUMPED FOR THE PAST FIVE YEARS

Section 10631(b)(3)

A detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

CIC currently has three active wells (Baldwin Park Wells No. 1, No. 2, and No. 3) which are all located in the Main Basin. CIC's past groundwater supply pumped from the Main Basin over the past five years is shown on Table 6.

CIC provides wholesale water to its retail water suppliers. Each of these retail water suppliers has its own sources of water supply in addition to water purchased from CIC. Sales of CIC water are made with the understanding the supply is interruptible. Therefore, a description of the sufficiency of groundwater pumped for the past five years is not applicable.

4.2.4 LOCATION AND AMOUNT OF GROUNDWATER PROJECTED TO BE PUMPED

Section 10631(b)(4)

A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

The groundwater projected to be pumped by CIC from the Main Basin is shown on Table 6. Details on any changes or expansion planned for the groundwater supply is provided in Chapter 4.6 below.

4.3 SURFACE WATER

As indicated in Chapter 4.2.1.1, CIC has an integrated production right of 9,092.37 acre-feet consisting of a prescriptive pumping component of 6,578.37 acre-feet and a surface diversion component of 2,514 acre-feet; and a pumper's share of 3.32855 percent of the Operating Safe Yield. CIC's past, current, and projected water supply, including surface water diversion, is shown on Table 6. CIC has a share of a pre-1914 surface water diversion right that enables it to divert up to 29.349 percent of the first 135 cubic feet per second of flow at any time of the year.

CIC's integrated production right can be exercised in any proportion of its prescriptive pumping component and surface water diversion component. CIC's surface water diversion can be diverted from any of the following three locations along the San Gabriel River supply:

- San Gabriel Reservoir
- Morris Reservoir
- San Gabriel River, below Morris Reservoir.

The presence of three surface water diversion locations provides flexibility to CIC. Although San Gabriel Reservoir and Morris Reservoir are intended primarily for flood control and water conservation purposes, historically, CIC has been provided the courtesy of storing a portion of the San Gabriel River runoff for use during the summer and fall of each year when surface runoff often is lowest. Consequently, in most instances, including during drought years, there is water stored in the San Gabriel Reservoir and Morris Reservoir that is available for surface diversion.

4.4 TRANSFER OPPORTUNITIES

Section 10631(d)

Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.

4.4.1 SHORT-TERM

CIC has no opportunity for short-term water exchanges. CIC's water supply is provided on a wholesale basis to meet only a portion of the needs of its retail water suppliers, with the understanding the supply is interruptible.

4.4.2 LONG-TERM

CIC has no opportunity for long-term water exchanges. CIC's water supply is provided on a wholesale basis to meet only a portion of the needs of its retail water suppliers, with the understanding the supply is interruptible.

4.5 DESALINATED WATER OPPORTUNITIES

Section 10631(i)

Describe the opportunities for development of desalinated water, including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.

CIC produces all of its groundwater from the Main Basin. The Total Dissolved Solids (TDS), or salt content, of the groundwater from CIC's wells ranges from about 240 milligrams per liter (mg/l) to about 420 mg/l, based on water quality data collected since 2005. The California Department of Public Health (CDPH) recommended level is 500 mg/l and water can be provided for long-term domestic use with TDS concentrations of up to 1,000 mg/l. Due to the low TDS concentration of the groundwater, CIC does not need to investigate the use of desalination as part of its long-term groundwater supply. However, there may be opportunities for use of desalinated ocean water as a potential water supply source in the future, through coordination with other agencies that have ocean desalination programs.

4.6 RECYCLED WATER OPPORTUNITIES

4.6.1 RECYCLED WATER AND POTENTIAL FOR USE

Section 10633

The plan shall provide, to the extent available, information on recycled water and its potential for use as a water source in the service area of the urban water supplier. The preparation of the plan shall be coordinated with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area, and shall include all of the following:

As a wholesale water supplier, CIC does not have any mechanism to provide recycled water at the retail level. CIC's retail water suppliers' potential use of recycled water as a water source in their service areas are described in their respective Plans. Upper District is investigating the possibility of a recycled water project for groundwater replenishment of the Main Basin.

4.6.2 WASTEWATER COLLECTION, TREATMENT, AND DISPOSAL

Section 10633
(a) A description of the wastewater collection and treatment systems in the supplier's service area, including a quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.
(b) A description of the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.

A description of the wastewater collection and treatment systems in the supplier's service area at the retail level is discussed in CIC's retail water suppliers' individual Plans. However, based on the County Sanitation Districts of Los Angeles County's (CSD) Final Joint Outfall System 2010 Master Facilities Plan[9] (Figure 5.2-2: Joint Outfall System Treatment Plant Drainage Areas), the service areas of CIC's retail water suppliers appear to be located within the drainage area of CSD's San Jose Creek Water Reclamation Plant (SJCWRP).

4.6.2.1 SAN JOSE CREEK WATER RECLAMATION PLANT

The SJCWRP is located at 1965 Workman Mill Road, in unincorporated Los Angeles County, next to the City of Whittier. The SJCWRP, which began operation in 1971, currently has a treatment capacity of about 100 million gallons per day (MGD). The treatment level is coagulation, filtration and disinfection tertiary effluent. The SJCWRP has room for an expansion of an additional 25 MGD, although there is no schedule for such an expansion. The SJCWRP plant serves a population of approximately 1 million people, largely a residential population. The SJCWRP produced 71.05 MGD (79,615 acre-feet per year) of coagulated, filtered, disinfected tertiary recycled water in fiscal year 2008-09. The volume of wastewater collected and treated is shown on Table 7. An average of 26.23 MGD (29,392 acre-feet per year), or 36.9 percent of the recycled water produced during fiscal year 2008-09 at the SJCWRP was re-used for landscape irrigation, agricultural irrigation, industrial use, impoundment, and groundwater replenishment. The method of disposal when treated recycled water is not used (non-recycled) is discharge to the San Gabriel River/Rio Hondo and eventually flows to the ocean (see Table 8).

4.6.3 CURRENT RECYCLED WATER USE

Section 10633
(c) A description of the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use

[9] County Sanitation Districts of Los Angeles County, 1995. *Final Joint Outfall System 2010 Master Facilities Plan*. June 1995.

As a wholesale water supplier, CIC does not have any mechanism to provide recycled water at the retail level. A description of the recycled water currently being used in CIC's retail water suppliers' service areas is provided in their respective Plans.

4.6.4 POTENTIAL USES OF RECYCLED WATER

Section 10633

(d) A description and quantification of the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, indirect potable reuse, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.

As a wholesale water supplier, CIC does not have any mechanism to provide recycled water at the retail level. A description and quantification of the potential uses of recycled water at the retail level are provided in CIC's retail water suppliers' Plans.

Upper District is investigating the possibility of a recycled water project for groundwater replenishment of the Main Basin.

4.6.5 PROJECTED RECYCLED WATER USE

Section 10633

(e) The projected use of recycled water within the supplier's service area at the end of 5, 10, 15 and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected pursuant to this subdivision

As a wholesale water supplier, CIC does not have any mechanism to provide recycled water at the retail level. CIC's retail water suppliers' Plans will provide the projected use of recycled water within their service area, and a description of the actual use of recycled water in comparison to uses previously projected.

4.6.6 ENCOURAGING USE OF RECYCLED WATER

Section 10633

(f) A description of actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these actions in terms of acre-feet of recycled water used per year.

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC and have alternative sources of supply that can meet long-term water demands as described in their respective Plans. Potential use of recycled water

at the retail level is discussed in CIC's retail water suppliers' individual Plans. As a wholesale water supplier, CIC encourages the use of recycled water at the retail level but does not have a mechanism to implement recycled water use at the retail level.

4.6.7 PLAN FOR OPTIMIZING USE OF RECYCLED WATER

Section 10633
(g) A plan for optimizing the use of recycled water in the supplier's service area, including actions to facilitate the installation of dual distribution systems, to promote recirculating uses, to facilitate the increased use of treated wastewater that meets recycled water standards, and to overcome any obstacles to achieving that increased use.

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC and have alternative sources of supply that can meet long-term water demands as described in their respective Plans. Optimization of the use of recycled water at the retail level is discussed in CIC's retail water suppliers' individual Plans. As a wholesale water supplier, CIC encourages the optimization of the use of recycled water at the retail level but does not have a mechanism to optimize the use of recycled water at the retail level.

4.7 FUTURE WATER PROJECTS

Section 10631
(h) Include a description of all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water uses as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs, other than the demand management programs identified pursuant to paragraph (1) of subdivision (f), that the urban water supplier may implement to increase the amount of water supply available to the urban water supplier in average, single-dry, and multiple-dry water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.

The following is a list of the CIC's future water supply projects:

- **Improvements to Temple Treatment Plant**. The Temple Treatment Plant is a conventional surface water treatment plant that treats surface water diversion from San Gabriel River. The current treatment technology employed at the treatment plant will not be able to meet the upcoming CDPH Stage 2 Disinfection Byproducts Rule (draft Rule dated September 13, 2010). This project would provide the addition of Ultra-Violet Light (UV)/Chloramination equipment to control disinfection byproduct (DBP)

formation and prevent pathogen contamination of finished drinking water, thus allowing CIC to comply with the upcoming CDPH Stage 2 Disinfection Byproducts Rule. Therefore, this project would allow CIC to maintain future use of this surface water diversion source from the San Gabriel River.

- **Installation of Perchlorate and Nitrate Treatment System**. CIC plans to install a single-pass ion exchange treatment system that is capable of treating perchlorate and nitrate. The planned ion exchange treatment system would be capable of treating groundwater from all three wells, with a planned maximum capacity of about 6,600 gpm. Therefore, this project would allow CIC to maintain the reliability of its groundwater supply.
- **Rehabilitation of Baldwin Park Well No. 1**. This well was constructed in 1910 and has not been rehabilitated for at least 35 years. Rehabilitation of this well would improve its productivity and allow for provision to discharge directly to the storm drain when needed.
- **Rehabilitation of Baldwin Park Well No. 2**. This well was constructed in 1911 and has not been rehabilitated for at least 35 years. Rehabilitation of this well would improve its productivity and allow for provision to discharge directly to the storm drain when needed.
- **Rehabilitation of Baldwin Park Reservoir**. This reservoir was constructed in 1910. During the last 35 years, the floor and walls were partially rehabilitated in 2007. Rehabilitation of this reservoir would extend the life of the reservoir and improve water supply reliability.
- **Rehabilitation of Contract Well and Incorporation of Treatment**. Historically, this well has consistently high nitrate concentrations. Rehabilitating this well and providing treatment would provide an additional source of water supply for CIC.
- **Replacement of Grand Avenue Pipeline**. This pipeline is located under a virtually inaccessible location, making past leak repairs difficult. This project would improve the reliability of the supply by relocating the pipeline to a more accessible location within the public right of way.
- **Rehabilitation of San Bernardino Road Pipeline**. This project would improve water supply reliability.
- **Installation of Pressure Relief Valve on San Bernardino Road Pipeline**. A pressure relief mechanism at the west end of the system, where pressure could exceed 120 pounds per square inch, would improve water supply reliability by eliminating leaks at the west end of the system through routing of excess flow back into the Baldwin Park Reservoir.

CIC does not have a timeline for these projects at this time.

Chapter 5
WATER SUPPLY RELIABILITY AND WATER SHORTAGE CONTINGENCY PLANNING

5.1 WATER SUPPLY RELIABILITY

5.1.1 WATER MANAGEMENT TOOLS

Section 10620(f)

An urban water supplier shall describe in the plan water management tools and options used by that entity that will maximize resources and minimize the need to import water from other regions.

This Plan describes water management tools and options used by CIC to maximize local resources and minimize the need to import water. These include Groundwater Basin Management Structure (Chapter 4.2), Future Water Projects (Chapter 4.6), and Demand Management Measures (DMMs) (Chapter 6).

5.1.2 SUPPLY INCONSISTENCY

Section 10631(c)(2)

For any water source that may not be available at a consistent level of use, given specific legal, environmental, water quality, or climatic factors, describe plans to supplement or replace that source with alternative sources or water demand management measures, to the extent practicable.

The reliability of the water supply (surface water diversion and groundwater) for CIC is primarily dependent upon the management of the Main Basin, and if CIC's annual right in the Main Basin is exceeded, the availability of imported water which is Supplemental Water used to replace the annual extraction in excess of the annual right. The management of the Main Basin is based on its adjudication, which is described in Chapter 4.2. The reliability of imported water supplies is included in Upper District's Plan. As a result of the Main Basin management, CIC has not experienced water supply deficiencies.

5.2 WATER SHORTAGE CONTINGENCY PLANNING

5.2.1 CATASTROPIC INTERRUPTION OF WATER SUPPLIES

Section 10632

(c) Actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including, but not limited to, a regional power outage, an earthquake, or other disaster.

In 2004, CIC prepared an Emergency Response Plan, which describes the actions the company will take during a catastrophic interruption of water supplies, including a regional power outage, earthquakes, and other natural or man-made disasters.

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources of supply that can meet long-term water demands as described in their respective Plans.

Because CIC's retail water suppliers are not entirely dependent on CIC for their sources of supply, any interruption to CIC's supply, for example, as a result of an earthquake or regional power outage, should not affect CIC's retail water suppliers.

5.2.2 MANDATORY PROHIBITIONS

Section 10632
(d) Additional, mandatory prohibitions against specific water use practices during water shortages, including, but not limited to, prohibiting the use of potable water for street cleaning.

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources of supply that can meet long-term water demands as described in their respective Plans. CIC's retail water suppliers' water shortage contingency analysis that includes mandatory prohibitions during water shortages is described in their respective Plans. As a wholesale water supplier, CIC encourages mandatory prohibitions during water shortages at the retail level but does not have a mechanism to implement mandatory prohibitions.

5.2.3 CONSUMPTION REDUCTION METHODS

Section 10632
(e) Consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources

of supply that can meet long-term water demands as described in their respective Plans. CIC's retail water suppliers' water shortage contingency analysis, which includes consumption reduction methods during water shortages, is described in their respective Plans. As a wholesale water supplier, CIC encourages the use of consumption reduction methods during water shortages at the retail level but does not have a mechanism to implement these consumption reduction methods.

5.2.4 PENALTIES OR CHARGES FOR EXCESSIVE USE

Section 10632
(f) Penalties or charges for excessive use, where applicable.

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources of supply that can meet long-term water demands as described in their respective Plans. CIC's retail water suppliers' water shortage contingency analysis, which includes penalties and charges for excessive use during water shortages, is described in their respective Plans. As a wholesale water supplier, CIC encourages the imposition of penalties and charges for excessive water use during water shortages at the retail level but does not have a mechanism to implement these penalties or charges.

5.2.5 REVENUE AND EXPENDITURE IMPACTS

Section 10632
(g) An analysis of the impacts of each of the actions and conditions described in subdivisions (a) to (f), inclusive, on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources of supply that can meet long-term water demands as described in their respective Plans.

As a wholesale water supplier, CIC is not able to analyze the impacts of each of the actions and conditions described in Section 10632(a) to (f) of the California Water Code, on the revenues and expenditures at the retail level. Any impact of revenue and expenditure experienced by CIC during water shortages should not impact its retail water suppliers. An analysis of the impacts of each of the actions and conditions described in Section 10632(a) to (f) of the California Water Code on the revenues and expenditures at the retail level are described in CIC's retail water suppliers' Plans.

5.2.6 DRAFT WATER SHORTAGE CONTINGENCY RESOLUTION OR ORDINANCE

Section 10632
(h) A draft water shortage contingency resolution or ordinance.

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources of supply that can meet long-term water demands as described in their respective Plans. A draft water shortage contingency resolution or ordinance for use at the retail level is described in CIC's retail water suppliers' Plans. As a wholesale water supplier, CIC encourages the drafting of a water shortage contingency resolution or ordinance at the retail level but does not have a mechanism to implement a water shortage contingency resolution or ordinance.

5.3 WATER QUALITY

Section 10634
The plan shall include information, to the extent practicable, relating to the quality of existing sources of water available to the supplier over the same five-year increments as described in subdivision (a) of Section 10631, and the manner in which water quality affects water management strategies and supply reliability.

5.3.1 SURFACE WATER DIVERSION

As indicated in Chapter 4.6 above, the current treatment technology employed for processing surface water diversion at the Temple Treatment Plant may not be able to meet the upcoming CDPH Stage 2 Disinfection Byproducts Rule. However, CIC plans to implement improvements to the existing filtration facility to comply with the upcoming CDPH Stage 2 Disinfection Byproducts Rule. Therefore, CIC should be able to use this surface water as a supply source over the next 20 years.

CIC prepares and submits a Surface Water Treatment Watershed Sanitary Survey (WSS) of the San Gabriel River Watershed to CDPH every five years to comply with the California Surface Water Treatment Rule (SWTR). CIC uses the information from the WSS update to determine the potential for surface water contamination and appropriate water treatment necessary to meet CDPH drinking water standards.

The 2010 WSS update noted compliance with the SWTR. No VOCs or synthetic organic compounds (SOCs) were detected in the raw water between 2005 and 2009. Radionuclides and inorganic chemicals are detected below all MCLs.

5.3.2 GROUNDWATER

Trichloroethylene (TCE) was detected above the MCL of 5 μg/l in 1980 in Baldwin Park Wells No. 1, No. 2, and No. 3; and in 1985 in Baldwin Park Well No. 3. Tetrachloroethylene (PCE) was detected above the MCL of 5 μg/l in 1980 in Baldwin Park Wells No. 1, No. 2; and in 1985 in Baldwin Park Well No. 3. Carbon tetrachloride (CTC) and 1,2-dichloroethane (1,2-DCA) were detected above their MCLs of 0.5 μg/l in 1985 in Baldwin Park Well No. 3. However, none of these VOCs has been detected above the MCL for over ten years.

Perchlorate was recently detected above the MCL in Baldwin Park Well No. 2 in April 2010. Perchlorate has been detected below the MCL in Baldwin Park Wells No. 1 and No. 3. CIC has a CDPH-approved blending plan for perchlorate. In addition, as indicated in Chapter 4.6, CIC is planning to install a single-pass ion exchange treatment system for the treatment of perchlorate in the groundwater.

Nitrate has been detected above the MCL in Baldwin Park Wells No. 2 and No. 3. CIC has a CDPH-approved blending plan for nitrate. In addition, as indicated in Chapter 4.6, CIC is planning to install a single-pass ion exchange treatment system for the treatment of nitrate in the groundwater.

Therefore, CIC will be able to use groundwater as a supply source over the next 20 years.

5.4 DROUGHT PLANNING

5.4.1 RELIABILITY OF SUPPLY AND VULNERABILITY TO SEASONAL OR CLIMATIC SHORTAGE

Section 10631(c)(1)

Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage, to the extent practicable, and provide data for each of the following:

(A) An average water year.

(B) A single dry water year.

(C) Multiple dry water years.

As indicated in Chapter 4.3, CIC's integrated production right can be exercised in any proportion of its prescriptive pumping component and surface water diversion component. Therefore, if necessary, CIC can exercise its integrated production right entirely from its prescriptive pumping component. In addition, in most instances, including during drought years, there is water stored in the San Gabriel Reservoir and Morris Reservoir that is available for surface diversion. During a normal year, which is represented by 2005-06, CIC obtained about 52 percent of its total supply from surface water diversion (see Tables 6 and 9). During a single-dry year which is represented by

2006-07, CIC obtained about 48 percent of its total water supply from surface water diversion. During multiple dry years, which are represented by 2006-07 through 2008-09, CIC obtained about 48 percent to 61 percent of its total water supply from surface water diversion. Therefore, a dry year or multiple dry years did not compromise CIC's ability to provide a reliable supply of surface water diversion.

Information regarding the reliability of the groundwater supply from the Main Basin is based on the 105-year rainfall data for the Pasadena Powerhouse Station (Table 2), and past data on the availability of water supply to meet demands during seasonal or climatic shortage. Table 2 summarizes the rainfall at the Pasadena Powerhouse Station from 1905-06 through 2009-10. According to the rainfall data for the Pasadena Powerhouse Station, the annual average rainfall is 22.98 inches. Therefore, 2005-06 represents an average water year for CIC in which the total amount of rainfall was about 22.80 inches. A single dry year for CIC was represented in 2006-07 in which the total amount of rainfall was about 8.30 inches. A multiple dry year sequence for CIC is represented from 2006-07 to 2008-09, where the total amount of rainfall was about 8.30 inches, 24.64 inches, and 15.84 inches, respectively. Table 9 shows production during an average year, single dry year and multiple dry years. A dry year or multiple dry years did not compromise CIC's ability to provide a reliable supply of water to its customers.

Therefore, based on the availability of water from the San Gabriel Reservoir and Morris Reservoir for surface water diversion; current management practices in the Main Basin; and the reliability of the imported water supply from Upper District to recharge the Main Basin, the minimum water supplies available at the end of an average water year, a single dry year, and multiple dry years would be at least equal if not greater than the CIC's water demand. It should be noted that CIC's water supply is provided on a wholesale basis to meet only a portion of the needs of its retail water suppliers, with the understanding the supply is interruptible.

5.4.2 STAGES OF ACTION IN RESPONSE TO WATER SUPPLY SHORTAGES

Section 10632

(a) Stages of action to be undertaken by the urban water supplier in response to water supply shortages, including up to 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage.

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources of supply that can meet long-term water demands as described in their respective Plans. Stages of action in response to water supply shortages at the retail level are described in CIC's retail water suppliers' Plans. As a wholesale water supplier, CIC encourages the implementation of stages of action in response to water supply

shortages at the retail level but does not have a mechanism to implement these stages of action.

5.4.3 THREE YEAR MINIMUM WATER SUPPLY

Section 10632
(b) An estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply.

As shown on Table 9, CIC experienced multiple dry years during fiscal years 2006-07, 2007-08 and 2008-09. The ratio between the normal water year in 2005-06 and multiple dry years were estimated for CIC's supply, as shown on Table 9. This ratio from Table 9 was used to estimate the minimum water supply available during each of the next three water years based on the driest three-year historical sequence for CIC's water supply (see Table 10).

5.4.4 WATER USE REDUCTION MEASURING MECHANISM

Section 10632
(i) A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources of supply that can meet long-term water demands as described in their respective Plans.

As a wholesale water supplier, CIC does not have any mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis at the retail level. A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis at the retail level is described in CIC's retail water suppliers' Plans.

5.4.5 ASSESSMENT OF THE RELIABILITY OF WATER SERVICE

Section 10635
(a) Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry years. This water supply and demand assessment shall compare the total water supply sources available to the water supplier with the total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry year water year, and multiple dry water years. The water service reliability assessment shall be based upon the information compiled pursuant

to Section 10631, including available data from state, regional, or local agency population projections within the service area of the urban water supplier.

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources of supply that can meet long-term water demands as described in their respective Plans. An assessment of the reliability of the water service to customers at the retail level during a normal, dry, and multiple dry years is described in CIC's retail water suppliers' Plans.

CIC will continue to use surface water diversion and groundwater as its future water supplies over the next 20 years. The following chapters discuss CIC's water service reliability assessment at the wholesale level, which compares CIC's supply and demand over the next 20 years during normal, dry and multiple dry years.

5.4.5.1 NORMAL WATER YEAR

CIC's water supply is provided on a wholesale basis to meet only a portion of the needs of its retail water suppliers, with the understanding the supply is interruptible. CIC's projected supply was based on the projected demand, as shown on Table 6. The comparison of CIC's projected supply and demand during a normal water year is shown on Table 11. As shown on Table 11, CIC's supply can meet demands during a normal water year for the next 20 years.

5.4.5.2 SINGLE-DRY YEAR

CIC's water supply is provided on a wholesale basis to meet only a portion of the needs of its retail water suppliers, with the understanding the supply is interruptible. As shown on Table 9, CIC experienced a single-dry year during fiscal year 2006-07 and a normal water year during fiscal year 2005-06. The ratio between the normal water year and single-dry year was estimated for CIC's supply and demand, as shown on Table 9. This ratio and the projected supply and demand during a normal water year from Table 11 was used to estimate CIC's projected supply and demand during a single-dry year over the next 20 years in five-year increments. The comparison of CIC's projected supply and demand during a single-dry year is shown on Table 12. As shown on Table 12, CIC's supply can meet demands during a single-dry year for the next 20 years.

5.4.5.3 MULTIPLE DRY YEARS

CIC's water supply is provided on a wholesale basis to meet only a portion of the needs of its retail water suppliers, with the understanding the supply is interruptible. As shown on Table 9, CIC experienced multiple dry years during fiscal years 2006-07,

2007-08 and 2008-09. The ratio between the normal water year in 2005-06 and multiple dry years were estimated for CIC's supply and demand, as shown on Table 9. This ratio and the projected supply and demand during a normal water year from Table 11 was used to estimate CIC's projected supply and demand during multiple dry years over the next 20 years in five-year increments. The comparison of CIC's projected supply and demand during multiple dry years is shown on Table 13. As shown on Table 13, CIC's supply can meet demands during multiple dry years for the next 20 years.

Chapter 6
DEMAND MANAGEMENT MEASURES

CIC is a wholesale water supplier that provides groundwater, pumped from the Main Basin, and surface water diversion from San Gabriel River to its retail water suppliers. **Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources of supply that can meet long-term water demands as described in their respective Plans.**

6.1 BEST MANAGEMENT PRACTICES REPORTS

Section 10631(j)

For purposes of this part, urban water suppliers that are members of the California Urban Water Conservation Council shall be deemed in compliance with the requirements of subdivisions (f) and (g) by complying with all the provisions of the "Memorandum of Understanding Regarding Urban Water Conservation in California," dated December 10, 2008, as it may be amended, and by submitting the annual reports required by Section 6.2 of that memorandum.

CIC is not a member of the California Urban Water Conservation Council (CUWCC). Therefore, this requirement is not applicable to CIC.

6.2 DEMAND MANAGEMENT MEASURES BEING IMPLEMENTED

Section 10631

(f) Provide a description of the supplier's water demand management measures. This description shall include all of the following:

(1) A description of each water demand management measure that is currently being implemented, or scheduled for implementation, including the steps necessary to implement any proposed measures, including, but not limited to, all of the following:

(A) Water survey programs for single-family residential and multifamily residential customers.
(B) Residential plumbing retrofit.
(C) System water audits, leak detection, and repair.
(D) Metering with commodity rates for all new connections and retrofit of existing connections.
(E) Large landscape conservation programs and incentives.
(F) High-efficiency washing machine rebate programs.
(G) Public information programs.
(H) School education programs.
(I) Conservation programs for commercial, industrial, and institutional accounts.
(J) Wholesale agency programs.
(K) Conservation pricing.
(L) Water conservation coordinator.
(M) Water waste prohibition.

(N) Residential ultra-low-flush toilet replacement programs.

(2) A schedule of implementation for all water demand management measures proposed or described in the plan.

(3) A description of the methods, if any, that the supplier will use to evaluate the effectiveness of water demand management measures implemented or described under the plan.

(4) An estimate, if available, of existing conservation savings on water use within the supplier's service area, and the effect of the savings on the supplier's ability to further reduce demand.

CIC's water supply is provided to meet only a portion of the needs of its retail water suppliers, with the understanding the supply is interruptible. Therefore, CIC is not in a position to directly influence water conservation at the retail level. Water conservation at the retail level is discussed in CIC's retail water suppliers' Plans. According to DWR, urban wholesale water suppliers are required to address only DMMs C, D, J, K, and L, as listed in Section 10631(f)(1) above (DWR, 2011).

6.2.1 SYSTEM WATER AUDITS, LEAK DETECTION, AND REPAIR [10631(F)(1)(**C**)]

CIC wholesales water to retail water suppliers that in turn provide water to retail customers. Implementation of this DMM is discussed in individual Plans prepared by CIC's retail water suppliers that obtain a portion of their potable water from CIC. However, as a wholesale water supplier and a producer in the Main Basin, CIC maintains records of water produced and water sold. The program started in 2005. Production reports are prepared weekly to compare water produced and sold. The production meters are tested every two years in accordance with the Main Basin Watermaster requirements. The meters for deliveries to the retailers are tested every five years or as needed. Differences in excess of about 10 percent will cause CIC to investigate and correct problems regarding unaccounted water.

No evaluation of the effectiveness of this DMM has been performed, and no estimate of water savings has been made.

6.2.2 METERING WITH COMMODITY RATES FOR ALL NEW CONNECTIONS AND RETROFIT OF EXISTING CONNECTIONS [10631(F)(1)(**D**)]

CIC wholesales water to retail water suppliers that in turn provide water to retail customers. Implementation of this DMM is discussed in individual Plans prepared by CIC's retail water suppliers that obtain a portion of their potable water from CIC. However, as a wholesale water supplier, CIC meters all sales to its retail water suppliers. The program started over 30 years ago. CIC has adopted a rate schedule that is included in Appendix K.

No evaluation of the effectiveness of this DMM has been performed, and no estimate of water savings has been made.

6.2.3 WHOLESALE AGENCY PROGRAMS [10631(F)(1)(**J**)]

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources of supply that can meet long-term water demands as described in their respective Plans.

CIC is not in a position to directly influence water conservation at the retail level. As indicated above, CIC is a member agency of TVMWD and Upper District. CIC's retail water suppliers are member agencies of either TVMWD or Upper District, or both, and can participate in water conservation programs offered by TVMWD or Upper District. TVMWD's and Upper District's wholesale agency programs are available to customers of CIC's retail water suppliers. TVMWD implements this DMM by providing financial incentives (or equivalent resources) to customers of CIC's retail water suppliers, offering workshops for retail water suppliers pertaining to water conservation, and making available the necessary staff or other resources to respond to retail water suppliers' needs for assistance. Upper District participates in wholesale agency programs that provide financial incentives for water conservation, technical support through workshops, and available staff for water conservation projects. Information on TVMWD's and Upper District's wholesale agency programs is provided in their respective Plans, which is incorporated by reference in this Plan.

No evaluation of the effectiveness of this DMM has been performed, and no estimate of water savings has been made.

6.2.4 CONSERVATION PRICING [10631(F)(1)(**K**)]

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources of supply that can meet long-term water demands as described in their respective Plans.

CIC is not in a position to directly influence water conservation at the retail level. Both TVMWD and Upper District implement conservation pricing structures that encourage their member agencies, which include CIC's retail water suppliers, to conserve water. Information on TVMWD's and Upper District's implementation of conservation pricing is provided in their respective Plans, which is incorporated by reference in this Plan.

No evaluation of the effectiveness of this DMM has been performed, and no estimate of water savings has been made.

6.2.5 WATER CONSERVATION COORDINATOR [10631(F)(1)(**L**)]

Sales of CIC water to its retail water suppliers are made with the understanding the supply is interruptible. These retail water suppliers obtain a portion of their potable water supply from CIC, and each of these retail water suppliers have alternative sources of supply that can meet long-term water demands as described in their respective Plans. CIC is not in a position to directly influence water conservation at the retail level. Implementation of this DMM is discussed in individual Plans prepared by CIC's retail water suppliers that obtain a portion of their potable water from CIC.

CIC's Field Operations Superintendent serves as a part-time water conservation coordinator at the wholesale level. The program started in 2005. The water conservation coordinator is responsible for coordinating all water conservation efforts for CIC.

No evaluation of the effectiveness of this DMM has been performed, and no estimate of water savings has been made.

6.3 DEMAND MANAGEMENT MEASURES NOT IMPLEMENTED

Section 10631

(g) An evaluation of each water demand management measure listed in paragraph (1) of subdivision (f) that is not currently being implemented or scheduled for implementation. In the course of the evaluation, first consideration shall be given to water demand management measures, or combination of measures, that offer lower incremental costs than expanded or additional water supplies. This evaluation shall do all of the following:

(1) Take into account economic and non-economic factors, including environmental, social, health, customer impact, and technological factors.

(2) Include a cost-benefit analysis, identifying total benefits and total costs.

(3) Include a description of funding available to implement any planned water supply project that would provide water at a higher unit cost.

(4) Include a description of the water supplier's legal authority to implement the measure and efforts to work with other relevant agencies to ensure the implementation of the measure and to share the cost of implementation.

6.3.1 WATER SURVEY PROGRAMS FOR SINGLE-FAMILY RESIDENTIAL AND MULTIFAMILY RESIDENTIAL CUSTOMERS [10631(F)(1)(**A**)]

CIC is a wholesale urban water supplier. According to DWR, this DMM is not applicable to a wholesale urban water supplier.

6.3.2 RESIDENTIAL PLUMBING RETROFIT [10631(F)(1)(**B**)]

CIC is a wholesale urban water supplier. According to DWR, this DMM is not applicable to a wholesale urban water supplier.

6.3.3 LARGE LANDSCAPE CONSERVATION PROGRAMS AND INCENTIVES [10631(F)(1)(**E**)]

CIC is a wholesale urban water supplier. According to DWR, this DMM is not applicable to a wholesale urban water supplier.

6.3.4 HIGH-EFFICIENCY WASHING MACHINE REBATE PROGRAMS [10631(F)(1)(**F**)]

CIC is a wholesale urban water supplier. According to DWR, this DMM is not applicable to a wholesale urban water supplier.

6.3.5 PUBLIC INFORMATION PROGRAMS [10631(F)(1)(**G**)]

CIC is a wholesale urban water supplier. According to DWR, this DMM is not applicable to a wholesale urban water supplier.

6.3.6 SCHOOL EDUCATION PROGRAMS [10631(F)(1)(**H**)]

CIC is a wholesale urban water supplier. According to DWR, this DMM is not applicable to a wholesale urban water supplier.

6.3.7 CONSERVATION PROGRAMS FOR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL ACCOUNTS [10631(F)(1)(**I**)]

CIC is a wholesale urban water supplier. According to DWR, this DMM is not applicable to a wholesale urban water supplier.

6.3.8 WATER WASTE PROHIBITION [10631(F)(1)(**M**)]

CIC is a wholesale urban water supplier. According to DWR, this DMM is not applicable to a wholesale urban water supplier.

6.3.9 RESIDENTIAL ULTRA-LOW FLUSH TOILET REPLACEMENT PROGRAMS [10631(F)(1)(**N**)]

CIC is a wholesale urban water supplier. According to DWR, this DMM is not applicable to a wholesale urban water supplier.

Chapter 7
COMPLETED URBAN WATER MANAGEMENT CHECKLIST

A completed Plan checklist, with page information indicating where the required element can be found within the Plan, is provided in Appendix L.

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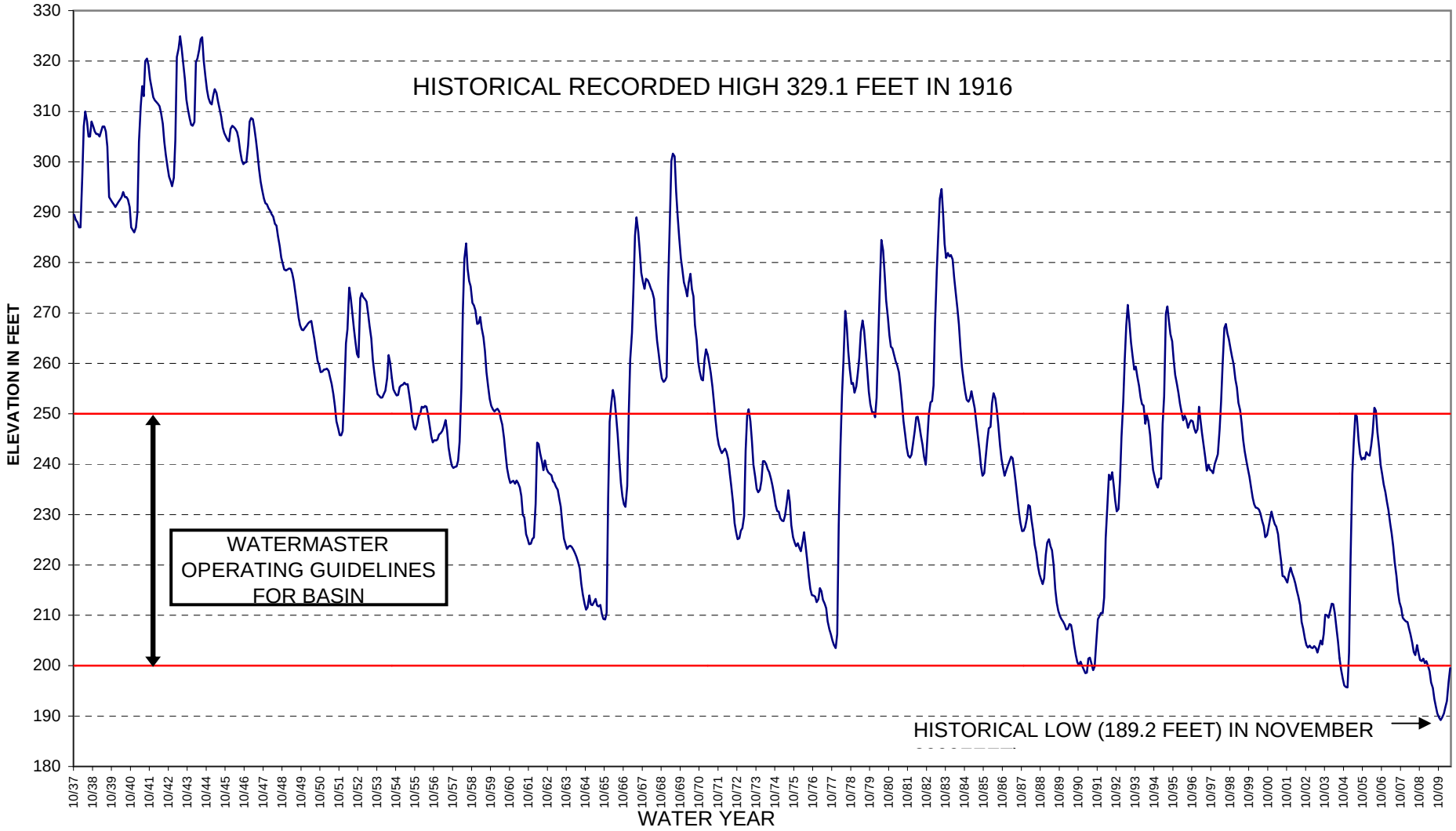
FIGURES



STETSON ENGINEERS INC.

Covina, California

WATER RESOURCE ENGINEERS

COVINA IRRIGATING COMPANY

HISTORICAL BALDWIN PARK KEY WELL ELEVATION

FIGURE 1

J:\Jobs\2118\003\2010 UWMP\Figures\Figure 1_ Key Well Elevation.xls

TABLES

TABLE 1
COORDINATION WITH APPROPRIATE AGENCIES

Agencies	Participated in Developing the Plan	Commented on the Draft	Attended Public Meetings	Was Contacted for Assistance	Was Sent a Copy of the Draft Plan	Was Sent a Notice of Intent to Adopt	Not Involved/ No Information
1. City of Azusa					x	x	
2. City of Baldwin Park					x	x	
3. City of Covina					x	x	
4. City of Glendora					x	x	
5. City of Industry					x	x	
6. City of Irwindale					x	x	
7. City of La Puente					x	x	
8. City of La Verne					x	x	
9. City of San Dimas					x	x	
10. City of Walnut					x	x	
11. City of West Covina					x	x	
12. Golden State Water Company					x	x	
13. Suburban Water Systems					x	x	
14. Valencia Heights Water Company					x	x	
15. Valley County Water District					x	x	
16. County of Los Angeles					x	x	
17. Main San Gabriel Basin Watermaster					x	x	
18. Three Valleys Municipal Water District					x	x	
19. Upper San Gabriel Valley Municipal Water District					x	x	

TABLE 2
ANNUAL RAINFALL AT PASADENA POWERHOUSE STATION
FROM 1905-06 THROUGH 2009-10*

FISCAL YEAR	RAINFALL IN INCHES
09/10	24.95
08/09	15.84
07/08	24.64
06/07	8.30
05/06	22.80
04/05	56.03
03/04	13.41
02/03	25.28
01/02	8.78
00/01	19.65
99/00	18.14
98/99	11.15
97/98	44.23
96/97	25.32
95/96	22.69
94/95	42.72
93/94	13.77
92/93	48.91
91/92	27.16
90/91	21.14
89/90	12.86
88/89	18.02
87/88	21.25
86/87	10.42
85/86	27.46
84/85	18.55
83/84	11.84
82/83	49.89
81/82	26.38
80/81	12.28
79/80	44.83
78/79	26.24
77/78	50.92
76/77	16.55
75/76	15.31
74/75	18.03
73/74	21.00
72/73	29.16
71/72	10.27
70/71	16.54
69/70	16.63
68/69	45.46
67/68	14.87
66/67	34.99
65/66	25.71
64/65	19.90

TABLE 2
ANNUAL RAINFALL AT PASADENA POWERHOUSE STATION
FROM 1905-06 THROUGH 2009-10*

FISCAL YEAR	RAINFALL IN INCHES
63/64	13.79
62/63	15.94
61/62	27.70
60/61	8.53
59/60	13.36
58/59	11.97
57/58	33.44
56/57	16.85
55/56	20.77
54/55	15.47
53/54	19.69
52/53	13.14
51/52	36.05
50/51	12.71
49/50	16.39
48/49	14.25
47/48	10.59
46/47	20.26
45/46	20.36
44/45	20.92
43/44	25.61
42/43	34.43
41/42	16.07
40/41	44.89
39/40	18.40
38/39	25.17
37/38	34.96
36/37	34.30
35/36	20.08
34/35	29.12
33/34	24.49
32/33	14.65
31/32	25.38
30/31	17.30
29/30	18.23
28/29	18.07
27/28	16.34
26/27	26.83
25/26	23.29
24/25	14.70
23/24	11.66
22/23	18.64
21/22	30.36
20/21	24.67
19/20	23.03
18/19	16.73

TABLE 2
ANNUAL RAINFALL AT PASADENA POWERHOUSE STATION
FROM 1905-06 THROUGH 2009-10*

FISCAL YEAR	RAINFALL IN INCHES
17/18	21.16
16/17	20.00
15/16	35.00
14/15	24.22
13/14	41.36
12/13	15.38
11/12	16.68
10/11	28.12
09/10	20.71
08/09	30.66
07/08	23.15
06/07	31.46
05/06	25.29
105-YEAR AVERAGE	**22.98**

* Pasadena Powerhouse Station –
National Oceanic and Atmospheric Administration (NOAA) Station 04-7776-06

TABLE 3
CLIMATE

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
Average Rainfall (in.)	5.08	5.09	3.63	1.75	0.61	0.19	0.03	0.10	0.42	0.86	1.86	3.36	22.98
Average Temperature (^{o}F)	54	54	56	59	61	69	72	77	76	70	61	57	63.8
Evapotranspiration (in.)	2.2	2.8	4.0	5.1	5.9	6.6	7.4	6.8	5.7	4.0	2.7	1.9	55.1

Source: Rainfall data from Pasadena Powerhouse Station (National Oceanic and Atmospheric Administration [NOAA] Station 04-7776-06).
Temperature data from www.city-data.com for San Gabriel Valley. Evapotranspiration data from California Irrigation Management Information System.

TABLE 4
CURRENT AND PROJECTED POPULATION

Year	Population of Cities Included in Service Areas of Covina Irrigating Company's Retail Water Suppliers [1]												
	City of Azusa	City of Baldwin Park	City of Covina	City of Glendora	Hacienda Heights [2]	City of Industry	City of Irwindale	City of La Puente	City of La Verne	City of San Dimas	City of Walnut	City of West Covina	TOTAL
2010	49,200	82,800	50,700	53,600	63,200	800	1,800	44,900	34,200	37,500	32,400	115,300	566,400
2015	51,000	84,000	53,500	55,000	67,900	800	2,000	47,800	35,200	38,800	33,600	121,100	590,700
2020	52,400	85,400	55,600	56,400	72,700	800	2,200	50,200	36,300	42,500	34,400	127,000	615,900
2025	53,800	86,700	57,900	57,600	77,300	800	2,400	52,700	37,700	46,300	35,300	132,700	641,200
2030	55,100	88,000	60,000	58,900	81,800	800	2,600	55,000	39,100	50,000	36,200	138,300	665,800

[1] Retail Water Suppliers include City of Covina, Ciy of Glendora, Golden State Water Company, Suburban Water Systems, Valencia Heights Water Company, and Valley County Water District.

[2] Not a city; data for census designated place

Source: Southern California Association of Governments

TABLE 5
WATER DEMANDS – PAST, CURRENT AND PROJECTED
(ACRE-FEET)

Fiscal Year	Sales to Other Agencies							Unaccounted Use [1]	TOTAL DEMAND [2]
	City of Covina	City of Glendora	Golden State Water Company	Suburban Water Systems	Valencia Heights Water Company	Valley County Water District	Total Sales		
2004-05	6,991	215	325	5,107	772	1,109	14,519	76	14,595
2005-06	6,489	239	880	9,412	878	0	17,899	36	17,935
2006-07	7,594	148	599	7,127	1,025	79	16,572	75	16,647
2007-08	6,953	156	407	5,355	1,058	166	14,095	0	13,976
2008-09	6,530	211	710	4,396	1,166	175	13,187	209	13,396
2009-10	5,808	9	65	5,175	840	158	12,054	240	12,294
2014-15 [3]	5,500	10	750	4,800	750	120	11,930	93	12,023
2019-20 [3]	5,393	10	800	4,848	848	150	12,050	94	12,144
2024-25 [3]	5,447	10	800	4,896	857	180	12,191	95	12,286
2029-30 [3]	5,502	10	850	4,945	865	200	12,373	97	12,469

[1] Estimated based on total demand minus total sales
[2] See Table 6 last column; projected total demand based on projected total sales plus average unaccounted use
[3] Projected sales

TABLE 6
WATER SUPPLIES – PAST, CURRENT AND PROJECTED
(ACRE-FEET)

Fiscal Year	Supply Sources			Total
	Groundwater		Surface Water Diversion from San Gabriel River	
	Main Basin	Percent of Total Supply		
2004-05	6,842	46.9	7,752	14,595
2005-06	8,658	48.3	9,277	17,935
2006-07	8,662	52.0	7,985	16,647
2007-08	5,477	39.2	8,498	13,976
2008-09	5,263	39.3	8,133	13,396
2009-10	4,502	36.6	7,792	12,294
2014-15 (1)	5,290	44.0	6,733	12,023
2019-20 (1)	5,343	44.0	6,800	12,144
2024-25 (1)	5,406	44.0	6,880	12,286
2029-30 (1)	5,486	44.0	6,983	12,469

(1) See Table 5: projected total supply = projected total demand;
projected Main Basin supply and projected Diversion from San Gabriel River supply
based on corresponding average historical supply, which are:

Main Basin:	44 %
Diversion:	56 %
TOTAL:	100 %

TABLE 7
RECYCLED WATER – WASTEWATER COLECTION AND TREATMENT

Type of Wastewater	Wastewater Collection and Treatment (acre-feet per year)						
	1999-00	2004-05	2009-10 (1)	2014-15 (2)	2019-20 (2)	2024-25 (2)	2029-30 (2)
San Jose Creek Water Reclamation Plant							
Wastewater Collected and Treated	96,056	90,886	79,615	89,000	89,000	89,000	89,000
Volume that Meets Recycled Water Standards	96,056	90,886	79,615	89,000	89,000	89,000	89,000

(1) 2009-10 is represented by fiscal year 2008-09.
(2) Projected – based on average of 1999-00, 2004-05, and 2009-10.
Source: Sanitation Districts of Los Angeles County's fiscal year "Status Report on Recycled Water."

TABLE 8
RECYCLED WATER – NON-RECYCLED WASTEWATER DISPOSAL

Method of Disposal	Treatment Level	Volume (acre-feet)					
		2004-05	2009-10 [1]	2014-15 [2]	2019-20 [2]	2024-25 [2]	2029-30 [2]
San Jose Creek Water Reclamation Plant							
Discharge to San Gabriel River/Rio Hondo	Disinfected Tertiary	66,378	50,223	58,000	58,000	58,000	58,000

[1] 2009-10 is represented by fiscal year 2008-09.
[2] Projected – based on average of 2004-05 and 2009-10.
Source: Sanitation Districts of Los Angeles County's fiscal year "Status Report on Recycled Water."

TABLE 9
SUPPLY RELIABILITY – HISTORICAL CONDITIONS
(ACRE-FEET)

	Average/ Normal Water Year (2005-06)	Single Dry Water Year (2006-07)	Multiple Dry Water Years		
			Year 1 (2006-07)	Year 2 (2007-08)	Year 3 (2008-09)
Supply [1]	17,935	16,647	16,647	13,976	13,396
Percent of Normal Year Supply	--	92.82	92.82	77.92	74.69
Demand [2]	17,935	16,647	16,647	13,976	13,396
Percent of Normal Year Demand	--	92.82	92.82	77.92	74.69

[1] See Table 6
[2] See Table 5

TABLE 10
SUPPLY RELIABILITY – CURRENT WATER SOURCES
(ACRE-FEET)

Sources of Supply	Normal Year (2005-06[1])	Multiple Dry Years		
		Year 2011 [2]	Year 2012 [2]	Year 2013 [2]
Groundwater – Main Basin	8,658	8,662	5,477	5,263
Surface Water – San Gabriel River	9,277	7,985	8,498	8,133
Total Supply	17,935	16,647	13,976	13,396

[1] See Table 6
[2] See Table 9 for percent of normal year applicable to total supply;
percent of normal year for individual sources of supply calculated in a similar manner

TABLE 11
SUPPLY AND DEMAND COMPARISON – NORMAL YEAR
(ACRE-FEET)

	2015	2020	2025	2030
Supply Total [1]	12,023	12,144	12,286	12,469
Demand Total [2]	12,023	12,144	12,286	12,469
Difference (Supply minus Demand)	0	0	0	0
Difference as Percent of Supply	0	0	0	0
Difference as Percent of Demand	0	0	0	0

[1] See Table 6, last column
[2] See Table 5, last column

TABLE 12
SUPPLY AND DEMAND COMPARISON – SINGLE DRY YEAR
(ACRE-FEET)

	2015	2020	2025	2030
Supply Total [1]	11,160	11,272	11,404	11,574
Demand Total [2]	11,160	11,272	11,404	11,574
Difference (Supply minus Demand)	0	0	0	0
Difference as Percent of Supply	0	0	0	0
Difference as Percent of Demand	0	0	0	0

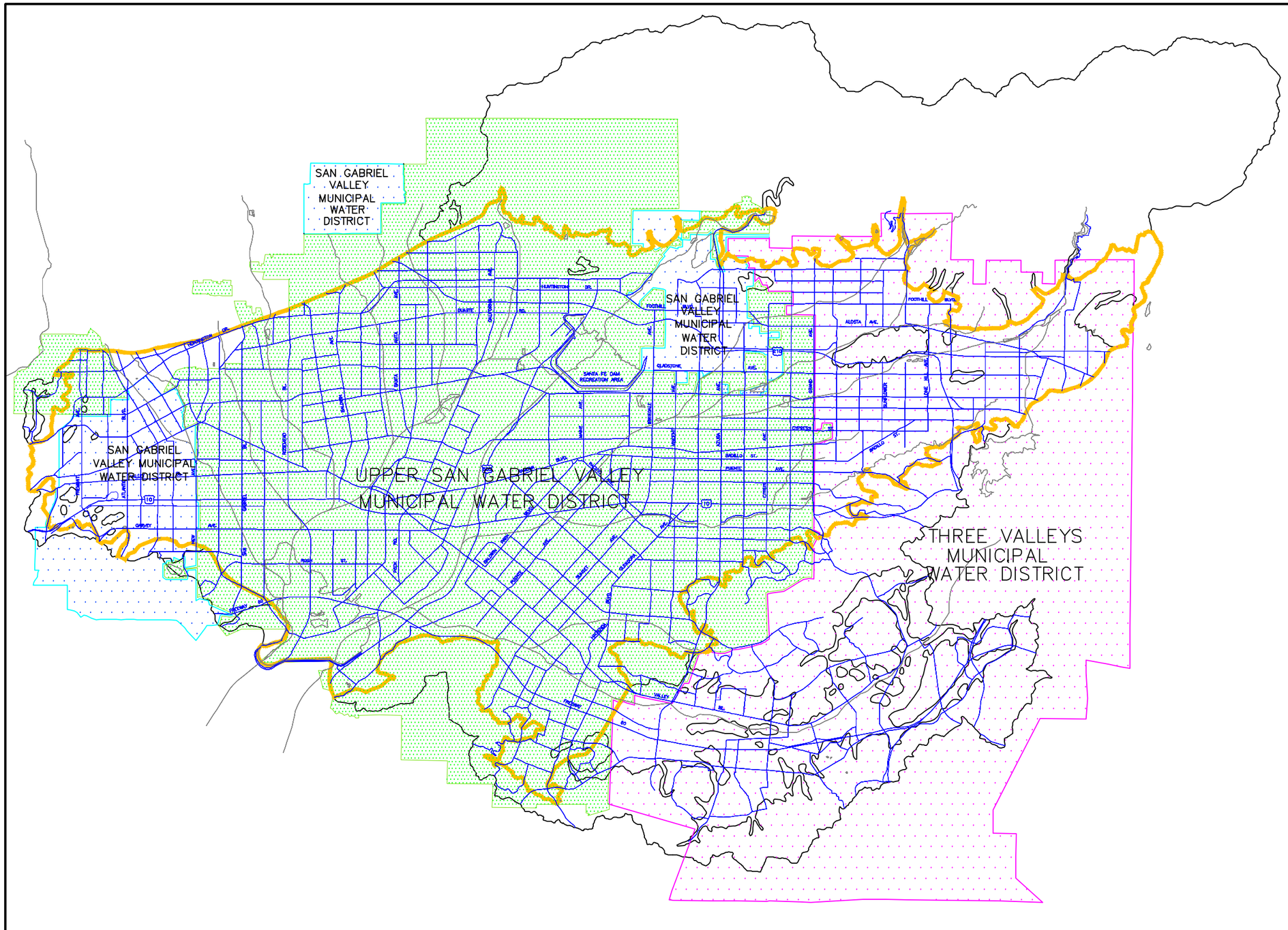
[1] Based on ratio between Normal Water Year with Single-Dry Year. See Tables 6 and 9
[2] Based on ratio between Normal Water Year with Single-Dry Year. See Tables 5 and 9

TABLE 13
SUPPLY AND DEMAND COMPARISON – MULTIPLE DRY-YEAR EVENTS
(ACRE-FEET)

		2015	2020	2025	2030
Multiple-Dry Year First Year Supply	Supply Total [1]	11,411	11,160	11,272	11,404
	Demand Total [2]	11,411	11,160	11,272	11,404
	Difference (Supply minus Demand)	0	0	0	0
	Difference as Percent of Supply	0	0	0	0
	Difference as Percent of Demand	0	0	0	0
Multiple-Dry Year Second Year Supply	Supply Total [1]	9,580	9,369	9,463	9,573
	Demand Total [2]	9,580	9,369	9,463	9,573
	Difference (Supply minus Demand)	0	0	0	0
	Difference as Percent of Supply	0	0	0	0
	Difference as Percent of Demand	0	0	0	0
Multiple-Dry Year Third Year Supply	Supply Total [1]	9,183	8,980	9,070	9,177
	Demand Total [2]	9,183	8,980	9,070	9,177
	Difference (Supply minus Demand)	0	0	0	0
	Difference as Percent of Supply	0	0	0	0
	Difference as Percent of Demand	0	0	0	0

[1] Based on ratio between Normal Water Year with Multiple Dry Years. See Tables 6 and 9
[2] Based on ratio between Normal Water Year with Multiple Dry Years. See Tables 5 and 9

PLATES



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APPROXIMATE SCALE

0 6,000' 12,000'

LEGEND

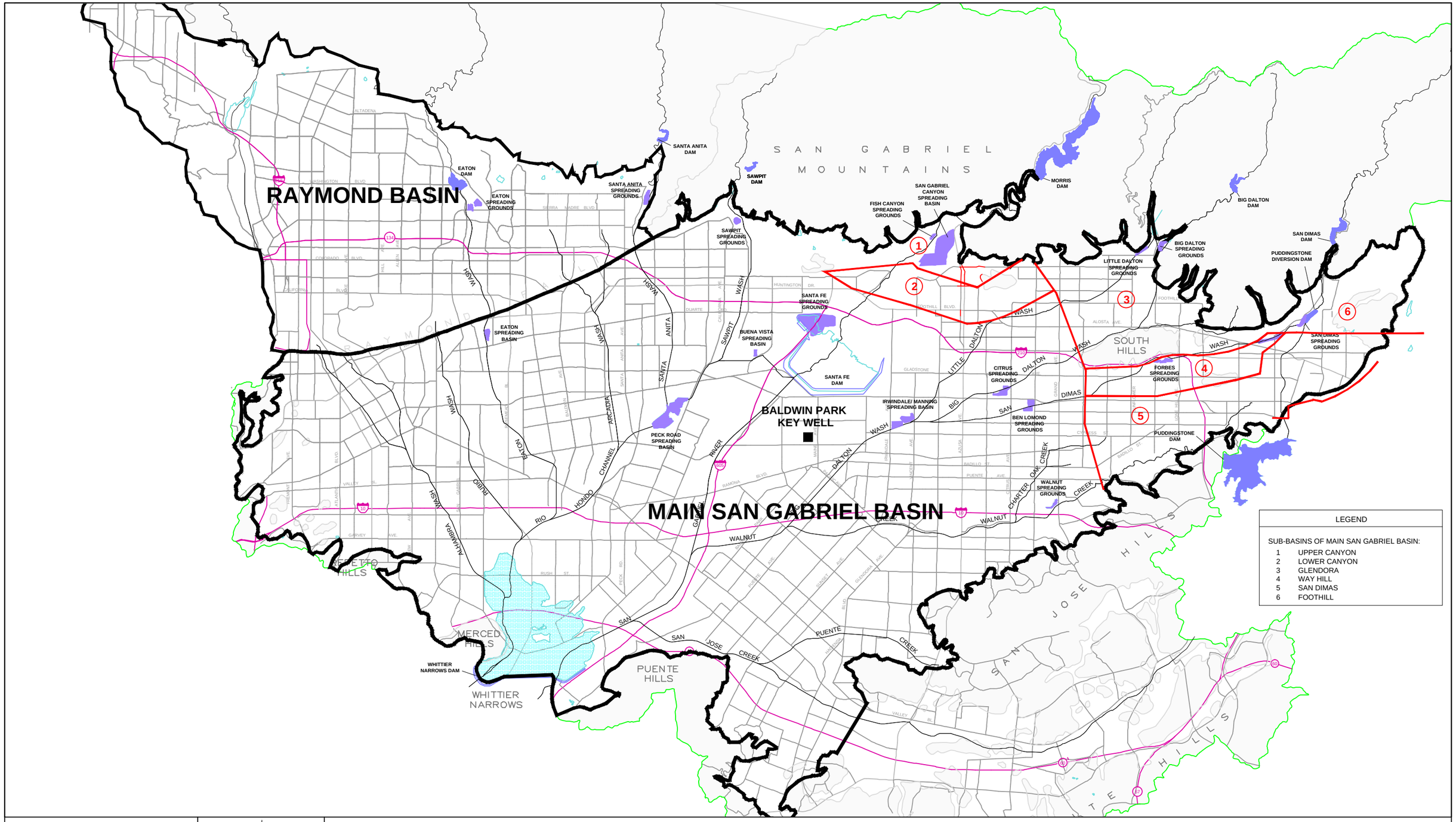
- UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
- THREE VALLEYS MUNICIPAL WATER DISTRICT
- SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
- MAIN SAN GABRIEL BASIN BOUNDARY

STETSON ENGINEERS INC.
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

COVINA IRRIGATING COMPANY

WATER DISTRICT BOUNDARIES



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861 VILLAGE OAKS DRIVE, SUITE 100
COVINA, CALIFORNIA 91724
TEL: (626) 967-6202
FAX: (626) 331-7065

2171 E Francisco Blvd., Suite K
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Mesa Arizona 85202

N

APPROXIMATE SCALE
0 5,000' 10,000'

COVINA IRRIGATING COMPANY

SAN GABRIEL VALLEY

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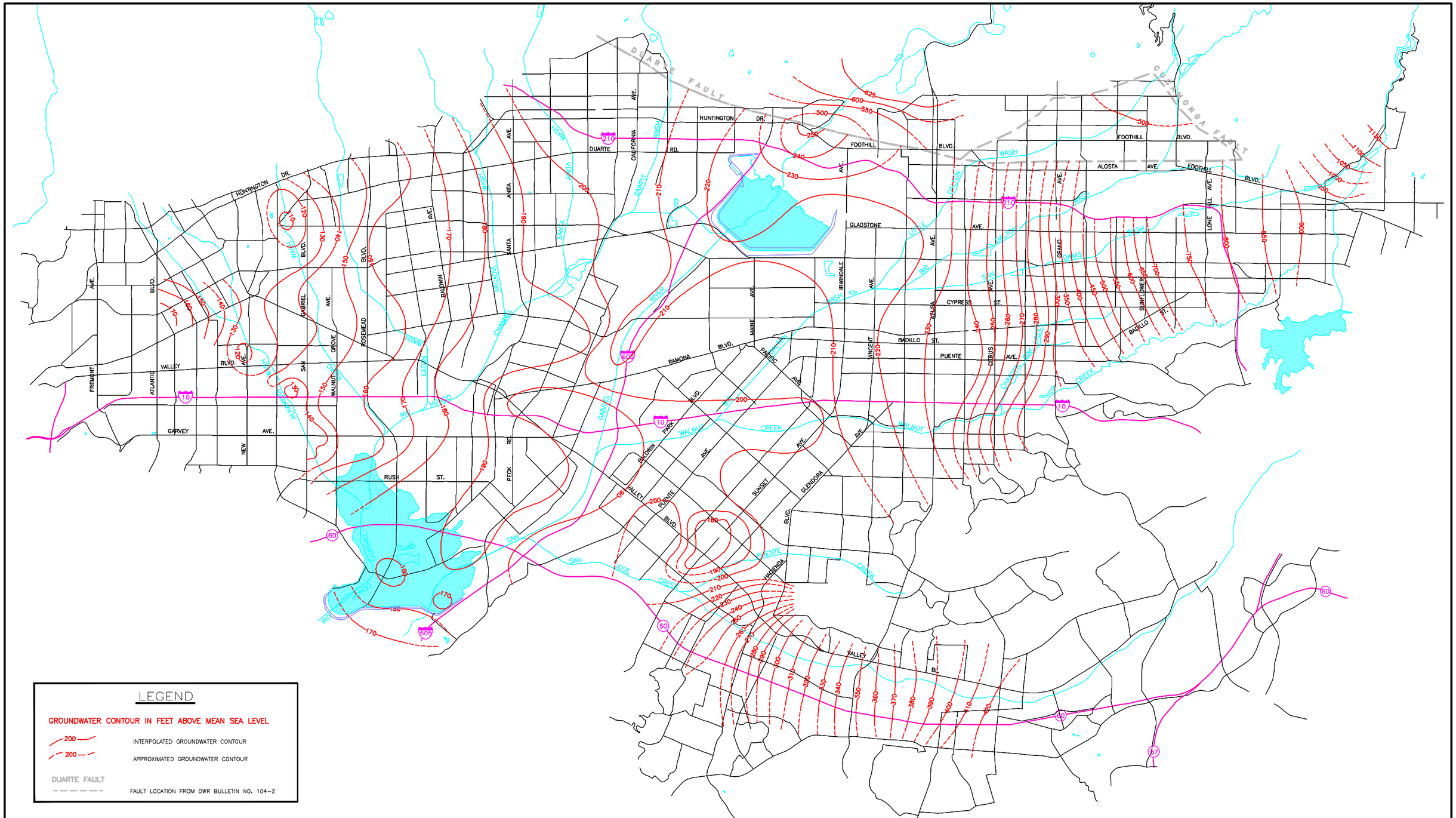

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COVINA, CALIFORNIA 91724
TEL: (626) 967-6202
FAX: (626) 331-7065

2171 E Francisco Blvd., Suite K
San Rafael California 94901

2651 W Guadalupe Rd., Suite A209
Mesa Arizona 85202

N

APPROXIMATE SCALE
0 4,000' 8,000'

COVINA IRRIGATING COMPANY

GROUNDWATER CONTOUR MAP FOR SAN GABRIEL BASIN - JULY 2010

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APPENDIX A

URBAN WATER MANAGEMENT PLANNING ACT

Section K: California Water Code, Division 6, Part 2.6: Urban Water Management Planning

The following sections of California Water Code Division 6, Part 2.6, are available online at http://www.leginfo.ca.gov/calaw.html.

Chapter 1. General Declaration and Policy	§10610-10610.4
Chapter 2. Definitions	§10611-10617
Chapter 3. Urban Water Management Plans	
Article 1. General Provisions	§10620-10621
Article 2. Contents of Plans	§10630-10634
Article 2.5. Water Service Reliability	§10635
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Chapter 1. General Declaration and Policy

10610. This part shall be known and may be cited as the "Urban Water Management Planning Act."

10610.2.

(a) The Legislature finds and declares all of the following:

(1) The waters of the state are a limited and renewable resource subject to ever-increasing demands.

(2) The conservation and efficient use of urban water supplies are of statewide concern; however, the planning for that use and the implementation of those plans can best be accomplished at the local level.

(3) A long-term, reliable supply of water is essential to protect the productivity of California's businesses and economic climate.

(4) As part of its long-range planning activities, every urban water supplier should make every effort to ensure the appropriate level of reliability in its water service sufficient to meet the needs of its various categories of customers during normal, dry, and multiple dry water years.

(5) Public health issues have been raised over a number of contaminants that have been identified in certain local and imported water supplies.

(6) Implementing effective water management strategies, including groundwater storage projects and recycled water projects, may require specific water quality and salinity targets for meeting groundwater basins water quality objectives and promoting beneficial use of recycled water.

(7) Water quality regulations are becoming an increasingly important factor in water agencies' selection of raw water sources, treatment alternatives, and modifications to existing treatment facilities.

(8) Changes in drinking water quality standards may also impact the usefulness of water supplies and may ultimately impact supply reliability.

(9) The quality of source supplies can have a significant impact on water management strategies and supply reliability.

(b) This part is intended to provide assistance to water agencies in carrying out their long-term resource planning responsibilities to ensure adequate water supplies to meet existing and future demands for water.

10610.4. The Legislature finds and declares that it is the policy of the state as follows:

(a) The management of urban water demands and efficient use of water shall be actively pursued to protect both the people of the state and their water resources.

(b) The management of urban water demands and efficient use of urban water supplies shall be a guiding criterion in public decisions.

(c) Urban water suppliers shall be required to develop water management plans to actively pursue the efficient use of available supplies.

Chapter 2. Definitions

10611. Unless the context otherwise requires, the definitions of this chapter govern the construction of this part.

10611.5. “Demand management” means those water conservation measures, programs, and incentives that prevent the waste of water and promote the reasonable and efficient use and reuse of available supplies.

10612. “Customer” means a purchaser of water from a water supplier who uses the water for municipal purposes, including residential, commercial, governmental, and industrial uses.

10613. “Efficient use” means those management measures that result in the most effective use of water so as to prevent its waste or unreasonable use or unreasonable method of use.

10614. “Person” means any individual, firm, association, organization, partnership, business, trust, corporation, company, public agency, or any agency of such an entity.

10615. "Plan" means an urban water management plan prepared pursuant to this part. A plan shall describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation and demand management activities. The components of the plan may vary according to an individual community or area's characteristics and its capabilities to efficiently use and conserve water. The plan shall address measures for residential, commercial, governmental, and industrial water demand management as set forth in Article 2 (commencing with Section 10630) of Chapter 3. In addition, a strategy and time schedule for implementation shall be included in the plan.

10616. "Public agency" means any board, commission, county, city and county, city, regional agency, district, or other public entity.

10616.5. "Recycled water" means the reclamation and reuse of wastewater for beneficial use.

10617. "Urban water supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. An urban water supplier includes a supplier or contractor for water, regardless of the basis of right, which distributes or sells for ultimate resale to customers. This part applies only to water supplied from public water systems subject to Chapter 4 (commencing with Section 116275) of Part 12 of Division 104 of the Health and Safety Code.

Chapter 3. Urban Water Management Plans

Article 1. General Provisions

10620.

(a) Every urban water supplier shall prepare and adopt an urban water management plan in the manner set forth in Article 3 (commencing with Section 10640).

(b) Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.

(c) An urban water supplier indirectly providing water shall not include planning elements in its water management plan as provided in Article 2 (commencing with Section 10630) that would be applicable to urban water suppliers or public agencies directly providing water, or to their customers, without the consent of those suppliers or public agencies.

(d) (1) An urban water supplier may satisfy the requirements of this part by participation in areawide, regional, watershed, or basinwide urban water management planning where those plans will reduce preparation costs and contribute to the achievement of conservation and efficient water use.

(2) Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.

(e) The urban water supplier may prepare the plan with its own staff, by contract, or in cooperation with other governmental agencies.

(f) An urban water supplier shall describe in the plan water management tools and options used by that entity that will maximize resources and minimize the need to import water from other regions.

10621.

(a) Each urban water supplier shall update its plan at least once every five years on or before December 31, in years ending in five and zero.

(b) Every urban water supplier required to prepare a plan pursuant to this part shall, at least 60 days prior to the public hearing on the plan required by Section 10642, notify any city or county within which the supplier provides water supplies that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. The urban water supplier may consult with, and obtain comments from, any city or county that receives notice pursuant to this subdivision.

(c) The amendments to, or changes in, the plan shall be adopted and filed in the manner set forth in Article 3 (commencing with Section 10640).

Article 2. Contents of Plans

10630. It is the intention of the Legislature, in enacting this part, to permit levels of water management planning commensurate with the numbers of customers served and the volume of water supplied.

10631. A plan shall be adopted in accordance with this chapter that shall do all of the following:

(a) Describe the service area of the supplier, including current and projected population, climate, and other demographic factors affecting the supplier's water management planning. The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier and shall be in five-year increments to 20 years or as far as data is available.

(b) Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a). If groundwater is identified as an existing or planned source of

water available to the supplier, all of the following information shall be included in the plan:

(1) A copy of any groundwater management plan adopted by the urban water supplier, including plans adopted pursuant to Part 2.75 (commencing with Section 10750), or any other specific authorization for groundwater management.

(2) A description of any groundwater basin or basins from which the urban water supplier pumps groundwater. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the urban water supplier has the legal right to pump under the order or decree. For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current official departmental bulletin that characterizes the condition of the groundwater basin, and a detailed description of the efforts being undertaken by the urban water supplier to eliminate the long-term overdraft condition.

(3) A detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

(4) A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

(c) (1) Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage, to the extent practicable, and provide data for each of the following:

(A) An average water year.

(B) A single dry water year.

(C) Multiple dry water years.

(2) For any water source that may not be available at a consistent level of use, given specific legal, environmental, water quality, or climatic factors, describe plans to supplement or replace that source with alternative sources or water demand management measures, to the extent practicable.

(d) Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.

(e) (1) Quantify, to the extent records are available, past and current water use, over the same five-year increments described in subdivision (a), and projected water use, identifying the uses among water use sectors, including, but not necessarily limited to, all of the following uses:

(A) Single-family residential.

(B) Multifamily.

(C) Commercial.

(D) Industrial.

(E) Institutional and governmental.

(F) Landscape.

(G) Sales to other agencies.

(H) Saline water intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof.

(I) Agricultural.

(2) The water use projections shall be in the same five-year increments described in subdivision (a).

(f) Provide a description of the supplier's water demand management measures. This description shall include all of the following:

(1) A description of each water demand management measure that is currently being implemented, or scheduled for implementation, including the steps necessary to implement any proposed measures, including, but not limited to, all of the following:

(A) Water survey programs for single-family residential and multifamily residential customers.

(B) Residential plumbing retrofit.

(C) System water audits, leak detection, and repair.

(D) Metering with commodity rates for all new connections and retrofit of existing connections.

(E) Large landscape conservation programs and incentives.

(F) High-efficiency washing machine rebate programs.

(G) Public information programs.

(H) School education programs.

(I) Conservation programs for commercial, industrial, and institutional accounts.

(J) Wholesale agency programs.

(K) Conservation pricing.

(L) Water conservation coordinator.

(M) Water waste prohibition.

(N) Residential ultra-low-flush toilet replacement programs.

(2) A schedule of implementation for all water demand management measures proposed or described in the plan.

(3) A description of the methods, if any, that the supplier will use to evaluate the effectiveness of water demand management measures implemented or described under the plan.

(4) An estimate, if available, of existing conservation savings on water use within the supplier's service area, and the effect of the savings on the supplier's ability to further reduce demand.

(g) An evaluation of each water demand management measure listed in paragraph (1) of subdivision (f) that is not currently being implemented or scheduled for implementation. In the course of the evaluation, first consideration shall be given to water demand management measures, or combination of measures, that offer lower incremental costs than expanded or additional water supplies. This evaluation shall do all of the following:

(1) Take into account economic and noneconomic factors, including environmental, social, health, customer impact, and technological factors.

(2) Include a cost-benefit analysis, identifying total benefits and total costs.

(3) Include a description of funding available to implement any planned water supply project that would provide water at a higher unit cost.

(4) Include a description of the water supplier's legal authority to implement the measure and efforts to work with other relevant agencies to ensure the implementation of the measure and to share the cost of implementation.

(h) Include a description of all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water use as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs, other than the demand management programs identified pursuant to paragraph (1) of subdivision (f), that the urban water supplier may implement to increase the amount of the water supply available to the urban water supplier in average, single-dry, and multiple-dry water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.

(i) Describe the opportunities for development of desalinated water, including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.

(j) For purposes of this part, urban water suppliers that are members of the California Urban Water Conservation Council shall be deemed in compliance with the requirements of subdivisions (f) and (g) by complying with all the provisions of the “Memorandum of Understanding Regarding Urban Water Conservation in California,” dated December 10, 2008, as it may be amended, and by submitting the annual reports required by Section 6.2 of that memorandum.

(k) Urban water suppliers that rely upon a wholesale agency for a source of water shall provide the wholesale agency with water use projections from that agency for that source of water in five-year increments to 20 years or as far as data is available. The wholesale agency shall provide information to the urban water supplier for inclusion in the urban water supplier's plan that identifies and quantifies, to the extent practicable, the existing and planned sources of water as required by subdivision (b), available from the wholesale agency to the urban water supplier over the same five-year increments, and during various water-year types in accordance with subdivision (c). An urban water supplier may rely upon water supply information provided by the wholesale agency in fulfilling the plan informational requirements of subdivisions (b) and (c).

10631.1.

(a) The water use projections required by Section 10631 shall include projected water use for single-family and multifamily residential housing needed for lower income households, as defined in Section 50079.5 of the Health and Safety Code,

as identified in the housing element of any city, county, or city and county in the service area of the supplier.

(b) It is the intent of the Legislature that the identification of projected water use for single-family and multifamily residential housing for lower income households will assist a supplier in complying with the requirement under Section 65589.7 of the Government Code to grant a priority for the provision of service to housing units affordable to lower income households.

10631.5.

(a) (1) Beginning January 1, 2009, the terms of, and eligibility for, a water management grant or loan made to an urban water supplier and awarded or administered by the department, state board, or California Bay-Delta Authority or its successor agency shall be conditioned on the implementation of the water demand management measures described in Section 10631, as determined by the department pursuant to subdivision (b).

(2) For the purposes of this section, water management grants and loans include funding for programs and projects for surface water or groundwater storage, recycling, desalination, water conservation, water supply reliability, and water supply augmentation. This section does not apply to water management projects funded by the federal American Recovery and Reinvestment Act of 2009 (Public Law 111-5).

(3) Notwithstanding paragraph (1), the department shall determine that an urban water supplier is eligible for a water management grant or loan even though the supplier is not implementing all of the water demand management measures described in Section 10631, if the urban water supplier has submitted to the department for approval a schedule, financing plan, and budget, to be included in the grant or loan agreement, for implementation of the water demand management measures. The supplier may request grant or loan funds to implement the water demand management measures to the extent the request is consistent with the eligibility requirements applicable to the water management funds.

(4) (A) Notwithstanding paragraph (1), the department shall determine that an urban water supplier is eligible for a water management grant or loan even though the supplier is not implementing all of the water demand management measures described in Section 10631, if an urban water supplier submits to the department for approval documentation demonstrating that a water demand management measure is not locally cost effective. If the department determines that the documentation submitted by the urban water supplier fails to demonstrate that a water demand management measure is not locally cost effective, the

department shall notify the urban water supplier and the agency administering the grant or loan program within 120 days that the documentation does not satisfy the requirements for an exemption, and include in that notification a detailed statement to support the determination.

(B) For purposes of this paragraph, “not locally cost effective” means that the present value of the local benefits of implementing a water demand management measure is less than the present value of the local costs of implementing that measure.

(b) (1) The department, in consultation with the state board and the California Bay-Delta Authority or its successor agency, and after soliciting public comment regarding eligibility requirements, shall develop eligibility requirements to implement the requirement of paragraph (1) of subdivision (a). In establishing these eligibility requirements, the department shall do both of the following:

(A) Consider the conservation measures described in the Memorandum of Understanding Regarding Urban Water Conservation in California, and alternative conservation approaches that provide equal or greater water savings.

(B) Recognize the different legal, technical, fiscal, and practical roles and responsibilities of wholesale water suppliers and retail water suppliers.

(2) (A) For the purposes of this section, the department shall determine whether an urban water supplier is implementing all of the water demand management measures described in Section 10631 based on either, or a combination, of the following:

(i) Compliance on an individual basis.

(ii) Compliance on a regional basis. Regional compliance shall require participation in a regional conservation program consisting of two or more urban water suppliers that achieves the level of conservation or water efficiency savings equivalent to the amount of conservation or savings achieved if each of the participating urban water suppliers implemented the water demand management measures. The urban water supplier administering the regional program shall provide participating urban water suppliers and the department with data to demonstrate that the regional program is consistent with this clause. The department shall review the data to determine whether the urban water suppliers in the regional program are meeting the eligibility requirements.

(B) The department may require additional information for any determination pursuant to this section.

(3) The department shall not deny eligibility to an urban water supplier in compliance with the requirements of this section that is participating in a multiagency water project, or an integrated regional water management plan, developed pursuant to Section 75026 of the Public Resources Code, solely on the basis that one or more of the agencies participating in the project or plan is not implementing all of the water demand management measures described in Section 10631.

(c) In establishing guidelines pursuant to the specific funding authorization for any water management grant or loan program subject to this section, the agency administering the grant or loan program shall include in the guidelines the eligibility requirements developed by the department pursuant to subdivision (b).

(d) Upon receipt of a water management grant or loan application by an agency administering a grant and loan program subject to this section, the agency shall request an eligibility determination from the department with respect to the requirements of this section. The department shall respond to the request within 60 days of the request.

(e) The urban water supplier may submit to the department copies of its annual reports and other relevant documents to assist the department in determining whether the urban water supplier is implementing or scheduling the implementation of water demand management activities. In addition, for urban water suppliers that are signatories to the Memorandum of Understanding Regarding Urban Water Conservation in California and submit annual reports to the California Urban Water Conservation Council in accordance with the memorandum, the department may use these reports to assist in tracking the implementation of water demand management measures.

(f) This section shall remain in effect only until July 1, 2016, and as of that date is repealed, unless a later enacted statute, that is enacted before July 1, 2016, deletes or extends that date.

10631.7. The department, in consultation with the California Urban Water Conservation Council, shall convene an independent technical panel to provide information and recommendations to the department and the Legislature on new demand management measures, technologies, and approaches. The panel shall consist of no more than seven members, who shall be selected by the department to reflect a balanced representation of experts. The panel shall have at least one, but no more than two, representatives from each of the following: retail water suppliers, environmental organizations, the business community, wholesale water suppliers, and academia. The panel shall be convened by January 1, 2009, and shall report to the

Legislature no later than January 1, 2010, and every five years thereafter. The department shall review the panel report and include in the final report to the Legislature the department's recommendations and comments regarding the panel process and the panel's recommendations.

10632. The plan shall provide an urban water shortage contingency analysis which includes each of the following elements which are within the authority of the urban water supplier:

(a) Stages of action to be undertaken by the urban water supplier in response to water supply shortages, including up to a 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage.

(b) An estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply.

(c) Actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including, but not limited to, a regional power outage, an earthquake, or other disaster.

(d) Additional, mandatory prohibitions against specific water use practices during water shortages, including, but not limited to, prohibiting the use of potable water for street cleaning.

(e) Consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.

(f) Penalties or charges for excessive use, where applicable.

(g) An analysis of the impacts of each of the actions and conditions described in subdivisions (a) to (f), inclusive, on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.

(h) A draft water shortage contingency resolution or ordinance.

(i) A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.

10633. The plan shall provide, to the extent available, information on recycled water and its potential for use as a water source in the service area of the urban water

supplier. The preparation of the plan shall be coordinated with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area, and shall include all of the following:

(a) A description of the wastewater collection and treatment systems in the supplier's service area, including a quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.

(b) A description of the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.

(c) A description of the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use.

(d) A description and quantification of the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, indirect potable reuse, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.

(e) The projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected pursuant to this subdivision.

(f) A description of actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these actions in terms of acre-feet of recycled water used per year.

(g) A plan for optimizing the use of recycled water in the supplier's service area, including actions to facilitate the installation of dual distribution systems, to promote recirculating uses, to facilitate the increased use of treated wastewater that meets recycled water standards, and to overcome any obstacles to achieving that increased use.

10634. The plan shall include information, to the extent practicable, relating to the quality of existing sources of water available to the supplier over the same five-year increments as described in subdivision (a) of Section 10631, and the manner in which water quality affects water management strategies and supply reliability.

Article 2.5. Water Service Reliability

10635.

(a) Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry water years. This water supply and demand

assessment shall compare the total water supply sources available to the water supplier with the total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and multiple dry water years. The water service reliability assessment shall be based upon the information compiled pursuant to Section 10631, including available data from state, regional, or local agency population projections within the service area of the urban water supplier.

(b) The urban water supplier shall provide that portion of its urban water management plan prepared pursuant to this article to any city or county within which it provides water supplies no later than 60 days after the submission of its urban water management plan.

(c) Nothing in this article is intended to create a right or entitlement to water service or any specific level of water service.

(d) Nothing in this article is intended to change existing law concerning an urban water supplier's obligation to provide water service to its existing customers or to any potential future customers.

Article 3. Adoption and Implementation of Plans

10640. Every urban water supplier required to prepare a plan pursuant to this part shall prepare its plan pursuant to Article 2 (commencing with Section 10630).

The supplier shall likewise periodically review the plan as required by Section 10621, and any amendments or changes required as a result of that review shall be adopted pursuant to this article.

10641. An urban water supplier required to prepare a plan may consult with, and obtain comments from, any public agency or state agency or any person who has special expertise with respect to water demand management methods and techniques.

10642. Each urban water supplier shall encourage the active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan. Prior to adopting a plan, the urban water supplier shall make the plan available for public inspection and shall hold a public hearing thereon. Prior to the hearing, notice of the time and place of hearing shall be published within the jurisdiction of the publicly owned water supplier pursuant to Section 6066 of the Government Code. The urban water supplier shall provide notice of the time and place of hearing to any city or county within which the supplier provides water supplies. A privately owned water supplier shall provide an equivalent notice within its service area. After the hearing, the plan shall be adopted as prepared or as modified after the hearing.

10643. An urban water supplier shall implement its plan adopted pursuant to this chapter in accordance with the schedule set forth in its plan.

10644.

(a) An urban water supplier shall submit to the department, the California State Library, and any city or county within which the supplier provides water supplies a copy of its plan no later than 30 days after adoption. Copies of amendments or changes to the plans shall be submitted to the department, the California State Library, and any city or county within which the supplier provides water supplies within 30 days after adoption.

(b) The department shall prepare and submit to the Legislature, on or before December 31, in the years ending in six and one, a report summarizing the status of the plans adopted pursuant to this part. The report prepared by the department shall identify the exemplary elements of the individual plans. The department shall provide a copy of the report to each urban water supplier that has submitted its plan to the department. The department shall also prepare reports and provide data for any legislative hearings designed to consider the effectiveness of plans submitted pursuant to this part.

(c) (1) For the purpose of identifying the exemplary elements of the individual plans, the department shall identify in the report those water demand management measures adopted and implemented by specific urban water suppliers, and identified pursuant to Section 10631, that achieve water savings significantly above the levels established by the department to meet the requirements of Section 10631.5.

(2) The department shall distribute to the panel convened pursuant to Section 10631.7 the results achieved by the implementation of those water demand management measures described in paragraph (1).

(3) The department shall make available to the public the standard the department will use to identify exemplary water demand management measures.

10645. Not later than 30 days after filing a copy of its plan with the department, the urban water supplier and the department shall make the plan available for public review during normal business hours.

Chapter 4. Miscellaneous Provisions

10650. Any actions or proceedings to attack, review, set aside, void, or annul the acts or decisions of an urban water supplier on the grounds of noncompliance with this part shall be commenced as follows:

(a) An action or proceeding alleging failure to adopt a plan shall be commenced within 18 months after that adoption is required by this part.

(b) Any action or proceeding alleging that a plan, or action taken pursuant to the plan, does not comply with this part shall be commenced within 90 days after filing of the plan or amendment thereto pursuant to Section 10644 or the taking of that action.

10651. In any action or proceeding to attack, review, set aside, void, or annul a plan, or an action taken pursuant to the plan by an urban water supplier on the grounds of noncompliance with this part, the inquiry shall extend only to whether there was a prejudicial abuse of discretion. Abuse of discretion is established if the supplier has not proceeded in a manner required by law or if the action by the water supplier is not supported by substantial evidence.

10652. The California Environmental Quality Act (Division 13 (commencing with Section 21000) of the Public Resources Code) does not apply to the preparation and adoption of plans pursuant to this part or to the implementation of actions taken pursuant to Section 10632. Nothing in this part shall be interpreted as exempting from the California Environmental Quality Act any project that would significantly affect water supplies for fish and wildlife, or any project for implementation of the plan, other than projects implementing Section 10632, or any project for expanded or additional water supplies.

10653. The adoption of a plan shall satisfy any requirements of state law, regulation, or order, including those of the State Water Resources Control Board and the Public Utilities Commission, for the preparation of water management plans or conservation plans; provided, that if the State Water Resources Control Board or the Public Utilities Commission requires additional information concerning water conservation to implement its existing authority, nothing in this part shall be deemed to limit the board or the commission in obtaining that information. The requirements of this part shall be satisfied by any urban water demand management plan prepared to meet federal laws or regulations after the effective date of this part, and which substantially meets the requirements of this part, or by any existing urban water management plan which includes the contents of a plan required under this part.

10654. An urban water supplier may recover in its rates the costs incurred in preparing its plan and implementing the reasonable water conservation measures included in the plan. Any best water management practice that is included in the plan that is identified in the “Memorandum of Understanding Regarding Urban Water Conservation in California” is deemed to be reasonable for the purposes of this section.

10655. If any provision of this part or the application thereof to any person or circumstances is held invalid, that invalidity shall not affect other provisions or

applications of this part which can be given effect without the invalid provision or application thereof, and to this end the provisions of this part are severable.

10656. An urban water supplier that does not prepare, adopt, and submit its urban water management plan to the department in accordance with this part, is ineligible to receive funding pursuant to Division 24 (commencing with Section 78500) or Division 26 (commencing with Section 79000), or receive drought assistance from the state until the urban water management plan is submitted pursuant to this article.

APPENDIX B

WATER CONSERVATION BILL OF 2009

Section L: California Water Code, Division 6, Part 2.55: Water Conservation

The following sections of California Water Code Division 6, Part 2.55, are available online at http://www.leginfo.ca.gov/calaw.html.

Chapter 1. General Declarations and Policy	§10608-10608.8
Chapter 2. Definitions	§10608.12
Chapter 3. Urban Retail Water Suppliers	§10608.16-10608.44

Legislative Counsel's Digest

Senate Bill No. 7
Chapter 4

An act to amend and repeal Section 10631.5 of, to add Part 2.55 (commencing with Section 10608) to Division 6 of, and to repeal and add Part 2.8 (commencing with Section 10800) of Division 6 of, the Water Code, relating to water.

[Approved by Governor November 10, 2009. Filed with Secretary of State November 10, 2009.]

Legislative Counsel's Digest

SB 7, Steinberg. Water conservation.

(1) Existing law requires the Department of Water Resources to convene an independent technical panel to provide information to the department and the Legislature on new demand management measures, technologies, and approaches. "Demand management measures" means those water conservation measures, programs, and incentives that prevent the waste of water and promote the reasonable and efficient use and reuse of available supplies.

This bill would require the state to achieve a 20% reduction in urban per capita water use in California by December 31, 2020. The state would be required to make incremental progress towards this goal by reducing per capita water use by at least 10% on or before December 31, 2015. The bill would require each urban retail water supplier to develop urban water use targets and an interim urban water use target, in accordance with specified requirements. The bill would require agricultural water suppliers to implement efficient water management practices. The bill would require the department, in consultation with other state agencies, to develop a single standardized water use reporting form. The bill, with certain exceptions, would provide that urban retail water suppliers, on and after July 1, 2016, and agricultural water suppliers, on and after July 1, 2013, are not eligible for state water grants or loans unless they comply with the water conservation requirements established by the bill. The bill would repeal, on July 1, 2016, an existing requirement that conditions

eligibility for certain water management grants or loans to an urban water supplier on the implementation of certain water demand management measures.

(2) Existing law, until January 1, 1993, and thereafter only as specified, requires certain agricultural water suppliers to prepare and adopt water management plans.

This bill would revise existing law relating to agricultural water management planning to require agricultural water suppliers to prepare and adopt agricultural water management plans with specified components on or before December 31, 2012, and update those plans on or before December 31, 2015, and on or before December 31 every 5 years thereafter. An agricultural water supplier that becomes an agricultural water supplier after December 31, 2012, would be required to prepare and adopt an agricultural water management plan within one year after becoming an agricultural water supplier. The agricultural water supplier would be required to notify each city or county within which the supplier provides water supplies with regard to the preparation or review of the plan. The bill would require the agricultural water supplier to submit copies of the plan to the department and other specified entities. The bill would provide that an agricultural water supplier is not eligible for state water grants or loans unless the supplier complies with the water management planning requirements established by the bill.

(3) The bill would take effect only if SB 1 and SB 6 of the 2009–10 7th Extraordinary Session of the Legislature are enacted and become effective.

The people of the State of California do enact as follows:

SECTION 1. Part 2.55 (commencing with Section 10608) is added to Division 6 of the Water Code, to read:

Part 2.55. Sustainable Water Use and Demand Reduction

Chapter 1. General Declarations and Policy

10608. The Legislature finds and declares all of the following:

(a) Water is a public resource that the California Constitution protects against waste and unreasonable use.

(b) Growing population, climate change, and the need to protect and grow California's economy while protecting and restoring our fish and wildlife habitats make it essential that the state manage its water resources as efficiently as possible.

(c) Diverse regional water supply portfolios will increase water supply reliability and reduce dependence on the Delta.

(d) Reduced water use through conservation provides significant energy and environmental benefits, and can help protect water quality, improve streamflows, and reduce greenhouse gas emissions.

(e) The success of state and local water conservation programs to increase efficiency of water use is best determined on the basis of measurable outcomes related to water use or efficiency.

(f) Improvements in technology and management practices offer the potential for increasing water efficiency in California over time, providing an essential water management tool to meet the need for water for urban, agricultural, and environmental uses.

(g) The Governor has called for a 20 percent per capita reduction in urban water use statewide by 2020.

(h) The factors used to formulate water use efficiency targets can vary significantly from location to location based on factors including weather, patterns of urban and suburban development, and past efforts to enhance water use efficiency.

(i) Per capita water use is a valid measure of a water provider's efforts to reduce urban water use within its service area. However, per capita water use is less useful for measuring relative water use efficiency between different water providers. Differences in weather, historical patterns of urban and suburban development, and density of housing in a particular location need to be considered when assessing per capita water use as a measure of efficiency.

10608.4. It is the intent of the Legislature, by the enactment of this part, to do all of the following:

(a) Require all water suppliers to increase the efficiency of use of this essential resource.

(b) Establish a framework to meet the state targets for urban water conservation identified in this part and called for by the Governor.

(c) Measure increased efficiency of urban water use on a per capita basis.

(d) Establish a method or methods for urban retail water suppliers to determine targets for achieving increased water use efficiency by the year 2020, in accordance with the Governor's goal of a 20-percent reduction.

(e) Establish consistent water use efficiency planning and implementation standards for urban water suppliers and agricultural water suppliers.

(f) Promote urban water conservation standards that are consistent with the California Urban Water Conservation Council's adopted best management practices and the requirements for demand management in Section 10631.

(g) Establish standards that recognize and provide credit to water suppliers that made substantial capital investments in urban water conservation since the drought of the early 1990s.

(h) Recognize and account for the investment of urban retail water suppliers in providing recycled water for beneficial uses.

(i) Require implementation of specified efficient water management practices for agricultural water suppliers.

(j) Support the economic productivity of California's agricultural, commercial, and industrial sectors.

(k) Advance regional water resources management.

10608.8.

(a) (1) Water use efficiency measures adopted and implemented pursuant to this part or Part 2.8 (commencing with Section 10800) are water conservation measures subject to the protections provided under Section 1011.

(2) Because an urban agency is not required to meet its urban water use target until 2020 pursuant to subdivision (b) of Section 10608.24, an urban retail water supplier's failure to meet those targets shall not establish a violation of law for purposes of any state administrative or judicial proceeding prior to January 1, 2021. Nothing in this paragraph limits the use of data reported to the department or the board in litigation or an administrative proceeding. This paragraph shall become inoperative on January 1, 2021.

(3) To the extent feasible, the department and the board shall provide for the use of water conservation reports required under this part to meet the requirements of Section 1011 for water conservation reporting.

(b) This part does not limit or otherwise affect the application of Chapter 3.5 (commencing with Section 11340), Chapter 4 (commencing with Section 11370), Chapter 4.5 (commencing with Section 11400), and Chapter 5 (commencing with Section 11500) of Part 1 of Division 3 of Title 2 of the Government Code.

(c) This part does not require a reduction in the total water used in the agricultural or urban sectors, because other factors, including, but not limited to, changes in agricultural economics or population growth may have greater effects on water

use. This part does not limit the economic productivity of California's agricultural, commercial, or industrial sectors.

(d) The requirements of this part do not apply to an agricultural water supplier that is a party to the Quantification Settlement Agreement, as defined in subdivision (a) of Section 1 of Chapter 617 of the Statutes of 2002, during the period within which the Quantification Settlement Agreement remains in effect. After the expiration of the Quantification Settlement Agreement, to the extent conservation water projects implemented as part of the Quantification Settlement Agreement remain in effect, the conserved water created as part of those projects shall be credited against the obligations of the agricultural water supplier pursuant to this part.

Chapter 2. Definitions

10608.12. Unless the context otherwise requires, the following definitions govern the construction of this part:

(a) “Agricultural water supplier” means a water supplier, either publicly or privately owned, providing water to 10,000 or more irrigated acres, excluding recycled water. “Agricultural water supplier” includes a supplier or contractor for water, regardless of the basis of right, that distributes or sells water for ultimate resale to customers. “Agricultural water supplier” does not include the department.

(b) “Base daily per capita water use” means any of the following:

(1) The urban retail water supplier's estimate of its average gross water use, reported in gallons per capita per day and calculated over a continuous 10-year period ending no earlier than December 31, 2004, and no later than December 31, 2010.

(2) For an urban retail water supplier that meets at least 10 percent of its 2008 measured retail water demand through recycled water that is delivered within the service area of an urban retail water supplier or its urban wholesale water supplier, the urban retail water supplier may extend the calculation described in paragraph (1) up to an additional five years to a maximum of a continuous 15-year period ending no earlier than December 31, 2004, and no later than December 31, 2010.

(3) For the purposes of Section 10608.22, the urban retail water supplier's estimate of its average gross water use, reported in gallons per capita per day and calculated over a continuous five-year period ending no earlier than December 31, 2007, and no later than December 31, 2010.

(c) “Baseline commercial, industrial, and institutional water use” means an urban retail water supplier's base daily per capita water use for commercial, industrial, and institutional users.

(d) “Commercial water user” means a water user that provides or distributes a product or service.

(e) “Compliance daily per capita water use” means the gross water use during the final year of the reporting period, reported in gallons per capita per day.

(f) “Disadvantaged community” means a community with an annual median household income that is less than 80 percent of the statewide annual median household income.

(g) “Gross water use” means the total volume of water, whether treated or untreated, entering the distribution system of an urban retail water supplier, excluding all of the following:

(1) Recycled water that is delivered within the service area of an urban retail water supplier or its urban wholesale water supplier.

(2) The net volume of water that the urban retail water supplier places into long-term storage.

(3) The volume of water the urban retail water supplier conveys for use by another urban water supplier.

(4) The volume of water delivered for agricultural use, except as otherwise provided in subdivision (f) of Section 10608.24.

(h) “Industrial water user” means a water user that is primarily a manufacturer or processor of materials as defined by the North American Industry Classification System code sectors 31 to 33, inclusive, or an entity that is a water user primarily engaged in research and development.

(i) “Institutional water user” means a water user dedicated to public service. This type of user includes, among other users, higher education institutions, schools, courts, churches, hospitals, government facilities, and nonprofit research institutions.

(j) “Interim urban water use target” means the midpoint between the urban retail water supplier's base daily per capita water use and the urban retail water supplier's urban water use target for 2020.

(k) "Locally cost effective" means that the present value of the local benefits of implementing an agricultural efficiency water management practice is greater than or equal to the present value of the local cost of implementing that measure.

(l) "Process water" means water used for producing a product or product content or water used for research and development, including, but not limited to, continuous manufacturing processes, water used for testing and maintaining equipment used in producing a product or product content, and water used in combined heat and power facilities used in producing a product or product content. Process water does not mean incidental water uses not related to the production of a product or product content, including, but not limited to, water used for restrooms, landscaping, air conditioning, heating, kitchens, and laundry.

(m) "Recycled water" means recycled water, as defined in subdivision (n) of Section 13050, that is used to offset potable demand, including recycled water supplied for direct use and indirect potable reuse, that meets the following requirements, where applicable:

(1) For groundwater recharge, including recharge through spreading basins, water supplies that are all of the following:

(A) Metered.

(B) Developed through planned investment by the urban water supplier or a wastewater treatment agency.

(C) Treated to a minimum tertiary level.

(D) Delivered within the service area of an urban retail water supplier or its urban wholesale water supplier that helps an urban retail water supplier meet its urban water use target.

(2) For reservoir augmentation, water supplies that meet the criteria of paragraph (1) and are conveyed through a distribution system constructed specifically for recycled water.

(n) "Regional water resources management" means sources of supply resulting from watershed-based planning for sustainable local water reliability or any of the following alternative sources of water:

(1) The capture and reuse of stormwater or rainwater.

(2) The use of recycled water.

(3) The desalination of brackish groundwater.

(4) The conjunctive use of surface water and groundwater in a manner that is consistent with the safe yield of the groundwater basin.

(o) "Reporting period" means the years for which an urban retail water supplier reports compliance with the urban water use targets.

(p) "Urban retail water supplier" means a water supplier, either publicly or privately owned, that directly provides potable municipal water to more than 3,000 end users or that supplies more than 3,000 acre-feet of potable water annually at retail for municipal purposes.

(q) "Urban water use target" means the urban retail water supplier's targeted future daily per capita water use.

(r) "Urban wholesale water supplier," means a water supplier, either publicly or privately owned, that provides more than 3,000 acre-feet of water annually at wholesale for potable municipal purposes.

Chapter 3. Urban Retail Water Suppliers

10608.16.

(a) The state shall achieve a 20-percent reduction in urban per capita water use in California on or before December 31, 2020.

(b) The state shall make incremental progress towards the state target specified in subdivision (a) by reducing urban per capita water use by at least 10 percent on or before December 31, 2015.

10608.20.

(a) (1) Each urban retail water supplier shall develop urban water use targets and an interim urban water use target by July 1, 2011. Urban retail water suppliers may elect to determine and report progress toward achieving these targets on an individual or regional basis, as provided in subdivision (a) of Section 10608.28, and may determine the targets on a fiscal year or calendar year basis.

(2) It is the intent of the Legislature that the urban water use targets described in subdivision (a) cumulatively result in a 20-percent reduction from the baseline daily per capita water use by December 31, 2020.

(b) An urban retail water supplier shall adopt one of the following methods for determining its urban water use target pursuant to subdivision (a):

(1) Eighty percent of the urban retail water supplier's baseline per capita daily water use.

(2) The per capita daily water use that is estimated using the sum of the following performance standards:

(A) For indoor residential water use, 55 gallons per capita daily water use as a provisional standard. Upon completion of the department's 2016 report to the Legislature pursuant to Section 10608.42, this standard may be adjusted by the Legislature by statute.

(B) For landscape irrigated through dedicated or residential meters or connections, water efficiency equivalent to the standards of the Model Water Efficient Landscape Ordinance set forth in Chapter 2.7 (commencing with Section 490) of Division 2 of Title 23 of the California Code of Regulations, as in effect the later of the year of the landscape's installation or 1992. An urban retail water supplier using the approach specified in this subparagraph shall use satellite imagery, site visits, or other best available technology to develop an accurate estimate of landscaped areas.

(C) For commercial, industrial, and institutional uses, a 10-percent reduction in water use from the baseline commercial, industrial, and institutional water use by 2020.

(3) Ninety-five percent of the applicable state hydrologic region target, as set forth in the state's draft 20x2020 Water Conservation Plan (dated April 30, 2009). If the service area of an urban water supplier includes more than one hydrologic region, the supplier shall apportion its service area to each region based on population or area.

(4) A method that shall be identified and developed by the department, through a public process, and reported to the Legislature no later than December 31, 2010. The method developed by the department shall identify per capita targets that cumulatively result in a statewide 20-percent reduction in urban daily per capita water use by December 31, 2020. In developing urban daily per capita water use targets, the department shall do all of the following:

(A) Consider climatic differences within the state.

(B) Consider population density differences within the state.

(C) Provide flexibility to communities and regions in meeting the targets.

(D) Consider different levels of per capita water use according to plant water needs in different regions.

(E) Consider different levels of commercial, industrial, and institutional water use in different regions of the state.

(F) Avoid placing an undue hardship on communities that have implemented conservation measures or taken actions to keep per capita water use low.

(c) If the department adopts a regulation pursuant to paragraph (4) of subdivision (b) that results in a requirement that an urban retail water supplier achieve a reduction in daily per capita water use that is greater than 20 percent by December 31, 2020, an urban retail water supplier that adopted the method described in paragraph (4) of subdivision (b) may limit its urban water use target to a reduction of not more than 20 percent by December 31, 2020, by adopting the method described in paragraph (1) of subdivision (b).

(d) The department shall update the method described in paragraph (4) of subdivision (b) and report to the Legislature by December 31, 2014. An urban retail water supplier that adopted the method described in paragraph (4) of subdivision (b) may adopt a new urban daily per capita water use target pursuant to this updated method.

(e) An urban retail water supplier shall include in its urban water management plan required pursuant to Part 2.6 (commencing with Section 10610) due in 2010 the baseline daily per capita water use, urban water use target, interim urban water use target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.

(f) When calculating per capita values for the purposes of this chapter, an urban retail water supplier shall determine population using federal, state, and local population reports and projections.

(g) An urban retail water supplier may update its 2020 urban water use target in its 2015 urban water management plan required pursuant to Part 2.6 (commencing with Section 10610).

(h) (1) The department, through a public process and in consultation with the California Urban Water Conservation Council, shall develop technical methodologies and criteria for the consistent implementation of this part, including, but not limited to, both of the following:

(A) Methodologies for calculating base daily per capita water use, baseline commercial, industrial, and institutional water use, compliance daily per capita water use, gross water use, service area population, indoor residential water use, and landscaped area water use.

(B) Criteria for adjustments pursuant to subdivisions (d) and (e) of Section 10608.24.

(2) The department shall post the methodologies and criteria developed pursuant to this subdivision on its Internet Web site, and make written copies

available, by October 1, 2010. An urban retail water supplier shall use the methods developed by the department in compliance with this part.

(i) (1) The department shall adopt regulations for implementation of the provisions relating to process water in accordance with subdivision (l) of Section 10608.12, subdivision (e) of Section 10608.24, and subdivision (d) of Section 10608.26.

(2) The initial adoption of a regulation authorized by this subdivision is deemed to address an emergency, for purposes of Sections 11346.1 and 11349.6 of the Government Code, and the department is hereby exempted for that purpose from the requirements of subdivision (b) of Section 11346.1 of the Government Code. After the initial adoption of an emergency regulation pursuant to this subdivision, the department shall not request approval from the Office of Administrative Law to readopt the regulation as an emergency regulation pursuant to Section 11346.1 of the Government Code.

(j) An urban retail water supplier shall be granted an extension to July 1, 2011, for adoption of an urban water management plan pursuant to Part 2.6 (commencing with Section 10610) due in 2010 to allow use of technical methodologies developed by the department pursuant to paragraph (4) of subdivision (b) and subdivision (h). An urban retail water supplier that adopts an urban water management plan due in 2010 that does not use the methodologies developed by the department pursuant to subdivision (h) shall amend the plan by July 1, 2011, to comply with this part.

10608.22. Notwithstanding the method adopted by an urban retail water supplier pursuant to Section 10608.20, an urban retail water supplier's per capita daily water use reduction shall be no less than 5 percent of base daily per capita water use as defined in paragraph (3) of subdivision (b) of Section 10608.12. This section does not apply to an urban retail water supplier with a base daily per capita water use at or below 100 gallons per capita per day.

10608.24.

(a) Each urban retail water supplier shall meet its interim urban water use target by December 31, 2015.

(b) Each urban retail water supplier shall meet its urban water use target by December 31, 2020.

(c) An urban retail water supplier's compliance daily per capita water use shall be the measure of progress toward achievement of its urban water use target.

(d) (1) When determining compliance daily per capita water use, an urban retail water supplier may consider the following factors:

(A) Differences in evapotranspiration and rainfall in the baseline period compared to the compliance reporting period.

(B) Substantial changes to commercial or industrial water use resulting from increased business output and economic development that have occurred during the reporting period.

(C) Substantial changes to institutional water use resulting from fire suppression services or other extraordinary events, or from new or expanded operations, that have occurred during the reporting period.

(2) If the urban retail water supplier elects to adjust its estimate of compliance daily per capita water use due to one or more of the factors described in paragraph (1), it shall provide the basis for, and data supporting, the adjustment in the report required by Section 10608.40.

(e) When developing the urban water use target pursuant to Section 10608.20, an urban retail water supplier that has a substantial percentage of industrial water use in its service area, may exclude process water from the calculation of gross water use to avoid a disproportionate burden on another customer sector.

(f) (1) An urban retail water supplier that includes agricultural water use in an urban water management plan pursuant to Part 2.6 (commencing with Section 10610) may include the agricultural water use in determining gross water use. An urban retail water supplier that includes agricultural water use in determining gross water use and develops its urban water use target pursuant to paragraph (2) of subdivision (b) of Section 10608.20 shall use a water efficient standard for agricultural irrigation of 100 percent of reference evapotranspiration multiplied by the crop coefficient for irrigated acres.

(2) An urban retail water supplier, that is also an agricultural water supplier, is not subject to the requirements of Chapter 4 (commencing with Section 10608.48), if the agricultural water use is incorporated into its urban water use target pursuant to paragraph (1).

10608.26.

(a) In complying with this part, an urban retail water supplier shall conduct at least one public hearing to accomplish all of the following:

(1) Allow community input regarding the urban retail water supplier's implementation plan for complying with this part.

(2) Consider the economic impacts of the urban retail water supplier's implementation plan for complying with this part.

(3) Adopt a method, pursuant to subdivision (b) of Section 10608.20, for determining its urban water use target.

(b) In complying with this part, an urban retail water supplier may meet its urban water use target through efficiency improvements in any combination among its customer sectors. An urban retail water supplier shall avoid placing a disproportionate burden on any customer sector.

(c) For an urban retail water supplier that supplies water to a United States Department of Defense military installation, the urban retail water supplier's implementation plan for complying with this part shall consider the United States Department of Defense military installation's requirements under federal Executive Order 13423.

(d) (1) Any ordinance or resolution adopted by an urban retail water supplier after the effective date of this section shall not require existing customers as of the effective date of this section, to undertake changes in product formulation, operations, or equipment that would reduce process water use, but may provide technical assistance and financial incentives to those customers to implement efficiency measures for process water. This section shall not limit an ordinance or resolution adopted pursuant to a declaration of drought emergency by an urban retail water supplier.

(2) This part shall not be construed or enforced so as to interfere with the requirements of Chapter 4 (commencing with Section 113980) to Chapter 13 (commencing with Section 114380), inclusive, of Part 7 of Division 104 of the Health and Safety Code, or any requirement or standard for the protection of public health, public safety, or worker safety established by federal, state, or local government or recommended by recognized standard setting organizations or trade associations.

10608.28.

(a) An urban retail water supplier may meet its urban water use target within its retail service area, or through mutual agreement, by any of the following:

(1) Through an urban wholesale water supplier.

(2) Through a regional agency authorized to plan and implement water conservation, including, but not limited to, an agency established under the Bay Area Water Supply and Conservation Agency Act (Division 31 (commencing with Section 81300)).

(3) Through a regional water management group as defined in Section 10537.

(4) By an integrated regional water management funding area.

(5) By hydrologic region.

(6) Through other appropriate geographic scales for which computation methods have been developed by the department.

(b) A regional water management group, with the written consent of its member agencies, may undertake any or all planning, reporting, and implementation functions under this chapter for the member agencies that consent to those activities. Any data or reports shall provide information both for the regional water management group and separately for each consenting urban retail water supplier and urban wholesale water supplier.

10608.32. All costs incurred pursuant to this part by a water utility regulated by the Public Utilities Commission may be recoverable in rates subject to review and approval by the Public Utilities Commission, and may be recorded in a memorandum account and reviewed for reasonableness by the Public Utilities Commission.

10608.36. Urban wholesale water suppliers shall include in the urban water management plans required pursuant to Part 2.6 (commencing with Section 10610) an assessment of their present and proposed future measures, programs, and policies to help achieve the water use reductions required by this part.

10608.40. Urban water retail suppliers shall report to the department on their progress in meeting their urban water use targets as part of their urban water management plans submitted pursuant to Section 10631. The data shall be reported using a standardized form developed pursuant to Section 10608.52.

10608.42. The department shall review the 2015 urban water management plans and report to the Legislature by December 31, 2016, on progress towards achieving a 20-percent reduction in urban water use by December 31, 2020. The report shall include recommendations on changes to water efficiency standards or urban water use targets in order to achieve the 20-percent reduction and to reflect updated efficiency information and technology changes.

10608.43. The department, in conjunction with the California Urban Water Conservation Council, by April 1, 2010, shall convene a representative task force consisting of academic experts, urban retail water suppliers, environmental organizations, commercial water users, industrial water users, and institutional water users to develop alternative best management practices for commercial, industrial, and institutional users and an assessment of the potential statewide water use efficiency improvement in the commercial, industrial, and institutional sectors that would result from implementation of these best management practices. The taskforce, in conjunction with the department, shall submit a report to the Legislature by April 1, 2012, that shall include a review of multiple sectors within commercial, industrial, and institutional users and that shall recommend water use efficiency standards for

commercial, industrial, and institutional users among various sectors of water use. The report shall include, but not be limited to, the following:

(a) Appropriate metrics for evaluating commercial, industrial, and institutional water use.

(b) Evaluation of water demands for manufacturing processes, goods, and cooling.

(c) Evaluation of public infrastructure necessary for delivery of recycled water to the commercial, industrial, and institutional sectors.

(d) Evaluation of institutional and economic barriers to increased recycled water use within the commercial, industrial, and institutional sectors.

(e) Identification of technical feasibility and cost of the best management practices to achieve more efficient water use statewide in the commercial, industrial, and institutional sectors that is consistent with the public interest and reflects past investments in water use efficiency.

10608.44. Each state agency shall reduce water use on facilities it operates to support urban retail water suppliers in meeting the target identified in Section 10608.16.

APPENDIX C

COORDINATION LETTERS

COVINA IRRIGATING COMPANY

January 20, 2011

City Of Covina
Mr. Steve Henley
Public Works Director
125 E. College St.
Covina, CA 91723

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[1]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

As an urban water supplier, CIC is required pursuant to Section 10620(d)(2) of the UWMP Act to coordinate with water management agencies, relevant public agencies and other water suppliers on the preparation of the UWMP. CIC will be reviewing the UWMP and will make amendments and changes, as appropriate. CIC invites you to submit comments in anticipation of the development of our 2010 UWMP.

Please provide written comments within the next 15 days to CIC.

Sincerely,

David De Jesus
President / G.M.

[1]Section 10617 of the Urban Water Management Planning Act states, ""*Urban Water Supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.*

146 E. COLLEGE STREET • POST OFFICE BOX 306 • COVINA, CA 91723
(626) 332-1502 • FAX (626) 967-5942

COVINA IRRIGATING COMPANY

January 20, 2011

City Of Glendora
Mr. Steve Patton
Water Division Manager
116 E. Foothill Blvd.
Glendora, CA 91741

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[2]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

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President / G.M.

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(626) 332-1502 • FAX (626) 967-5942

COVINA IRRIGATING COMPANY

January 20, 2011

Golden State Water Company
Mr. Benjamin Lewis
Water System Manager
401 S. San Dimas Canyon Rd.
San Dimas, CA 91773

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[3]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

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Please provide written comments within the next 15 days to CIC.

Sincerely,

David De Jesus
President / G.M.

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(626) 332-1502 • FAX (626) 967-5942

COVINA IRRIGATING COMPANY

January 20, 2011

Suburban Water Systems
Mr. Richard Rich
Water Production Manager
1211 E. Center Court Dr.
Covina, CA 91724-3603

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[4]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

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President / G.M.

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146 E. COLLEGE STREET • POST OFFICE BOX 306 • COVINA, CA 91723
(626) 332-1502 • FAX (626) 967-5942

COVINA IRRIGATING COMPANY

January 20, 2011

Valencia Heights Water Company
Mr. David Michalko
General Manager
3009 Virginia Ave.
West Covina, CA 91791

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[5]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

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Sincerely,

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President / G.M.

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COVINA IRRIGATING COMPANY

January 20, 2011

Valley Counties Water Company
Mr. Brian Dickenson
General Manager
14521 E. Ramona Blvd
Baldwin Park, CA 91706

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

January 20, 2011

County of Los Angeles
Registrar – Recorder / County Clerk

12400 Imperial Highway
Norwalk, CA 90650

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[7]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

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COVINA IRRIGATING COMPANY

January 20, 2011

Main San Gabriel Basin Watermaster
Ms. Carol Williams
Executive Director
725 N. Azusa Ave.
Azusa, CA 91702

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[8]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

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COVINA IRRIGATING COMPANY

January 20, 2011

Three Valleys Municipal Water District
Mr. Richard Hansen
General Manager
1021 E. Miramar Ave.
Claremont, CA 91711-2052

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[9]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

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COVINA IRRIGATING COMPANY

January 20, 2011

Upper San Gabriel Valley Municipal Water District
Mr. Shane Chapman
General Manager
11310 Valley Blvd.
El Monte, CA 91731

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[10]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

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APPENDIX D

NOTIFICATION LETTERS

COVINA IRRIGATING COMPANY

March 24, 2011

City Of Azusa
Mr. Chet Anderson
725 N. Azusa Ave.
Azusa, CA 91702

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[1]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

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COVINA IRRIGATING COMPANY

March 24, 2011

City Of Baldwin Park
Mr. Michael Salas
14403 E. Pacific Ave.
Baldwin Park, CA 91706

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[1]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

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COVINA IRRIGATING COMPANY

March 24, 2011

City Of Covina
Mr. Steve Henley
Public Works Director
125 E. College St.
Covina, CA 91723

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

March 24, 2011

City Of Glendora
Mr. Steve Patton
Water Division Manager
116 E. Foothill Blvd.
Glendora, CA 91741

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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(626) 332-1502 • FAX (626) 967-5942

COVINA IRRIGATING COMPANY

March 24, 2011

City Of Industry
Mr. John Ballas
15625 E. Stafford St. #100
City of Industry, CA 91744

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

March 24, 2011

City Of Irwindale
Mr. Kwok Tam
505 N. Irwindale Ave.
Irwindale, CA 91706

COVINA IRRIGATING COMPANY
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(626) 332-1502 • FAX (626) 967-5942

COVINA IRRIGATING COMPANY

March 24, 2011

City of La Puente
Rene Salas
15900 E. Main St.
La Puente, CA 91744

COVINA IRRIGATING COMPANY
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(626) 332-1502 • FAX (626) 967-5942

COVINA IRRIGATING COMPANY

March 24, 2011

City of La Verne
Mr. Dan Keesey
3660 "D" St.
La Verne, CA 91750

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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(626) 332-1502 • FAX (626) 967-5942

COVINA IRRIGATING COMPANY

March 24, 2011

City of San Dimas
Mr. Krishna Patel
245 E. Bonita Ave.
San Dimas, CA 91773

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

March 24, 2011

City of Walnut
Mr. Dave Gilbertson
21201 La Puente Rd.
Walnut, CA 91789

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

March 24, 2011

City of West Covina
Shannon Yauchzee
1444 W. Garvey Avenue, Rm 215
West Covina, CA 91790

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

March 24, 2011

County of Los Angeles
Registrar – Recorder / County Clerk
12400 Imperial Highway
Norwalk, CA 90650

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[1]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

As an urban water supplier, CIC is required pursuant to Section 10621(b) of the UWMP Act to notify, at least 60 days prior to the public hearing on the UWMP, any city or county within which CIC provides water supplies that CIC will be reviewing the UWMP and considering amendments or changes to the UWMP. CIC will be reviewing the UWMP and will make amendments and changes, as appropriate. CIC invites you to submit comments in anticipation of the development of our 2010 UWMP.

Please provide written comments within the next 15 days to CIC.

Sincerely,

David De Jesus
President / G.M.

[1]Section 10617 of the Urban Water Management Planning Act states, ""*Urban Water Supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.*

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APPENDIX E

NOTICE OF PUBLIC HEARING

SUNDAY, MAY 22, 2011

TODAY 72/57 TOMORROW 70/55 Full weathe Page C8

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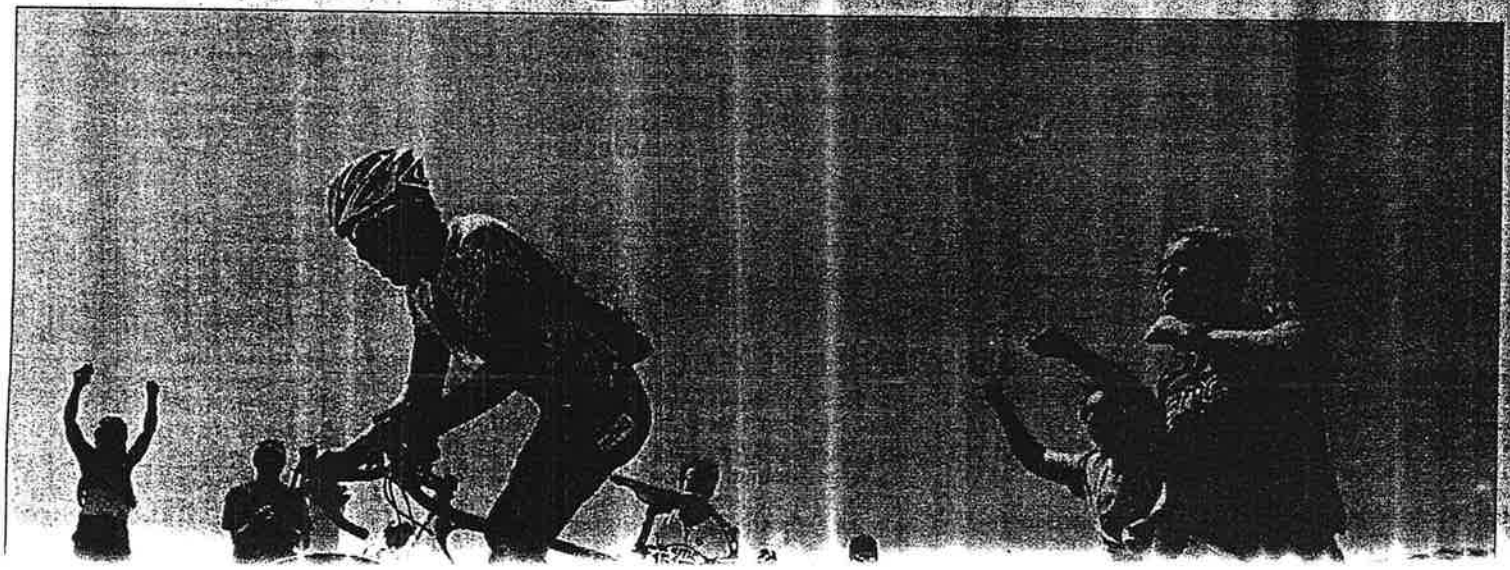

SPECIAL REPORT

Pension reform remains heated

Officials, experts agree there's no quick fix for

Nissan 6553

'10 Versa
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Power Package
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ALLEN GWYNN
CHEVROLET

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NOTICE OF PUBLIC HEARING

Covina Irrigating Company will hold a PUBLIC HEARING on June 2,2011 at 6:00 P.M. for the purpose of adopting its 2010 draft Urban Water Management Plan.

The Covina Irrigating Company Draft 2010 Urban Water Management Plan (Plan) was prepared pursuant to the "Urban Water Management Planning Act", California Water Code, Sections 10608 through 10656. The State Department of Water Resources requires every urban water supplier to prepare and adopt a Plan and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero.

Information regarding Covina Irrigating Company's PUBLIC HEARING is as follows:

Date: June 2, 2011
Time: 6:00 P.M.
Place: City of Covina's Council Chamber

Covina Irrigating Company invites all interested parties and groups to attend and present their comments. A copy of the draft 2010 is available at the Covina Irrigating Company office. To obtain a copy of the 2010 draft Plan prior to the PUBLIC HEARING, contact Covina Irrigating Company office at (626) 332-1502. If you cannot attend the PUBLIC HEARING, you may submit written comments by 5:00 P.M. on June 1, 2011 to Covina Irrigating Company at 146 E. College St., Covina CA 91723.

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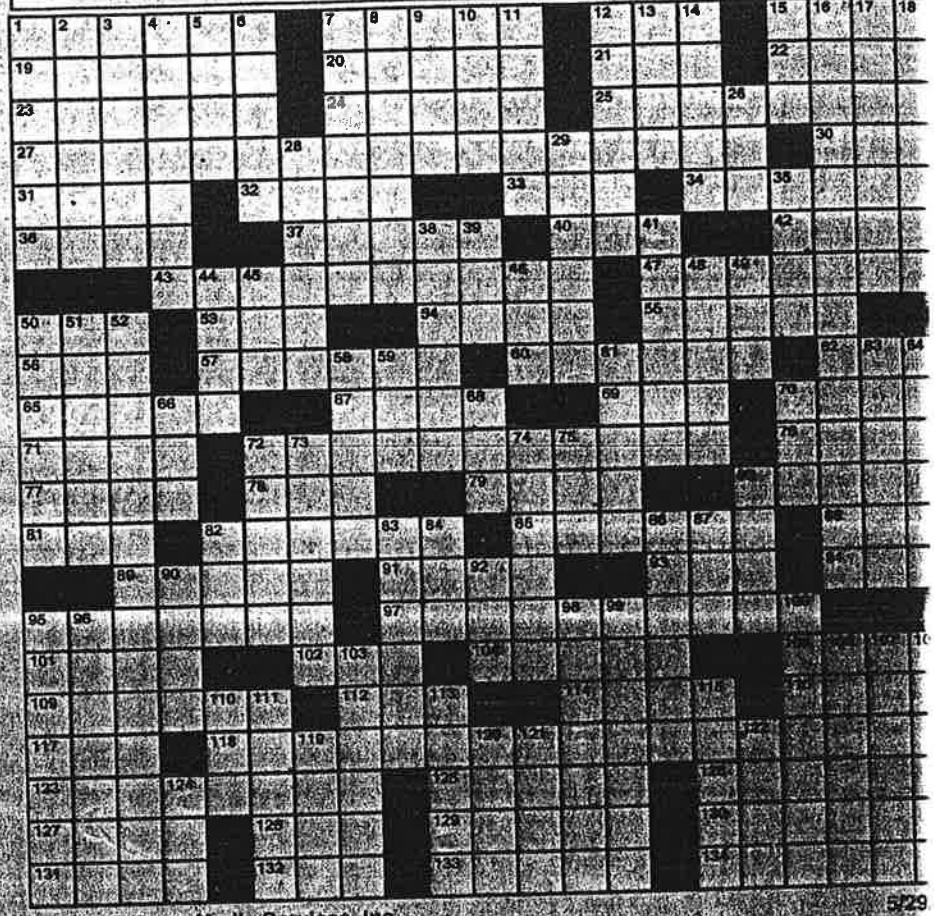
Los Angeles Times Sunday Crossword Puzzle

Edited by Rich Norris and Joyce Nichols Lewis



5/29

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FOR THE RECORD

By Matt Skoczen

ACROSS

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SUNDAY, MAY 29, 2011

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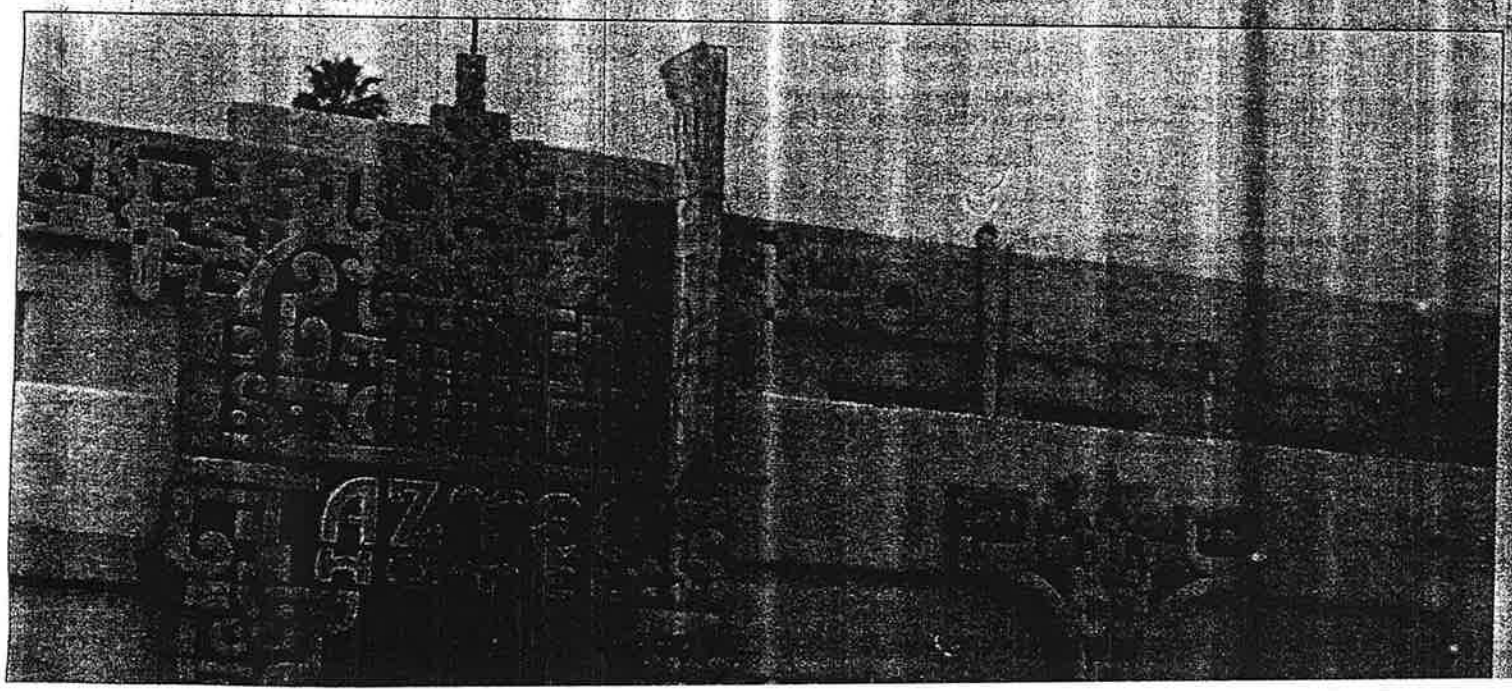

Juvenile offender punished as adults

Courts consider age severity of crimes in making the decisior

By Ruby Gonzales Staff Writer

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Published: May 22, 29, 2011
San Gabriel Valley Tribune Ad#208487

COVINA IRRIGATING COMPANY

May 24, 2011

City of Azusa Light & Water
Attn. Chet Anderson
725 N. Azusa Ave.
Azusa, CA 91702

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[1]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

Pursuant to Section 10621(b) of the UWMP Act to notify, CIC will hold a public hearing on June 2, 2011 at the City of Covina Council chambers located at 125 E. College St., Covina, CA 91723. Notice will be posted in the San Gabriel Valley Tribune for the two Sundays prior to the public hearing. Following any comments received from this hearing, the UWMP will be amended as appropriate and adopted by the Board of Directors of Covina Irrigating Company.

Sincerely,

David De Jesus
President / G.M.

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COVINA IRRIGATING COMPANY

May 24, 2011

City of Baldwin Park
Attn. Michael Salas
14403 E. Pacific Ave.
Baldwin Park, CA 91706

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

The Urban Water Management Planning Act requires every "urban water supplier[1]" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. However, because of recent changes in the UWMP requirements, State law has extended the deadline for the 2010 UWMP to July 1, 2011. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Covina Irrigating Company (CIC) is currently in the process of updating our 2010 UWMP.

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COVINA IRRIGATING COMPANY

CICO
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May 24, 2011

City of Covina
Attn. Steve Henley
Public Works Director
125 E. College St.
Covina, CA 91723

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

May 24, 2011

City of Glendora
Attn. Steve Patton
Water Division Manager
116 E. Foothill Blvd.
Glendora, CA 91741

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

May 24, 2011

City of Industry
Attn. John Ballas
15625 E. Stafford St. #100
City of Industry, CA 91744

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

May 24, 2011

City of Irwindale
Attn. Mr. Kwok Tam
505 N. Irwindale Ave.
Irwindale, CA 91706

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

May 24, 2011

City of La Puente
Attn. Rene Salas
15900 E. Main St.
La Puente:, CA 91744

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

May 24, 2011

City of La Verne
Attn. Dan Keesey
3660 D St.
La Verne, CA 91750

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

May 24, 2011

City of San Dimas
Attn. Mr. Krishna Patel
245 E. Bonita Ave.
San Dimas, CA 91773

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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COVINA IRRIGATING COMPANY

May 24, 2011

City of Walnut
Attn. Mr. Dave Gilbertson
21201 La Puente Rd.
Walnut, CA 91789

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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(626) 332-1502 • FAX (626) 967-5942

COVINA IRRIGATING COMPANY

May 24, 2011

City of West Covina
Attn. Shannon Yauchzee
1444 W. Garvey Ave. Rm. 215
West Covina, CA 91790

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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(626) 332-1502 • FAX (626) 967-5942

COVINA IRRIGATING COMPANY

CICO
Est. 1882

May 24, 2011

County of Los Angeles
Registrar – Recorder / County Clerk
12400 Imperial Highway
Norwalk, CA 90650

COVINA IRRIGATING COMPANY
2010 URBAN WATER MANGEMENT PLAN:

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(626) 332-1502 • FAX (626) 967-5942

APPENDIX F

RESOLUTION ADOPTING PLAN

RESOLUTION TO ADOPT
THE URBAN WATER MANAGEMENT PLAN

COVINA IRRIGATING COMPANY
City of Covina, Los Angeles County, California
June 8, 2011

The Management for COVINA IRRIGATING COMPANY does hereby resolve as follows:

WHEREAS the California Legislature enacted Assembly Bill 797 (Water Code Section 106 1 0 et seq., known as the Urban Water Management Planning Act) during the 1983-1984 Regular Session, and as amended subsequently, which mandates that every supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan, the primary objective of which is to plan for the conservation and efficient use of water; and

WHEREAS Covina Irrigating Company is an urban supplier of water providing over 3,000 acre feet annually for domestic use and

WHEREAS the Plan shall be periodically reviewed at least once every five years, and that the Covina Irrigating Company shall make any amendments or changes to its plan which are indicated by the review; and

WHEREAS the Plan must be adopted by June 30, 2011, after public review and hearing, and filed with the California Department of Water Resources within thirty days of adoption; and

WHEREAS Covina Irrigating Company has therefore, prepared and circulated for public review a draft Urban Water Management Plan, and a properly noticed public hearing regarding said Plan was held by Covina Irrigating Company on June 2nd, 2011, and

WHEREAS Covina Irrigating Company did prepare and shall file said Plan with the California Department of Water Resources by July 31, 2011,

NOW, THEREFORE, BE IT RESOLVED by the Management of Covina Irrigating Company as follows:

1. The 2010 Urban Water Management Plan is hereby adopted and ordered filed;
2. The Chief Operating Officer is hereby authorized and directed to file the 2010 Urban Water Management Plan with the California Department of Water Resources within 30 days after this date;
3. The Chief Operating Officer is hereby authorized and directed to implement the Water Conservation Programs as set forth in the 2010 Urban Water Management Plan, which includes water shortage contingency analysis and recommendations regarding necessary procedures, rules, and regulations to carry out effective and equitable water conservation and water recycling programs;
4. In a water shortage, the Chief Operating Officer is hereby authorized to declare a Water Shortage Emergency according to the Water Shortage Contingency Plan indicated in the Urban Water Management Plan, and implement necessary elements of the Water Shortage Contingency Plan;
5. The Chief Operating Officer shall recommend to the Management additional procedures, rules, and regulations to carry out effective and equitable allocation of water resources.

6/8/11

Steven N. Reenders — Date
Chairman

Michael O. Quinn — 6/8/11 Date
Vice Chairman

APPENDIX G

LONG BEACH JUDGMENT

Superior Court of the State of California
For the County of Los Angeles

BOARD OF WATER COMMISSIONERS OF THE CITY OF LONG BEACH, et al., *Plaintiffs* vs. SAN GABRIEL VALLEY WATER COMPANY, et al., *Defendants*	**No. 722647** **SETTLEMENT DOCUMENTS**

STIPULATION FOR JUDGMENT
JUDGMENT
MAP OF WHITTIER NARROWS
ENGINEERING APPENDIX
REIMBURSEMENT CONTRACT

Approved by Joint Negotiating Committees July 6, 1964.

EXHIBIT NO. 7

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF LOS ANGELES

BOARD OF WATER COMMISSIONERS OF THE CITY OF LONG BEACH, a municipal corporation; CENTRAL BASIN MUNICIPAL WATER DISTRICT, a municipal water district; and CITY OF COMPTON, a municipal corporation, Plaintiffs, vs. SAN GABRIEL VALLEY WATER COMPANY, a corporation; AZUSA AGRICULTURAL WATER COMPANY, a corporation; AZUSA VALLEY WATER COMPANY, a corporation; CALIFORNIA WATER & TELEPHONE COMPANY, a corporation; THE COLUMBIA LAND AND WATER COMPANY, a corporation; COVINA IRRIGATING COMPANY, a corporation; CROSS WATER COMPANY, a corporation; DUARTE WATER COMPANY, a corporation; EAST PASADENA WATER CO. LTD., a corporation; GLENDORA IRRIGATING COMPANY, a corporation; SAN DIMAS WATER COMPANY, a corporation; SOUTHERN CALIFORNIA WATER COMPANY, a corporation; SUBURBAN WATER SYSTEMS, a corporation; SUNNY SLOPE WATER CO., a corporation; VALLECITO WATER CO., a corporation; CITY OF ALHAMBRA, a municipal corporation; CITY OF ARCADIA, a municipal corporation; CITY OF AZUSA, a municipal corporation; CITY OF COVINA, a municipal corporation; CITY OF EL MONTE, a municipal corporation; CITY OF GLENDORA, a municipal corporation; CITY OF MONROVIA, a municipal corporation; CITY OF MONTEREY PARK, a municipal corporation; CITY OF SOUTH PASADENA, a municipal corporation; BALDWIN PARK COUNTY WATER DISTRICT, a county water district; and SAN GABRIEL COUNTY WATER DISTRICT, a county water district, Defendants, UPPER SAN GABRIEL VALLEY MUNICIPAL WATER	NO. 722,647 STIPULATION FOR JUDGMENT

DISTRICT, a municipal water district, and CALIFORNIA DOMESTIC WATER COMPANY, a corporation,

Intervenors.

Plaintiffs Central Basin Municipal Water District, a municipal water district (herein sometimes referred to as Central Municipal); City of Long Beach, a municipal corporation, acting by and through the Board of Water Commissioners of the City of Long Beach; and City of Compton, a municipal corporation; and defendants City of Alhambra, a municipal corporation; City of Arcadia, a municipal corporation; City of Azusa, a municipal corporation; Azusa Agricultural Water Company, a corporation, sued herein as DOE 1; Azusa Valley Water Company, a corporation, for itself and as successor by merger to Azusa Irrigating Company, a corporation; Baldwin Park County Water District, a county water district; California Water and Telephone Company, a corporation; Columbia Land and Water Company, a corporation; City of Covina, a municipal corporation; Covina Irrigating Company, a corporation; Cross Water Company, a corporation, sued herein as DOE 2; Duarte Water Company (formerly Duarte Domestic Water Company), a corporation; East Pasadena Water Company, Ltd., a corporation, for itself and as successor by merger to California-Michigan Land and Water Company, a corporation; City of El Monte, a municipal corporation; City of Glendora, a municipal corporation; Glendora Irrigating Company, a corporation; City of Monrovia, a municipal corporation; City of Monterey Park, a municipal corporation; San Dimas Water Company, a corporation, sued herein as DOE 3; San Gabriel County Water District, a county water district; San Gabriel Valley Water Company, a corporation; Southern California Water Company, a corporation; City of South Pasadena, a municipal corporation; Suburban Water Systems, a corporation; Sunny Slope Water Company, a corporation; and Vallecito Water Company, a corporation; and

intervening defendant Upper San Gabriel Valley Municipal Water District, a municipal water district (herein sometimes referred to as Upper District); and intervening defendant California Domestic Water Company, a corporation; stipulate and agree as follows:

1. A Judgment in the form attached hereto as Exhibit I may be made and entered by the Court in the above-entitled action.

2. The following facts, considerations and objectives, among others, provide the basis for this Stipulation for Judgment:

(a) By their complaint plaintiffs seek a determination of the rights of the defendants, other than Upper District, in and to the waters of the San Gabriel River System and further seek to restrain defendants, other than Upper District, from an alleged interference with the rights of plaintiffs and persons represented by Central Municipal in and to said waters.

(b) At the present time, and for some time prior to the commencement of this action, the water supply of the San Gabriel River System has been inadequate to supply the diversions and extractions of both plaintiffs and defendants other than Central Municipal and Upper District but including the persons represented by Central Municipal and by Upper District, and as a result said diversions and extractions have exceeded, and still exceed, the natural replenishment of the water supply of the San Gabriel River System.

(c) The parties recognize and agree that the natural outflow from the San Gabriel Valley

to the Lower Area as defined in the Judgment has varied, and will vary from year to year, depending on the amount of precedent rainfall and other conditions.

(d) The parties recognize and agree that there is a need for a declaration of rights and a physical solution for the problems resulting from the inadequate and varying water supplies of the San Gabriel River System.

(e) The parties agree that the physical solution contained in said Judgment will bring about a fair division of the water of the San Gabriel River System as between plaintiffs and defendants other than Central Municipal and Upper District but including the persons represented by Central Municipal and by Upper District.

(f) The parties recognize that it may be necessary for defendants or some of them to use supplemental water in order to comply with the obligations imposed under said physical solution.

(g) Defendant Upper District is now a member unit of The Metropolitan Water District of Southern California, which will be supplied with water from sources in northern California under an existing contract with the State of California. Certain of the defendants not within the area of defendant Upper District are within the area of San Gabriel Valley Municipal Water District, which district also has contracted with the State of California for delivery of water from sources in northern California. It is anticipated that the

importation of this water will augment the natural supply of ground water within Upper Area as defined in the Judgment. Defendant Upper District intends to replenish the San Gabriel Valley with supplemental supplies.

3. The parties hereto hereby waive any and all Findings of Fact, Conclusions of Law, and any and all notice of the making or entry herein of the attached form of Judgment, and all rights of appeal, if any, from such Judgment.

4. Plaintiffs and defendants agree that during the period prior to entry of the attached form of Judgment, they will cooperate in endeavoring to collect such information as the Watermaster would obtain if the attached form of Judgment had been entered and the Watermaster had been appointed by the Court pursuant to paragraph 6 of the Judgment, which information is herein referred to as "said information." To that end, the parties hereto hereby agree that promptly following the complete execution of this stipulation by all parties, Upper District and Central Municipal shall each notify the other in writing as to the identity of the person who it expects will be nominated as the representative of Upper Area Parties or Lower Area Parties, as the case may be, under paragraph 6 of the Judgment. Upon receiving such notice, Upper District and Central Municipal shall each instruct its designated nominee that until the attached form of Judgment is entered and the Watermaster has been appointed pursuant to paragraph 6 of the Judgment he shall in cooperation with the other designated nominee do all things reasonably necessary to obtain such of said information as is available from the parties hereto or any public agency.

5. Judgment shall not be rendered pursuant hereto unless and until the execution of this stipulation by Central Basin Municipal Water District and by Upper San Gabriel Valley

Municipal Water District shall have been validated by a decree or decrees rendered in a proceeding or proceedings instituted in a court of competent jurisdiction of the State of California, and either such decree or decrees shall have become final or both of said Districts shall have further stipulated that said Judgment shall be rendered.

6. This stipulation may be executed in counterparts (each counterpart being an exact copy or duplicate of the original) and all counterparts collectively shall be considered as constituting one complete Stipulation for Judgment.

DATED: _____, 1964.

Attorneys (for the respective party listed opposite and to the right of the respective attorneys listed below)	Signature of Stipulating Party and Its Designation of Mailing Address
Leonard Putnam City Attorney Clifford E. Hayes Principal Deputy City Attorney City of Long Beach	Board of Water Commissioners of the City of Long Beach
By _____	By _____ Its _____ President
	By _____ Its _____ Secretary
Burris & Lagerlof Stanley C. Lagerlof H. Jess Senecal Jack T. Swafford	1800 East Wardlow Road Long Beach 7, California
By _____	

Burris & Lagerlof
Stanley C. Lagerlof
H. Jess Senecal
Jack T. Swafford

By _____

Central Basin Municipal Water District

By _____

Its President

By _____

Its Secretary

7439 East Florence Avenue
Downey, California

Lloyd A. Bulloch
City Attorney
City of Compton

_____

City of Compton

By _____

Its Mayor

205 South Willowbrook Avenue
Compton, California

Burris & Lagerlof
Stanley C. Lagerlof
H. Jess Senecal
Jack T. Swafford

By _____

Don D. Bercu
City Attorney
City of Alhambra

_____

City of Alhambra

By _____

Its Mayor

City Hall
111 South First Street
Alhambra, California

Taylor & Smith

By _____

James A. Nicklin
City Attorney
City of Arcadia

_____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

City of Arcadia

By _____

Its Mayor

City Hall
Arcadia, California

Harry C. Williams
City Attorney
City of Azusa

_____

Taylor & Smith

By _____

City of Azusa

By _____

Its Mayor

City Hall
213 East Foothill Boulevard
Azusa, California

Taylor & Smith

By _____

Azusa Agricultural Water Company

By _____

Its ____ President

By _____

Its _____ Secretary

18352 East Foothill Boulevard
Azusa, California

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

Azusa Valley Water Company

By _____

Its ____ President

By _____

Its _____ Secretary

P. O. Box "W"
Azusa, California

Surr & Hellyer

By _____

Clayson, Stark, Rothrock & Mann

By _____

Baldwin Park County Water District

By _____

Its ____ President

By _____

Its _____ Secretary

14521 East Ramona Boulevard
Baldwin Park, California

Bacigalupi, Elkus & Salinger

By _____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock & Mann

By _____

California Water & Telephone Company

By _____

Its ____ President

By _____

Its _____ Secretary

300 Montgomery Street
San Francisco, California

Allard, Shelton & O'Connor

By _____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock & Mann

By _____

Columbia Land & Water Company

By _____

Its ____ President

By _____

Its _____ Secretary

P. O. Box 296
San Dimas, California

Allard, Shelton & O'Connor

By _____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

Kerckhoff & Kerckhoff

By _____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

George C. Gillette

_____

Henry W. Shatford
Shatford & Shatford

By _____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

City of Covina

By _____

Its Mayor

City Hall
Covina, California

Covina Irrigating Company

By _____

Its ____ President

By _____

Its _____ Secretary

146 East College Street
Covina, California

Cross Water Company

By _____

Its ____ President

By _____

Its _____ Secretary

15825 East Main Street
La Puente, California

Duarte Water Company

By _____

Its ____ President

By _____

Its _____ Secretary

1101 South Oak Avenue
Duarte, California

Gray & Maddox

By _____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

East Pasadena Water Company, Ltd.

By _____

Its ____ President

By _____

Its _____ Secretary

269 South Rosemead
Pasadena, California

James A. Nicklin
City Attorney
City of El Monte

_____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

City of El Monte

By _____

Its Mayor

City Hall
El Monte, California

Leonard A. Shelton
City Attorney
City of Glendora

_____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

City of Glendora

By _____

Its Mayor

City Hall
Glendora, California

Allard, Shelton & O'Connor

By _____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

Glendora Irrigating Company

By _____

Its ____ President

By _____

Its _____ Secretary

224 North Michigan Avenue
Glendora, California

Homer H. Bell
City Attorney
City of Monrovia

_____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

City of Monrovia

By _____

Its Mayor

City Hall
Monrovia, California

Charles R. Martin
City Attorney
City of Monterey Park

_____

Taylor & Smith

By _____

City of Monterey Park

By _____

Its Mayor

City Hall
320 West Newmark Avenue
Monterey Park, California

Allard, Shelton & O'Connor

By _____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

San Dimas Water Company

By _____

Its ____ President

By _____

Its _____ Secretary

P. O. Box 181
San Dimas, California

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

San Gabriel County Water District

By _____

Its ____ President

By _____

Its _____ Secretary

8229 East Las Tunas Drive
San Gabriel, California

J. E. Skelton

_____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

San Gabriel Valley Water Company

By _____

Its ____ President

By _____

Its _____ Secretary

11142 Garvey Avenue
El Monte, California

O'Melveny & Myers

By _____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

Charles R. Martin
City Attorney
City of South Pasadena

_____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

Frank E. Gray

_____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

Hahn & Hahn

By _____

Southern California Water Company

By _____

Its ____ President

By _____

Its _____ Secretary

11911 South Vermont Avenue
Los Angeles 44, California

City of South Pasadena

By _____

Its Mayor

825 Mission Street
South Pasadena, California

Suburban Water Systems

By _____

Its ____ President

By _____

Its _____ Secretary

16340 East Maplegrove Street
La Puente, California

Sunny Slope Water Company

By _____

Its ____ President

By _____

Its _____ Secretary

1040 El Campo Drive
Pasadena, California

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

Vallecito Water Company

By _____

Its ____ President

By _____

Its _____ Secretary

749 South Ninth Avenue
City of Industry, California

Stearns, Gross and Moore

By _____

California Domestic Water Company

By _____

Its ____ President

By _____

Its _____ Secretary

P. O. Box 1026, Perry Annex
Whittier, California

Ralph B. Helm

_____

Upper San Gabriel Valley
Municipal Water District

By _____

Its ____ President

By _____

Its _____ Secretary

11229 East Valley Boulevard
El Monte, California

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF LOS ANGELES

BOARD OF WATER COMMISSIONERS OF THE CITY OF LONG BEACH, a municipal corporation; CENTRAL BASIN MUNICIPAL WATER DISTRICT, a municipal water district; and CITY OF COMPTON, a municipal corporation, Plaintiffs, vs. SAN GABRIEL VALLEY WATER COMPANY, a corporation; AZUSA AGRICULTURAL WATER COMPANY, a corporation; AZUSA VALLEY WATER COMPANY, a corporation; CALIFORNIA WATER & TELEPHONE COMPANY, a corporation; THE COLUMBIA LAND AND WATER COMPANY, a corporation; COVINA IRRIGATING COMPANY, a corporation; CROSS WATER COMPANY, a corporation; DUARTE WATER COMPANY, a corporation; EAST PASADENA WATER CO. LTD., a corporation; GLENDORA IRRIGATING COMPANY, a corporation; SAN DIMAS WATER COMPANY, a corporation; SOUTHERN CALIFORNIA WATER COMPANY, a corporation; SUBURBAN WATER SYSTEMS, a corporation; SUNNY SLOPE WATER CO., a corporation; VALLECITO WATER CO., a corporation; CITY OF ALHAMBRA, a municipal corporation; CITY OF ARCADIA, a municipal corporation; CITY OF AZUSA, a municipal corporation; CITY OF COVINA, a municipal corporation; CITY OF EL MONTE, a municipal corporation; CITY OF GLENDORA, a municipal corporation; CITY OF MONROVIA, a municipal corporation; CITY OF MONTEREY PARK, a municipal corporation; CITY OF SOUTH PASADENA, a municipal corporation; BALDWIN PARK COUNTY WATER DISTRICT, a county water district; and SAN GABRIEL COUNTY WATER DISTRICT, a county water district, Defendants, UPPER SAN GABRIEL VALLEY MUNICIPAL WATER	NO. 722,647 JUDGMENT

DISTRICT, a municipal water district, and CALIFORNIA DOMESTIC WATER COMPANY, a corporation,

Intervenors.

The original complaint herein was filed by Plaintiffs on May 12, 1959, and an amended complaint was filed herein on June 8, 1961. Each Defendant in this action filed an answer to the amended complaint denying the material allegations therein. On _____, 1964, and _____, 1964, respectively, Upper San Gabriel Valley Municipal Water District, a municipal water district, and California Domestic Water Company, a corporation, intervened in the action as Defendants. On _____, 1964, there was filed herein a Stipulation for Judgment signed by all of the parties to this action.

After due examination and consideration of the pleadings, said Stipulation for Judgment and other documents and papers on file herein, it appears to the Court that:

(a) In bringing and maintaining this action, plaintiff Central Basin Municipal Water District, a municipal water district, has done so as a representative of and for the benefit of all owners of water rights within, all owners of land within, and all inhabitants of, the district, except to the extent that defendant California Domestic Water Company is representing itself.

(b) In intervening in this action, defendant Upper San Gabriel Valley Municipal Water District, a municipal water district, has done so as representative of and for the benefit of all owners of water rights within, all owners of land within, and all inhabitants of, the district, except to the extent that other Defendants who are within the district are representing themselves.

(c) There is a need for a physical solution to the complex water problems which have given rise to this action.

(d) The physical solution embodied in this Judgment is a feasible, equitable and just resolution of the issues presented by the amended complaint and answers thereto on file herein, and it will bring about a fair division of the water supply of the San Gabriel River System between Upper Area and Lower Area, as those terms are hereinafter defined.

(e) On the basis of the Stipulation for Judgment filed herein and the consent of all Plaintiffs and Defendants it is in the interests of justice and in furtherance of the water policy of the State of California to proceed without trial and to make and enter this Judgment.

Now, therefore, it is hereby ORDERED, ADJUDGED AND DECREED:

JURISDICTION 1. The Court has jurisdiction of the subject matter of this action and of the Upper Area Parties and Lower Area Parties, as those terms are hereinafter defined.

EXHIBITS 2. The following Exhibits marked A and B, are attached to this Judgment and made a part hereof:

(a) Exhibit A -- Map entitled "Rio Hondo and San Gabriel River in Vicinity of Whittier Narrows Dam".

(b) Exhibit B -- Engineering Appendix.

DEFINITIONS 3. As used in this Judgment, the following terms shall have the meanings assigned to them:

(a) Central Municipal -- Central Basin Municipal Water District.

(b) Upper District -- Upper San Gabriel Valley Municipal Water District.

(c) Lower Area Parties -- the Plaintiffs, and

all persons, firms and corporations, public or private, who are represented by Central Municipal.

(d) Upper Area Parties -- the Defendants, and all persons, firms and corporations, public or private, who are represented by Upper District.

(e) Upper Area -- the area (exclusive of the Raymond Basin and the portion of San Gabriel Mountains tributary thereto) wherein surface and subsurface waters are tributary to Whittier Narrows upstream from the common boundary of Upper District and Central Municipal through Whittier Narrows.

(f) Lower Area -- the area which lies downstream from the common boundary of Central Municipal and Upper District through Whittier Narrows and which is included within the incorporated limits of the Plaintiffs.

(g) Whittier Narrows -- a gap between Merced Hills and Puente Hills shown on Exhibit A.

(h) Montebello Forebay -- the area designated as such on Exhibit A.

(i) Export to Lower Area -- water diverted from surface streams in Upper Area or pumped or developed from underground sources in Upper Area, and in either case conveyed by conduit through Whittier Narrows.

(j) Subsurface Flow -- all water which passes as ground water through Whittier Narrows at the "narrowest section" as shown on Exhibit A.

(k) Surface Flow -- all water other than Export to Lower Area and Subsurface Flow, which passes from Upper Area to Lower Area through Whittier Narrows.

(l) Usable Water -- all Surface Flow, Subsurface Flow and Export to Lower Area, but excluding:

(1) that portion of Surface Flow, if any, which crosses the southerly boundary of Montebello Forebay as surface runoff less the amount of Surface Flow which has been caused to flow out of Montebello Forebay as surface runoff by any spreading of water in Montebello Forebay by or on behalf of Lower Area Parties, or any of them;

(2) water imported by or on behalf of Lower Area Parties from outside of the watershed of the San Gabriel River System;

(3) Reclaimed Water, as defined in subparagraph (o) herein, provided, however, that Reclaimed Water (other than that reclaimed by or on behalf of Lower Area Parties) which is percolated and commingled with ground water in Upper Area shall be deemed Subsurface Flow, Surface Flow, or Export to Lower Area as the case may be, when and if it passes through Whittier Narrows;

(4) that portion, if any, of Export to Lower Area which in any Water Year after September 30, 1966, exceeds 23,395 acre-feet;

(5) Make-up Water, as defined in subpara-

graph (m) herein; and

(6) any water whether flowing on the surface or beneath the surface of the ground which has passed any of the points of surface measurement in Whittier Narrows shown on Exhibit B and prior to its passing from Upper Area to Lower Area is intercepted and returned upstream by conduit or otherwise so that it could again pass any such points of measurement.

(m) Make-up Water -- water of usable quality for ground water recharge required to be delivered to Lower Area under terms of paragraph 5 of this Judgment.

(n) Water Year -- October 1 through the following September 30.

(o) Reclaimed Water -- water reclaimed from sewage generated in the watershed of the San Gabriel River System above Whittier Narrows.

DECLARATION OF RIGHT

4. Lower Area Parties have rights in the water supply of the San Gabriel River System. The nature and extent of such rights is not known; however, Lower Area Parties and all other persons downstream from Whittier Narrows who receive water from the San Gabriel River System or have rights in and to such water, shall have, as against Upper Area Parties and all other pumpers of water in the San Gabriel Valley, a right to receive from Upper Area an average annual usable supply of ninety-eight thousand four hundred fifteen (98,415) acre-feet of water over a long-term period of normal rainfall derived as set forth in Exhibit B, consisting

of Surface Flow, Subsurface Flow, Export to Lower Area and Make-up Water. If in the future a court of competent jurisdiction shall decree that any person downstream from Whittier Narrows within Central and West Basin Water Replenishment District who is not bound by this Judgment, shall have, as against Upper Area Parties and substantially all other pumpers in the San Gabriel Valley, a right to receive from Upper Area a stated amount of usable supply consisting of Surface Flow, Subsurface Flow, Export to Lower Area or Make-up Water, which right arose out of and is based upon the ownership of land or the production of water downstream from Whittier Narrows and within Central and West Basin Water Replenishment District, then and in that event the stated amount of such right so decreed shall not increase the declared rights as set forth in this paragraph 4.

PHYSICAL SOLUTION

5. In recognition of the complexities of annual supply and demand and variations in the components thereof, the Court hereby declares the following physical solution to be a fair and equitable basis for satisfaction of the declared right set forth in paragraph 4 hereof. Compliance with this paragraph 5 shall constitute full and complete satisfaction of said declared right.

AVERAGE ANNUAL ENTITLEMENT

(a) It is determined that the amount of Lower Area average annual entitlement to Usable Water is ninety-eight thousand four hundred fifteen (98,415) acre-feet.

BASIS OF ANNUAL ENTITLEMENT

(b) The outflow of water from Upper Area through Whittier Narrows to Lower Area has

varied from year to year and will vary from year to year in the future depending on changing conditions of supply and demand; and as to any Water Year, the average annual rainfall for the San Gabriel Valley during the ten (10) consecutive Water Years ending with that Water Year, is a reasonable basis for determining the entitlement of Lower Area to Usable Water for such Water Year.

DETERMINATION OF RAINFALL

(c) The rainfall in each Water Year for the San Gabriel Valley shall be determined by application of the procedures described in Exhibit B.

RAINFALL ADJUSTMENT TABLE

(d) The quantity of water which Lower Area is entitled to receive in any Water Year (hereinafter called Lower Area Annual Entitlement) shall be determined in accordance with the following table, except that no determination of Lower Area Annual Entitlement shall be made for the last year of any Long-term Accounting Period as hereinafter defined.

TABLE A

LOWER AREA ANNUAL ENTITLEMENT
BASED ON 10-YEAR AVERAGE RAINFALL
FOR SAN GABRIEL VALLEY

(In Acre-feet)

Inches of Rain-fall	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
14	64,200	64,900	65,700	66,500	67,200	68,000	68,700	69,500	70,300	71,100
15	71,800	72,600	73,400	74,100	74,900	75,600	76,400	77,200	77,900	78,700
16	79,500	80,200	81,000	81,800	82,600	83,300	84,000	84,800	85,600	86,400
17	87,100	87,900	88,700	89,400	90,200	91,000	91,500	92,500	93,200	94,000
18	94,800	95,300	96,200	96,900	97,600	98,300	98,800	99,500	100,100	100,800
19	101,400	102,000	102,700	103,300	103,900	104,500	105,100	105,700	106,300	107,000
20	107,600	108,200	108,800	109,400	110,100	110,700	111,300	111,900	112,500	113,100
21	113,700	114,300	115,000	115,600	116,200	116,800	117,400	118,100	118,600	119,300
22	119,900	120,400	121,000	121,600	122,200	122,700	123,300	123,900	124,400	125,000
23	125,500	126,100	126,700	127,200	127,800	128,400	128,900	129,500	130,100	130,600
24	131,200	131,700	132,200	132,700	133,100	133,700	134,100	134,700	135,100	135,600

DETERMINATION OF ACCRUED DEBIT OR CREDIT

(e) The difference between the aggregate of water entitlements determined as provided in this Judgment and the aggregate of Usable Water and delivered Make-up Water shall be computed as of the end of each Water Year. Any excess of water entitlements over the quantity of Usable Water and Make-up Water received by Lower Area after September 30, 1963, is hereinafter referred to as Accrued Debit of Upper Area. Any excess of Usable Water and Make-up Water received by Lower Area after September 30, 1963, over water entitlements, is hereinafter referred to as Accrued Credit of Upper Area.

ACCRUED DEBIT

(f) If at the end of any Water Year it is determined pursuant to subparagraph (e) of this paragraph 5 that there is an Accrued Debit of Upper Area, then Upper District shall cause Make-up Water to be delivered to Lower Area during the following Water Year in an amount not less than the sum of (1) one-third of such Accrued Debit of Upper Area, and (2) that portion, if any, of such Accrued Debit of Upper Area over 25,000 acre-feet which remains after deducting said one-third. If Upper District shall fail to deliver Make-up Water as next above provided and Plaintiffs shall have diligently pursued their legal and equitable remedies to cause Upper District to so deliver, and either: (1) it shall be finally determined that Upper District is not obligated to so deliver, or (2) it shall appear that Upper District will not thereafter deliver Make-up Water, then Defendants and any successor or successors in interest by title to a Defendant's water right in Upper Area shall be obligated to so deliver Make-up Water. The provisions of this paragraph are subject to the provisions of paragraph 5(h) below.

ACCRUED CREDIT

(g) If at the end of any Water Year it is determined pursuant to subparagraph (e) of this paragraph 5 that there is an Accrued Credit of Upper Area, then there shall be no obligation to deliver Make-up Water to Lower Area during the following Water Year.

LONG-TERM ACCOUNTING

(h) Following September 30, 1963, a Long-term Accounting shall be made from time to time but not sooner than at the end of 15 Water Years, nor later than 25 Water Years after September 30, 1963, or after the last such accounting, whichever is later. A Long-term Accounting shall be made sooner than said 25-year period whenever the average annual rainfall in the San Gabriel Valley for a period of 15 Water Years or more after September 30, 1963, or after the last such accounting, whichever is later, is at least 18 inches but not more than 19 inches.

In making such Long-term Accounting for any such period (herein called Long-term Accounting Period), the aggregate of all Usable Water and Make-up Water received by Lower Area during such period shall be determined and (a) there shall be deducted from said aggregate the amount of Make-up Water, if any, delivered during such period by reason of the existence of an Accrued Debit of Upper Area at the end of the immediately preceding Long-term Accounting Period, or (b) there shall be added to said aggregate the amount of any Accrued Credit of Upper Area determined to exist at the end of the immediately preceding Long-term Accounting Period. The net aggregate amount of Usable Water and Make-up Water so computed shall be compared to the result to be obtained by (1) multiplying the 98,415 acre-feet of water to be received by

Lower Area as its average annual usable supply by the number of Water Years in the Long-term Accounting Period, and (2) adjusting the product by the percentage by which the average annual rainfall (to the nearest one hundredth of an inch) for the Long-term Accounting Period involved exceeds or is less than 18.52 inches. (i.e.:

$$98{,}415 \times (\text{number of Water Years in Period}) \times \frac{(\text{average rainfall for the Period})}{18.52}.)$$

If as a result of such comparison it is determined that there is a deficiency in the net aggregate amount of Usable Water and Make-up Water received during the Long-term Accounting Period, then such deficiency shall be compensated in the following Water Year by delivery of Make-up Water to Lower Area in the manner and by the means provided herein. If it is determined as a result of such comparison that there is an excess of net aggregate Usable Water and Make-up Water received, then the amount of such excess shall be carried forward as an Accrued Credit of Upper Area.

MAKE-UP WATER DELIVERY

(i) Make-up Water which Defendants are obligated to deliver through Upper District may be delivered by any one or more of the following means:

SURFACE FLOW DELIVERY

(1) By causing water other than Reclaimed Water to flow on the surface into Montebello Forebay by any means and from any source, provided that such deliveries shall

be at such rates or flows and at such times as may be scheduled by the Watermaster.

RECLAIMED WATER CREDIT

(2) By paying to Central Municipal for the benefit of all Lower Area Parties the total amount or any portion of the total amount which Central and West Basin Water Replenishment District or any Plaintiff shall have expended in reclaiming water or for the purchase of Reclaimed Water in the preceding Water Year, and which water when so reclaimed or purchased shall have been passed through Whittier Narrows to Lower Area. Upon written request made by Upper District not later than three months after the end of a Water Year, Central Municipal shall give a written notice to Upper Distric and the Watermaster of the total number of acre-feet of such Reclaimed Water so reclaimed or purchased during the preceding Water Year and of the cost per acre-foot therefor at the existing Whittier Narrows Water Reclamation Plant for reclamation of waste water, and at any future additions thereto, and payment therefor at said cost, or costs, may be made not later than one year after receipt of such written notice. Such payment shall be made for the total production of Reclaimed Water from the existing plant in the preceding Water Year before Upper District shall be entitled to make payment for all, or any portion of,

Reclaimed Water produced in that year by any future addition to that plant. Such payment by Upper District on behalf of Defendants shall be deemed a delivery of Make-up Water equal to the quantity of Reclaimed Water for which the expenditure of a like sum would have paid at the cost, or costs, per acre-foot so paid for such Reclaimed Water. In no event, however, shall any payment by Upper District under this subparagraph (i)(2) be deemed a delivery of Make-up Water in excess of 14,735 acre-feet in any Water Year during which the amount of Make-up Water required to be furnished by Upper Area is available to it at ground water replenishment rates for delivery to Lower Area, except with the prior written consent of Plaintiffs.

DIRECT DELIVERY

(3) By delivering, or causing to be delivered, water to any of Lower Area Parties with consent of Plaintiffs for use in Lower Area.

WATER RIGHTS BOUND

(j) It is further determined and adjudicated that the obligations provided above in subparagraphs (f) and (h) of this paragraph 5 for each Defendant shall constitute and be a servitude upon the existing water rights of each Defendant in and to the water supply of the San Gabriel River System upstream from Lower Area and shall run with and forever bind said water rights for the benefit of the water

rights of Lower Area Parties.

TRANSFER OF WATER RIGHTS

(k) If any Defendant, other than Upper District, shall desire to transfer all or any of its said water rights to a person, firm or corporation, public or private, who or which is not then bound by this Judgment as a Defendant, such Defendant shall as a condition to being discharged as hereinafter provided cause such transferee to appear in this action and file a valid and effective express assumption of the obligations imposed upon such Defendant under this Judgment as to such transferred water rights. Such appearance and assumption of obligations shall include the filing of a designation of the address to which shall be mailed all notices, requests, objections, reports and other papers permitted or required by the terms of this Judgment.

If any Defendant shall have transferred all of its said water rights and each transferee not theretofore bound by this Judgment as a Defendant shall have appeared in this action and filed a valid and effective express assumption of the obligations imposed upon such Defendant under this Judgment as to such transferred water rights, such transferring Defendant shall thereupon be discharged from all obligations hereunder. If any Defendant other than Upper District shall cease to own any rights in and to the water supply of the San Gabriel River System upstream from Lower Area, and shall have caused the appearance

and assumption provided for in the third preceding sentence with respect to each voluntary transfer, then upon application to this Court and after notice and hearing such Defendant shall thereupon be relieved and discharged from all further obligations hereunder. Any such discharge of any Defendant hereunder shall not impair the aggregate rights of Lower Area Parties or the responsibility hereunder of the remaining Defendants or any of the successors.

WATERMASTER PROVISIONS

WATERMASTER APPOINTMENT

6. A Watermaster comprised of three persons to be nominated as hereinafter provided shall be appointed by and serve at the pleasure of and until further order of this Court. One shall be a representative of Upper Area Parties nominated by and through Upper District, one shall be a representative of Lower Area Parties nominated by and through Central Municipal, and one shall be jointly nominated by Upper District and Central Municipal. If a dispute arises in choosing the joint appointee, the Court shall make the appointment. If Central Municipal or Upper District shall at any time or times nominate a substitute appointee in place of the appointee last appointed to represent Lower Area Parties, in the case of Central Municipal, or to represent Upper Area Parties, in the case of Upper District, or if Central Municipal and Upper District shall at any time or times jointly nominate a substitute appointee in place of the joint appointee last appointed,

such substitute appointee shall be appointed by the Court in lieu of such last appointee or joint appointee. Each such nomination shall be made in writing, served upon the other parties to this action and filed with the Court. The Watermaster when so appointed shall administer and enforce the provisions of this Judgment and the instructions and subsequent orders of this Court.

POWERS AND DUTIES

7. The Watermaster shall have the following powers and duties and shall take all steps necessary to make the following determinations for each Water Year promptly after the end of such Water Year:

(a) the amount of Surface Flow,

(b) the amount of Subsurface Flow,

(c) the amount of Export to Lower Area,

(d) the amount of water which passed as Surface Flow or Subsurface Flow across the boundary between Upper Area and Lower Area through Whittier Narrows and which was imported by or on behalf of Lower Area Parties from outside of the watershed of the San Gabriel River System above Whittier Narrows,

(e) the amount and quality of Reclaimed Water reclaimed by or on behalf of Lower Area,

(f) the total amount of Make-up Water delivered to Lower Area, together with the respective amounts delivered by each method specified in paragraph 5 of this Judgment,

(g) the amount of Usable Water received by Lower Area,

(h) the amount of local storm inflow, originating in Lower Area, to the channel of

each of Rio Hondo and San Gabriel River within Montebello Forebay,

(i) the surface outflow from Montebello Forebay in the channel of each of the Rio Hondo and San Gabriel River,

(j) the number of inches of depth of average rainfall in the San Gabriel Valley,

(k) the average annual rainfall in the San Gabriel Valley for the ten consecutive Water Years just ended,

(l) Lower Area Annual Entitlement or the entitlement for the Long-term Accounting Period, determined pursuant to subparagraph (d) or (h), respectively, of paragraph 5 of this Judgment,

(m) Accrued Debit of Upper Area, if any, or Accrued Credit of Upper Area, if any, as it exists at the end of such Water Year, and

(n) the amount, if any, of Make-up Water which Upper District is obligated to deliver during the following Water Year.

DETERMINATIONS TO BE BASED ON EXHIBIT B

8. Each of the above required determinations shall be based on and conform to the procedures specified in this Judgment and in Exhibit B insofar as said exhibit provides a procedure.

REPORTS MEASUREMENTS AND DATA

9. The Watermaster shall report to the Court and to each party in writing at the same time and not more than five months after the end of each Water Year the determinations required by paragraph 7 above.

The Watermaster shall cause to be installed and maintained in good working order such measuring

devices in Whittier Narrows and elsewhere as are necessary or required and not otherwise available for the making of the determinations required by paragraph 7 above.

The Watermaster shall collect and assemble from each of the parties, and the parties shall make available to the Watermaster, such records, reports and other data as may reasonably be required in the making of the determinations required of the Watermaster under paragraph 7 above. All records, reports and data received, maintained or compiled by the Watermaster shall be open to inspection by any party or its representative.

OBJECTIONS

10. Any party who objects to any determination made by the Watermaster pursuant to paragraph 7 above, may make such objection in writing to the Watermaster within thirty (30) days after the Watermaster gives the required written notice of such determination. Within thirty (30) days after expiration of the time within which objection may be made to such determination, the Watermaster shall consider all objections thereto and shall amend, modify or affirm the determination and give notice thereof at the same time to all parties and shall file a copy of such final determination with the Court. If the Watermaster denies any objection in whole or in part, the party whose objection was so denied may within thirty (30) days after service of the final determination upon it, make written objection to such denial by filing its objections with the Court after first mailing a copy of such objections to the

Watermaster and to each party, and such party shall bring its objections on for hearing before the Court upon notice and motion and at such time as the Court may direct. If the Watermaster shall change or modify any determination, then any party may within fifteen (15) days after service of such final determination upon it object to such change or modification by following the procedure prescribed above in the case of a denial of an objection to the first determination. If objection to a final determination is filed with the Court as herein provided and brought on for hearing, then such final determination may be confirmed or modified in whole or in part as the Court may deem proper.

CHANGE IN METHOD OF MEASUREMENT

11. If the Watermaster shall deem it advisable to make a change in the method of making any measurement required under the terms of this Judgment, the Watermaster shall notify all parties of such proposed change, and if within sixty (60) days of such notification no party shall file written objections to such change with the Watermaster, the Watermaster may put such proposed change into effect. If, however, any party files its written objection to the proposed change, it shall by notice of motion filed not later than fifteen (15) days after the expiration of said 60-day period and served on the Watermaster and all parties bring its objection on for hearing before the Court at such time as the Court may direct, and the Court shall rule on whether the Watermaster may make such proposed change.

BUDGET

12. In addition to the above-specified administrative powers and duties, the Watermaster shall prepare a tentative budget for each Water Year, stating the estimated expense for discharging the duties of the Watermaster set forth in this Judgment. The Watermaster shall mail a copy of the tentative budget to each of the parties at the same time at least sixty (60) days before the beginning of each Water Year. However, with respect to the first Water Year following the entry of this Judgment, the tentative budget shall be mailed not later than one hundred and twenty (120) days from the entry of this Judgment. If any party has an objection to a tentative budget, or any suggestions with respect thereto, that party shall present the same in writing to the Watermaster within fifteen (15) days after service of the tentative budget upon it. If no objections are received, the tentative budget shall become the final budget. If objections to the tentative budget are received, the Watermaster shall, within fifteen (15) days after the expiration of the time for presenting objections, consider all such objections, prepare a final budget, and mail a copy thereof to each party, together with a statement of the amount assessed, if any, to each party, computed as provided in paragraph 13. If the Watermaster denies any objection in whole or in part, the party whose objection was so denied may, within fifteen (15) days after service of the final budget upon it, make written objection to such denial by filing

its objections with the Court after first mailing a copy of such objections to each party, and such party shall bring its objections on for hearing before the Court upon notice and motion and at such time as the Court may direct. If the Watermaster makes a change in the tentative budget, then any party may within fifteen (15) days after service of the final budget upon it object to any such change by following the procedure prescribed above in the case of a denial of an objection to the tentative budget. If objection to the final budget is filed with the Court as herein provided and brought on for hearing, then such final budget may be confirmed or adjusted in whole or part as the Court may deem proper.

FEES AND EXPENSES

13. The fees, compensation and expenses of the Watermaster hereunder shall be borne by the parties in the following proportions: 50% by Upper District, 41.2% by Central Municipal, 7.125% by the City of Long Beach, and 1.675% by the City of Compton, or such other division among the Plaintiffs as they may agree upon in writing and file with the Watermaster.

Payment of the amount assessed to a party, whether or not subject to adjustment by the Court as provided in paragraph 12, shall be paid on or prior to the beginning of the Water Year to which the final budget and statement of assessed costs is applicable. If such payment by any party is not made on or before said date, the Watermaster shall add a penalty of 5% thereof to such party's

statement. Payment required of any party hereunder may be enforced by execution issued out of this Court, or as may be provided by order hereinafter made by this Court. All such payments and penalties received by the Watermaster shall be expended by him for the administration of this Judgment. Any money remaining at the end of any Water Year shall be available for use in the following Water Year.

SUCCESSOR OF UPPER DISTRICT

14. If a public agency or district shall be formed hereafter which shall include the present area of Upper District and shall have ability equal to or greater than that which Upper District now has to perform the obligations under this Judgment, and shall appear in this action and file a valid and effective assumption of such obligations, then Upper District upon application to this Court, and after notice and hearing, shall thereupon be relieved and discharged from all further obligations hereunder.

CONTINUING JURISDICTION OF THE COURT

15. Full jurisdiction, power and authority is retained and reserved by the Court for the purpose of enabling the Court upon application of any party by motion and upon at least thirty (30) days notice thereof, and after hearing thereon (i) to make such further or supplemental orders or directions as may be necessary or appropriate for the construction, enforcement or carrying out of this Judgment, and (ii) to modify, amend or amplify any of the provisions of this Judgment whenever substantial developments affecting the physical, hydrological or other conditions dealt

with herein may, in the Court's opinion, justify or require such modification, amendment or amplification.

If at any time Plaintiffs and at least two-thirds of the Defendants including any two of the cities of Alhambra, Azusa and Monterey Park, shall file with the Court a written stipulation (i) that henceforth in determining any one or more of the component parts of Usable Water received by Lower Area in any Water Year, the Watermaster shall not use the method specified in this Judgment but shall use instead a new, different or altered method as specified and described in such stipulation, and (ii) that such new, different or altered method or methods shall be applied to redetermine the average annual amount of Usable Surface Flow, Subsurface Flow and Export to Lower Area which Lower Area received each Water Year during the period October 1, 1934 to September 30, 1959, referred to as the base period, and that on the basis of such redetermination the Court may modify paragraphs 4 and 5 of this Judgment to establish a new and different water entitlement and yearly adjustment thereto which shall thereafter control, then and in that event, after hearing pursuant to motion and notice to all parties, held at such time as the Court may direct, the Court may deny the motion or it may grant it and (a) approve the future use of the stipulated new, different or altered method or methods, by the Watermaster, and (b) by use of the stipulated new, different or altered method or

methods, redetermine the average annual amount of Usable Surface Flow, Subsurface Flow and Export to Lower Area received each Water Year during the base period, and on the basis thereof modify paragraphs 4 and 5 of this Judgment to provide for a new and different water entitlement and yearly adjustment thereto, which modifications shall be effective and control commencing with the Water Year following the entry of the order so modifying paragraphs 4 and 5.

REPORT OF TRANSFER OF WATER RIGHTS

16. Every transfer of any of those water rights of Defendants which are the subject of Paragraph 5(j) of this Judgment, whether such transfer is voluntary or involuntary, shall be reported promptly in writing by the transferor to the Watermaster; and the Watermaster shall give prompt written notice of such transfer to each party and to each transferee involved in every other transfer of any of those water rights. Such report by the transferor and notice by the Watermaster shall contain the following information as to each such transfer:

(a) The identity of the transferor;

(b) The identity of the transferee;

(c) The effective date of the transfer;

(d) A brief description of the document by which such transfer is made, and the recording data, if any;

(e) A statement as to whether the transfer was voluntary or involuntary;

(f) A statement whether or not after such transfer the transferor still has or

claims to have any of the water rights which are the subject of Paragraph 5(j) of this Judgment.

NOTICES

17. All notices, requests, objections, reports and other papers permitted or required by the terms of this Judgment shall be given or made by written document and shall be served by mail on each party and on each transferee of water rights who has appeared and filed the assumption of obligations required by paragraph 5(k) of this Judgment, and where required or appropriate, on the Watermaster. For all purposes of this paragraph the mailing address of each party shall be that set forth below its signature to the Stipulation for Judgment, and the mailing address of each transferee of water rights shall be that set forth in the appearance and assumption of obligations required by paragraph 5(k) of this Judgment, until changed as provided below. No further notice of any kind as to any matter arising hereunder, including notice to attorneys of record for any party or such transferee, need be given, made or served.

If any party or any such transferee of water rights shall desire to change its designation of mailing address, it shall file a written notice of such change with the clerk of this court and shall serve a copy thereof by mail on the Watermaster. Upon the receipt of any such notice the Watermaster shall promptly give written notice thereof to each party and to each transferee of water rights.

EFFECTIVE DATE

18. The rights decreed and the obligations imposed by this Judgment shall be effective October 1, 1963, and shall accrue from that date.

COSTS

19. None of the parties shall recover any costs from any other party.

Dated: _____, 1964.

_____
Judge

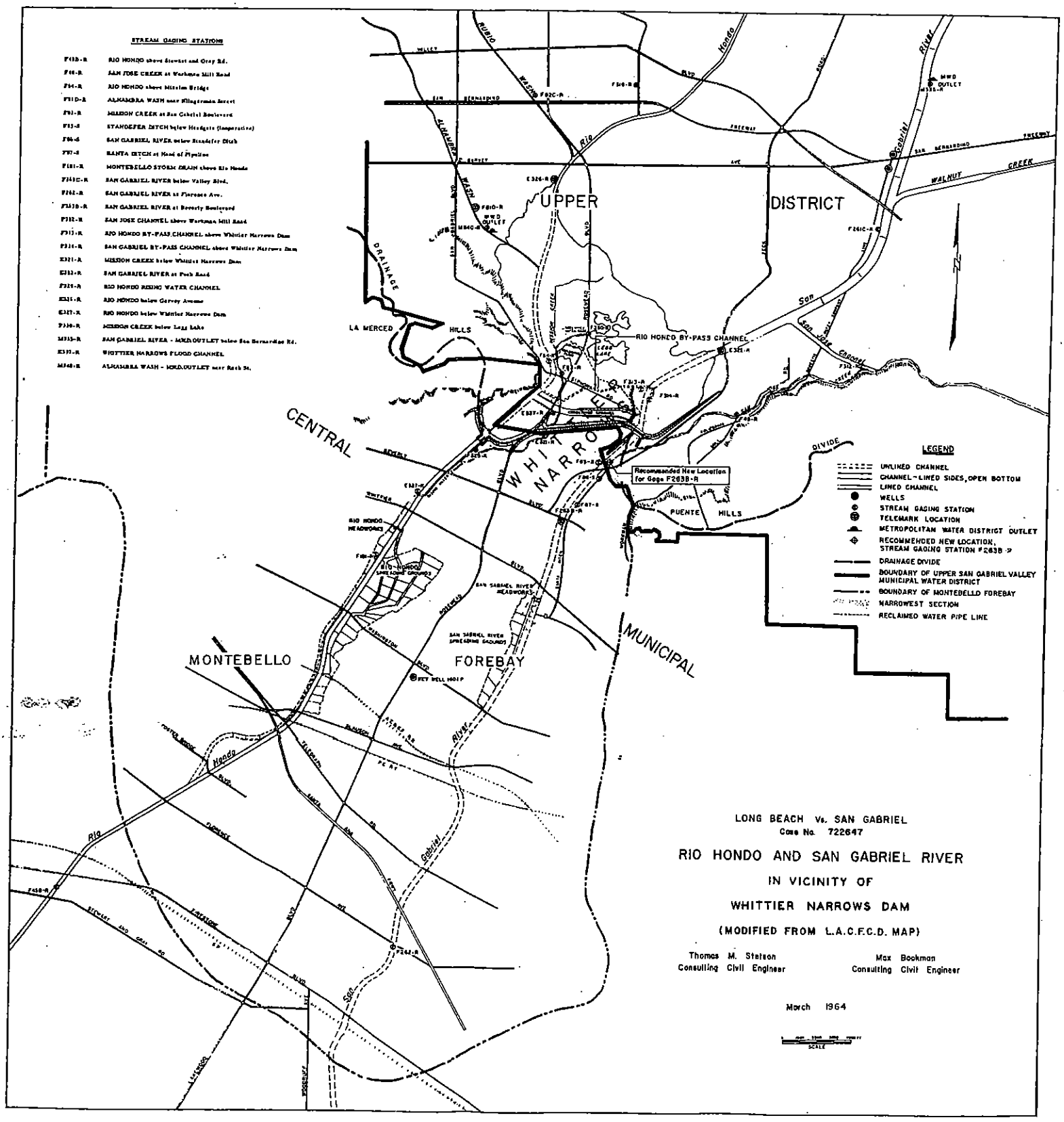
STREAM GAGING STATIONS
RIO HONDO above Stewart and Gray Rd.
SAN JOSE CREEK at Workman Mill Road
RIO HONDO above Mission Bridge
ALHAMBRA WASH near Klingerman Street
MISSION CREEK at San Gabriel Boulevard
STANDEFER DITCH below Headgate (Inoperative)
SAN GABRIEL RIVER below Standefer Ditch
SANTA DITCH at Head of Pipeline
MONTEBELLO STORM DRAIN above Rio Hondo
SAN GABRIEL RIVER below Valley Blvd.
SAN GABRIEL RIVER at Florence Ave.
SAN GABRIEL RIVER at Beverly Boulevard
SAN JOSE CHANNEL above Workman Mill Road
RIO HONDO BY-PASS CHANNEL above Whittier Narrows Dam
SAN GABRIEL BY-PASS CHANNEL above Whittier Narrows Dam
MISSION CREEK below Whittier Narrows Dam
SAN GABRIEL RIVER at Peck Road
RIO HONDO RISING WATER CHANNEL
RIO HONDO below Garvey Avenue
RIO HONDO below Whittier Narrows Dam
MISSION CREEK below Legg Lake
SAN GABRIEL RIVER - MWD OUTLET below San Bernardino Rd.
WHITTIER NARROWS FLOOD CHANNEL
ALHAMBRA WASH - MWD OUTLET near Rock St.
UPPER
DISTRICT
CENTRAL
MUNICIPAL
MONTEBELLO
FOREBAY
WHITTIER NARROWS
LA MERCED
HILLS
PUENTE
HILLS
DRAINAGE
DIVIDE
RIO HONDO BY-PASS CHANNEL
Recommended New Location for Gage F263B-R
RIO HONDO HEADWORKS
RIO HONDO SPREADING GROUNDS
SAN GABRIEL RIVER HEADWORKS
SAN GABRIEL RIVER SPREADING GROUNDS
WALNUT CREEK
San Jose Channel
Rio Hondo
San Gabriel River
LEGEND
UNLINED CHANNEL
CHANNEL-LINED SIDES, OPEN BOTTOM
LINED CHANNEL
WELLS
STREAM GAGING STATION
TELEMARK LOCATION
METROPOLITAN WATER DISTRICT OUTLET
RECOMMENDED NEW LOCATION, STREAM GAGING STATION F263B-R
DRAINAGE DIVIDE
BOUNDARY OF UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
BOUNDARY OF MONTEBELLO FOREBAY
NARROWEST SECTION
RECLAIMED WATER PIPE LINE
LONG BEACH Vs. SAN GABRIEL
Case No. 722647
RIO HONDO AND SAN GABRIEL RIVER
IN VICINITY OF
WHITTIER NARROWS DAM
(MODIFIED FROM L.A.C.F.C.D. MAP)
Thomas M. Stetson
Consulting Civil Engineer
Max Bookman
Consulting Civil Engineer
March 1964
SCALE

EXHIBIT A

LONG BEACH v. SAN GABRIEL

ENGINEERING APPENDIX

EXHIBIT B

ENGINEERING APPENDIX

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ENGINEERING APPENDIX

INTRODUCTION

Pursuant to the declaration of rights contained in paragraph 4 of the Judgment and the physical solution contained in paragraph 5 of the Judgment, the purpose of this exhibit is to establish the basis for calculations and measurements to provide for operation of the Judgment in the future.

Unless otherwise provided in this exhibit, all terms used herein are used in the same sense as defined or used in the Judgment.

The derivation of the Lower Area average annual entitlement is based upon the data presented herein covering the base period. However, if a more accurate method of determining Subsurface Flow is developed at some future time, it will be acceptable for use in carrying out the terms of this Judgment so long as it can also apply to the base period and to the years over which the Judgment shall have operated to that time.

I. DERIVATION OF LOWER AREA AVERAGE ANNUAL ENTITLEMENT

The Lower Area average annual entitlement is stipulated in paragraph 5 (a) of the Judgment to be 98,415 acre-feet. It was derived from three components of water supply over the base period, October 1, 1934, through September 30, 1959. Said components were: (1) Usable Surface Flow, (2) Subsurface Flow, and (3) Export to Lower Area.

A. Usable Surface Flow

For the base period, Usable Surface Flow was calculated as that portion of Surface Flow which percolated

in Montebello Forebay, less the calculated amounts of Lower Area Replenishment Water (hereby defined as water imported from outside of the watershed of the San Gabriel River system by or on behalf of Lower Area Parties for replenishment of Montebello Forebay and passing from Upper Area to Lower Area), and less one-half of the Raymond Basin sewage discharged in Upper Area from the Tri-City Sewage Treatment Plant.

Table 1 presents the calculation of Usable Surface Flow during the base period. The average annual quantity was calculated to be 51,620 acre-feet. Its derivation is summarized in the following tabulation.

		Average annual quantity in acre-feet
1. Surface Flow		108,560
2. Montebello Forebay surface outflow	45,000	
3. Local storm inflow within Montebello Forebay	1,660	
4. Portion of Surface Flow leaving Montebello Forebay (2 minus 3)		43,340
5. Surface Flow percolated in Montebello Forebay (1 minus 4)		65,220
6. Lower Area Replenishment Water (Colorado River water) passing through Whittier Narrows	11,870	
7. One-half of Raymond Basin sewage discharged in Upper Area	1,730	
8. Usable Surface Flow (5 minus 6 minus 7)		51,620

TABLE 1

CALCULATION OF USABLE SURFACE FLOW

DURING BASE PERIOD

(Acre-Feet)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	Surface Flow						Montebello Forebay surface outflow								
Water Year	Rio Hondo F-64	Mission Creek F-83	Rio Hondo Bypass F-313	Sycamore Canyon	San Gabriel River at maximum rising water	Total (2+3+4+5+6)	Rio Hondo F-45	San Gabriel River F-262	Subtotal (8+9)	Montebello Storm Drain F-181	Outflow of Surface Flow (10-11)	Surface Flow percolated in Montebello Forebay (7-12)	Colorado River water passing Whittier Narrows	One-half of Raymond Basin sewage discharged in Upper Area	Usable Surface Flow (13-14-15)
1934-35	29,230	9,140	0	390	22,410	61,170	6,000	4,700	10,700	1,650	9,050	52,120		2,650	49,470
36	20,700	9,810	0	70	16,140	46,720	4,220	1,750	5,970	890	5,080	41,640		2,735	38,905
37	50,900	10,840	0	260	47,750	109,750	26,870	21,000	47,870	2,170	45,700	64,050		2,865	61,185
38	209,330	14,700	0	510	109,120	333,660	172,100	60,000	232,100	2,050	230,050	103,610		2,960	100,650
39	30,650	16,330	0	200	38,380	85,560	9,540	2,540	12,080	980	11,100	74,460		2,970	71,490
1939-40	27,660	16,210	0	110	29,510	73,490	4,850	1,900	6,750	890	5,860	67,630		2,985	64,645
41	130,650	18,120	0	1,070	112,440	262,280	93,260	75,780	169,040	4,090	164,950	97,330		3,205	94,125
42	28,810	18,740	0	80	43,770	91,400	6,730	13,570	20,300	960	19,340	72,060		3,140	68,920
43	59,470	17,410	0	150	222,670	299,700	41,910	186,420	228,330	2,580	225,750	73,950		3,235	70,715
44	51,390	18,850	0	220	121,420	191,880	26,820	79,930	106,750	2,390	104,360	87,520		3,545	83,975
1944-45	32,300	18,020	0	70	57,130	107,520	8,460	26,110	34,570	770	33,800	73,720		3,490	70,230
46	43,160	15,630	0	70	51,580	110,440	11,280	16,480	27,760	870	26,890	83,550		3,635	79,915
47	48,410	14,230	0	110	56,790	119,540	16,030	27,650	43,680	1,350	42,330	77,210		3,785	73,425
48	25,370	12,670	0	20	20,970	59,030	3,510	0	3,510	910	2,600	56,430		2,065	54,365
49	11,100	10,640	0	40	13,590	35,370	1,490	0	1,490	860	630	34,740		0	34,740
1949-50	12,280	8,780	0	110	11,780	32,950	2,840	0	2,840	1,240	1,600	31,350		0	31,350
51	7,880	6,700	0	0	8,420	23,000	780	0	780	890	-110	23,110		0	23,110
52	34,570	6,090	0	530	56,800	97,990	26,040	24,250	50,290	3,330	46,960	51,030		0	51,030
53	16,120	6,210	0	50	22,350	44,730	3,450	980	4,430	1,430	3,000	41,730		0	41,730
54	23,390	3,580	7,230	100	18,130	52,430	10,760	3,790	14,550	2,190	12,360	40,070	15,690	0	24,380
1954-55	11,350	3,100	9,730	70	14,630	38,880	8,000	1,000	9,000	1,210	7,790	31,090	23,130	0	7,960
56	16,180	2,310	14,990	150	28,930	62,560	14,540	10,360	24,900	2,110	22,790	39,770	42,870	0	-3,100
57	16,840	1,840	20,400	50	22,220	61,350	4,640	1,390	6,030	1,120	4,910	56,440	51,870	0	4,570
58	119,320	2,660	15,300	540	91,320	229,140	30,260	23,960	54,220	3,250	50,970	178,170	103,900	0	74,270
1958-59	39,800	3,920	0	10	39,790	83,520	3,900	3,130	7,030	1,230	5,800	77,720	59,390	0	18,330
TOTALS	1,096,860	266,530	67,650	4,980	1,278,040	2,714,060	538,280	586,690	1,124,970	41,410	1,083,560	1,630,500	296,850	43,265	1,290,385
Averages	43,870	10,660	2,710	200	51,120	108,560	21,530	23,470	45,000	1,660	43,340	65,220	11,870	1,730	51,620

B. Subsurface Flow

The State of California, Department of Water Resources, published in April 1962, Appendix B, "Safe Yield Determinations", of Bulletin No. 104, a report entitled "Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County". That report included estimates of the seasonal Subsurface Flow through Whittier Narrows for each Water Year during the period 1934-35 through 1956-57. By applying the same methods of computation, the estimates have been extended through the Water Year 1958-59 and a 25-year average of 28,400 acre-feet derived.

Table 2 sets out the Subsurface Flow for each Water Year in the base period and the average annual Subsurface Flow during the base period.

TABLE 2

SUBSURFACE FLOW
DURING BASE PERIOD

Water Year	Acre-Feet
1934-35	33,500
36	33,500
37	31,100
38	25,600
39	25,000
1939-40	23,900
41	23,300
42	21,800
43	21,900
44	23,700
1944-45	23,500
46	23,100
47	22,400
48	25,700
49	30,300
1949-50	34,000
51	32,800
52	32,100
53	32,800
54	33,200
1954-55	33,600
56	32,200
57	32,600
58	30,500
1958-59	27,800
TOTAL	709,900
Average	28,400

C. Export to Lower Area

During the base period there were a number of water producers or water service agencies which produced water by surface diversions or wells in Upper Area and exported it to Lower Area. At the present time, and for the past several years, all such water has been pumped from wells in Upper Area.

There are four water service agencies which currently so export water. They are the Rincon Ditch Company, California Domestic Water Company, Suburban Water Systems, and the City of Whittier.

Table 3 sets forth Export to Lower Area for each Water Year during the base period and the average annual Export to Lower Area during the base period.

TABLE 3

EXPORT TO LOWER AREA
DURING BASE PERIOD

Water Year	Acre-Feet
1934-35	15,049
35-36	21,644
36-37	22,668
37-38	25,151
38-39	27,532
1939-40	22,566
40-41	24,191
41-42	27,514
42-43	30,484
43-44	31,182
1944-45	25,953
45-46	27,456
46-47	29,877
47-48	30,165
48-49	25,515
1949-50	18,363
50-51	21,651
51-52	16,302
52-53	18,141
53-54	18,360
1954-55	18,796
55-56	20,728
56-57	19,686
57-58	22,031
58-59	23,881
TOTAL	584,886
Average	23,395

D. Derivation of Lower Area Average Annual Entitlement

Table 4 presents the derivation of the Lower Area average annual entitlement.

TABLE 4

LOWER AREA AVERAGE ANNUAL ENTITLEMENT

(In acre-feet for base period)

Usable Surface Flow (Table 1)	51,620
Subsurface Flow (Table 2)	28,400
Export to Lower Area (Table 3)	23,395
Sub-total	103,415
Stipulated deduction	5,000
Lower Area average annual entitlement	98,415

II. DETERMINATION OF FUTURE LOWER AREA ANNUAL ENTITLEMENT

In determining a future Lower Area Annual Entitlement, as set forth in paragraph 5 (d) of the Judgment, the annual rainfall for San Gabriel Valley shall be determined in accordance with procedures set forth below, which are those presently utilized by the Los Angeles County Flood Control District. The 90-year (1872-73 through 1961-62) average rainfall for San Gabriel Valley has been calculated by said District to be eighteen and fifty-two one-hundredths (18.52) inches. For purposes of this Judgment, this quantity shall be the long-term average annual rainfall for San Gabriel Valley and shall not be subject to change.

The arithmetic average of the annual rainfall recorded at the four precipitation stations listed below shall constitute the rainfall for San Gabriel Valley for the respective Water Year.

Station No.	Location
95	114 East First Street, San Dimas
102C	19711 East Valley Blvd., Walnut
108C	119 South Hoyt Avenue, El Monte
610B	City Hall, Pasadena

Table 5 presents the annual rainfall for San Gabriel Valley for the Water Years 1954-55 through 1962-63.

TABLE 5

ANNUAL RAINFALL FOR SAN GABRIEL VALLEY

Water Year	Rainfall, Inches
1954-55	13.9
56	16.7
57	13.7
58	30.2
59	8.5
1959-60	10.6
61	5.9
62	22.4
63	12.3

The average rainfall in inches for the ten (10) consecutive Water Years ending with the year for which entitlement is being calculated shall be used as the basis for determining Lower Area Annual Entitlement.

Lower Area Annual Entitlements have been computed for 10-year average rainfall in increments of one-tenth (0.1) inch between fourteen (14) and twenty-five (25) inches and are set forth in Table A in paragraph 5 (d) of the Judgment. The following outlines the procedure for determining Lower Area Annual Entitlement from Table A:

(1) Derive the 10-year average rainfall for San Gabriel Valley to the nearest one-tenth (0.1) inch;

(2) Enter Table A in left-hand column at whole number of inches of rainfall; and

(3) Read horizontally to the vertical column representing the appropriate tenth of an inch of rainfall to obtain the quantity of Lower Area Annual Entitlement in acre-feet.

III. FUTURE MEASUREMENTS

It will be necessary to maintain records of measurement of stream flow, flow in pipelines, rainfall and depth to ground water at a number of locations. The purpose of this Part III is to locate and identify those measurement stations and to specify the manner in which the measurements are to be used in the future operation of the Judgment. The line through Whittier Narrows shown on Exhibit A as "narrowest section" is the line at which accounting shall be made of the water to be received in the future by Lower Area Parties. The Watermaster shall, insofar as practicable, utilize measurement data available from existing sources. When such data are not available the Watermaster may make such measurements as may be necessary or reasonably required for the purposes of this Judgment. The Watermaster is hereby authorized to re-establish, rebuild or replace measuring stations whenever necessary for the operation of this Judgment.

A. Surface Water Measurements and Calculations.

There may be several categories of water flowing on the surface through Whittier Narrows. Among them may be local stream flow, Lower Area Replenishment Water, Reclaimed Water and Make-up Water. The Watermaster shall have the responsibility of determining the quantities of each category of water flowing through Whittier Narrows in the future.

The approximate locations of stream measuring stations in and near Whittier Narrows are shown on Exhibit A. The surface

water measurements and calculations shall include the following:

1. Measurements of Surface Flow.

   a. Rio Hondo above Mission Bridge, Station F64-R.

   b. Mission Creek at San Gabriel Boulevard, Station F83-R.

   c. Rio Hondo By-pass Channel, Station F313-R.

   d. Whittier Narrows Flood Channel, Station E337-R.

   e. Calculation of Sycamore Canyon runoff based on annual rainfall to nearest inch at Station 170-C as shown on Table 6.

   f. San Gabriel River near Parkway Bridge. This is to be a new station to replace the existing station on San Gabriel River at Beverly Boulevard, Station F263B-R.

   g. The portion of Reclaimed Water from Whittier Narrows Reclamation Plant diverted to Rio Hondo.

2. Measurement of local storm inflow to the channel of each of the Rio Hondo and San Gabriel River within Montebello Forebay.

   a. Montebello storm drain, Station F181-R.

   b. Calculation of unmeasured local storm inflow.

3. Measurements of diversions to spreading grounds Montebello Forebay.

4. Measurement of surface outflow from Montebello Forebay in the channel of each of Rio Hondo and

San Gabriel River.

a. Rio Hondo above Stewart and Gray Road, Station F45B-R.

b. San Gabriel River at Florence Avenue, Station F262-R.

5. Measurement of Lower Area Replenishment Water imported to Upper Area from outside the watershed of the San Gabriel River system.

a. Rio Hondo By-pass Channel, Station F313-R.

b. San Gabriel By-pass Channel, Station F314-R.

c. San Gabriel River MWD Outlet, Station M335-R.

d. Alhambra Wash MWD Outlet, Station M340-R.

e. Any other measuring point or points in Upper Area at which such replenishment water is released.

6. Measurement of total Reclaimed Water from Whittier Narrows Reclamation Plant reclaimed by or on behalf of Lower Area Parties.

In the event that any of the aforementioned gaging stations are inoperative for any reason and for any period of time the Watermaster shall estimate the quantity that would have been measured at the station had it been operative. The estimate shall be based on correlation to nearby operative measuring stations or on other reasonable engineering methods.

TABLE 6

RAINFALL - RUNOFF RELATIONSHIP OF SYCAMORE CANYON*

Annual rainfall, in inches at Precipitation Station No. 170-C	Estimated runoff in acre-feet
6	5
7	10
8	15
9	25
10	35
11	45
12	60
13	75
14	90
15	105
16	125
17	145
18	170
19	200
20	240
21	275
22	315
23	355
24	400
25	445
26	490
27	535
28	580
29	630
30	685

Extrapolate for rainfall values in excess of 30 inches.

* Located on Westerly side of Whittier Narrows, upstream from dam and downstream from stream gaging Station F64-R. Approximate drainage area is 2.77 square miles.

B. Subsurface Flow

The determination of Subsurface Flow involves certain measurements and procedures which are set forth in this section. In connection with a recent comprehensive study made by the State of California, Department of Water Resources, for Bulletin No. 104, "Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County", estimates were made of Subsurface Flow through Whittier Narrows. The State concluded that a reasonable method of determining Subsurface Flow was by the transmissibility method, which is based on Darcy's Law applied

at the location shown on Exhibit A as "narrowest section". Darcy's Law states that Q = PIA, in which

Q = Subsurface Flow

P = Permeability, in gallons per day per square foot under unit hydraulic gradient

I = Slope of water table

A = Cross-sectional area

Under this Judgment calculations shall be made by the Watermaster for the spring and fall of each year and because of slight variations due to the nature of the data available, Subsurface Flow for any one year will be equal to the tri-annual average of the quantities calculated for the three years ending with the year of calculation. In this manner, annual Subsurface Flow shall be based on the average of six calculations, the first of which shall be the spring of 1962.

The elevation of the ground surface at the "narrowest section" of Whittier Narrows is deemed to be 208 feet above sea level, and the width of the section is deemed to be 7,900 feet. Water levels fluctuate at Whittier Narrows and the cross-sectional area of the ground water at Whittier Narrows will vary with fluctuations in ground water elevation.

It should be noted that T = PD, where T = transmissibility in gallons per day per foot of width under unit hydraulic gradient and D = saturated depth in feet. Therefore PA = TW and Q = PAI = TWI. The product TW (or PA) for the entire cross-sectional area was determined to be 4,739.5 x 1,000,000 gallons per day, or 7,333.6 cfs. The actual slope of the water table, I, would then be applied to the calculated quantity of TW (or PA).

The average permeability of the material to a depth of 100 feet below the ground surface has been determined to be equal to 2,000 gallons per day per square foot, which is

equal to .003095 cubic feet per second per square foot. This represents the average permeability in the zone of water level fluctuation.

In order to correct for the unsaturated depth, the equation $Q = TWI$ is modified to $Q = (TW - C)I$ where

$C = P_1Wd$,

C = The flow which would occur in the unsaturated section if it were saturated, in cubic feet per second under unit hydraulic gradient.

P_1 = Average permeability for a distance of 100 feet below the ground surface.

W = The cross-sectional width, or 7,900 feet.

d = The distance from the water surface to the top of the ground, or 208 feet minus ground water elevation.

Utilizing the values of permeability shown above, then

$C = 24.45\ d$, in cubic feet per second, for values of "d" to a depth of 100 feet below the ground surface.

The "effective transmissibility" is equal to the total transmissibility times the width at the narrowest section minus C, or,

$$Tw_e = TW - C$$

$$Tw_e = 7{,}334 - C, \text{ in cubic feet per second.}$$

Subsurface Flow is equal to the effective transmissibility times the average slope of the water table. The formula derived from the foregoing, may be stated as follows:

$$Q = 724\ I\ [7{,}334 - 24.45\ (208 - E)]$$

Where: Q = Subsurface Flow in acre-feet per year,

I = Average adjusted slope of ground water surface at narrowest section, and

E = Ground water elevation of the water surface in feet above sea level at the narrowest cross-section.

The detailed steps to be carried out by the Watermaster are as follows:

(1) Ground water level contour maps in the vicinity of Whittier Narrows are drawn on the basis of water level measurements.

(2) A line representing the narrowest cross-section is drawn on the ground water contour maps.

(3) This line is subdivided into four equal lengths.

(4) The average slope of the water table at each of the three points within the narrowest section is determined along a line perpendicular to the ground water contours in the manner heretofore used by the State of California, Department of Water Resources.

(5) Adjustment is made to the ground water slope at each of the three points so that it is perpendicular to the narrowest section by:

(a) measuring the angle, in degrees, between the line representing the narrowest cross-section and the tangent to the flow line at the narrowest cross-section,

(b) applying the sine of that angle to the previously determined slope to determine the adjusted slope, and

(c) obtaining an average of the three adjusted slopes to represent the average slope through the narrowest cross-section.

(6) The elevation of the water surface at the narrowest cross-section is determined by interpolating between the ground water contours.

(7) The distance to the ground water surface is computed from the top of the ground by the formula: $d = 208 - E$, where E represents the average water level elevation of the narrowest cross-section, in feet.

(8) The correction factors for the transmissibility for the area from the top of ground to the water surface is computed by the formula $C = 24.45\ d$, in cubic feet per second.

(9) The effective transmissibility is computed by the formula $Tw_e = 7,334 - C$, in cubic feet per second.

(10) Subsurface Flow is computed by multiplying the effective transmissibility by the average adjusted slope.

(11) The computed Subsurface Flow, in cubic feet per second, is converted to acre-feet per year by multiplying it by 724.

The selected wells within the vicinity of Whittier Narrows which have been used for drawing the ground water contours are as follows:

Location No.	State No.
2927B	2S 11W 06M01S
2927D	06K01S
2928	07B01S
2936	06A01S
2936A	1S 11W 31J03S
2938A	2S 11W 07H1S
2938D	05N05S
2939	08N01S
2939B	18B01S
2939G	07R01S
2947C	-
2947F	05L01S
2947N	05P01S
2948	05N04S
2948E	08B02S
2948F	08L03S
2957H	-

The Watermaster shall obtain measurements of ground water elevations in the spring and fall of each year when they are at their approximate high and low levels, respectively. Such measurements may be made at, but need not be limited to, all of the above listed wells.

C. Export to Lower Area

If present measuring devices on existing conduits are inadequate, the Watermaster shall install or cause to be installed adequate measuring devices to determine the amount of Export to Lower Area.

IV. ACCOUNTING

Utilizing the appropriate measurements described in the previous portion of this Exhibit B, the Watermaster shall maintain accounts for the determination of Lower Area Annual Entitlement, the annual amount of Usable Water, Make-up Water to be delivered, Make-up Water received, the annual total amount of Usable Water and Make-up Water, the accumulated Lower Area Annual Entitlements, the accumulated amounts of Usable Water and Make-up Water received subsequent to September 30, 1963, Accrued Debit of Upper Area or Accrued Credit of Upper Area, and records necessary for accomplishing the Long-term Accounting.

In maintaining the accounting records listed above, the Watermaster shall establish the necessary accounting procedures to accomplish the recordation of data and required calculations for accomplishment of the provisions set forth in paragraph 5 of the Judgment.

A. Components of Usable Water

1. Surface Flow. Surface Flow shall be measured as set forth in Part III.A. of this exhibit to include all water other than Export to Lower Area and Subsurface Flow which passes from Upper Area to Lower Area through Whittier Narrows. When the new station to be constructed on the San Gabriel River near Parkway Bridge is completed, it shall replace the gaging station on the San Gabriel River at Beverly Boulevard, Station F263B-R. Until such new station is in operation, Surface Flow as measured at Station F263B-R shall be increased by the amount of Surface Flow which has percolated or been diverted between Station F263B-R and the point of maximum rising water. The Watermaster shall determine the quantity so percolated or diverted based upon available measurements by the Los Angeles County Flood Control District.

2. Subsurface Flow. Subsurface Flow shall be calculated in accordance with the procedures heretofore set forth.

3. Export to Lower Area. The Watermaster shall reduce to acre-feet the meter readings on each of the conduits transporting through Whittier Narrows water diverted from surface streams in Upper Area or pumped or developed from underground sources in Upper Area. These quantities shall be used to determine Export to Lower Area except that after September 30, 1966, Export to Lower Area used for determination of Usable Water shall not exceed 23,395 acre-feet per year. (Paragraph 3(1) of this Judgment.)

B. Calculation of Usable Water

After determining the amounts of Surface Flow, Subsurface Flow and Export to Lower Area during a Water Year, as provided above, the Watermaster, in order to determine the extent to which such water constitutes the receipt of Usable Water by Lower Area during such Water Year, shall deduct from the total of such amounts, the following:

1. Lower Area Replenishment Water. An amount equal to the total quantity of Lower Area Replenishment Water released in Upper Area in each Water Year subsequent to September 30, 1963, less such amount, if any, as the Watermaster determines to be lost due to evaporation or transpiration prior to the receipt of such water in Lower Area;

2. Reclaimed Water. An amount equal to the total quantity of Reclaimed Water which is reclaimed by or on behalf of Lower Area Parties;

3. Make-up Water. An amount equal to the quantity of Make-up Water delivered to Lower Area during such Water Year, calculated as hereafter provided, to the extent included in

Surface Flow or Export to Lower Area;

4. Paragraph 3(1)(6) Water. An amount equal to the quantity of any water which falls within the scope of paragraph 3(1)(6) of the Judgment; and

5. Unusable Surface Flow. An amount equal to the quantity of Unusable Surface Flow, which is determined by deducting from the total outflow as measured at Stations F45B-R and F262-R: (1) Local Storm Outflow and (2) the portion of Surface Flow which has been caused to pass said stations by reason of any spreading of water in Montebello Forebay by or on behalf of Lower Area Parties.

Local Storm Outflow is a portion of local storm inflow originating in Montebello Forebay upstream from said measuring stations, the amount of which outflow is to be determined as hereinafter provided. When actual measurements of local storm inflow are not available, the amount thereof discharging to the channels of Rio Hondo or San Gabriel River within Montebello Forebay upstream from stations F45B-R and F262-R shall be estimated by correlation with the local storm inflow measured at Montebello Storm Drain, Station F181-R. Such quantities shall be estimated on the basis of the individual drainage areas of storm drain projects and the runoff per unit area determined from the Montebello Storm Drain, Station F181-R, during the particular time interval under consideration. When water is flowing out of Montebello Forebay on the surface in the Rio Hondo or San Gabriel River channels, the Watermaster shall determine Local Storm Outflow as follows:

a. Local Storm Outflow from Rio Hondo. When outflow occurs at Station F45B-R, all local storm inflow, both measured and estimated, which enters the Rio Hondo channel between that station and Upper Area shall constitute Local Storm Outflow from Rio Hondo, but the amount thereof shall not exceed the amount of

outflow at Station F45B-R for such periods.

b. Local Storm Outflow from San Gabriel River. At such times as local storm inflow does not join Surface Flow in San Gabriel River, the portion of such local storm inflow passing Station F262-R shall constitute Local Storm Outflow. In addition, at such times as Surface Flow in the San Gabriel River commingles with the local storm inflow, then the Watermaster shall determine Local Storm Outflow as follows:

(1) Calculate the total amount of local storm inflow to the San Gabriel River during such times, but such amount to be used in the determination of Local Storm Outflow shall not exceed the amount of San Gabriel River outflow passing Station F262-R during such periods.

(2) Calculate the Local Storm Outflow passing Station F262-R during such times, which calculation shall be based on the Surface Flow and local storm inflow to the San Gabriel River channel, giving appropriate weight to the quantities involved and the distance the respective quantities of water traverse Montebello Forebay in said channel.

(3) These two calculations shall then be averaged arithmetically and the resulting amount shall be Local Storm Outflow from San Gabriel River.

C. Determination and Delivery of Make-up Water

1. By Additions to Surface Flow (paragraph 5(i)(1) of Judgment). The determination of the amount of Make-up Water which is delivered to Lower Area as an addition to Surface Flow shall be based upon (a) measurements of Make-up Water at the

delivery outlet of such water upstream from Whittier Narrows, (b) measurements of water consisting in whole or in part of Make-up Water passing the applicable stations listed in Part III.A.1. of this Exhibit B, and (c) such deductions from the measurements of Make-up Water at said stations so listed as are necessary to take into account (i) the amount of any water other than Make-up Water included in the measurements at said stations so listed, (ii) any losses due to evaporation or transpiration of Make-up Water after such measurement and prior to its receipt in Lower Area, and (iii) any percolation of Make-up Water after such measurement and prior to the time it reaches the "narrowest section" in Whittier Narrows.

As changing conditions may require, the Watermaster shall change the points of measurement of Make-up Water in order to obtain those measurements necessary to determine the amount of Make-up Water delivered to Lower Area Parties by means of increasing Surface Flow.

2. By Payment for Reclaimed Water (paragraph 5(i)(2) of the Judgment). The Watermaster shall determine (a) the quantity of Reclaimed Water reclaimed at the Whittier Narrows Water Reclamation Plant as it existed October 1, 1963, and which when so reclaimed shall have been passed through Whittier Narrows, and (b) the quantity, if any, of Reclaimed Water reclaimed at any future additions to said plant after September 30, 1963, and which when so reclaimed shall have been passed through Whittier Narrows. Such quantities shall be ascertained from the records of Los Angeles County Flood Control District.

Upon being advised that a payment has been made by Upper District or Defendants to Central Municipal pursuant to the provisions of paragraph 5(i)(2) of the Judgment, the Watermaster shall credit Upper Area Parties with the delivery of Make-up Water computed according to said paragraph of the

Judgment.

3. By Deliveries to a Lower Area Party (paragraph 5(i)(3) of the Judgment). Any Make-up Water delivered directly to a Lower Area Party with the consent of Plaintiffs shall be metered and the meter records reduced to acre-feet per year. Upon being advised that a Lower Area Party has received a direct delivery of Make-up Water pursuant to the provisions of paragraph 5(i)(3) of the Judgment, the Watermaster shall credit Upper Area Parties with delivery of such Make-up Water in the Water Year in which it was so delivered.

D. Long-term Accounting

The Watermaster shall maintain a record of the annual rainfall in the San Gabriel Valley, including a running average of such rainfall, so that the Watermaster will be informed when a Long-term Accounting shall be carried out as specified in paragraph 5(h) of the Judgment, and shall thereafter perform the necessary calculations for accomplishment of the adjustment, if any, between the aggregate amount of water received compared to the aggregate entitlement for the period.

E. Water Usable for Ground Water Replenishment

With respect to any delivery of Make-up Water the Watermaster shall determine the suitability of such water for ground water replenishment. The Watermaster shall gather, insofar as readily available from public and private agencies, data relating to the quality of all categories of water, Surface Flow, Subsurface Flow, Export to Lower Area, Reclaimed Water, Lower Area Replenishment Water and Make-up Water.

REIMBURSEMENT CONTRACT

LONG BEACH v. SAN GABRIEL

d.

REIMBURSEMENT CONTRACT

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ed.

REIMBURSEMENT CONTRACT

THIS CONTRACT is made by and between UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT, herein called "Upper District", and the cities of ALHAMBRA, ARCADIA, AZUSA, COVINA, EL MONTE, GLENDORA, MONTEREY PARK, MONROVIA, SOUTH PASADENA, and WHITTIER; BALDWIN PARK COUNTY WATER DISTRICT, and SAN GABRIEL COUNTY WATER DISTRICT; AZUSA AGRICULTURAL WATER COMPANY, AZUSA VALLEY WATER COMPANY, CALIFORNIA DOMESTIC WATER COMPANY, CALIFORNIA WATER & TELEPHONE COMPANY, COLUMBIA LAND AND WATER COMPANY, COVINA IRRIGATING COMPANY, CROSS WATER COMPANY, DUARTE WATER COMPANY, EAST PASADENA WATER COMPANY, LTD., GLENDORA IRRIGATING COMPANY, SAN DIMAS WATER COMPANY, SAN GABRIEL VALLEY WATER COMPANY, SOUTHERN CALIFORNIA WATER COMPANY, SUBURBAN WATER SYSTEMS, SUNNYSLOPE WATER COMPANY, and VALLECITO WATER COMPANY, corporations, herein collectively called "Pumpers."

ed.

RECITALS

1. The Action. In the matter of Board of Water Commissioners of the City of Long Beach, et al. v. San Gabriel Valley Water Company, et al., (L. A. Superior Court No. 722,647) the water rights of substantially all major water producers in the main San Gabriel Valley are sought to be restricted.

2. Judgment. The parties named above, except City

of Whittier, are concurrently executing a Stipulation that a Judgment substantially in the form annexed hereto shall be rendered and it is anticipated that such Judgment will be rendered in the action.

3. Public Interest in Settlement. It is in the best interests of the Pumpers and in the best interests of the water users and taxpayers within the corporate boundaries of those Pumpers which are public agencies, of the consumers of those Pumpers which are utilities or mutual water companies, and of all residents and taxpayers of Upper District, that said action be settled and disposed of in accordance with the terms of said judgment in order to preserve the water supplies within Upper Area.

DEFINITIONS

1. "Contract Costs" -- All costs hereafter paid by Upper District:

ed.

(a) In providing Make-up Water under the terms of the judgment. In computing such cost of providing Make-up Water, any cost which Upper District shall pay which it would have paid even though it had not provided Make-up Water shall be excluded; and particularly but not exclusively, no amount which shall be paid to The Metropolitan Water District of Southern California as a condition to any past or future annexation shall be

deemed a cost of providing Make-up Water. Such costs may include interest paid by Upper District upon money borrowed for advancements made by it or interest which would have been received by the District, but which it lost by reason of making such advancements.

(b) In complying with the terms of said judgment.

(c) In keeping the records, making the determinations and collecting the moneys required by the later provisions of this contract.

2. "Assessable Pumpage" -- The amount of ground water produced in the applicable calendar year by or on behalf of any Pumper by pumping or extraction thereof from the Upper Area, including ground water produced under rights hereafter acquired from any source.

ed.

3. Common Terms With Judgment -- All terms specially defined in said judgment are used herein in the sense in which they are therein defined, and said special definitions are incorporated herein by this reference.

OPERATIVE PROVISIONS

1. Consideration for Execution. The great majority of the defendants in the action are situated in whole or in part within Upper District and pump water therein. Certain defendants, including the Cities of Alhambra, Azusa and

Monterey Park, as well as the City of Whittier which is not a defendant, lie outside Upper District. Execution of this agreement by all parties to it is essential to induce each party hereto to execute this agreement, and likewise, execution of the Stipulation for Judgment by all defendants in the action is necessary to induce each party hereto to execute this contract. Each party executes this contract in consideration of its execution by the other parties, and in consideration of the execution of the Stipulation by the parties thereto. Moreover, by this contract each party other than City of Whittier waives its right to cross-complain in the action so as to bring City of Whittier into the action as a party.

2. Intervention by Upper District. In consideration of the execution of this contract by Pumpers and to contribute to the physical solution of providing adequate water for its inhabitants, Upper District has intervened as a defendant in the action and agrees to execute the stipulation for said judgment.

3. Administration. Upper District shall administer the provisions of Paragraphs 6 through 9, below, as to all Pumpers, including additional parties hereto mentioned in Paragraph 16.

4. Covenant to Reimburse. Each Pumper hereby agrees to pay to Upper District such Pumper's share of Contract

Costs allocated and determined as provided below.

5. Allocation of Costs Among Pumpers. Pumpers agree among themselves, each for the benefit of all other Pumpers, to share and participate in the payment of any sums due Upper District hereunder in such proportion as the Assessable Pumpage of each Pumper bears to the total Assessable Pumpage of all Pumpers for the applicable period covered by any assessment as hereinafter provided, subject to the provisions of Paragraph 9 below.

6. Reports by Pumpers. Pumpers shall file under penalty of perjury the reports hereinafter specified in the form provided by Upper District, as follows:

(a) Time and Procedure for Filing. Each year, on or before March 1, each Pumper shall file with Upper District a written report of its extractions of water from Upper Area for the preceding calendar year containing the information set forth in subparagraph (b) of this paragraph.

ed.

(b) Contents of the Report. Such annual reports to Upper District shall set forth:

(1) The name and address of the Pumper; and

(2) The number of acre feet of water which was pumped or extracted from Upper Area by or on behalf of the Pumper during

the calendar year covered.

(c) Determination in Lieu of Report. In the event any Pumper fails to so file such report, Upper District may make a determination of the Assessable Pumpage of such Pumper, which determination shall be final and binding.

7. Notice of Assessment. On or before June 1 of each year, Upper District shall serve a Notice of Assessment on each Pumper covering the preceding calendar year which will contain a statement of:

(a) The amount of Assessable Pumpage by each Pumper;

(b) A detailed statement of Contract Costs during the preceding calendar year, if any; and

(c) A statement of the amount of such Contract Costs which are assessable to and payable by the Pumper to whom such notice is sent.

ed.

8. Payment--Delinquency and Default. All assessments herein provided for shall be due and payable on the following July 31. In the event of nonpayment of any assessment, Upper District may bring an action and shall have the right to recover such assessment, together with interest thereon at the rate of 7% per annum from the date of delinquency and costs of suit, including any reasonable attorneys' fees incurred.

If, after due diligence, Upper District is unable to collect a Pumper's allocated cost, such uncollectible amount (including interest, costs and attorneys' fees) shall be prorated among and paid by the other Pumpers in the same proportions as they paid assessments for the year or years in question. Said proration shall be billed and payable with the next succeeding assessment.

9. Redetermination of Assessable Pumpage. Any Pumper may at any time within 90 days after receipt of any Notice of Assessment request a redetermination of the Assessable Pumpage of such Pumper or of any other Pumper or Pumpers reflected in such notice. Such request shall be addressed in writing to Upper District and shall set forth the basis of the requesting Pumper's belief that such data are incorrect. Upon the receipt of any request, the following procedures shall be undertaken by Upper District:

ed.

(a) Notice of Request for Redetermination. Upper District shall forthwith notify in writing any Pumper whose Assessable Pumpage has been questioned, of the fact of such request and the name of the requesting Pumper. Notice shall further be sent to all Pumpers that procedures will be undertaken pursuant to this paragraph, and shall state briefly the issues to be determined.

(b) Availability of Records. Subsequent to such notice, the records of the Pumper whose Assessable Pumpage is subject to a request for redetermination shall be made available at reasonable hours and upon reasonable demand to Upper District, insofar as such records are relevant to a determination of the Assessable Pumpage of the Pumper during the period involved.

(c) Investigation and Notice of Hearing. Upper District shall conduct an investigation and shall by written decision served on all Pumpers redetermine or affirm such Assessable Pumpage. Upper District may at its option set a date for hearing. In such event, at least ten days' notice in writing of said hearing date shall be given to all Pumpers.

ed.

(d) Conduct of Hearing and Decision. If hearing be held, Upper District shall not be bound therein by strict rules of evidence, but may rely on any evidence which it deems of probative value. Any Pumper may present evidence and arguments thereat. The written decision of Upper District, with or without such hearing, shall be served on all Pumpers and shall be conclusive for purposes of this contract, unless said issue is submitted

to a court of competent jurisdiction within 90 days from notice of such decision.

(e) Reallocation of Contract Costs. If Assessable Pumpage is modified by any such decision, Contract Costs shall be reallocated in accordance therewith. Said reallocation shall be billed and payable with the next succeeding assessment.

10. Water Rights Unaffected. This contract relates solely to the equitable allocation of Contract Costs and does not involve or constitute an admission or agreement as to the water rights of any Pumper. Execution of this contract shall not prevent any party hereto from bringing or maintaining any action or proceeding to determine rights to pump, extract or store water, or to limit or curtail any pumping, extraction or storage of water in or from Upper Area or elsewhere, except as limited by Paragraphs 1 and 16 of the Operative Provisions hereof.

ed.

11. Changed Conditions. It is recognized that conditions in Upper Area may hereafter change to such an extent that it may become equitable to modify either the total obligation of Pumpers to Upper District hereunder or the allocation of Contract Costs. While this contract is entered into to assure Upper District of reimbursement of an amount up to its entire Contract Costs, it is not intended hereby, and this contract shall not be deemed, to prevent Upper District

from modifying and reducing such obligation or from applying other relief which may reduce the burden on Pumpers. Without limitation upon the power of Upper District to otherwise reduce the aggregate amount payable under this contract, the following specific instances of changed conditions are contemplated:

(a) Allocation of Portion of Burden to Taxes. It may at some future date appear equitable and fair to allocate all or a portion of Contract Costs to ad valorem taxes or other revenues of Upper District. In such event, Upper District may, in the discretion of its Board of Directors, allocate all or a portion of Contract Costs to such revenue sources and the remainder, if any, thereof, shall be payable under the terms of this contract.

(b) Imposition of Pump Tax. If Upper District should acquire and exercise the right to levy a tax upon the pumping or extraction of ground water, then the aggregate of such tax shall be credited proportionally amongst Pumpers with respect to Assessable Pumpage within Upper District.

(c) Adjudication of Rights. If all or substantially all of the water rights within Upper Area shall be adjudicated (including the rights of all Pumpers), and its natural and safe yield

determined, then this contract shall be deemed modified to the extent that Assessable Pumpage shall include only that amount of water produced over and above the safe yield portion of adjudicated rights owned by any Pumper; provided that this subparagraph (c) shall not apply to any year in which the aggregate of all Assessable Pumpage as so modified is less than 25,000 acre feet.

12. Effective Date. This contract shall be effective ten (10) days after notice in writing of execution thereof by all parties, which notice shall be given to all Pumpers by Upper District, but shall cease and terminate on July 1, 1966, unless by said date (a) this contract shall have been validated as provided below, and (b) the Judgment shall have been rendered.

ed.

13. Validation. Within four months after this contract becomes effective, a proceeding or proceedings shall be instituted by Upper District in a court of competent jurisdiction by an appropriate action or actions for determination of the validity of this contract.

14. Term. The term of this contract shall commence upon its effective date and continue so long as the Judgment, as entered or as modified, shall remain in effect, subject, however, to the provisions of Paragraph 12 above.

15. Notices. Any notice to be served upon any party hereunder may be served either personally or by mail. If served by mail, such notice shall be mailed in the County of Los Angeles, State of California, by certified mail, postage prepaid, return receipt requested, or by registered mail, and shall be addressed to the party to be served at its address as set forth below, or (in the case of Upper District) at such other address as it may have last specified in writing to the Pumper or Pumpers involved for the service of notices hereunder, or (in the case of a Pumper) at such other address as it may have last specified in writing to Upper District for the service of notices hereunder. Any notice so served by mail shall be deemed to have been served upon the first business day (excluding Saturdays, Sundays and holidays) after such mailing.

ed.

16. Additional Parties. In addition to Pumpers and their successors and assigns referred to in Paragraph 17 below, any other person or entity who or which shall pump or extract water in or from Upper Area (herein referred to as an "additional party"), may become a party to this contract, provided (a) Upper District shall give its written consent thereto, and (b) no Pumper or additional party shall serve upon Upper District its written objection thereto. If Upper District shall give its written consent to execution of this contract by an applying additional party, it shall

then give written notice of such application and consent by Upper District to each Pumper and each additional party, and if within thirty (30) days after such notice no Pumper or additional party shall have served upon Upper District its written objection to execution of this contract by the applying additional party, such additional party's application shall be deemed to have been accepted and it may become a party to this contract by delivery to Upper District of a duly executed instrument in writing stating that such person or entity joins in and becomes a party to this contract.

Any additional party so joining shall become bound by all obligations of this contract, becoming due or which should be performed within the terms of this contract on and after the ensuing January 1. Such obligations include the duty to make the report of extractions during the preceding calendar year (i.e., the year in which the contract is executed) required by Paragraph 6, and to make the payment based upon such extractions as required by Paragraph 5, provided, however, that such additional party shall have no liability under Paragraph 8 with respect to any nonpayments of an assessment based upon extractions by a Pumper or other additional party prior to the year in which such additional party joins in this contract.

As to each Pumper who executes this contract after it becomes effective, Upper District agrees that for a

period of 90 days after giving its said written consent, it will bring no action against such additional party to limit or define its rights to pump water in or from Upper Area. Further, if more than one such Pumper shall become a party to this agreement at the same time as any other pumper, each will execute and shall be deemed to have executed this contract and to have joined therein in consideration of the joinder in this contract by the other or others concurrently joining in this contract.

Any such additional party shall be deemed a Pumper for all purposes of this agreement.

17. Successors and Assigns. This contract shall inure to the benefit of and bind the successors in ownership of the water rights of the parties. If any Pumper shall sell or transfer or agree to sell or transfer its water rights in Upper Area or any part of such water rights, such Pumper shall require as a condition of any such sale, transfer or agreement that the purchaser or transferee, if not already a party to this contract, shall execute this contract and become a party thereto. Upon a full transfer of such rights by a Pumper and assumption by the assignee as above provided, the assigning Pumper shall be discharged of obligation hereunder. If such Pumper fails to obtain such assumption (except in cases of a transfer under order of court or by operation of law) the assigning Pumper shall

remain bound by the contract and production of water by said assignee by the exercise of the right assigned shall be treated as production by such Pumper.

18. Execution in Counterparts. This contract may be executed in counterparts (each counterpart being an exact copy or duplicate of the original) and all counterparts collectively shall be considered as constituting one complete contract.

IN WITNESS WHEREOF this contract is executed by the undersigned by its duly authorized officer.

Dated: _____.

_____

By _____

(SEAL)

By _____

ed.

APPENDIX H

MAIN SAN GABRIEL BASIN JUDGMENT

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.

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 6741, Page 197

JUDGMENT AS AMENDED AUGUST 24, 1989

Ralph B. Helm
Suite 214
4605 Lankershim Boulevard
North Hollywood, CA 91602
Telephone (818) 769-2002

Attorney for Watermaster

SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES

UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT, Plaintiff, vs. CITY OF ALHAMBRA, et al., Defendants.	No. 924128 AMENDED JUDGMENT (And Exhibits Thereto)

HONORABLE FLORENCE T. PICKARD

Assigned Judge Presiding

DEPARTMENT 38

August 24, 1989

AMENDED JUDGMENT
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Ralph B. Helm
Suite 214
4605 Lankershim Boulevard
North Hollywood, CA 91602
Telephone (818) 769-2002

Attorney for Watermaster

SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES

UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT, Plaintiff, vs. CITY OF ALHAMBRA, et al., Defendants.	No. 924128 AMENDED JUDGMENT Hearing: August 24, 1989 Department 38, 9:00 A.M.

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

I. INTRODUCTION

1. Pleadings, Parties, and Jurisdiction. The complaint herein was filed on January 2, 1968, seeking an adjudication of water rights. By amendment of said complaint and dismissals of certain parties, said adjudication was limited to the Main San Gabriel Basin and its Relevant Watershed. Substantially all

defendants and the cross-defendant have appeared herein, certain defaults have been entered, and other defendants dismissed. By the pleadings herein and by Order of this Court, the issues have been made those of a full inter se adjudication of water rights as between each and all of the parties. This Court has jurisdiction of the subject matter of this action and of the parties herein.

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

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

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

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

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

7. Amendments to Judgment. (New) The original Judgment herein was previously amended on March 29, 1979, by: (1) adding definition (r [1]) thereto, (2) amending definition (bb) therein, (3) adding Exhibit "K" thereto, (4) adding Sections 14.5 and 16.5 thereto, and (5) amending Sections 37(b), 37(c), 37(d), and Section 47 therein; it was again amended on December 21, 1979, by amending Section 38(c) thereof; again amended on February 21, 1980, by amending Section 24 thereof; again amended on September 12, 1980, by amending Sections 35(a), 37(a), and 38(a); again amended on December 22, 1987, by adding Section 37(e) thereto; and last amended on July 22, 1988 by amending Section 37(e) thereof and Ordering an Amended Judgment herein.

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

9. Producers and Their Designees. (New) The current status of Producers and their Designees is shown on Exhibit "L".

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

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

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

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

(d) Diverter -- Any party who Diverts.

(e) Elevation -- Feet above mean sea level.

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

(g) Ground Water -- Water beneath the surface of the ground and within the zone of saturation.

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

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

(j) In-Lieu Water Cost -- The differential between a Producer's non-capital cost of direct delivery of Supplemental Water and the cost of Production of Ground Water (including depreciation on Production facilities) to a particular Producer who has been required by Watermaster to take direct delivery of Supplemental Water in lieu of Ground Water.

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

(l) Long Beach Case -- Los Angeles Superior Court Civil Action No. 722647, entitled, "**Long Beach, et al., v. San Gabriel Valley Water Company, et al.**"

(m) Main San Gabriel Basin or Basin -- The Ground Water Basin underlying the area shown as such on Exhibit "A".

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

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

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

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

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

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

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

(u) Prescriptive Pumping Right -- (Prior Judgment

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

(v) Produce or Producing -- (Prior Judgment Section 4 (u)) To Pump or Divert water.

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

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

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

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

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

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

(cc) Replacement Water -- (Prior Judgment Section 4 (bb)) Water purchased by Watermaster to replace:

(1) Production in excess of a Pumper's Share of Operating Safe Yield; (2) The consumptive use portion resulting from the exercise of an Overlying Right; and (3) Production in excess of a Diverter's right to Divert for Direct Use.

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

(1) Upper District -- Upper San Gabriel Valley Municipal Water District, a member public agency of The Metropolitan Water District of Southern California (MWD).

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

(3) Three Valleys District -- Three Valleys Municipal Water District, formerly, "Pomona Valley Municipal Water District", a member public agency of MWD.

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

(ff) Supplemental Water -- (Prior Judgment Section 4 (ee)) Nontributary water imported through a Responsible Agency.

(gg) Transporting Parties -- (Prior Judgment Section 4 (ff)) Any party presently transporting water (i.e., during the 12 months immediately preceding the making of the findings herein) from the Relevant Watershed or Basin to an area outside

thereof, and any party presently or hereafter having an interest in lands or having a service area outside the Basin or Relevant Watershed contiguous to lands in which it has an interest or a service area within the Basin or Relevant Watershed. Division by a road, highway, or easement shall not interrupt contiguity. Said term shall also include the City of Sierra Madre, or any party supplying water thereto, so long as the corporate limits of said City are included within one of the Responsible Agencies and if said City, in order to supply water to its corporate area from the Basin, becomes a party to this action bound by this Judgment.

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

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

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

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

Exhibit "B" -- Boundaries of Relevant Watershed.

Exhibit "C" -- Table Showing Base Annual Diversion

Rights of Certain Diverters.

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

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

Exhibit "F" -- Table Showing Special Category Rights.

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

Exhibit "H" -- Watermaster Operating Criteria.

Exhibit "J" -- Puente Narrows Agreement.

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

Exhibit "L" -- (New) List of Producers And Their Designees, as of June 1988.

Exhibit "M" -- (New) Watermaster Members, Officers and Staff, Including Calendar Year 1989.

II. DECREE

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

A. DECLARATION OF HYDROLOGIC CONDITIONS

12. Basin as Common Source of Supply. (Prior Judgment Section 6) The area shown on Exhibit "A" as Main San Gabriel Basin overlies a Ground Water basin. The Relevant Watershed is the watershed area within which rights are herein adjudicated. The waters of the Basin and Relevant Watershed constitute a common source of natural water supply to the parties herein.

13. Determination of Natural Safe Yield. (Prior Judgment Section 7) The Natural Safe Yield of the Main San Gabriel Basin is found and declared to be one hundred fifty-two thousand seven-hundred (152,700) acre feet under Calendar Year 1967 cultural conditions.

14. Existence of Overdraft. (Prior Judgment Section 8) In each and every Calendar Year commencing with 1953, the Basin has been and is in Overdraft.

B. DECLARATION OF RIGHTS

15. Prescription. (Prior Judgment Section 9) The use of water by each and all parties and their predecessors in interest has been open, notorious, hostile, adverse, under claim of right, and with notice of said overdraft continuously from January 1, 1953 to January 4, 1973. The rights of each party herein declared are prescriptive in nature. The following aggregate consequences of said prescription within the Basin and Relevant Watershed are hereby declared:

(a) Prior Prescription. Diversions within the Relevant Watershed have created rights for direct consumptive use within the Basin, as declared and determined in Sections 16 and 18 hereof, which are of equal priority *inter se*, but which are prior and paramount to Pumping Rights in the Basin.

(b) Mutual Prescription. The aggregate Prescriptive Pumping Rights of the parties who are Pumpers now exceed, and for many years prior to filing of this action, have exceeded, the Natural Safe Yield of the Basin. By reason of said condition, all rights of said Pumpers are declared

to be mutually prescriptive and of equal priority, inter se.

(c) Common Ownership of Safe Yield and Incidents Thereto. By reason of said Overdraft and mutual Prescription, the entire Natural Safe Yield of the Basin, the Operating Safe Yield thereof and the appurtenant rights to Ground Water storage capacity of the Basin are owned by Pumpers in undivided Pumpers' Shares as hereinafter individually declared, subject to the control of Watermaster, pursuant to the Physical Solution herein decreed. Nothing herein shall be deemed in derogation of the rights to spread water pursuant to rights set forth in Exhibit "G".

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

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

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

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

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

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

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

20. Non-consumptive Practices. (Prior Judgment Section 14) Certain Producers have engaged in Water Diversion and spreading practices which have caused such Diversions to have a

non-consumptive or beneficial impact upon the aggregate water supply available in the Basin. Said parties, and a statement of the nature of their rights, uses and practices, are set forth in Exhibit "G". The Physical Solution decreed herein, and particularly its provisions for Assessments, shall not apply to such non-consumptive uses. Watermaster may require reports on the operations of said parties.

21. Overlying Rights. (Prior Judgment Section 14.5) Producers listed in Exhibit "K" hereto were not parties herein at the time of the original entry of Judgment herein. They have exercised in good faith Overlying Rights to Produce water from the Basin during the periods subsequent to the entry of Judgment herein and have by self-help initiated or maintained appurtenant Overlying Rights. Such rights are exercisable without quantitative limit only on specifically described Overlying Land and cannot be separately conveyed or transferred apart therefrom. As to such rights and their exercise, the owners thereof shall become parties to this action and be subject to Watermaster Replacement Water Assessments under Section 45 (b) hereof, sufficient to purchase Replenishment Water to offset the net consumptive use of such Production and practices. In addition, the gross amount of such Production for such overlying use shall be subject to Watermaster Administrative Assessments under Section 45 (a) hereof and the consumptive use portion of such Production for overlying use shall be subject to Watermaster's In-Lieu Water Cost Assessments under Section 45 (d) hereof. The Producers presently entitled to exercise Overlying Rights, a description of the Overlying Land to which

Overlying Rights are appurtenant, the nature of use and the consumptive use portion thereof are set forth in Exhibit "K" hereto. Watermaster may require reports and make inspections of the operations of said parties for purposes of verifying the uses set forth in said Exhibit "K", and, in the event of a material change, to redetermine the net amount of consumptive use by such parties as changed in the exercise of such Overlying Rights. Annually, during the first two (2) weeks of June in each Calendar Year, such Overlying Rights Producers shall submit to Watermaster a verified statement as to the nature of the then current uses of said Overlying Rights on said Overlying Lands for the next ensuing Fiscal Year, whereupon Watermaster shall either affirm the prior determination or redetermine the net amount of the consumptive use portion of the exercise of such Overlying Right by said Overlying Rights Producer.

C. INJUNCTION

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

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

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

25. Injunction Against Unauthorized Recharge. (Prior Judgment Section 17) Each party, its officers, agents, employees, successors and assigns, is **ENJOINED AND RESTRAINED** from spreading, injecting or otherwise recharging water in the Basin except pursuant to: (a) an adjudicated non-consumptive use, or (b) consent and approval of or Cyclic Storage Agreement with Watermaster, or (c) subsequent order of this Court.

26. Injunction Against Transportation From Basin or Relevant Watershed. (Prior Judgment Section 18) Except upon further order of Court, all parties, other than Transporting Parties and MWD in its exercise of its Special Category Rights, to the extent authorized therein, are **ENJOINED AND RESTRAINED** from transporting water hereafter Produced from the Relevant Watershed or Basin outside the areas thereof. For purposes of

this Section, water supplied through a city water system which lies chiefly within the Basin shall be deemed entirely used within the Basin. Transporting Parties are entitled to continue to transport water to the extent that any Production of water by any such party does not violate the injunctive provisions contained in Section 22 hereof; provided that said water shall be used within the present service areas or corporate or other boundaries and additions thereto so long as such additions are contiguous to the then existing service area or corporate or other boundaries; except that a maximum of ten percent (10%) of use in any Fiscal Year may be outside said then existing service areas or corporate or other boundaries.

D. CONTINUING JURISDICTION

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

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

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

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

E. WATERMASTER

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

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

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

(b) Nomination of Producer Representatives. A meeting of all parties shall be held at the regular meeting of Watermaster in November of each year, at the offices of Watermaster. Nomination of the six (6) Producer

representatives shall be by cumulative voting, in person or by proxy, with each Producer entitled to one (1) vote for each one hundred (100) acre feet, or portion thereof, of Base Annual Diversion Right or Prescriptive Pumping Right or Integrated Production Right.

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

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

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

31. Quorum. (Prior Judgment Section 23) Five (5) members

of the Watermaster shall constitute a quorum for the transaction of affairs of the Watermaster. Action by the affirmative vote of five (5) members shall constitute action by Watermaster, <u>except</u> that the affirmative vote of six (6) members shall be required:

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

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

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

33. <u>Organization.</u> (Prior Judgment Section 25) At its first meeting in each year, Watermaster shall elect a chairman and a vice chairman from its membership. It shall also select a secretary, a treasurer and such assistant secretaries and assistant treasurers as may be appropriate, any of whom may, but need not be, members of Watermaster.

(a) <u>Minutes</u>. Minutes of all Watermaster meetings shall be kept which shall reflect all actions taken by Watermaster. Draft copies thereof shall be furnished to

any party who files a request therefor in writing with Watermaster. Said draft copies of minutes shall constitute notice of any Watermaster action therein reported; failure to request copies thereof shall constitute waiver of notice.

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

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

(d) Adjournments. Any meeting of Watermaster may be adjourned to a time and place specified in the order of adjournment. Less than a quorum may so adjourn from time to time. A copy of the order or notice of adjournment

shall be conspicuously posted on or near the door of the place where the meeting was held within twenty-four (24) hours after adoption of the order of adjournment.

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

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

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

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

(d) Measuring Devices, etc. To cause parties, pursuant to uniform rules, to install and maintain in good

operating condition, at the cost of each party, such necessary measuring devices or meters as may be appropriate; and to inspect and test any such measuring device as may be necessary.

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

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

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

(h) Purchase of and Recharge with Supplemental Water. To purchase Supplemental Water and to introduce the same into the Basin for replacement or cyclic storage purposes, subject to the affirmative vote of six (6) members of Watermaster.

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

(j) Cooperation With Existing Agencies. To act jointly or cooperate with agencies of the United States and the State of California or any political subdivision, municipality or district to the end that the purposes of the Physical Solution may be fully and economically carried out. Specifically, in the event Upper District has facilities available and adequate to accomplish any of the

administrative functions of Watermaster, consideration shall be given to performing said functions under contract with Upper District in order to avoid duplication of facilities.

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

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

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

(1) Watermaster control of all spreading or injection and extraction scheduling and procedures for such stored water;

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

(3) determination by Watermaster of, and

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

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

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

35. Policy Decisions -- Procedure. (Prior Judgment Section 27) It is contemplated that Watermaster will exercise discretion in making policy decisions relating to Basin management under the Physical Solution decreed herein. In order to assure full participation and opportunity to be heard for

those affected, no policy decision shall be made by Watermaster until thirty (30) days after the question involved has been raised for discussion at a Watermaster meeting and noted in the draft of minutes thereof.

36. Reports. (Prior Judgment Section 28) Watermaster shall annually file with the Court and mail to the parties a report of all Watermaster activities during the preceding year, including an audited statement of all accounts and financial activities of Watermaster, summary reports of Diversions and Pumping, and all other pertinent information. To the extent practical, said report shall be mailed to all parties on or before November 1.

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

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

(b) Notice of Motion. Any party may, by a regularly noticed motion, petition the Court for review of said Watermaster's action or decision. Notice of such motion shall be mailed to Watermaster and all parties. Unless so

ordered by the Court, such petition shall not operate to stay the effect of such Watermaster action.

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

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

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

F. PHYSICAL SOLUTION

38. Purpose and Objective. (Prior Judgment Section 30) Consistent with the California Constitution and the decisions of the Supreme Court, the Court hereby adopts and **Orders** the parties to comply with this Physical Solution. The purpose and objective of these provisions is to provide a legal and practical means for accomplishing the most economic, long term, conjunctive utilization of surface, Ground Water, Supplemental Water and Ground Water storage capacity to meet the needs and requirements of the water users dependent upon the Basin and Relevant Watershed, while preserving existing equities.

39. Need for Flexibility. (Prior Judgment Section 31) In

Ralph B. Helm - Bar No. 022004
4605 Lankershim Boulevard, #214
North Hollywood, CA 91602

Telephone (818) 769-2002

Attorney for Watermaster - Petitioner

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STETSON ENGINEERS INC.

SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES

UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT, Plaintiff, vs. CITY OF ALHAMBRA, et al., Defendants.	No. 924129 ORDER AMENDING JUDGMENT TO EXPAND WATERMASTER'S POWERS TO INCLUDE MAINTENANCE, IMPROVEMENT, AND CONTROL OF BASIN WATER QUALITY WITH ALLOWABLE FUNDING THROUGH IN-LIEU ASSESSMENTS Hearing: August 7, 1990 Department 38, 9:15 A. M.

The Petition of the Main San Gabriel Basin Watermaster (Watermaster) for Amendment to Judgment herein to expand its powers to include maintenance, improvement, and control of Basin water quality by controlling pumping in the Basin, with allowable funding for associated costs to be paid through its In-Lieu Assessments, was continued on July 31, 1990, to August 7, 1990, when it duly and regularly came on for hearing, at 9:15 o'clock A. M. in Department 38 of the above entitled Court, the Honorable FLORENCE T. PICKARD, Assigned Judge Presiding. Ralph B. Helm appeared as Attorney for Watermaster - Petitioner; Wayne K. Lemieux appeared for Defendant, San Gabriel Valley Municipal Water District, in support of the Petition; Fred Vendig, General

Counsel, Karen L. Tachiki, Assistant General Counsel, and Victor E. Gleason, Senior Deputy General Counsel, by Victor E. Gleason, appeared for Defendant, The Metropolitan Water District of Southern California, in support of the Petition; Timothy J. Ryan appeared for Defendant, San Gabriel Valley Water Company, in opposition to the Petition; Lagerlof, Senecal, Drescher & Swift, by H. Jess Senecal, appeared for Defendants, Calmat Company, Livingston-Graham, Owl Rock Products, AZ-Two, Inc., and Sully-Miller Contracting Company, in opposition to the Petition; Ira Reiner, Los Angeles County District Attorney, by Jan Chatten-Brown, Special Assistant to the District Attorney, appeared in opposition to the Petition; and Sarah F. Bates and Laurens H. Silver, by Sarah F. Bates, appeared on behalf of Amicus Curiae Sierra Club, in opposition to the Petition.

The Court acknowledged receipt and consideration of: letters in support of the Petition by the California Regional Water Quality Control Board - Los Angeles Region and by the State Water Resources Control Board; a copy of a letter addressed to the Attorney for Petitioner, from the US Environmental Protection Agency - Region IX, by Mark J. Klaiman, Assistant Regional Counsel, regarding several matters of federal law which EPA believed might ultimately affect the subject Petition; a letter in opposition to the Petition by East Valleys Organization; and a FAX communication to the Court, in opposition to the Petition, from Congressman Esteban E. Torres, which was not communicated to nor seen by the parties.

Members of the public, present in Court, were invited to, and did, present oral testimony during the hearing.

Under date of December 10, 1990 the Court entered its Intended Decision Re Amendment To Judgment and, by minute order duly entered and mailed to Counsel for Petitioner, ordered copies thereof mailed forthwith to all appearing parties, including those appearing as friends of the court, and to all other affected parties on the case's current mailing list.

A Proof Of Service by mail on December 13, 1990, Of Intended Decision Re Amendment To Judgment, as ordered, has been filed with the Court.

Opposition to Petitioner's Proposed Order were filed by Amicus Curiae Sierra Club, Amicus Curiae Los Angeles District Attorney, and by Producer Parties Calmat Co., Livingston-Graham, Owl Rock Products Company, AZ-Two, Inc., and Sully-Miller Contracting Company.

Proof being made to the satisfaction of the Court and good cause appearing:

IT IS, HEREBY, ORDERED:

1. That the Amended Judgment herein be further amended by amending Subsection (j) of Section 10 thereof, Definitions, and Section 40 thereof, Division F, Physical Solution, to read as follows:

"10 (j) <u>In-Lieu Water Cost</u> - - The differential between a particular Producer's cost of Watermaster directed produced, treated, blended, substituted, or Supplemental Water delivered or substituted to, for, or taken by, such Producer in-lieu of his cost of otherwise normally Producing a like amount of Ground Water from the Basin.

"40. <u>Watermaster Control.</u> (Prior Judgment Section 32)

In order to develop an adequate and effective program of Basin management, it is essential that Watermaster have broad discretion in the making of Basin management decisions within the ambit hereinafter set forth. The maintenance, improvement, and control of the water quality and quantity of the Basin, withdrawal and replenishment of supplies of the Basin and Relevant Watershed, and the utilization of the water resources thereof, must be subject to procedures established by Watermaster in implementation of the Physical Solution provisions of this Judgment. Both the quantity and quality of said water resource are thereby preserved and its beneficial utilization maximized.

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

"(b) Watermaster shall have the power to control pumping in the Basin by water Producers therein for Basin cleanup and water quality control so that specific well production can be directed as to a lesser amount, to total cessation, as to an increased amount, and even to require pumping in a new location in the

Basin. Watermaster's right to regulate pumping activities of Producers shall be subordinate to any conflicting Basin cleanup plan established by the EPA or other public governmental agency with responsibility for ground water management or clean up.

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

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

"(e) Watermaster shall determine whether funds from local, regional, state or federal agencies are available for regulating pumping and the various costs associated with, or arising from such activities. If no public funds are available from local,

regional, state, or federal agencies, the costs shall be obtained and paid by way of an In-Lieu Assessment by Watermaster pursuant to Section 10 (j) of the Amended Judgment herein. Provided such In-Lieu Assessments become necessary, the costs shall be borne by all Basin Producers.

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

2. This Amended Judgment shall continue in full force and effect as hereby Ordered and Amended.

Dated: January 29, 1991.

/s/Florence T. Pickard
FLORENCE T. PICKARD
Judge of the Superior Court,
Specially Assigned

order that Watermaster may be free to utilize both existing and new and developing technological, social and economic concepts for the fullest benefit of all those dependent upon the Basin, it is essential that the Physical Solution hereunder provide for maximum flexibility and adaptability. To that end, the Court has retained continuing jurisdiction to supplement the broad discretion herein granted to the Watermaster.

40. Watermaster Control. (Prior Judgment Section 32) In order to develop an adequate and effective program of Basin management, it is essential that Watermaster have broad discretion in the making of Basin management decisions within the ambit hereinafter set forth. Withdrawal and replenishment of supplies of the Basin and Relevant Watershed and the utilization of the water resources thereof, and of available Ground Water storage capacity, must be subject to procedures established by Watermaster in implementation of the provisions of this Judgment. Both the quantity and quality of said water resource are thereby preserved and its beneficial utilization maximized.

41. General Pattern of Contemplated Operation. (Prior Judgment Section 33) In general outline (subject to the specific provisions hereafter and to Watermaster Operating Criteria set forth in Exhibit "H"), Watermaster will determine annually the Operating Safe Yield of the Basin and will notify each Pumper of his share thereof, stated in acre feet per Fiscal Year. Thereafter, no party may Produce in any Fiscal Year an amount in excess of the sum of his Diversion Right, if any, plus his Pumper's Share of such Operating Safe Yield, or his

Integrated Production Right, or the terms of any Cyclic Storage Agreement, without being subject to Assessment for the purpose of purchasing Replacement Water. In establishing the Operating Safe Yield, Watermaster shall follow all physical, economic, and other relevant parameters provided in the Watermaster Operating Criteria. Watermaster shall have Assessment powers to raise funds essential to implement the management plan in any of the several special circumstances herein described in more detail.

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

43. Determination of Operating Safe Yield. (Prior Judgment Section 35) Watermaster shall annually determine the Operating Safe Yield applicable to the succeeding Fiscal Year and estimate the same for the next succeeding four (4) Fiscal Years. In making such determination, Watermaster shall be governed in the exercise of its discretion by the Watermaster Operating Criteria. The procedures with reference to said determination shall be as follows:

(a) Preliminary Determination. On or before Watermaster's first meeting in April of each year, Watermaster shall make a Preliminary Determination of the Operating Safe Yield of the Basin for each of the succeeding five Fiscal Years. Said determination shall be

made in the form of a report containing a summary statement of the considerations, calculations and factors used by Watermaster in arriving at said Operating Safe Yield.

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

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

44. Reports of Pumping and Diversion. (Prior Judgment

Section 36) Each party (other than Minimal Producers) shall file with the Watermaster quarterly, on or before the last day of January, April, July and October, a report on a form to be prescribed by Watermaster showing the total Pumping and Diversion (separately for Direct Use and for non-consumptive use, if any,) of such party during the preceding calendar quarter.

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

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

(b) Replacement Water Costs. Replacement Water Assessments shall be collected from each party on account of such party's Production in excess of its Diversion

Rights, Pumper's Share or Integrated Production Right, and on account of the consumptive use portion of Overlying Rights, computed at the applicable rate established by Watermaster consistent with the Watermaster Operating Criteria.

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

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

(e) Basin Water Quality Improvement. For purposes of testing, protecting or improving the water quality in the Basin, Watermaster may, after a noticed hearing thereon, fix terms and conditions under which it may waive all or any part of its Assessments on such ground water Production and if such Production, in addition to his other Production, does not exceed such Producer's Share or entitlement for that Fiscal Year, such stated Production shall be allowed to be carried over for a part of such Producer's next Fiscal Year's Producer's Share or entitlement. In connection therewith, Watermaster may also

waive the provisions of Sections 25, 26 and 57 hereof, relating to Injunction Against Unauthorized Recharge, Injunction Against Transportation From Basin or Relevant Watershed, and Intervention After Judgment, respectively. Nothing in this Judgment is intended to allow an increase in any Producer's annual entitlement nor to prevent Watermaster, after hearing thereon, from entering into contracts to encourage, assist and accomplish the clean up and improvement of degraded water quality in the Basin by non-parties herein. Such contracts may include the exemption of the Production of such Basin water therefor from Watermaster Assessments and, in connection therewith, the waiver of the provisions of Judgment Sections 25, 26, and 57 hereof.

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

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

(b) Payment. Each Assessment shall be payable, and each party is **Ordered** to pay the same, on or before

September 20, following such Assessment, subject to the rights reserved in Section 37 hereof.

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

47. Availability of Supplemental Water From Responsible Agencies. (Prior Judgment Section 39) 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, together with interest accrued thereon, for purchase of such water when available.

48. Accumulation of Replacement Water Assessment Proceeds. (Prior Judgment Section 40) In order to minimize fluctuation in Assessments and to give Watermaster flexibility in Basin

management, Watermaster may make reasonable accumulations of Replacement Water Assessments. Such moneys and any interest accrued thereon shall only be used for the purchase of Replacement Water.

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

50. Minimal Producers. (Prior Judgment Section 42) In the interest of Justice, Minimal Producers are exempted from the operation of this Physical Solution, so long as such party's annual Production does not exceed five (5) acre feet. Quarterly Production reports by such parties shall not be required, but Watermaster may require, and Minimal Producers shall furnish, specific periodic reports. In addition, Watermaster may conduct such investigation of future operations of any Minimal Producer as may be appropriate.

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

G. MISCELLANEOUS PROVISIONS

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

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

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

District.

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

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

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

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

designation filed by that party.

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

(1) a Transporting Party, or

(2) a successor in interest immediate or mediate to a water system on lands or portion thereof, theretofore served by such a Transporting Party, for use by such successor in accordance with limitations applicable to Transporting Parties, or

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

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

56. Abandonment of Rights. (Prior Judgment Section 48) It is in the interest of reasonable beneficial use of the Basin and its water supply that no party be encouraged to take and use more water in any Fiscal Year than is actually required. Failure to Produce all of the water to which a party is entitled hereunder shall not, in and of itself, be deemed or constitute

an abandonment of such party's right, in whole or in part. Abandonment and extinction of any right herein Adjudicated shall be accomplished only by:

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

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

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

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

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

only the parties to this action, but as well to their respective heirs, executors, administrators, successors, assigns, lessees, licensees and to the agents, employees and attorneys in fact of any such persons.

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

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

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

DATED: August 24, 1989.

s/ Florence T. Pickard
Florence T. Pickard, Judge
Specially Assigned

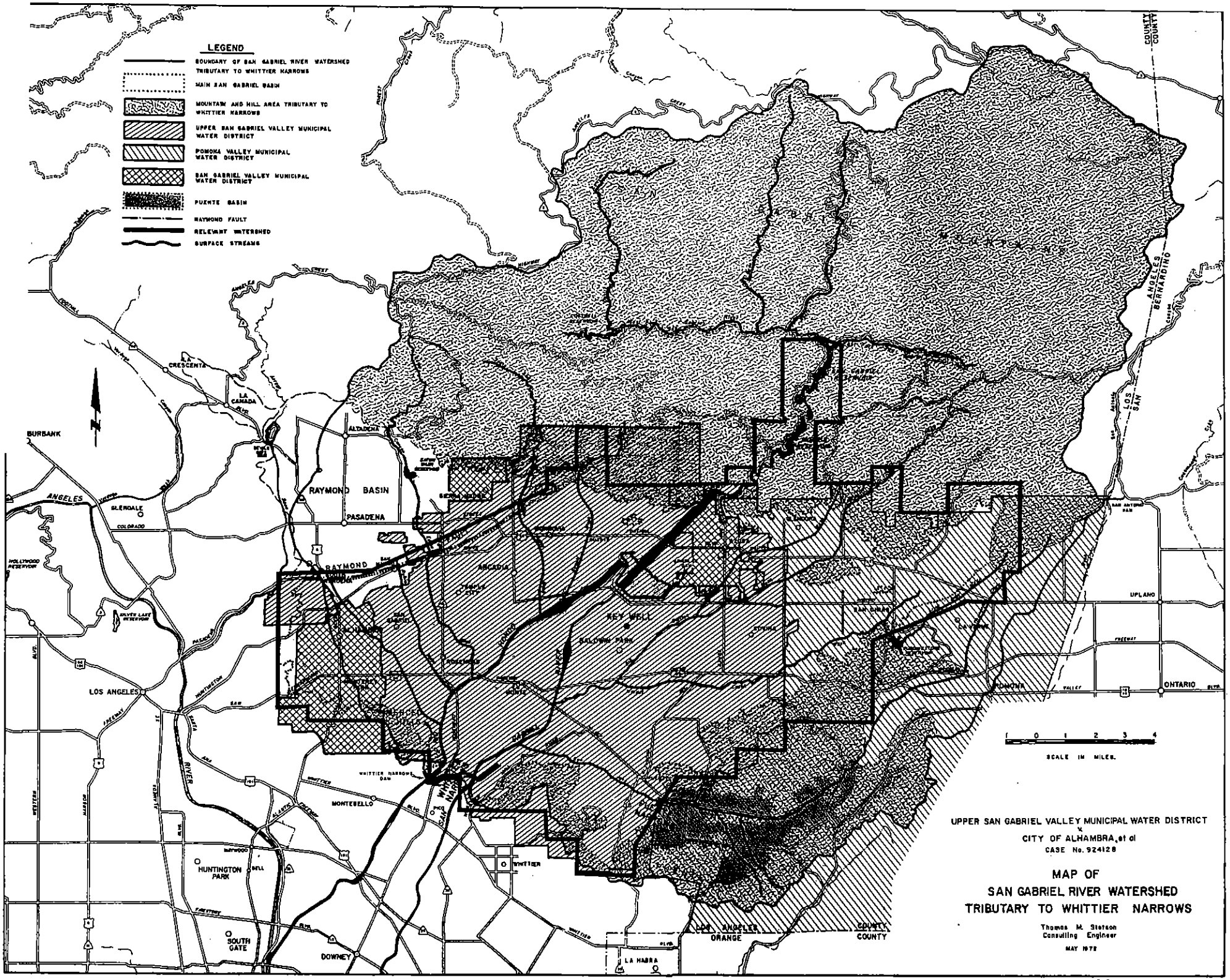

LEGEND
BOUNDARY OF SAN GABRIEL RIVER WATERSHED TRIBUTARY TO WHITTIER NARROWS
MAIN SAN GABRIEL BASIN
MOUNTAIN AND HILL AREA TRIBUTARY TO WHITTIER NARROWS
UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
POMONA VALLEY MUNICIPAL WATER DISTRICT
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
PUENTE BASIN
RAYMOND FAULT
RELEVANT WATERSHED
SURFACE STREAMS
RAYMOND BASIN
PASADENA
ALTADENA
LA CRESCENTA
LA CANADA
BURBANK
GLENDALE
ARCADIA
KEY WELL
BALDWIN PARK
UPLAND
ONTARIO
POMONA
LOS ANGELES
MONTEBELLO
WHITTIER NARROWS DAM
WHITTIER
HUNTINGTON PARK
SOUTH GATE
DOWNEY
LA HABRA
ORANGE COUNTY
LOS ANGELES COUNTY
SAN BERNARDINO COUNTY
SCALE IN MILES
0 1 2 3 4
UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
CITY OF ALHAMBRA, et al
CASE No. 924128
MAP OF
SAN GABRIEL RIVER WATERSHED
TRIBUTARY TO WHITTIER NARROWS
Thomas M. Stetson
Consulting Engineer
MAY 1972

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;

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;

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;

Thence South 67° 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;

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;

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 "C"

**TABLE
SHOWING BASE
ANNUAL DIVERSION
RIGHTS OF CERTAIN
DIVERTERS**

	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
Rittenhouse, James (Transferred to Covell, Ralph)	0
Ruebhausen, Arline (Held in common with Ruebhausen, Victor) (Transferred to City of Glendale)	0
Ruebhausen, Victor (See Ruebhausen, Arline, above)	0
TOTAL	5.52

Exhibit "D"

TABLE
SHOWING PRESCRIPTIVE PUMPING RIGHTS
AND PUMPER'S SHARE OF EACH PUMPER
AS OF JUNE, 1988

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share Percent (%)
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
Anchor Plating Co., Inc. (Successor to Bodger & Sons) (Transferred to Crown City Plating Co.)	0	0
Anderson, Ray L. and Helen T., Trustees (Successor to Covina-Valley Unified School District)	50.16	0.02538
Andrade, Marcario and Consuelo; and Andrade, Robert and Jayne (Successor to J. F. Isbell Estate, Inc.)	8.36	0.00423
Arcardia, City of	9,252.00	4.68137
(Successor to First National Finance Corporation)	60.90	0.03081
(Transferred to City of Monrovia)	951.00	0.48119
	8,361.90	4.23099
Associated Southern Investment Company (Transferred to Southern California Edison Company)	0	0
AZ-Two, Inc. (Lessee of Southwestern Portland Cement Co.)	0	0
Azusa, City	3,655.99	1.84988
Azusa-Western Inc. (Transferred to Southwestern Portland Cement Co.)	0	0
Bahnsen & Beckman Ind., Inc. (Transferred to Woodland, Richard)	0	0

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
Bahnsen, Betty M. (Transferred to Dawes, Mary Kay)	0	0
Baldwin Park County Water District (See Valley County Water District)	-	-
Banks, Gale C. (Successor to Doyle, Mr. and Mrs.; and Madruga, Mr. and Mrs.)	50.00	0.02530
Base Line Water Company	430.20	0.21767
Beverly Acres Mutual Water Company	93.00	0.04706
Birenbaum, Max (Held in common with Birenbaum, Sylvia; Schneiderman, Alan; Schneiderman, Lydia; Wigodsky, Bernard; Wigodsky, Estera) (Transferred to City of Whittier)	0	0
Birenbaum, Sylvia (See Birenbaum, Max)	-	-
Blue Diamond Concrete Materials Div., The Flintkote Company (Transferred to Sully-Miller Contracting Co.)	0	0
Bodger & Sons DBA Bodger Seeds Ltd. (Transferred to Anchor Plating Co., Inc.)	0	0
Botello Water Company	0	0
Burbank Development Company	50.65	0.02563
Cadway, Inc. (Successor to:		
Corcoran, Jack S. and R. L.)	100.00	0.05060
Corcoran, Jack S. and R. L.)	100.00	0.05060
	200.00	0.10120
Cal Fin (Transferred to Suburban Water Systems)	0	0
California-American Water Company (San Marino System)	7,868.70	3.98144
California Country Club	0	0

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
California Domestic Water Company	11,024.82	5.57839
(Successor to:		
Cantrill Mutual Water Company	42.50	0.02150
Industry Properties, Ltd.	73.50	0.03719
Modern Accent Corporation	256.86	0.12997
Fisher, Russell)	19.00	0.00961
	11,416.68	5.77666
California Materials Company	0	0
Cantrill Mutual Water Company (Transferred to California Domestic Water Co.)	0	0
Cedar Avenue Mutual Water Company	121.10	0.06127
Champion Mutual Water Company	147.68	0.07472
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.)	-	-
Conrock Company		
(Formerly Consolidated Rock Products Co.)	1,465.35	0.74144
(Successor to Manning Bros. Rock & Sand Co.)	328.00	0.16596
	1,793.35	0.90740
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
	547.00	0.27677
Corcoran, R. L. (See Corcoran, Jack S.)	-	-
County Sanitation District No. 18 of Los Angeles County	4.50	0.00228

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
Covell, et al. (Successor to Rittenhouse, Catherine and Rittenhouse, James) (Held in common with Jobe, Darr; Goedert, Lillian E.; Goedert, Marion W.; Lakin, Kendall R.; Lakin, Kelly R.; Snyder, Harry)	111.05	0.05619
Covina, City of	2,507.89	1.26895
(Transferred to Covina Irrigating Company)	1,734.00	0.87737
(Transferred to Covina Irrigating Company)	300.00	0.15179
	473.89	0.23979
Covina-Valley Unified School District (Transferred to Anderson, Ray)	0	0
Crevolin, A. J.	2.25	0.00114
Crocker National Bank, Executor of the Estate of A. V. Handorf (Transferred to Modern Accent Corp.)	0	0
Cross Water Company (Transferred to City of Industry)	0	0
Crown City Plating Company	190.00	0.09614
(Successor to Anchor Plating Co., Inc.)	10.00	0.00506
	200.00	0.10120
Davidson Optronics, Inc.	22.00	0.01113
Dawes, Mary Kay (Successor to Bahnsen, Betty M.)	441.90	0.22359
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)	0	0
Doyle, Mr. and Mrs.; and Madruga, Mr. and Mrs. (Successor to Sawpit Farms, Ltd.) (Transferred to Banks, Gale C.)	0	0
Driftwood Dairy	163.80	0.08288
Duhalde, L. (Transferred to El Monte Union High School District)	0	0

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
Dunning, George (Held in common with Dunning, Vera H.) (Successor to Vera H. Dunning)	324.00	0.16394
Dunning, Vera H. (Transferred to George Dunning)	-	-
East Pasadena Water Company, Ltd.	1,407.69	0.71227
Eckis, Rollin (Successor to Sawpit Farms, Ltd.) (Transferred to City of Monrovia)	0	0
El Encanto Properties (Transferred to La Puente Valley County Water District)	0	0
El Monte, City of	2,784.23	1.40878
El Monte Cemetary Association	18.50	0.00936
El Monte Union High School District (Successor to Duhalde, L.) (Transferred to City of Whittier)	0	0
Everett, Mrs. Alda B. (Held in common with Everett, W. B., Executor of the Estate of I. Worth Everett)	0	0
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	0
Faix, Ltd. (Successor to Faix, Inc.)	6,490.00	3.28384
First National Finance Corporation (Transferred to City of Arcadia)	0	0
Fisher, Russell (Held in common with Hauch, Edward and Warren, Clyde) (Transferred to California Domestic Water Company)	0	0

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
Frank F. Pellissier & Sons, Inc. (Transferred to Faix, Inc.)	0	0
Fruit Street Water Company (Transferred to: Gifford, Brooks, Jr. City of La Verne)	0	0
Gifford, Brooks, Jr. (Successor to: Fruit Street Water Co., Mission Gardens Mutual Water Company) (Transferred to City of Whittier)	0	0
Gilkerson, Frank B. (Transferred to Jobe, Darr)	-	-
Glendora Unified High School District (Transferred to City of Glendora)	0	0
Goedert, Lillian E. (See Covell, et al)	-	-
Goedert, Marion W. (See Covell, et al)	-	-
Graham, William (Transferred to Darr Jobe)	-	-
Green, Walter	71.70	0.03628
Grizzle, Lissa B. (Held in common with Grizzle, Mervin A.; Wilson, Harold R.; Wilson, Sarah C.) (Transferred to City of Whittier)	0	0
Grizzle, Mervin A. (See Grizzle, Lissa B.)	0	0
Hansen, Alice	0.75	0.00038
Hartley, David	0	0
Hauch, Edward (See Fisher, Russell)	0	0
Hemlock Mutual Water Company	166.00	0.08399

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
Hollenbeck Street Water Company (Transferred to Suburban Water Systems)	0	0
Hunter, Lloyd F. (Successor to R. Wade)	4.40	0.00223
Hydro-Conduit Corporation	0	0
Industry Waterworks System, City of (Successor to Cross Water Company)	1,103.00	0.55810
Industry Properties, Ltd. (Successor to A & E Plastik Pak Co., Inc.) (Transferred to California Domestic Water Co.)	0	0
J. F. Isbell Estate, Inc. (Transferred to Andrade, Macario and Consuelo; and Andrade, Robert and Jayne)	0	0
Jerris, Helen (See Polopolus, et al)	-	-
Jobe, Darr (See Covell, et al)	-	-
Kirklen Family Trust (Formerly Kirklen, Dawn L.)		
(Held in common with Kirklen, William R.)	375.00	0.18974
(Successor to San Dimas-La Verne	62.50	0.03162
Recreational Facilities Authority)	437.50	0.22136
Kirklen, Dawn L. (See Kirklen Family Trust)	-	-
Kirklen, William R. (See Kirklen, Dawn L.)	-	-
Kiyan, Hideo (Held in common with Kiyan, Hiro)	30.00	0.01518
Kiyan, Hiro (See Kiyan, Hideo)	-	-
Knight, Kathryn M. (Successor to William Knight)	227.88	0.11530
Knight, William (Transferred to Kathryn M. Knight)	0	0

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
Lakin, Kelly R. (See Covell, et al)	-	-
Lakin, Kendall R. (See Covell, et al)	-	-
Landeros, John	0.75	0.00038
La Grande Source Water Company (Transferred to Suburban Water Systems)	0	0
Lang, Frank (Transferred to San Dimas-La Verne Recreational Facilities Authority)	0	0
La Puente Cooperative Water Company (Transferred to Suburban Water Systems)	0	0
La Puente Valley County Water District (Successor to El Encanto Properties)	1,097.00 33.40 1,130.40	0.55507 0.01690 0.57197
La Verne, City of (Successor to Fruit Street Water Co.)	250.00 105.71 355.71	0.12650 0.05349 0.17999
Lee, Paul M. and Ruth A.; Nasmyth, Virrginia; Nasmyth, John	0	0
Little John Dairy	0	0
Livingston-Graham, Inc.	1,824.40	0.92312
Los Flores Mutual Water Company (Transferred to City of Monterey Park)	0	0
Loucks, David	3.00	0.00152
Manning Bros. Rock & Sand Co. (Transferred to Conrock Company)	0	0
Maple Water Company	118.50	0.05996
Martinez, Frances Mercy (Held in common with Martinez, Jaime)	0.75	0.00038
Martinez, Jaime (See Martinez, Frances Mercy)	-	-
Massey-Ferguson Company	0	0

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
	312.51	0.15813
Mission Gardens Mutual Water Company (Transferred to Gifford, Brooks, Jr.)	0	0
Modern Accent Corporation (Successor to Crocker National Bank, Executor of the Estate of A. V. Handorf) (Transferred to California Domestic Water Co.)	0	0
Monterey Park, City of	6,677.48	3.37870
(Successor to Los Flores Mutual Water Co.)	26.60	0.01346
	6,704.08	3.39216
Murphy Ranch Mutual Water Company (Transferred to Southwest Suburban Water)	0	0
Namimatsu Farms (Transferred to California Cities Water Company)	0	0
Nick Tomovich & Sons	0.02	0.00001
No. 17 Walnut Place Mutual Water Co. (Transferred to San Gabriel Valley Water Company)	0	0
Orange Production Credit Association	0	0
Owl Rock Products Co.	715.60	0.36208
Pacific Rock & Gravel Co. (Transferred to: City of Whittier Rose Hills Memorial Park Association)	0	0
Park Water Company (Transferred to Valley County Water District)	0	0
Penn, Margaret (See Polopolus, et al)	-	-
Pico County Water District	0.75	0.00038
Polopolus, John (See Polopolus, et al)	-	-

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
Polopolus, et al (Successor to Polopolus, Steve) (Held in common with Chronis, Christine; Jerris, Helen; Penn, Margaret; Polopolus, John)	22.50	0.01138
Polopolus, Steve (Transferred to Polopolus, et al)	-	-
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	192.60	0.09745
Rincon Ditch Company	628.00	0.31776
Rincon Irrigation Company	314.00	0.15888
Rittenhouse, Catherine (Transferred to Covell, Ralph)	0	0
Rittenhouse, James (Transferred to Covell, Ralph)	0	0
Rose Hills Memorial Park Association	594.00	0.30055
(Successor to Pacific Rock & Gravel Co.)	200.00	0.10120
	794.00	0.40175
Rosemead Development, Ltd. (Successor to Thompson, Earl W.)	1.00	0.00051
Rurban Homes Mutual Water Company	217.76	0.11018
Ruth, Roy	0.75	0.00038
San Dimas-La Verne Recreational Facilities Authority (Successor to Lang, Frank) (Transferred to Kirklen, Dawn L. and William R.)	0	0
San Gabriel Country Club	286.10	0.14476
San Gabriel County Water District	4,250.00	2.15044

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
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 Walnut Place Mutual Water Co.)	21.50	0.01088
	19,547.50	9.89074
Sawpit Farms, Limited		
(Transferred to:		
Eckis, Rollin		
Doyle and Madruga)	0	0
Schneiderman, Alan		
(See Birenbaum, Max)	-	-
Schneiderman, Lydia		
(See Birenbaum, Max)	-	-
Security Pacific National Bank, Co-Trustee for the Estate of Winston F. Stoody		
(See Stoody, Virginia A.)		
(Transferred to City of Whittier)	0	0
Sierra Madre, City of	0	0
Sloan Ranches	129.60	0.06558
Smith, Charles	0	0
Snyder, Harry		
(See Covell, et al)	-	-
Sonoco Products Company	311.60	0.15766
South Covina Water Service	992.30	0.50209
Southern California Edison Company	155.25	0.07855
(Successor to: Associated		
Southern Investment Company)	16.50	0.00835
	171.75	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 %
Southwestern Portland Cement Company (Successor to Azusa Western, Inc.)	742.00	0.37544
Speedway 605, Inc.	0	0
Standard Oil Company of California	2.00	0.00101
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	469.60	0.23761
Cal Fin	118.10	0.05976
Murphy Ranch Mutual Water Co.	223.23	0.11295
	24,860.19	12.57888
Sully-Miller Contracting Company (Successor to Blue Diamond Concrete Materials Division, The Flintkote Co.)	1,399.33	0.70804
Sunny Slope Water Company	2,228.72	1.12770
Taylor Herb Garden (Transferred to Covina Irrigating Company)	0	0
Texaco, Inc.	50.00	0.02530
Thompson, Earl W. (Held in common with Thompson, Mary) (Transferred to Rosemead Development, Ltd.)	0	0
Thompson, Mary (See Thompson, Earl W.)	-	-
Tyler Nursery	3.21	0.00162
United Concrete Pipe Corporation (See U. S. Pipe & Foundry Company)	-	-

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
U. S. Pipe & Foundry Company (Formerly United Concrete Pipe Corporation)	376.00	0.19025
Valencia Heights Water Company	861.00	0.43565
Valencia Valley Water Company (Transferred to Suburban Water Systems)	0	0
Vallecito Water Company (Transferred to San Gabriel Valley Water Company)	0	0
Valley County Water District (Formerly Baldwin Park County Water District)	5,775.00	2.92206
(Successor to Park Water Company)	184.01	0.09311
	5,959.01	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 (Formerly Via, H.)	46.20	0.02338
Victoria Mutual Water Company (Transferred to Suburban Water Systems)	0	0
Wade, R. (Transferred to Lloyd F. Hunter)	0	0
Ward Duck Company	1,217.40	0.61599
Warren, Clyde (See Fisher, Russell)	-	-
W. E. Hall Company	0.20	0.00010
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

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
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)	6.00	0.00304
	8,271.38	4.18519
Wigodsky, Bernard (See Birenbaum, Max)	-	-
Wigodsky, Estera (See Birenbaum, Max)	-	-
Wilmott, Erma M. (Formerly Comby, Erma M.)	0.75	0.00038
Wilson, Harold R. (See Grizzle, Lissa B.)	-	-
Wilson, Sarah C. (See Grizzle, Lissa B.)	-	-
Woodland, Frederick G.	-	-
Woodland, Richard (Successor to: Bahnsen and Beckman Ind., Inc.)	840.50	0.42528
Totals for Exhibit "D"	**155,800.68**	**78.83276**
	41 833.75	21.16724
Totals from Exhibit "E"	~~38,826.25~~	~~19.54431~~
GRAND TOTALS	**197,634.43**	**100.00000**

TABLE
SHOWING PRODUCTION RIGHTS
OF EACH
INTEGRATED PRODUCER
AS OF JUNE 1988

Party	Diversion Component Acre-feet	Prescriptive Pumping Component Acre-feet	Pumping Component Share Percent (%)
Azusa Agricultural Water Company	1,000.00	1,732.20	0.87647
Azusa Foot-Hill Citrus Water Company (Transfered to Monrovia Nursery Company)	0	0	0
Azusa Valley Water Company	2,422.00	8,274.00	4.18652
California-American Water Company (Duarte System)	1,672.00	3,649.00	1.84634
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, and		300.00	0.15179
Taylor Herb Garden)		6.00	0.00304
	2,514.00	6,180.00	3.12698
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, and	18.34		
Glendora Unified High School District)		9.00	0.05009
	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)		-151.50	-0.07666
	0	0	0

Party	Diversion Componet Acre-feet	Prescriptive Pumping Component Acre-feet	Pumping Component Share %
Maechtlen, Estate of J. J.	1.49	0	0
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)	-0.50	-50.50	-0.02555
	0	0	0
The Metropolitan Water District of Southern California	9.59	165.00	0.08349
Monrovia, City of	1,098.00	5,042.22	2.55129
(Sucessor to:			
Eckis, Rollin		123.00	0.06224
City of Arcadia)		951.00	0.48119
	1,098.00	6,116.22	3.09472
Monrovia, Nursery Company	239.50	0	0
(Successor to:			
Azusa Foot-Hill Citrus Co.)	718.50	0	
Phillips, Alice B., et al			
(Successor to:			
Maechtlen, Trust of P. A.)	0.50	50.50	0.02530
(Transferred to:			
Miller Brewing Company)		-50.00	-0.02530
	0.50	0.50	0.00025
Southern California Water Company (San Dimas Dist.)	500.00	3,242.53	1.64076
(Formerly California Cities Water Company)			
(Successor to:			
Namimatsu Farms)		196.00	0.09917
	500.00	3,438.53	1.73984
TOTAL for Exhibit "E"	10,520.92	41,833.75	21.16724

Exhibit "F"

TABLE SHOWING
SPECIAL CATAGORY RIGHTS

PARTY	Nature of Right
The Metropolitan Water District of Southern California	Morris Reservoir Storage and Withdrawal (a) 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 incidential 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.

TABLE SHOWING
NON-CONSUMPTIVE USERS

Party	Nature of Right
Covina Irrigating Company Azusa Valley Water Company Azusa Agricultural Water Co. Azusa Foot-Hill Citrus Co. Monrovia Nursery Company	"Committee-of-Nine" Spreading Right 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)	Spreading Right 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	Spreading Right 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	Spreading Right 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	Spreading Right 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	Temporary storage of storm flow for regulatory purposes; Spreading and conservation for general benefit in streambeds, reservoirs and spreading grounds without the right to recapture said water. Maintenance and operation of dams and other flood control works.

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. <u>Operating Safe Yield and Spreading.</u> 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

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

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.

"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.

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

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

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.

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

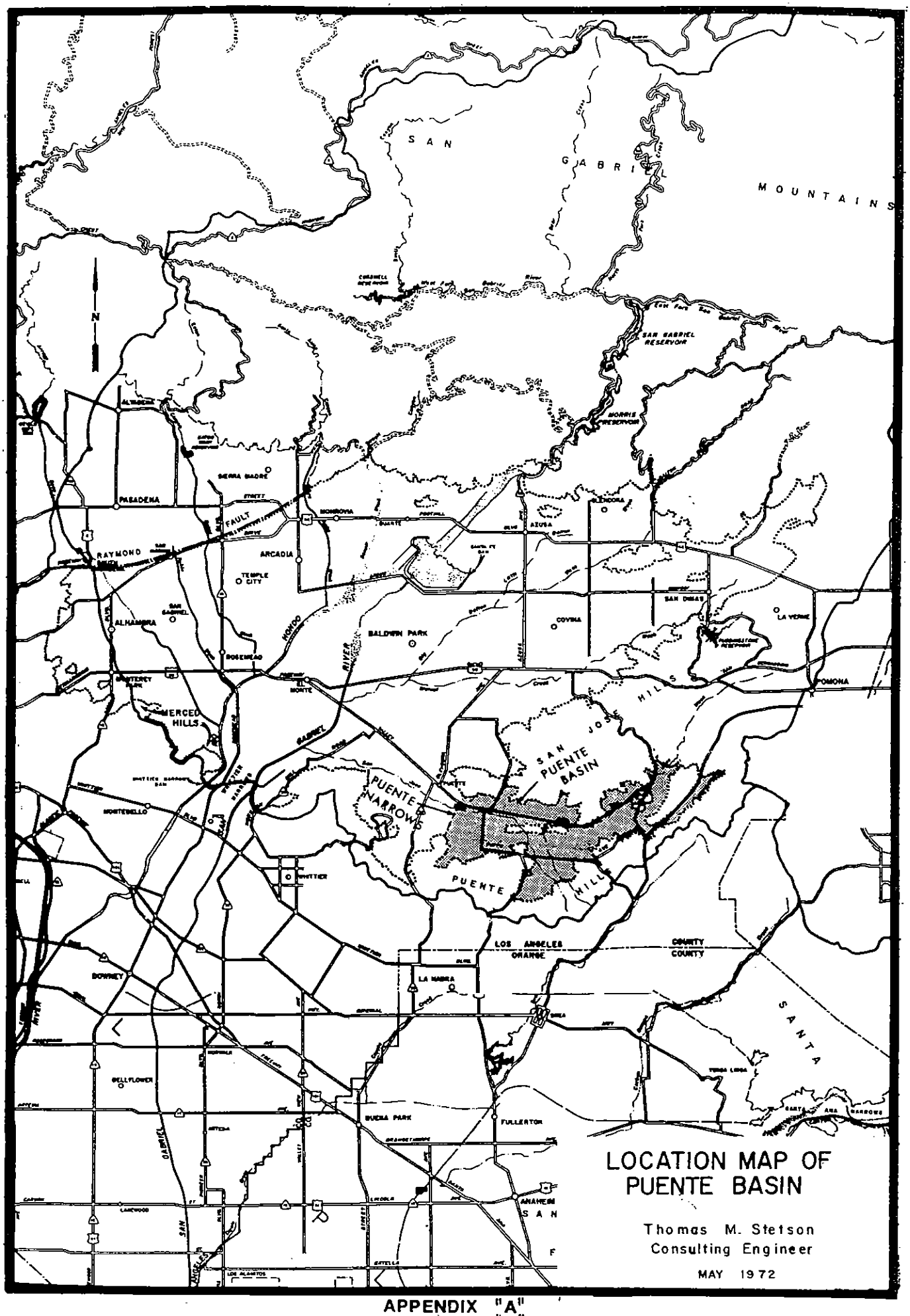
By _____
J. P. BOURDET
Vice President

Approved as to form:

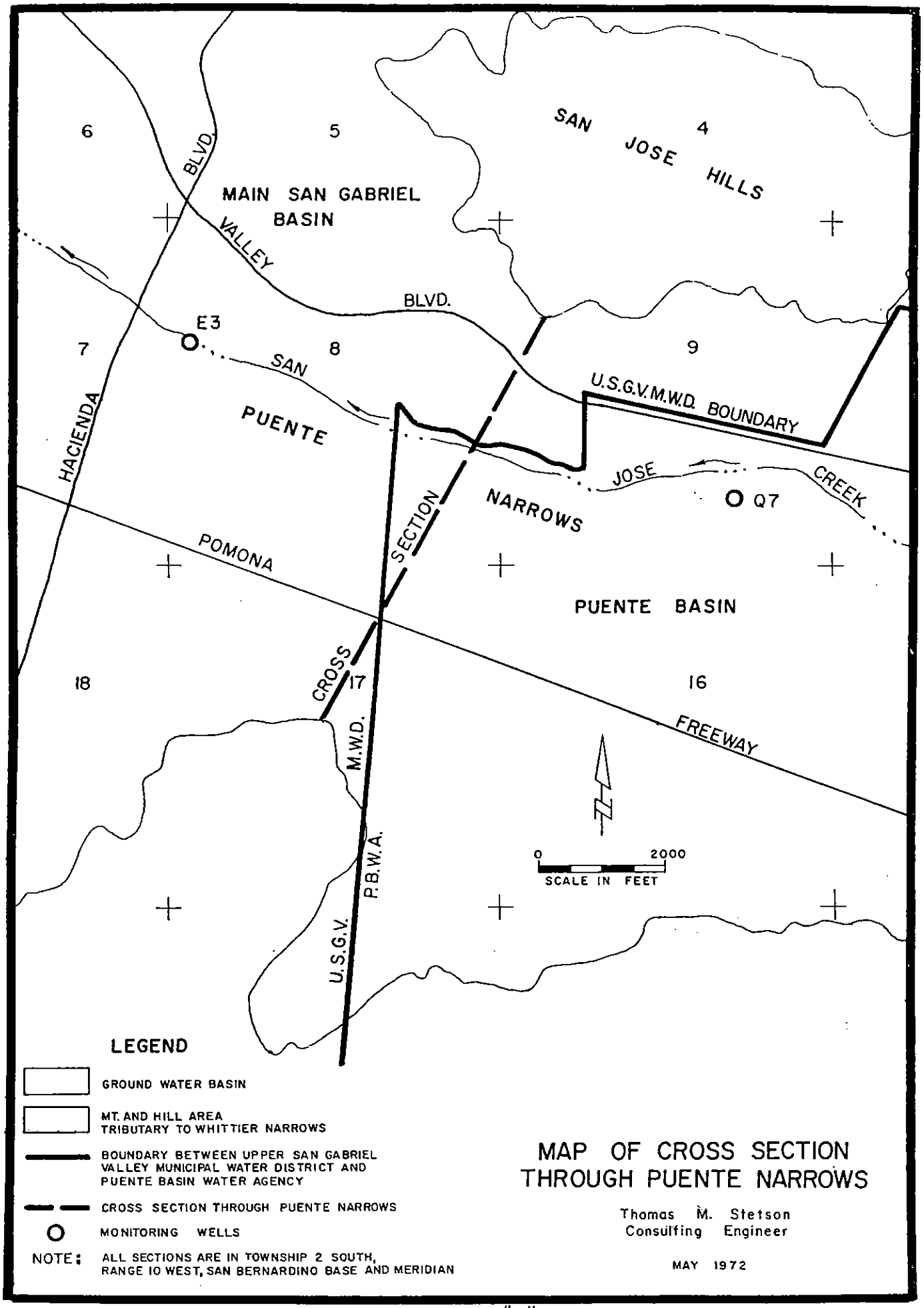
_____
Attorneys for Rowland District

ROWLAND AREA COUNTY WATER
DISTRICT

By _____
President
Wm. A. Simmons



APPENDIX "A"
EXHIBIT "J"



APPENDIX "B"
EXHIBIT "J"

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.

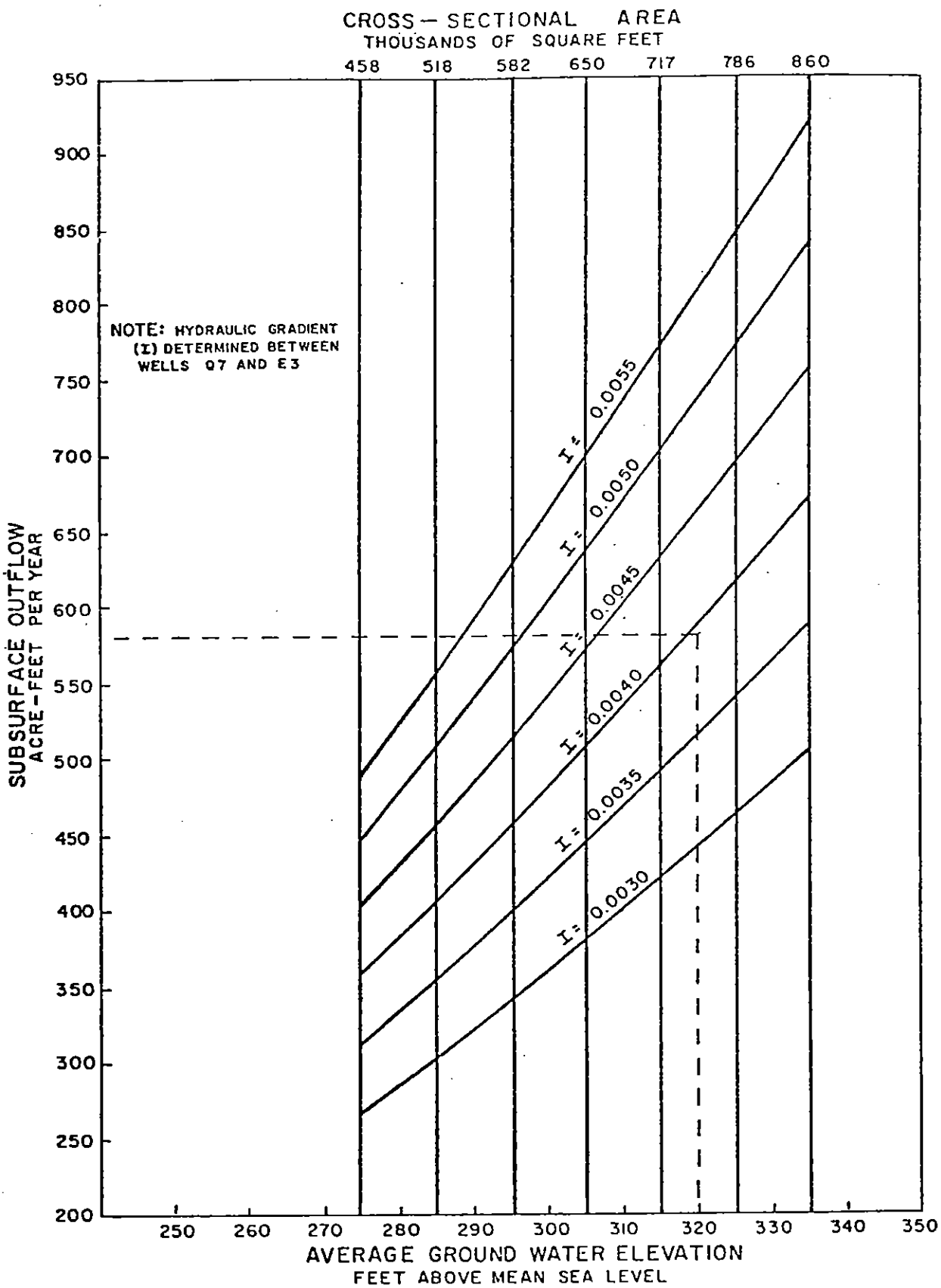
2. Measurement. Each monitoring well shall be measured and the ground water elevation determined semi-annually on or about April 1 and October 1 of each year. Prior to each measurement, the pump shall be turned off for a sufficient period to insure that the water table has recovered to a static or near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

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.



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

LIST OF PRODUCERS AND THEIR DESIGNEES
June, 1989

Producer Name	Designee
A	
Adams Ranch Mutual Water Company	Goji Iwakiri
Alhambra, City of	T. E. Shollenberger
Amarillo Mutual Water Company	Ester Guadagnolo
Anderson, Ray	Ray Anderson
Andrade, Macario, et al.	Macario R. Andrade
Arcadia, City of	Eldon Davidson
AZ-Two, Inc.	R. S. Chamberlain
Azusa, City of	William H. Redcay
Azusa Ag. Water Company	Robert E. Talley
Azusa Valley Water Company	Edward Heck
B	
Baldwin Park County Water District (See Valley County Water District)	-
Banks, Gale C.	Gale C. Banks
Base Line Water Company	Everett W. Hughes, Jr.
Beverly Acres Mutual Water User's Assn. (Formerly Beverly Acres Mutual Water Co.)	Eloise A. Moore
Burbank Development Company	Darrell A. Wright
C	
Cadway, Inc.	P. Geoffrey Nunn
California-American Water Company (San Marino System)	Andrew A. Krueger
California-American Water Company (Duarte System)	Andrew A. Krueger
California Country Club	Henri F. Pellissier
California Domestic Water Company	P. Geoffrey Nunn
Cedar Avenue Mutual Water Company	Austin L. Knapp

Producer Name	Designee
Champion Mutual Water Company	Margaret Bauwens
Chevron, USA, Inc.	Ms. Margo Bart
Clayton Manufacturing Company	Don Jones
Conrock Company	Gene R.Block
Corcoran Brothers	Ray Corcoran
County Sanitation District No. 18	Charles W. Curry
Covell, et al.	Darr Jobe
Covell, Ralph	Ralph Covell
Covina, City of	Wayne B. Dowdey
Covina Irrigating Company	William R. Temple
Crevolin, A. J.	A. J. Crevolin
Crown City Plating Company	N. G. Gardner
D	
Davidson Optronics, Inc.	James McBride
Dawes, Mary Kay	Mary Kay Dawes
Del Rio Mutual Water Company	Gonzalo Galindo
Driftwood Dairy	James E. Dolan
Dunning, George	George Dunning
E	
East Pasadena Water Company	Robert D. Mraz
El Monte, City of	Robert J. Pinniger
El Monte Cemetery Association	Linn E. Magoffin
F	
Faix, Ltd.	Henri F. Pellissier
G	
Glendora, City of	Arthur E. Cook
Green, Walter	Dr. Walter Green
H	
Hansen, Alice	Alice Hansen

Producer Name	Designee
Hartley, David	David Hartley
Hemlock Mutual Water Company	Bud Selander
Hunter, Lloyd F.	Lloyd F. Hunter
I	
Industry Waterworks System, City of	Mary L. Jaureguy
K	
Kiyan Farm Kiyan, Hideo	Mrs. Hideo Kiyan
Kirklen Family Trust	Dawn Kirklen
Knight, Kathryn M.	William J. Knight
L	
Landeros, John	John Landeros
La Puente Valley County Water District	Mary L. Jaureguy
La Verne, City of	N. Kathleen Hamm
Livingston-Graham	Gary O. Tompkins
Los Angeles, County of	Robert L. Larson
Loucks, David	David Loucks
M	
Maddock, A. G.	Ranney Draper, Esq.
Maechtlen, Trust of J. J.	Jack F. Maechtlen
Maple Water Company, Inc.	Charles King
Martinez, Francis Mercy	Francis Mercy Martinez
Metropolitan Water District of Southern California	Fred Vendig, Esq.
Miller Brewing Company	Dennis B. Puffer
Mnoian, Paul, et al.	Mal Gatherer
Monrovia, City of	Robert K. Sandwick
Monrovia Nursery	Miles R. Rosedale
Monterey Park, City of	Nels Palm

Producer Name	Designee
N	
Nick Tomovich & Sons	Nick Tomovich
O	
Owl Rock Products Company	Peter L. Chiu
P	
Phillips, Alice B., et al.	Jack F. Maechtlen
Pico County Water District	Robert P. Fuller
Polopolus, et al.	Christine Chronis
R	
Rados Brothers	Alexander S. Rados
Richwood Mutual Water Company	Bonnie Pool
Rincon Ditch Company	K. E. Nungesser
Rincon Irrigation Company	K. E. Nungesser
Rose Hills Memorial Park Association	Allan D. Smith
Rosemead Development, Ltd.	John W. Lloyd
Rurban Homes Mutual Water Company	George W. Bucey
Ruth, Roy	Roy Ruth
S	
San Dimas - La Verne Recreational Facilities Authority	R. F. Griszka
San Gabriel Country Club	Fran Wolfe
San Gabriel County Water District	Philip G. Crocker
San Gabriel Valley Municipal Water District	Bob Stallings
San Gabriel Valley Water Company	Robert H. Nicholson, Jr.
Sloan Ranches	Larry R. Sloan
Sonoco Products Company	Elaine Corboy
South Covina Water Service	Anton C. Garnier
Southern California Edison Company	S. R. Shermoen

Producer Name	Designee
Southern California Water Company -San Dimas District	J. F. Young
Southern California Water Company -San Gabriel Valley District	J. F. Young
South Pasadena, City of	John Bernardi
Southwestern Portland Cement Company	Dale W. Heineck
Standard Oil Company of California	John A. Wild
Sterling Mutual Water Company	Bennie L. Prowett
Suburban Water Systems	Anton C. Garnier
Sully-Miller Contracting Company	R. R. Munro
Sunny Slope Water Company	Michael J. Hart
T	
Taylor Herb Garden	Paul S. Taylor
Texaco, Inc.	E. O. Wakefield
Tyler Nursery	James K. Mitsumori, Esq.
U	
United Concrete Pipe Corporation	Doyle H. Wadley
United Rock Products Corporation	William S. Capps, Esq.
V	
Valencia Heights Water Company	Herman Weskamp
Valley County Water District (Formerly Baldwin Park County Water District)	Stanley D. Yarbrough
Valley View Mutual Water Company	Robert T. Navarre
Via, H., Trust of	Marverna Parton
W	
Ward Duck Company	Richard J. Woodland
W. E. Hall Company	Thomas S. Bunn, Jr., Esq.
White, June G., Trustee	June G. Lovelady
Whittier, City of	Neil Hudson
Wilmott, Erma M.	Erma M. Wilmott

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 Secrretary-Assistant Treasurer
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1979

LINN E. MAGOFFIN (Producer Member), Chairman

D. J. LAUGHLIN (Producer Member), Vice Chairman

R. H. NICHOLSON, JR. (Producer Member), Secretary

CONRAD T. REIBOLD (Public Member), Treasurer

WALKER HANNON (Producer Member)

BURTON E. JONES (Public Member)

L. E. MOELLER (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 1980

LINN E. MAGOFFIN (Producer Member), Chairman

R. H. NICHOLSON, JR. (Producer Member), Vice Chairman

WILLIAM M. WHITESIDE (Pulic 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 Secrretary-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 R. WITTIG (Public Member)

STAFF

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

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 R. 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 (Producr Member)

DONALD F. CLARK (Public Member)

ANTON C. GARNIER (Producer Member)

L. E. MOELLER (Producer Member)

ALFRED R. WITTIG (Public Member)

STAFF

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

FOR CALENDAR YEAR 1986

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DONALD F. CLARK (Public Member)

L. E. MOELLER (Producer Member)

REGINOLD A. STONE (Producer Member)

ALFRED R. 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 R. 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 R. WITTIG (Public Member), Treasurer

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ALFRED R. 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. SCHOLLENBERGER (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.

APPENDIX I

MAIN SAN GABRIEL BASIN WATERMASTER RULES AND REGULATIONS

MainSanGabrielBasin
WATERMASTER

Rules and Regulations

Upper San Gabriel Valley Municipal Water District v. City of Alhambra, et al.
Case No. 924128 -- Superior Court of Los Angeles County

As amended December 7, 2005 and June 6, 2007
Resolutions 12-05-201 and 6-07-213

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RULES AND REGULATIONS OF
MAIN SAN GABRIEL BASIN WATERMASTER

(As Revised, Amended, and Readopted by Resolution No.12-05-201, adopted December 7, 2005, and Resolution No. 6-07-213, adopted June 6, 2007.)

The definitions set forth in the Judgment in Los Angeles County Superior Court Civil Action No. 924128, entitled, "Upper San Gabriel Valley Municipal Water District v. City Alhambra. et al," as amended (Judgment herein), as well as additional definitions relating specifically to Section 28 of these Rules and Regulations, are used herein with the same meanings and are listed in Appendix "A" hereof.

1. Offices and Records. Watermaster's records shall be maintained at its offices, currently located at:

725 North Azusa Avenue
Azusa, California 91702
Telephone (626) 815-1300
Fax (626) 815-1303

Said records shall be available for inspection by any Party during regular business hours. Copies of said records may be had upon payment of the costs of the duplication thereof and of any preparation costs pertaining thereto.

2. Watermaster Meetings and Holidays. Regular meetings of Watermaster shall be held at 3:00 p.m. on the first Wednesday of each and every month in the conference room of the City of Azusa Light and Water Administration Facility, 729 North Azusa Avenue, Azusa, California 91072, or at such time and place as otherwise determined by Watermaster.

(a) Holidays. The following holidays shall be observed by Watermaster:

- January 1 (New Year's Day);

- The third Monday in January (Martin Luther King's Birthday);

- The third Monday in February (Presidents' Day);

- The last Monday in May (Memorial Day);

- July 4 (Independence Day);

- The first Monday in September (Labor Day);

- The second Monday in October (Columbus Day);

- November 11 (Veterans' Day);

-The fourth Thursday and the following Friday in November (Thanksgiving);

- December 25 (Christmas Day);

- Each employee's individual birthday, to be taken as a holiday during the month of such birthday as approved by the Executive Officer; and one floating holiday each year, to be designated by the Executive Officer.

(1) If January 1, July 4, November 11, or December 25 falls on a Sunday, the Monday following shall be that holiday and if any of said dates fall on a Saturday, the preceding Friday shall be that holiday.

(2) When any regular meeting of Watermaster shall fall on a hereinabove designated Watermaster holiday (excepting employees' birthdays and said floating holiday), said regular meeting shall be held on the next succeeding regular business day at the same time and at the same place as the said regularly scheduled meeting, unless otherwise determined by Watermaster.

(b) Meeting Changes. Any changes in the time or place of said regular meeting shall be in compliance with the Judgment.

(c) Special Meetings. Special meetings of Watermaster may be called at any time by the Chairman or Vice-Chairman or by any three (3) members of Watermaster, by written notice in compliance with the Judgment. The calling notice shall specify the time and place of the special meeting and the business to be transacted. No other business shall be considered at such meetings.

(d) Adjournment. Any meeting of Watermaster may be adjourned to a time and place specified in the Order of Adjournment. Less than a quorum of Watermaster, Watermaster's Secretary, or the Executive Officer may so adjourn from time to time. A copy of the Order or Notice of Adjournment shall be conspicuously posted on or near the door of the place where the meeting was held or to be held, within twenty-four (24) hours after the adoption of the Order of Adjournment.

3. Quorum of Watermaster, Necessary Votes for Action and Roll Call of Votes. Five (5) members of Watermaster shall constitute a quorum for the transaction of its affairs. Action by the affirmative vote of five (5) members shall constitute action by the Watermaster, except that the affirmative vote of six (6) members shall be required: (a) to enter into any Cyclic Storage Agreement; or (b) to approve the purchase, spreading or injection of Supplemental Water for Ground Water recharge.

Any member of Watermaster may request a roll call vote on any question or motion considered and the ayes and noes thereon shall be recorded in the minutes of the meeting.

4. Agenda of Watermaster Meetings. Any person requesting that a matter be considered by Watermaster for action thereon shall request the same in writing

directed to Watermaster's Executive Officer for inclusion on the Agenda of the next scheduled meeting to be held at least ten (10) days after receipt of said request.

5. Conduct of Meetings -- Roberts' Rules of Order. For the conduct of Watermaster meetings, Roberts' Rules of Order shall be followed and, without consent of Watermaster, the priorities of Watermaster business shall be that stated in the Agenda for a particular meeting.

6. Organization of Watermaster. At its first meeting each year, Watermaster shall elect a Chairman and Vice Chairman from its membership. It shall also select a Secretary and a Treasurer and may select such assistants as may be appropriate, any of whom may, but need not be, members of Watermaster.

7. Minutes. Minutes of all Watermaster meetings shall be kept, which shall reflect all actions taken. Draft copies thereof shall be furnished to any Party who files a request therefor in writing with Watermaster. Said draft copies of minutes shall constitute notice of any Watermaster action therein reported and failure of a Party herein to request copies thereof shall constitute his waiver of notice.

8. Designee to Receive Future Notices. Each Party who has not heretofore made a designation of the name and address of the person who shall receive service upon and delivery to Parties of various papers shall file with the Court, with proof of service of a copy thereof upon Watermaster, a written designation of the person to whom and the address at which all future notices, determinations, requests, demands, objections, reports and other papers and processes to be served upon that Party or delivered to the Party are to be so served or delivered.

(a) Substitute Designee. A later substitute designation filed and served in the same manner by any Party shall be effective from the date of filing as to any future notices, determinations, requests, demands, objections, reports and other papers and processes to be served upon or delivered to that Party.

(b) Service upon Designee. Delivery to or service upon any Party by Watermaster, by any other Party, or by the Court, of any item required to be served upon or delivered to a Party under or pursuant to the Judgment herein may be by deposit in the mail, first class, postage prepaid, addressed to the latest Designee of the Party to be served and at the address of said latest designation filed by that Party.

(c) List of Designees. Watermaster shall maintain a current list of Party Designees to receive notices under the Judgment.

9. Election of Producer Representatives.

(a) Notice of Nomination Election. Watermaster shall annually give thirty (30) days notice to all Parties that an election shall be held at Watermaster's regularly scheduled meeting in November of each year, for the purpose of nominating Producer representatives to Watermaster.

(b) Voting. Nominations of six (6) Producer representatives shall be by cumulative voting in person or by proxy, with each Producer entitled to one (1) vote for each one hundred (100) acre-feet, or portion thereof, owned by him, of Base Annual Diversion Right, Prescriptive Pumping Right or Integrated Production Right, as defined in the Judgment. When the names placed in nomination exceed the number of representatives to be elected, votes shall be cast by ballot using official ballot forms provided by Watermaster. Each ballot form must list the Producer and Designee or proxy holder casting the vote, the Producer's voting entitlement, the names of the nominees for whom the votes have been cast, and the number of votes cast for each nominee.

(c) Conduct of Elections. Prior to the nomination of Producer representatives, the Chairman shall appoint tellers to conduct the election. Such tellers may include any member of Watermaster staff to monitor the canvassing

and counting of votes. The tellers shall distribute the ballots, and, at the conclusion of the balloting, collect the ballots, retire to tabulate the votes, and promptly report the results of the election to the Parties present at the election.

(1) In the event there is a challenge to the declared election results, the Chairman shall appoint three (3) Producer Parties as election inspectors who shall recount the election ballots and immediately certify the results of such election to Watermaster and others present at the election.

(2) All ballots shall be considered confidential, and no ballot or information thereon shall be disclosed except to the appointed tellers and election inspectors, without the express permission of the Producer casting the ballot.

10. Vacancy on Watermaster and Replacement. In the event of a vacancy on Watermaster, a successor shall be nominated at a special meeting of Watermaster and Producers to be called by Watermaster within ninety (90) days in the case of a Producer representative or by the action of the appropriate District Board of Directors in the case of a Public Representative. Subject to approval and appointment by the Court, such successor Watermaster shall fill the unexpired term of the Watermaster member replaced.

11. Watermaster Action Subject to Court Review. Any action, decision, rule or procedure of Watermaster shall be subject to review by the Court on its own motion or on timely petition or motion for an Order to Show Cause by any Party, as follows:

(a) Effective Date of Watermaster Action. Any order, decision or action of Watermaster shall be deemed to have occurred on the date that written notice thereof is mailed. Mailing of draft copies of Watermaster minutes which contain such order, decision, action, or contemplated action, to the Parties

requesting the same shall constitute such notice to all Parties, as of the date of such mailing.

(b) Notice of Motion. Any Party may, by a regularly noticed motion, petition the Court for a review of any Watermaster action or decision. Notice of such motion shall be mailed to Watermaster and to the Designees of all Parties. Unless ordered by the Court, such petition shall not operate to stay the effect of such Watermaster action.

(c) Time for Motion. Within thirty (30) days of mailing of Notice of Watermaster Determination of Operating Safe Yield together with a statement of each Producer's entitlement thereunder, any affected Party may, by a regularly noticed motion, Petition the Court for an Order to Show Cause for review of said Watermaster findings, determination or entitlement and thereupon the Court shall hear Objections thereto and settle such dispute.

Notice of motion to review any other Watermaster action or decision shall be served and filed within ninety (90) days after such Watermaster action or decision.

(d) *De Novo* Nature of Proceedings. Upon filing of such motion for hearing, the Court shall notify the Parties of the date for taking evidence and argument, and shall review *de novo* the question at issue on the date designated. The Watermaster decision or action shall have no evidentiary weight in such proceedings.

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

12. Water Measuring Devices and Meter Test Program. Parties producing in excess of five (5) acre-feet per year shall, pursuant to these uniform rules, install and

maintain in good operating condition, at the cost of each such Party, such necessary water measuring devices or meters as may be appropriate. Any such measuring device is subject to such inspection and testing as Watermaster may, from time to time, deem necessary. Upon testing, the meters shall be sealed by Watermaster and remain so sealed. Watermaster will conduct a formal meter-testing program to help the Parties accurately report their Production. Watermaster intends to test every meter under its jurisdiction at least once every two (2) years.

(a) Tests of Meters Which Supply Watermaster. At least once every two (2) years, Watermaster shall request certified meter tests of all meters of Responsible Agencies through which Supplemental Water is furnished to Watermaster and of the meters which measure all Cyclic Storage deliveries authorized by Watermaster.

(b) Wells. Water wells shall be equipped with a positive displacement, velocity impeller, venturi, orifice-type or electromagnetic flow meter with a totalizer. The totalizer on positive displacement, velocity impeller, venturi and orifice-type meters shall be correctable only by changing mechanical gear equipment. Producers using electromagnetic flow meters shall ensure that electronic access to meter data is user-defined and password-protected to prevent unauthorized resetting of the totalizer. Additionally, all wells equipped with electromagnetic flow meters shall also have a run-hour meter installed to provide verification of production in the event the totalizer is inappropriately or accidentally reset or its accuracy is otherwise disputed. The meter shall be accessible and installed according to good design practices. Watermaster personnel shall assist any Party having any question as to installation requirements.

(c) Calibrated Test Equipment. Watermaster or its approved meter tester will maintain a complete line of carefully calibrated test equipment. This equipment is the standard with which all water meters must be compared. The tolerance for each meter is plus (+) or minus (-) five percent (5%) of the standard. Watermaster may require any Producer with multiple wells and meters to maintain an aggregate accuracy of plus (+) or minus (-) two percent (2%).

(d) Repair or Replacement of Inaccurate Meters. Defective or inaccurate meters must be repaired within thirty (30) days of receipt of notice thereof from Watermaster.

(e) Surface Diversions. Surface Water Diversions shall be measured with a weir and recorder or meter capable of accurately measuring and recording such Diversions.

(f) Interim Meter Tests. Should a Producer discover that the meter which measures the water Production from his well is measuring inaccurately, he shall first notify Watermaster thereof, have the meter retested and, if measuring inaccurately, then have the same repaired at the earliest practical and reasonable time. Upon the completion of such repair, such Producer shall immediately have such meter tested and sealed by Watermaster and it shall remain so sealed. Such testing and sealing will be accomplished by Watermaster upon request therefor by said Producer or said repaired meter may be tested and sealed by any meter tester authorized by Watermaster, as provided in Subsection (g) of this Section 12. Results of such meter tests shall be furnished to Watermaster within ten (10) days of testing, on forms provided by Watermaster.

(g) Watermaster Approved Meter Testers. Persons, firms or corporations in the business of repairing and/or testing water measuring devices

may be approved by Watermaster to test and seal meters on behalf of Watermaster by submitting their qualifications therefor to Watermaster and obtaining Watermaster's approval to perform meter tests and seal such meters as agents of Watermaster. The name, address and telephone number of all such Watermaster approved meter testers shall be maintained at and be available from the office of Watermaster.

(h) Meter Seal by Watermaster and Notification of Meter Maintenance. At the completion of all meter tests Watermaster's seal shall be placed on the meter, if the meter test demonstrates that the meter is within the accuracy standard of five percent (5%).

Such sealing then requires that Watermaster be notified in writing within seven (7) days if Watermaster's seal has been broken or if any of the following events occur: (a) the meter is to be repaired or recalibrated; (b) there is any other interference affecting the meter or Watermaster's seal; (c) the meter is to be relocated even if Watermaster's seal is still intact; or (d) a new meter is to be installed.

(i) Estimation of Production Due to Meter Maintenance. When a Producer must estimate Production due to meter maintenance, he shall consult with Watermaster or its engineer for approval of the method of estimation. A copy of the estimate calculations shall be supplied to Watermaster with the corresponding Quarterly Production Report.

13. Reports of Producers to Watermaster. Each Producer with an adjudicated right in excess of five (5) acre-feet per year and each Producer with an Overlying Right in any amount shall file with Watermaster a quarterly report of water Produced from the Basin or Relevant Watershed, on forms provided by Watermaster. Producers using electromagnetic flow meters shall report run hours in addition to

totalizer readings. Quarterly Production Reports shall be so filed no later than the last day of the month next succeeding the end of the relevant quarter, i.e. April 30, July 31, October 31 and January 31.

(a) Adjudicated Right in Excess of Five (5) Acre-Feet Not to be Reduced to Minimal Producer by Transfer. Any portion of: (1) the Base Annual Diversion Right of a Diverter; (2) the Prescriptive Pumping Right of a Pumper; or (3) the Diversion Component and Prescriptive Pumping Component of an Integrated Producer, adjudicated in any amount in excess of five (5) acre-feet per year [at the time that Judgment herein was entered, January 4, 1973], that is or may be reduced to five (5) acre-feet or less by assignment or transfer of rights, as permitted by Section 55 of the Judgment, shall not enjoy the status of a Minimal Producer as defined in Section 10 (o) of the Judgment.

(b) Notice to Watermaster of Transfers of Water Rights. Within fifteen (15) days thereof all Parties shall notify Watermaster of any transfer, assignment, license or lease of any water right, or portion thereof, not shown in the Judgment or previously filed with Watermaster and such transferee must be or become a Party to the action (as provided in Section 57 of the Judgment). All Parties are required to notify Watermaster of any subsequent assignment, transfer, license or lease of water rights granted or acquired by them and they shall file a duly acknowledged copy of the document(s) therefor with Watermaster, within fifteen (15) days after execution and acknowledgement of such document(s).

For such assignment, transfer, license or lease of water rights to be effective for, or be deemed by Watermaster to apply to, Production in a particular Fiscal Year (July 1 - June 30), the document(s) therefor shall be executed and acknowledged prior to the end of said Fiscal Year (June 30) and

copies thereof showing such acknowledgement must be received by Watermaster prior to July 15, following the end of said particular Fiscal Year. The transferee must be, or petition to become, a Party to the action within ninety (90) days following such assignment, transfer, license or lease of water rights.

When the term of a temporary assignment, transfer, license or lease of water rights extends beyond the end of the current Fiscal Year, it shall be the obligation of the transferee thereof to annually, during the month of July of each Fiscal Year during said term, notify Watermaster of said transferee's intention to exercise said water right during the then current applicable Fiscal Year.

(c) Conveyance of Water Right with Conveyance of Property. Parties are advised that when a water right owner conveys the property where a water right was developed, the said water right shall not be conveyed with such property unless and until the appropriate notice procedures established by Watermaster have been complied with. When it is intended to transfer or acquire adjudicated water rights in the Basin or Relevant Watershed, the Parties thereto are advised to use the appropriate forms contained in exhibits to these Rules and Regulations and to notify Watermaster of such transfers by furnishing a copy of such transfer documents(s) within fifteen (15) days of execution and acknowledgement thereof.

(d) Conveyance of Water Right without Conveyance of Property. Parties are also advised that the owner of an adjudicated water right herein (except an Overlying Right) may transfer the same (temporarily or permanently) without conveyance of the property where the water right was developed.

(e) Transfer of Overlying Right. The transfer and use of Overlying Rights shall be limited (as provided in Section 21 of the Judgment) as

exercisable only on specifically defined Overlying Lands and they cannot be separately conveyed or transferred apart therefrom.

(f) Intervention Stipulation Required. No conveyance of water rights to a person who is not a Party to the subject action shall be recognized by Watermaster unless the transferee thereof files with Watermaster a Stipulation in Intervention to the subject action (Exhibit "E") agreeing to be bound by the Judgment herein, and until the Court approves said Stipulation and Intervention.

(g) Notice Required. Any transfer of water rights shall be effective only when the requirements of this Section 13 are met and when the Parties file with Watermaster, within fifteen (15) days of such transfer, a copy of the transfer document(s) which:

(1) Identifies both the transferee(s) and the transferor(s);

(2) Accurately recites the total quantity (in acre-feet) of water rights transferred;

(3) Is executed by both the transferee(s) and the transferor(s);

(4) Is acknowledged by both transferee(s) and transferor(s) in a form sufficient for recordation;

(5) Lists the Designee(s) of both the transferor(s) and transferee(s) to receive future service and notice of papers and process; and

(6) Is accompanied by a map of the service area where the water was used by transferor(s) (assignors) and a map of the service area where the water is intended to be used by the transferee(s) (assignees), if requested by Watermaster.

(h) Approved Forms of Transfer Documents and Other Forms. Approved forms of such transfer documents and other approved Watermaster

forms are attached hereto, marked and identified as follows:

Exhibit "A"	Permanent Transfer of Water Rights--Prescriptive Pumping Right
Exhibit "B"	Permanent Transfer of Water Rights--Base Annual Diversion Right
Exhibit "C"	Permanent Transfer of Water Rights--Integrated Production Right
Exhibit "D"	Temporary Assignment or Lease of Water Right
Exhibit "E"	Stipulation Re Intervention After Judgment
Exhibit "F"	Designee to Receive Future Notices for and on Behalf of Defendant(s)
Exhibit "G"	Notice of Transfer of Overlying Rights With Property to Which They are Appurtenant.
Exhibit "H"	Application To Drill Water Well
Exhibit "I"	Application To Modify Existing Water Well
Exhibit "J"	Application To Destroy Water Well
Exhibit "K"	Application For Water Treatment Facility

(i) Presumption as to Unexercised Rights. Unless otherwise noted on the above mentioned transfer documents(s), it will be presumed by Watermaster that the permanent transfer of water rights will include all unexercised rights thereunder, including authorized carry-over of unused rights.

14. Operating Safe Yield. Watermaster shall annually determine the Operating Safe Yield applicable to the succeeding Fiscal Year and estimate the same for the next succeeding four (4) Fiscal Years. Said determination shall be made at the close of the hearing thereon, which shall be commenced at Watermaster's regular meeting in May of each year. Watermaster shall notify each Pumper and Integrated Producer of his

share thereof, stated in acre-feet per Fiscal Year. Thereafter, no Party may produce in any Fiscal Year any Consumptive Use Portion of any Overlying Right, or an amount in excess of the sum of his Diversion Right, if any, plus his Pumper's Share of such Operating Safe Yield, or his Integrated Production Right, or the terms of any Cyclic Storage Agreement, without being subject to Assessment for the purpose of purchasing Replacement Water. The rate of such Assessment shall be established at the same meeting at which the Operating Safe Yield is established, and it may be estimated for the years for which Operating Safe Yield is estimated. In establishing the Operating Safe Yield, the Watermaster shall follow all physical, economic, and other relevant parameters provided in the Judgment herein. Said determination shall be made in accordance with the following:

(a) Preliminary Determination. At Watermaster's regular meeting in April of each year, Watermaster shall make a Preliminary Determination of the Operating Safe Yield of the Basin for each of the succeeding five (5) Fiscal Years. Said determination shall be made in the form of a report containing a summary statement of the considerations, calculations and factors utilized by Watermaster in arriving at the said Operating Safe Yield.

(b) Notice of Hearing. A copy of said Preliminary Determination Report shall be mailed to all Parties at least ten (10) days prior to a hearing thereon to be commenced at Watermaster's regular meeting in May of each year, at which time objections or suggested corrections or modifications of said determination shall be considered.

(c) Watermaster Final Determination and Review Thereof. Within thirty (30) days after completion of said hearing, Watermaster shall mail to each Pumper, Diverter, Overlying User and Integrated Producer a Final Report and Determination of said Operating Safe Yield for each such Fiscal Year, together

with a statement of the Producer's entitlement in each such Fiscal Year stated in acre-feet. Any affected Party, within thirty (30) days of mailing of notice of said Watermaster determination, may petition the Court for an Order to Show Cause for Review of said determination in accordance with Section 11 hereof.

15. Carry-over Rights.

(a) Pumping. Any Pumper's Share of Operating Safe Yield, and the Production right of any Integrated Producer which is not Produced in a given year may be carried over and accumulated for one (1) year.

(b) Diversions. Diverters shall be entitled to Divert for direct use up to two hundred percent (200%) of their Base Annual Diversion Right in any Fiscal Year, provided that the aggregate quantities of water Diverted in any consecutive ten (10) Fiscal Year period shall not exceed ten (10) times such Diverter's Base Annual Diversion Right.

(c) Overlying Rights. By definition, there is no carry-over of Overlying Rights.

(d) Presumption as to Carry-over Rights. The first water Produced in the succeeding Fiscal Year shall be deemed Produced pursuant to such Producer's Carry-over Rights.

16. Special Hearings. Watermaster shall conduct such special hearings as deemed appropriate upon thirty (30) days notice to the Parties hereto.

17. Policy Decisions. No policy decision shall be made by Watermaster until its next regular meeting after the question involved has been raised for discussion at a Watermaster meeting and noted in the draft of minutes thereof.

18. Assessments. Watermaster may levy and collect Assessments from the Producer Parties based upon Production during the preceding Fiscal Year. Said Assessments may be for one or more of the following purposes:

(a) Administration Costs. At its regular May meeting Watermaster shall adopt a proposed budget for the succeeding Fiscal Year and within fifteen (15) days shall mail a copy thereof to each Party, together with a statement of the level of Administration Assessment levied by Watermaster and which will be collected for purposes of raising funds for said budget. Said Assessments shall be uniformly applicable to each acre-foot of Production.

(b) Replacement Water Costs. Replacement Water Assessments shall be collected from each Producer on account of such Party's Production in excess of its Diversion Rights, Pumper's Share or Integrated Production Right, and on account of the consumptive use portion of Overlying Rights, computed at the applicable rates established by Watermaster, consistent with Watermaster's Operating Criteria (Exhibit "H" to the Judgment).

(c) Make-up Obligation. An Assessment shall be levied and collected equally on account of each acre-foot of Production, which does not bear a Replacement Water Assessment hereunder, to pay all necessary costs of administration and satisfaction of the Make-up Obligation. Such Assessment shall not be applicable to water Production of an Overlying Right.

(d) In-Lieu Water Cost. An Assessment may be levied against all Pumping to pay reimbursement for In-Lieu Water Cost except that such Assessments shall not be applicable to the non-consumptive use portion of Overlying Rights.

(e) Waivers Possible for Water Quality Improvement or Protection. In accordance with Section 45 (e) of the Judgment, a Producer of water from the Basin for the purpose of testing, protecting, or improving water quality, may apply in writing by verified petition or application (hereinafter "Application") to Watermaster, for approval of such water Production free of all or any part of

Watermaster Assessments thereon, and for waiver of one or more of the provisions of Sections 25, 26, and 57 of said Judgment, where appropriate, upon terms and conditions to be established by Watermaster after a noticed hearing on such Application.

A waiver of Assessment shall not be granted for the purpose of removal of contamination or improvement of the quality of Basin water which has, or could have, resulted from the activity of the Applicant for such waiver.

In the event cleanup or Treatment Facilities are installed in the Basin by or for the benefit of a Producer, and the Basin water receiving treatment from said Treatment Facilities is subsequently delivered by or used for beneficial purposes of such Producer, the Production of such water shall not be entitled to waiver or modification of Watermaster Assessments thereon.

Notwithstanding the above, if Basin water is treated and immediately percolated or reintroduced to the Basin by way of spreading, injection, or otherwise, for purposes of this Section 18 (e), its Production may, upon Watermaster's approval of an Application to waive or modify its Assessments on the same, be entitled thereto. In any event, such water shall only be percolated or reintroduced to the Basin with the consent of Watermaster and said water shall be of a quality acceptable to Watermaster.

Although all Production from the Basin must be reported to Watermaster on a timely basis in accordance with these Rules and Regulations, Production which is granted a waiver of Assessment hereunder may, by reason of certain circumstances as specifically determined by Watermaster, be deemed an unused right and entitled to carry-over, in accordance with Section 49 of the Judgment.

(f) Application for Waiver of Assessment. An Application for Waiver of Assessment, as above set forth, shall contain all relevant information

relied upon by Applicant which he believes justifies the granting of said Application. All such Applications shall explain the special needs and circumstances for such Production and specify the approximate amounts to be Produced, the time frame of such Production, the specific location(s) of the points(s) of extraction(s), and the place of intended disposal of such water, as well as any supplemental or additional information requested by Watermaster. All such extractions shall be metered and reported quarterly to Watermaster, along with all other Basin Production, in accordance with these Rules and Regulations.

Should an Application contain incomplete information or should Watermaster desire additional, other, or further information in relation thereto, the same shall also be furnished and verified by Applicant.

(g) Hearing and Effective Date. Within thirty (30) days of the filing of any such Watermaster accepted Application, Watermaster shall give at least thirty (30) days notice to the Designees of all Parties that it will hold a hearing on said Application. Watermaster may, after the conclusion of said hearing, under then existing conditions, waive all or any part of its Assessments on such Production, such waiver shall not be effective prior to the date of the filing of said accepted Application, and may also waive the provisions of Sections 25, 26, and 57 of the Judgment herein.

The effective date for the granting of an Application to waive or modify Watermaster Assessments shall be no later than ten (10) days after approval thereof by Watermaster and it shall continue for the period of time specified therein, unless sooner terminated or extended by Watermaster. Nothing herein is intended to allow an increase in any Producer's annual entitlement under the Judgment.

19. Levy, Notice and Adjustment of Assessments. At its regular May meeting Watermaster shall also fix the rate(s) of or levy applicable Administration Assessments, Replacement Water Assessments, Make-up Obligation Assessments, and In-Lieu Water Cost Assessments, if any. Watermaster shall give written notice of all applicable Assessments to each Party on or before August 15 of each year.

(a) Payment. All Watermaster Assessments shall be due and payable on or before September 20, following such Assessment levy or Assessment rate fixing, subject to the rights reserved in Section 37 of the Judgment, and such Assessment shall be paid or become delinquent after September 20.

(b) Delinquency. Any Assessment payment which becomes delinquent shall bear interest at the annual prime interest rate in effect on the first business day of August of each year, plus one percent (1 %). Said prime interest rates shall be that fixed by the Bank of America NT&SA for its preferred borrowing on said date. Said prime interest rate plus one percent (1%) shall be applicable to any said delinquent Assessment payment from the due date thereof until paid, provided, however, in no event shall any said delinquent Assessment bear interest at a rate of less than ten percent (10%) per annum. Such delinquent Assessment and said interest thereon may be collected in a Show Cause proceeding in the subject action or in any other legal proceeding instituted by Watermaster, and in such proceeding the Court may allow Watermaster its reasonable costs of collection, including attorney's fees.

(c) Adjustments. By reason of Watermaster's inability to control the direct costs and other charges incurred for Supplemental Water obtained from Responsible Agencies, it may be necessary from time to time for Watermaster to adjust the foregoing Assessments. Such Assessments may only be adjusted after

giving at least 15 days Notice to all Parties of the meeting at which such adjustments will be considered by Watermaster.

20. Responsibility for Watermaster Assessments. Parties Producing water from the Relevant Watershed shall be responsible for Watermaster Assessments levied upon all Production.

21. Over and/or Under Reporting.

(a) Over Reporting. Watermaster shall make refunds, in whole or in part, of Assessments theretofore paid, to any Producer who has erroneously overstated his Production in any sworn statement for a quarterly period required hereunder and who has overpaid any Assessment for that quarter, but only upon compliance by the Producer with the procedure hereinafter set forth and within the time hereinafter provided.

Any such Producer, within one (1) year of the last day for filing of the said sworn statement for the quarterly period in question, may file a verified application with Watermaster requesting a refund of that portion of any Assessment claimed to have been paid by reason of that Producer's erroneous overstatement of Production. If incomplete information is contained in said application, or if Watermaster desires other, further, or additional information than that set forth in said application, the same shall also be furnished by a verified statement mailed to Watermaster on behalf of Applicant within thirty (30) days of the mailing of the written notice or request therefor from Watermaster to the Producer's Designee, at his address as shown by Watermaster records, or the application shall be deemed abandoned. Such request by Watermaster shall not cause any application otherwise timely filed to be considered as not filed within said one (1) year period. The Watermaster may pay any refund claimed without a hearing thereon, but no application shall be

denied, in whole or in part, without a hearing being accorded to the Applicant, in which said hearing the Applicant shall have the burden of proof. Any determination by Watermaster on any matter in connection with said application shall be final and conclusive upon the said Producer.

Any refund authorized to be paid under the provisions of this Section may be paid only out of moneys realized from the appropriate Watermaster Assessment levied or thereafter raised. Under election of the Producer, any refund determined by Watermaster to be owing may be credited to the Producer against any subsequent Assessments which might become due and owing from him to Watermaster. No refunds shall be made except as authorized by this section and this section may not apply to over reporting unless there has been compliance with the provisions of Section 12 hereof.

(b) Under Reporting. If Watermaster shall have probable cause to believe that the Production of water from any water Producing facility is in excess of that disclosed by the sworn statements covering such water Producing facility, Watermaster may cause an investigation and report to be made concerning the same. Watermaster may fix the amount of water Production from such facility at an amount not to exceed the maximum Production capacity thereof, provided, however, where a Watermaster tested water measuring device is permanently attached to such facility; the record of Production as so disclosed by such measuring device shall be presumed to be accurate and the burden of proof shall be upon Watermaster to establish the contrary.

A determination by Watermaster that a Producer has under reported Production shall require Watermaster to give written notice thereof to such Producer by mailing such notice to his Designee, at the address shown by Watermaster records. A determination of under reporting made by Watermaster

shall be conclusive on any Producer who has Produced water from the facility in question and the Watermaster Assessments based thereon, together with interest as set forth in Section 19 (b) hereof, shall be payable forthwith, unless such Producer shall file with Watermaster within ten (10) days after the mailing of such notice, a written protest setting forth the ground or grounds for protesting the amount of Production so fixed or the Assessments and interest thereon.

Upon the filing of such protest, Watermaster shall hold a hearing at which time the total amount of water Production and the Assessments and interest thereon shall be determined, which action shall be conclusive if based upon substantial evidence. A notice of such hearing shall be mailed to protestant at least ten (10) days before the date fixed for the hearing. Notice of the determination by the Watermaster at the close of such hearing shall be mailed to the protestant. The Producer shall have twenty (20) days from the date of mailing of such notice to pay the Assessments fixed by Watermaster and interest thereon, as fixed herein, before the same becomes delinquent.

(c) Delinquent Assessments; Interest; Costs; and Attorney's Fees. Watermaster may bring suit in the Court having jurisdiction against any Producer of water from the Basin or Relevant Watershed for the collection of any delinquent Assessment and interest thereon. The Court having jurisdiction of the suit may, in addition to any delinquent Assessment, award interest and reasonable costs, including attorney's fees.

22. Information Concerning Offers to Purchase, Sell or Lease Water Rights. Watermaster shall maintain a record of any offer to purchase, sell or lease water rights reported to Watermaster, for the purpose of encouraging the orderly transfer of such rights by acting as a clearing house for such information. Any person desiring to purchase, sell, or lease such rights may examine such Watermaster records.

23. Watermaster Control of Spreading and Ground Water Storage. Except for the exercise of non-consumptive uses, no Party shall spread water within the Basin or Relevant Watershed for subsequent recovery or Watermaster credit without prior Watermaster written permission to do so because Watermaster has sole custody and control of all Ground Water storage rights in the Basin.

(a) Replacement Water and Cyclic Storage Deliveries. Deliveries of water for replenishment or cyclic storage shall be made either pursuant to Watermaster's duly authorized order for Replacement Water or in accordance with terms and conditions of a valid Cyclic Storage Agreement with Watermaster. All such water deliveries shall be subject to the conditions and priorities set forth in Section 26 herein.

(b) Supplemental Water Quality. In an effort to prevent degradation of Basin groundwater quality, and in accordance with Section 40 of the Judgment, Watermaster may establish criteria for the quality of Supplemental Water delivered for Basin replenishment or Cyclic Storage. Such criteria shall consider applicable Basin Plan objectives as set forth by the California Regional Water Quality Control Board - Los Angeles Region, but shall also balance the need to maintain adequate water supplies with the need to preserve Basin water quality.

Watermaster may review and update its Criteria for Supplemental Water Quality as needed to address changes in regulations or hydrologic conditions. Watermaster shall provide the Responsible Agencies with at least 30 days notice of its intent to adopt or modify such criteria, along with the proposed draft or changes, and shall consider comments from those agencies prior to adoption. Watermaster shall also provide the Responsible Agencies with the final, adopted Criteria for Supplemental Water Quality.

24. Watermaster Annual Report. Watermaster shall annually file with the Court and mail to the Parties a report of all Watermaster activities during the preceding Fiscal Year, including an audited statement of all accounts and financial activities of Watermaster, summaries of Diversions and Pumping, and all other pertinent information. To the extent practical, said report shall be mailed to all Parties and filed with the Court on or before November 1 of each Year.

25. Watermaster Stipulation Re Intervention After Judgment. Attached hereto and marked "Exhibit E" is a form of Stipulation for Intervention After Judgment which Watermaster will execute, file with the Court if accompanied by the necessary filing fee, obtain a Court hearing date thereon, give Notice thereof and attempt to obtain an approving Court Order thereon.

26. Uniform Rules and Conditions of Cyclic Storage Agreements.

(a) Application for Cyclic Storage Agreements. Any person or entity, private or public, desiring to spread and store Supplemental Water within the Basin for subsequent recovery and use or for Watermaster credit shall make application to Watermaster for a Cyclic Storage Agreement pursuant to these Uniform Rules and Conditions. Watermaster shall have first call on Supplemental Water for Replacement Water, Make-up Water and for the "Alhambra Exchange" before such water is made available for Cyclic Storage Agreements.

(b) Purpose of Cyclic Storage Agreements. All Cyclic Storage Agreements shall be for the utilization of Ground Water storage capacity of the Basin and for cyclic or regulatory storage of Supplemental Water.

(c) Available Storage Capacity. In considering the available Ground Water storage capacity of the Basin for such Agreements, Watermaster shall

take into account the operation of the Basin under the Physical Solution provisions of the Judgment.

(d) Provisions of Cyclic Storage Agreements. Any such Agreement shall include provisions for:

(1) Watermaster control of all spreading (or injection) and extraction scheduling and procedures for such stored waters:

a) The time, place, and amount of said spreading shall be approved in advance by Watermaster provided, however, that when the water level of the Baldwin Park Key Well is at or above elevation two-hundred fifty (250) feet, spreading activities shall be restricted to the easterly portion of the Basin at water spreading facilities designated in advance by Watermaster, unless otherwise approved by the Court;

(2) Calculations by Watermaster of any special costs, damages or burdens resulting from such operation;

(3) Priorities for Cyclic Storage Agreements in the following order:

a) Responsible Agencies on the basis of their relative requirements for Replacement Water within their respective corporate boundaries,

b) Other Parties on the basis of priority of application to Watermaster for such Agreements, and

c) Non-parties;

(4) Determinations by Watermaster of, and accounting for, all losses in stored water, assuming that such stored water floats on top of the Ground Water supplies, and accounting for all losses of water which

otherwise would have replenished the Basin. Such losses of stored water shall be assigned by Watermaster as follows:

a) First losses by non-parties in the reverse priority of the earliest original dates of their respective Cyclic Storage Agreements, to the whole of such non-parties' stored water,

b) The next losses by Parties who are not Responsible Agencies in reverse priority of the earliest original dates of their respective Cyclic Storage Agreements, to the whole of their stored water, and

c) The last losses by Responsible Agencies to be shared on the basis of water actually in storage in the Basin at the time of the loss of such stored water;

(5) The priorities for spreading of Supplemental Water are hereby established as follows, in the order of their priority:

First: Supplemental .Water ordered by Watermaster from Responsible Agencies for direct delivery to the Basin as Replacement Water,

Second: Supplemental Water for delivery to the Basin for storage under Cyclic Storage Agreements between Watermaster and Responsible Agencies. In the event that more than one Responsible Agency wishes to deliver water to Cyclic Storage simultaneously and there is inadequate spreading capacity available, deliveries by each Responsible Agency so desiring to deliver Supplemental Water shall be scheduled so that the total quantity of water in Cyclic Storage of those Agencies can be

increased proportionately in percent of their maximum allowed Cyclic Storage,

Third: Supplemental Water for delivery to Individual Cyclic Storage accounts of Parties to the Judgment. In the event that more than one Party wishes to deliver water to such Cyclic Storage accounts simultaneously and there is inadequate spreading capacity available, deliveries for each such Party shall be scheduled so that the total quantity of water in such Parties' Individual Cyclic Storage accounts can be increased proportionately in percent of their maximum allowed Cyclic Storage, and

Fourth: Non-Parties as established by Watermaster at the time; and

(6) Payment to Watermaster for the benefit of Parties in said action of all special costs, damages or burdens incurred (without any charge, rent, assessment or expense as to Parties to said action by reason of the adjudicated proprietary character of said storage rights, nor credit for offset for benefits resulting from such storage); provided, no Party shall have any direct interest in or control over such contracts or the operation thereof by reason of the adjudicated right of such Party. Watermaster has sole custody and control of all Ground Water storage rights in the Basin pursuant to the Physical Solution in the Judgment and all said Agreements are subject to review and approval of the Court.

(e) Terms of Cyclic Storage Agreements and Extensions. The term of such Agreements shall not exceed five (5) years but may be extended for additional terms, not to exceed

five (5) years each, provided Watermaster shall report its intention to consider an extension of any such Agreement in minutes of its meeting held prior to its meeting when any such extension request shall be acted upon.

(f) Maximum Storage. Such Agreements shall fix the maximum amount of Supplemental Water to be stored in the Basin at any point in time by a particular storing entity.

(g) Watermaster to be Held Harmless. The storing entity of such Agreement shall save and hold harmless Watermaster, its officers, agents and employees from any and all costs, damages or liability resulting from said Agreement and shall provide Watermaster with the defense or costs of the defense of any action brought against Watermaster, its officers, agents or employees arising or alleged to arise by reason of such Agreement for storage of Supplemental Water in the Basin.

(h) Reports of Stored Water. The storing entity, if not a Producer, shall quarterly report to Watermaster the amount of Supplemental Water which it spreads and withdraws each quarter under such Agreement. Such reports shall be due on the last day of the month next succeeding the end of the relevant quarter, i.e. April 30, July 31, October 31, and January 31. Such reports shall be cumulative and shall indicate the credit balance of the relevant quarter. If the storing entity is a Producer storing water pursuant to an Individual Producer Cyclic Storage Account whereby Watermaster has purchased the stored water on the Producer's behalf and credited the Producer's account, then Watermaster

shall provide the Producer with a quarterly accounting of storage credit in the regular quarterly production report form. The Producer shall be responsible for verifying the credit and notifying Watermaster of any dispute or discrepancy.

(i) Court Approval of Cyclic Storage Agreements. Upon its approval of a Cyclic Storage Agreement, Watermaster shall Petition the Court for approval thereof and said Agreement shall become effective only upon such Court approval.

27. Responsible Agency from Whom Watermaster Shall Purchase Replacement Water.

(a) Responsible Agencies. There are three Responsible Agencies within or partially within the Basin. Two of such Agencies, Upper San Gabriel Valley Municipal Water District (Upper District) and Three Valleys Municipal Water District (Three Valleys District) are member agencies of The Metropolitan Water District of Southern California (Metropolitan) and supply Watermaster with Replacement Water purchased from Metropolitan. The third Responsible Agency is San Gabriel Valley Municipal Water District (San Gabriel District) which has contracted with the State of California and has constructed facilities to deliver water from the State Water Project and, thus, can directly supply Watermaster with Replacement Water.

(b) Water Used Within the Basin. For water used within the Basin, the Responsible Agency within whose boundaries is located the place of use of water Produced from the Basin will determine the Responsible Agency from whom Watermaster shall purchase Replacement Water.

(c) Water Exported from the Basin. Except for water Produced from the Basin and used within the City of Sierra Madre (for which San Gabriel

District shall be the Responsible Agency), the place of such Production of water exported from the Basin shall determine the Responsible Agency from whom Watermaster shall purchase Replacement Water.

(d) Computations of the Amount of Replacement Water to be Purchased from Responsible Agencies. In computing the amount of Replacement Water to be provided by a Responsible Agency, Watermaster shall:

(1) Determine the Replacement Water requirement of each Party to the Judgment and apportion such Replacement Water requirement as required in (b) and (c) above;

(2) Calculate the total Replacement Water requirement for each Responsible Agency as determined in (1) above;

(3) Tabulate Interagency Transfers of water rights as described in (e) (1) below;

(4) Calculate the Net Interagency Transfer adjustment as described in (e) (2) below;

(5) Determine the adjusted Replacement Water requirements, calculated for each Responsible Agency as required in (e) below; and

(6) Determine the effect of deferred Replacement Water requirements as calculated in (h) below.

(e) Net Interagency Transfer Adjustment and Replacement Water Requirement. Replacement Water requirements as heretofore calculated shall be modified by a "Net Interagency Transfer Adjustment." "Interagency Transfer" shall mean the aggregate amount of Production Right resulting from the temporary transfer of all or a portion of a Pumper's Share of Operating Safe Yield, or a Base Annual Diversion Right, or the Diversion Component or

Pumping Component of an Integrated Production Right for use within the boundaries of a Responsible Agency other than the Responsible Agency within which such water rights were developed and adjudicated.

The annual Replacement Water requirement resulting from Net Interagency Transfers for each Responsible Agency shall be calculated as follows:

(1) Net Interagency Transfers shall be calculated for each Responsible Agency as the difference between such rights transferred for use outside or partially outside that Responsible Agency and such rights transferred for use within or partially within that Responsible Agency.

(2) Tabulate the total Interagency Transfers of water rights, calculated for each of the Responsible Agencies in (1) above. The sum of said total Interagency Transfers for each of the three Responsible Agencies is that Responsible Agency's Net Interagency Transfer Adjustment. The total of such adjustments for all Responsible Agencies shall equal zero. The Responsible Agency(s) having a positive amount shall have this Net Interagency Transfer Adjustment added to the Replacement Water requirement computed for it in (d) (2) above. The Responsible Agency(s) having a negative amount shall have this Net Interagency Transfer Adjustment subtracted from the Replacement Water requirement calculated for it in (d) (2) above.

(f) Special Provisions.

(1) The Replacement Water requirement calculated for each of the Responsible Agencies in (e) (2) above cannot exceed the total quantity of Replacement Water obligation calculated for all Responsible Agencies, and/or;

(2) If the Replacement Water requirement calculated in (e) (2) above results in a negative value, that negative value shall be adjusted to zero, as described in (h) below.

(g) Special Provisions Re Alhambra Exchange. An adjustment shall be made to San Gabriel District's calculated Replacement Water requirement, if necessary, to allow Upper District to deliver an amount of Replacement Water to the City of Alhambra equal to the quantity delivered through connection USG-5 for the previous year, the year in which the Replacement Water requirement was incurred.

(h) Adjustments to Calculated Replacement Water Requirements. Adjustments to Replacement Water requirements resulting from the calculations in (f) (2) or (g) above shall be apportioned as follows:

(1) As between Upper District and Three Valleys District, the district with a negative value shall have added to it an amount sufficient to equal zero, that amount shall be subtracted from the Replacement Water requirement of the other Responsible Agency, but it shall not be reduced to less than zero. If a negative balance still exists, then it shall be subtracted from San Gabriel District.

(2) If San Gabriel District's Replacement Water requirement is less than zero, it shall be adjusted to zero by deducting equal amounts of San Gabriel District's adjustment from both Upper District and Three Valleys District.

(3) All adjustments shall be accumulated in a Deferred Replacement Water Requirement Account for each of the Responsible Agencies. In future years when deliveries of Replacement Water may be made by a Responsible Agency, up to the amount, or any portion of the

amount, in the Deferred Replacement Water Requirement Account, such deliveries will be equally subtracted from the Replacement Water requirement of the Responsible Agency(s) from which it was derived in (1) and/or (2) above for that year so long as such deliveries shall not cause total deliveries of all Responsible Agencies to exceed the amounts provided for in paragraph (f) (1) and/or paragraph (f) (2) above. At the time that deliveries are made by a Responsible Agency from its Deferred Replacement Water Requirement Account, Watermaster shall pay to that Responsible Agency its price prevailing at that time for Replacement Water.

(i) Advanced Delivery Account. Whenever the total quantity calculated in (e) (1) above, is less than that delivered to the City of Alhambra through USG-5 for the previous year, an accounting of the difference shall be maintained in an "Advanced Delivery Account" and such difference, or as much as possible thereof, shall be subtracted from the Replacement Water Requirement of Upper District in the next year when an obligation to deliver Replacement Water exists for Upper District.

28. Ground Water Quality Management. The Watermaster, Upper District, San Gabriel District, and San Gabriel Valley Water Association, through a Joint Resolution dated February-March 1989, affirmed their commitment to participate in a coordinated federal, state and local response to contamination of Ground Water supplies of the Basin for both the purpose of preventing additional contamination and the purpose of cleaning up and limiting the spread of existing contamination. The entities adopting that Joint Resolution designated and accepted Watermaster as the entity to coordinate local involvement in the efforts to preserve and restore the quality of Ground Water within the Basin. Watermaster sought and received additional powers from the

Court to regulate extractions of water from the Basin for water quality control purposes, and this Section 28 is to implement the same. These efforts shall be that any New or Increased Extraction to meet water needs from the Basin shall include planned treatment in existing areas of High Level Degradation or Contamination. An important part of exercising these additional powers and coordinating federal, state and local responses to contamination of the Basin's water supplies is the collection and compilation of essential data from Producers and the expeditious distribution of such data to the proper state and federal regulatory agencies involved in water quality matters in the Basin.

(a) Watermaster Approvals. Each Producer shall, after the effective date of this amendment to these Rules and Regulations (June 28, 1991), apply to Watermaster, on forms provided by Watermaster, for a permit to do any of the following:

- Construct any well;
- Deepen any existing well;
- Modify the perforations of the casing of any existing well;
- Notwithstanding natural fluctuations in Basin water levels, physically increase or decrease the Effective Extraction Capacity of any existing well, including that which may occur due to installation or modification of pipelines, booster pumps or other distribution system components, as of said effective date of these Rules and Regulations;
- Abandon any existing well; or
- Construct, relocate or abandon Ground Water Treatment Facilities.

Such application will be acted upon by Watermaster no later than at its first regular meeting following sixty (60) days after receipt of the complete application. If an emergency exists, Watermaster shall expedite its actions to the maximum extent practicable.

(b) Watermaster Directed Change in Water Production.

(1) Based on available data, Watermaster's Five-Year Plan, and/or Ground Water modeling, Watermaster will, for water quality protection

purposes, direct any Producer to increase, decrease or cease Production from existing wells, initiate new well Production or deliver water to or accept water from another water system or direct a Producer to obtain water from another source in-lieu of Pumping from its own wells, or take other appropriate actions in compliance with an approved Watermaster plan by giving such Producer advanced written notice thereof, specifying a time certain for compliance.

(2) The increase in cost to a Producer resulting from a Watermaster directed change in water Production shall not be borne by the Producer, but will be reimbursed to the Producer by Watermaster through In-Lieu Water Assessments levied by Watermaster, unless such funding is made available from other sources such as federal, state or local governmental entities or by those found to be responsible for the contamination in the Basin which caused Watermaster to direct the change in Production by the Producer.

(c) Producer Data, Initial Submittal. After June 28, 1991, Producers shall submit, within sixty (60) days of Watermaster's request, initial data in a form acceptable to Watermaster, to update and ensure the accuracy of the existing Basin database. The data shall include:

(1) Identification and location of all Active, Inactive or Abandoned Wells;

(2) Water quality data concerning organic compounds, nitrates and any other water quality parameters as specified by Watermaster, including all data from other sampling Producers may conduct in addition to governmental requirements;

(3) Available construction details of each well owned or operated by Producer, as well as all logs (driller's, electric, etc.);

(4) Depths or zones from which water is extracted from each

well, if available; and

(5) A current map of the main water transmission system of Producer's distribution system showing the location and sizes of transmission mains and storage reservoirs, all interconnections with other systems and their sizes and capacities, and any other data pertinent to the transmission (but not distribution to customers) of water through the Producer's system.

(d) Quarterly Reports. After the initial submittal of data per subparagraph (c) above, the following data shall be submitted by all Producers to Watermaster quarterly, on or before the last day of January, April, July and October:

(1) Chemical water quality data collected during the quarter and provided to any state, federal or local public agency;

(2) Data described under Section 28 (c) (3), (4) and (5) hereof which supplement, amend or change the data previously submitted by a Producer; and

(3) All data from other sampling which Producers may conduct in addition to governmental requirements.

(e) Operating Principles. Any New or Increased Extraction by a Producer in the Basin to meet water supply needs shall have prior Watermaster approval, shall not contribute to contaminant migration, and shall include planned treatment in existing areas of High-level Degradation and Contamination. In giving such approval, Watermaster shall consider the cumulative effects of multiple actions by all Producers in the area of concern by using available information, the Five-Year Plan, and Ground Water modeling. If Watermaster determines that a proposed new well is a Replacement Well and

is not a New or Increased Extraction, the requirement for Planned Treatment in existing areas of High-level Degradation and Contamination may be waived.

(f) Emergency Exemptions. Where a Producer's water supply or water quality problem is so urgent that the viable option for maintaining an adequate short-term supply that meets drinking water standards involves an action in conflict with the operating principles outlined in Section 28 (e) hereof, Watermaster may approve a short-term action contingent upon the Applicant Producer concurrently submitting an acceptable long-term action plan with acceptable deadlines for implementation. In general, the long-term action plan must be approved prior to or concurrently with the short-term action.

(g) Water Quality and Supply Plans. 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, projecting water supply requirements and water quality conditions for each period of five (5) calendar years beginning November 1, 1991, and each November 1 thereafter. This Plan will also include a water quality monitoring element to obtain supplemental information as needed to assist in projecting contamination levels. Watermaster will supply the Producers with projections of contaminant migration by June 1 of each year for the preparation of these Water Quality and Supply Plans.

Each purveyor of potable water produced from the Basin shall submit the following information to Watermaster by July 31 of each year:

(1) Projected quarterly water supply requirements for each of the following five calendar years and the proposed pumping rates, in gallons per minute, for each well;

(2) Identification of each Production well known to contain

contaminants and the contaminant levels;

(3) Proposed methods for meeting the water supply requirements of the system if contaminant levels are, or are projected by Watermaster to become, greater than drinking water standards; and

(4) Any intended treatment facility.

Watermaster shall analyze the information submitted by Producers and develop an overall draft Basin Water Quality and Supply Plan. A draft Plan will be submitted by Watermaster to the Los Angeles Regional Water Quality Control Board, and for public review and comment per Section 28 (i) hereof, by November 1. Appropriate modifications resulting from comments received will be reflected in the final draft, and a staff report providing an explanation of decisions will be made available.

(h) Ground Water Treatment Facilities.

(1) Producers in the Basin shall notify Watermaster in advance at the initial stages of planning of their intent to construct any Facility to remove volatile organic compounds (VOCs), nitrates, or other contaminants from water Produced from the Basin. Such notice shall include the following information:

- the intended location and a description of the Treatment Facility;
- the water production capacity;
- the rate of contaminant removal capacity;
- the expected concentration of all identified contaminants in the water to be treated;
- the expected concentration of all identified contaminants in the water after treatment;
- the intended disposition of all water to be treated;
- the expected initiation date and period of time over which the Treatment Facility will operate; and
- the expected capital and operating costs of the Treatment Facility.

(2) In addition, the Producer shall describe all necessary

permits and/or all permits for which it has applied or has received from all regulatory agencies with regard to such Treatment Facility and shall supply to Watermaster copies of all environmental documents required under the California Environmental Quality Act and/or the National Environmental Protection Act. No construction of such Treatment Facilities shall be initiated without the prior written approval of Watermaster. Watermaster shall promptly examine each submittal for compatibility with available information, the Five- Year Plan and the operating principles, and notify the Applicant of its findings and decision regarding such proposed Treatment Facility no later than at its first regular meeting following sixty (60) days after receipt of a complete submittal by the Producer. Watermaster will also report its determination to the Los Angeles Regional Water Quality Control Board.

(3) All operators of Treatment Facilities shall report quarterly to Watermaster at least the following information:

- name or other designation of the Treatment Facility;
- quantity of water treated during quarter;
- quantity of each contaminant removed;
- quality of water before treatment, at beginning and end of each quarter;
- quality of water after treatment, at beginning and end of each quarter; and
- operation and maintenance costs for each quarter.

(i) Decision Making Process. Hearings and Appeals.

(1) All Watermaster determinations relating to the control of Pumping for water quality purposes shall be based upon a staff recommendation and information and recommendations received from or furnished by affected Producers. Staffs recommendation shall result from staff's analysis of information presented by interested Parties, all

available water quality data, Watermaster's Five-Year Plan, Ground Water modeling and other water quality trend analysis reports, and will be based on the operating principles set forth in these rules. Staff shall provide supporting data to document each recommendation that it makes to Watermaster. After consideration of the staff recommendation and public comment provided at the Watermaster meeting, Watermaster shall make a final decision.

(2) Public hearings on Watermaster's draft annual Five-Year Water Quality and Supply Plan will be held following a thirty (30) day public review and comment period. A notice of the availability of such draft will be sent to all Parties to the Judgment as well as to all other interested Parties following the regular Watermaster meeting in November of each year, along with a notice of the date, time and place of the public hearing, to be scheduled not less than thirty (30) days after the mailing date of the notice of availability of the draft Plan. A notice of public hearing will also be published in the San Gabriel Valley's key local newspaper(s) at the beginning of the public review period. Consideration of comments received is described in Section 28 (g) hereof.

(3) Appeal of a Watermaster decision may be made to the Watermaster who shall notice and consider the same at a public hearing. Actions by the Watermaster are subject to review by the Court. Any Party may, by a regularly noticed motion, petition the Court for review of Watermaster's action or decision. Notice of such motion shall be served and filed within ninety (90) days after such Watermaster action or decision.

29. Watermaster-directed Groundwater Management Programs. Upon written request by any Party, or on recommendation of Watermaster staff, Watermaster may initiate an investigation of existing or proposed pumping activities, groundwater levels, recharge potential and other factors that influence groundwater supply in any specific area of the Basin. Based on the findings of the investigation, and in accordance with Section 40(a) of the Judgment, Watermaster may determine that a groundwater management program is needed to assure equitable water supply availability to all affected Parties in the investigation area. Such a program may require that Producers reduce pumping from one or more wells, take water from another source in lieu of pumping groundwater, or a combination of those and/or other measures; however, no program adopted by Watermaster pursuant to this section shall effect a modification or amendment of the quantities specified in the declared rights of any Party under the Judgment.

If Watermaster determines such a management program is needed within a specific area of the Basin, Watermaster will develop the program with review and comment by affected Parties, and will first attempt to facilitate its implementation through voluntary agreements among the various affected Parties. Watermaster may also participate in such agreements as appropriate, subject to court approval.

If any affected Party refuses voluntary participation in the groundwater management program, or if the affected Parties cannot reach agreement within a reasonable time not to exceed 12 months from the date that Watermaster receives the draft program at a regular meeting, Watermaster will consider adoption of the program at a duly noticed public hearing and, if the program is adopted, will seek court approval of the program as part of the Watermaster Operating Criteria set forth in the Judgment. Watermaster will implement the program upon court approval and may use funds collected through the In-lieu Assessment to reimburse a Producer for costs incurred

beyond normal operating costs to comply with the Watermaster-directed groundwater management program.

APPENDIX "A"

DEFINITIONS

(a) Base Annual Diversion Right -- The average annual quantity of water which a Diverter has the right to Divert for Direct Use.

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

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

(d) Diverter -- Any Party who Diverts.

(e) Elevation -- Feet above mean sea level.

(f) Fiscal Year -- The period July 1 through June 30, following.

(g) Ground Water -- Water beneath the surface of the ground and within the zone of saturation.

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

(i) Integrated Producer -- Any Party that is both a Pumper and a Diverter, and has elected to have its rights adjudicated under the optional formula provided in Section 18 of the Amended Judgment.

(j) In-Lieu Water Cost -- The differential between a particular Producer's cost of Watermaster directed Produced, treated, blended, substituted or Supplemental Water delivered or substituted to, for, or taken by such Producer in-lieu of his cost of otherwise normally producing a like amount of Ground Water.

(k) Judgment -- Judgment entered in Los Angeles Superior Court Civil Action No. 924128, entitled "Upper San Gabriel Valley Municipal Water District v. City of Alhambra, et al," as amended.

(l) Key Well -- Baldwin Park Key Well, being elsewhere designated as

State Well No. IS/lOW-7R2, or Los Angeles County, Department of Public Works, Well No. 3030-F. Said well has a ground surface elevation of 386.7.

(m) Long Beach Case -- Los Angeles Superior Court Case No. 722647, entitled "The Board of Water Commissioners of the City of Long Beach, et al, v. San Gabriel Valley Water Company, et al."

(n) Main San Gabriel Basin or Basin -- The Ground Water Basin underlying the area shown as such on Exhibit "A" of the Judgment.

(o) Make-up Obligation -- The total cost of meeting the obligation of the Basin to the area at or below Whittier Narrows, pursuant to the Judgment in the Long Beach Case.

(p) Minimal Producer -- Any Producer whose Production in any Fiscal Year does not exceed five (5) acre-feet.

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

(r) Operating Safe Yield -- The quantity of water which Watermaster determines may be Pumped from the Basin in a particular Fiscal Year, free of the Replacement Water Assessment under the Physical Solution of the Judgment.

(s) Overdraft -- A condition wherein the total annual Production from the Basin exceeds the Natural Safe Yield thereof.

(t) Overlying Rights -- The right to Produce water from the Basin for use on Overlying Lands, which rights are exercisable only on specifically defined Overlying Lands and which cannot be separately conveyed or transferred apart therefrom.

(u) Physical Solution -- The Court-decreed method of managing the waters

of the Basin so as to achieve the maximum utilization of the Basin and its water supply, consistent with the rights declared in the Judgment.

(v) Prescriptive Pumping Right -- The highest continuous extraction of water by a Pumper from the Basin for beneficial use in any five (5) consecutive years after commencement of Overdraft and prior to filing of the action, as to which there has been no cessation of use by that Pumper during any subsequent period of five (5) consecutive years prior to the filing of said action.

(w) Produce or Producing -- To Pump or Divert water from the Basin.

(x) Producer -- A Party who Produces water from the Basin.

(y) Production -- The annual quantity of water Produced from the Basin, stated in acre-feet.

(z) Pump or Pumping -- To extract ground water from the Basin by Pumping or by any other method.

(aa) Pumper -- A Party who Pumps water.

(bb) Pumper's Share -- A Pumper's right to a percentage of the entire Natural Safe Yield, Operating Safe Yield and appurtenant Ground Water storage of the Basin.

(cc) Reclaimed Water -- Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur.

(dd) Relevant Watershed -- That portion of the San Gabriel River Watershed tributary to Whittier Narrows which is shown as such on Exhibit "A" to the Judgment and the exterior boundaries of which are described in Exhibit "B" of the Judgment.

(ee) Replacement Water -- Water purchased by Watermaster to replace: (1) Production in excess of a Pumper's Share of Operating Safe Yield; (2) the consumptive use portion resulting from the exercise of an Overlying Right; and (3) Production in excess of a Diverter's right to Divert for Direct Use.

(ff) Responsible Agency -- The municipal water district which is the normal

and appropriate source from whom Watermaster shall purchase Supplemental Water for replacement purposes under the Physical Solution of the Judgment, being one of the following:

(1) Upper District -- Upper San Gabriel Valley Municipal Water District, a member public agency of The Metropolitan Water District of Southern California (MWD).

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

(3) Three Valleys District -- Three Valleys Municipal Water District, a member public agency of MWD.

(gg) Stored Water -- Supplemental Water stored in the Basin pursuant to a Cyclic Storage Agreement with Watermaster as authorized by Section 34(n) of the Judgment herein.

(hh) Supplemental Water -- Non-tributary water imported through a Responsible Agency and Reclaimed Water.

(ii) Transporting Parties -- Any Party who has transported water from the Relevant Watershed or Basin to an area outside thereof within the Year immediately preceding the entry of Judgment, and any Party presently or hereafter having an interest in lands or having a service area outside the Basin or Relevant Watershed contiguous to lands in which it has an interest or a service area within the Basin or Relevant Watershed. Division by a road, highway, or easement shall not interrupt contiguity. Said term shall also include the City of Sierra Madre, or any Party supplying water thereto, so long as the corporate limits of said City are included within one of the Responsible Agencies.

(jj) Water Level -- The measured Elevation of water in the Key Well, corrected for any temporary effects of mounding caused by replenishment or local

depressions caused by Pumping.

(kk) Year -- A calendar year, unless the context clearly indicates a contrary meaning.

The following are supplemental definitions relating to Section 28 of these rules and regulations.

(ll) New Extraction -- Any extraction from the Main San Gabriel Basin using a well or other Ground Water extraction facility that becomes active for the first time for water supply purposes on ,or after June 28, 1991.

(mm) Increased Extraction (Decreased) -- Any modification to an existing well or extraction facility that physically increases (or decreases) the Effective Extraction Capacity of that well or extraction facility. Such modifications may include: (1) changing the well depth, (2) modifying the perforation intervals, (3) modifying the pump and/or motor, (4) installing or modifying distribution pipelines, (5) installing or modifying booster pumps, and (6) installing or modifying other distribution system components. Normal maintenance work would be excluded.

(nn) Effective Extraction Capacity -- The actual capacity of a well or extraction facility to extract Ground Water from the Basin using the pumping equipment and system appurtenances in good working order as they existed on June 28, 1991.

(oo) Treatment Facility -- Any facility that provides treatment for contaminated Ground Water in order to meet drinking water standards.

(pp) Planned Treatment -- A specific Treatment Facility with a designated source of Ground Water supply and schedule for development.

(qq) Active Well -- Any well used or that could be used without modifications to extract Ground Water.

(rr) Inactive Well -- Any well that is not in service at the time of filing of an

application hereinunder.

(ss) Abandoned Well -- A well that has been abandoned in accordance with the provisions of state, county or local laws and regulations.

(tt) High-level Degradation and Contamination -- Ground Water containing contaminants in excess of the federal or state maximum contaminant level. Some areas of the Basin contain higher contaminant concentrations than others and Treatment Facilities shall be planned to extract Ground Water from the higher level areas of contamination in the Basin.

(uu) Replacement Well -- A new well that will replace an existing well due to structural or mechanical failure, which is located in the same general vicinity and which has the same physical characteristics (size, depth, perforation intervals) and design extraction capacity as the well it is replacing.

APPENDIX "B"

SUMMARY OF CRITICAL DATES AND ACTIONS FOR WATERMASTER

This summary of critical dates and actions for Watermaster is presented for the convenience of Watermaster members, the Parties and others in carrying out the provisions of the Court Judgment. It does not necessarily include all critical dates and actions under the Judgment.

SUMMARY OF CRITICAL DATES AND ACTIONS FOR WATERMASTER

1. Watermaster members' terms of office.

January 1 - December 31.

2. Watermaster's first meeting in January.

(a) Election of Watermaster Chairman and Vice-Chairman (from Watermaster membership) and selection of Secretary, Treasurer and assistants (who may, but need not, be Watermaster members). Watermaster Rules and Regulations, Section 6 (R/R 6)

(b) Order Engineering Report for Preliminary Determination of Operating Safe Yield. (R/R 14(a))

3. January 31 - Quarterly Reports, as required by the Rules and Regulations, of Production (R/R 13), Cyclic Storage (R/R 26(h)) and data required by Section 28 (d), due to Watermaster.

4. March - Receive San Gabriel River Watermaster Report.

5. Watermaster's first meeting in April.

Watermaster shall make a Preliminary Determination of the Operating Safe Yield of the Basin for the next five Fiscal Years and mail a copy thereof to all Parties at least ten (10) days prior to a hearing thereon and which said hearing shall commence at Watermaster's first meeting in May. (R/R 14(a))

6. April 30 - Quarterly Reports, as required by the Rules and Regulations, of Production (R/R 13), Cyclic Storage (R/R 26(h)) and data required by Section 28 (d), due to Watermaster.

7. Watermaster's first meeting in May.

(a) Hearing on Preliminary Determination for Watermaster to make Final Determination of Operating Safe Yield. (R/R 14(b)) Within thirty (30) days of the Final Determination of the Operating Safe Yield a copy of the Final Report

and Determination must be mailed to each Pumper and Integrated Producer, including a statement of their entitlements under such Determination.(R/R 14(c))

(b) Budget.

Adopt a proposed Administration Budget for the succeeding Fiscal Year and within fifteen (15) days mail a copy thereof together with a statement of the level of the Administration Assessment levied by Watermaster which will be collected for purposes of raising the necessary funds for said budget. (R/R 18(a))

(c) Assessments.

In addition to the Administration Assessment, Watermaster shall levy the Replacement Water Assessment, Make-up Obligation Assessment and the In-lieu Water Assessments, if any. (R/R 19)

8. June 1 - Watermaster to supply Producers with projections of contaminant migration by June 1. (R/R 28(g))

9. July - Authorize preparation of Annual Watermaster Report. Receive tentative budget from San Gabriel River Watermaster.

10. July 31 - Quarterly Reports, as required by the Rules and Regulations, of Production (R/R 13), Cyclic Storage (R/R 26(h)) and data required by Section 28 (d), due to Watermaster. Producers of potable water from the Basin must submit to Watermaster the data required by Section 28(g).

11. August 15 - On or before this date Watermaster must give written notice of all applicable Assessments to all Parties. (R/R 19)

12. September 20 - All Assessments payable to Watermaster. (R/R 19(a))

13. September 30 - Must pay Upper Area share of San Gabriel River Watermaster budget by this date.

14. October 1 - Mail Notice of Nomination Election of Producer representatives to be held at Watermaster's November meeting. (R/R 19(a))

15. October 31 - Quarterly Reports, as required by the Rules and Regulations, of Production (R/R 13), Cyclic Storage (R/R 26(h)) and data required by Section 28 (d), due to Watermaster.

16. November

(a) Watermaster Annual Report filed with the Court and copies mailed to each Party by November 1. (R/R 24)

(b) Draft Annual Five-Year Water Quality and Supply Plan under Section 28 (g) to be filed with the Los Angeles Regional Quality Control Board and circulated for public review and comment by November 1.

(c) Prior to Watermaster's meeting in November, nomination of Public Representatives to Watermaster by Upper District and San Gabriel District.

(d) Watermaster's meeting in November--election of six Producer Representatives for nomination to Watermaster. (R/R 9(b)) Petition Court for confirmation of nominees and give notice of hearing on Petition to all Parties. Within ninety (90) days of a vacancy on Watermaster, it shall be filled by nomination by Upper District or San Gabriel District if for a Public Representative and by a special election at a Watermaster meeting for a Producer Representative, after notice thereof to all Parties, and Watermaster Petition (and notice thereof to all parties) for Court confirmation of nominee. (R/R 10)

PERMANENT TRANSFER OF WATER RIGHTS - PRESCRIPTIVE PUMPING RIGHT

For a valuable consideration, receipt of which is hereby acknowledged, _____ _____ ("Seller") does hereby assign and transfer in perpetuity to _____, ("Buyer") all rights to the quantity of _____ acre-feet of the "Prescriptive Pumping Right" and the appropriate % of "Pumper's Share" adjudicated to Seller or his predecessor in the Judgment in the case of Upper San Gabriel Valley Municipal Water District, v. City of Alhambra, et al, Los Angeles Superior Court No. 924128, together with all the attendant rights, powers and privileges pertaining thereto.

(Check appropriate provision)

This transfer does ☐ does not ☐ include_____acre-feet of "carry-over of unused rights" associated with said transferred rights and in existence on the date hereof.

DATED:_____

BUYER	SELLER
_____	_____
_____	_____
_____	_____
_____ (Signature)	_____ (Signature)
Name of Designee (of Buyer) to receive service of Processes and Notices:	Name of Designee (of Seller) to receive service of Processes and Notices:
_____	_____
_____	_____
_____ Address	_____ Address
Telephone No.:_____	Telephone No.: _____

To be executed by both Buyer and Seller and, if separately requested by Watermaster, be accompanied by a map of the service area where the water was used by Seller and a map of the service area where the water is intended to be used by the Buyer.

(Have the appropriate individual(s) or corporate attached acknowledgments completed by both Buyer and Seller as part of the transfer.)

A TRUE COPY HEREOF MUST BE FILED WITH WATERMASTER WITHIN 15 DAYS OF EXECUTION.

(To be accompanied by completed "Stipulation Re Intervention After Judgment" if Buyer is not a party to the Judgment)

EXHIBIT A-1

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA)§
COUNTY OF LOS ANGELES)

On this _____ day of _____, 20___, before me, the undersigned Notary Public, personally appeared _____

_____ known to me
_____ proved to me on the basis of satisfactory evidence to be the person(s) who executed the within Instrument as

_____,
or on behalf of the Corporation therein named, and acknowledged to me that the Corporation executed it.

WITNESS my hand and official seal.

Signature _____

_____
Name (Typed or Printed)
Notary Public in and for said
County and State

(SEAL)

INDIVIDUAL(S) ACKNOWLEDGMENT

STATE OF CALIFORNIA)§
COUNTY OF LOS ANGELES)

On this _____ day of _____, 20___, before me, the undersigned Notary Public, personally appeared _____,

_____ known to me
_____ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) _____ subscribed to the within instrument and acknowledged to me that _____executed the same.

WITNESS my hand and official seal.

Signature _____

_____
Name (Typed or Printed)
Notary Public in and for said
County and State

(SEAL)

PERMANENT TRANSFER OF WATER RIGHTS – BASE ANNUAL DIVERSION RIGHT

For a valuable consideration, receipt of which is hereby acknowledged, _____ _____ ("Seller") does hereby assign and transfer in perpetuity to _____, ("Buyer") all rights to the quantity of _____ acre-feet of the "Base Annual Diversion Right" adjudicated to Seller or his predecessor in the Judgment in the case of Upper San Gabriel Valley Municipal Water District, v. City of Alhambra, et al, Los Angeles Superior Court No. 924128, together with all the attendant rights, powers and privileges pertaining thereto.

DATED:_____

BUYER	SELLER
_____	_____
_____	_____
_____	_____
_____ (Signature)	_____ (Signature)
Name of Designee (of Buyer) to receive service of Processes and Notices:	Name of Designee (of Seller) to receive service of Processes and Notices:
_____	_____
_____	_____
_____ Address	_____ Address
Telephone No.:_____	Telephone No.: _____

To be executed by both Buyer and Seller and, if separately requested by Watermaster, be accompanied by a map of the service area where the water was used by Seller and a map of the service area where the water is intended to be used by the Buyer.

(Have the appropriate individual(s) or corporate attached acknowledgments completed by both Buyer and Seller as part of the transfer.)

A TRUE COPY HEREOF MUST BE FILED WITH WATERMASTER WITHIN 15 DAYS OF EXECUTION.

(To be accompanied by completed "Stipulation Re Intervention After Judgment" if Buyer is not a party to the Judgment)

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA)§
COUNTY OF LOS ANGELES)

On this _____ day of _____, 20___, before me, the undersigned Notary Public, personally appeared _____

_____ known to me
_____ proved to me on the basis of satisfactory evidence to be the person(s) who executed the within Instrument as

_____,
or on behalf of the Corporation therein named, and acknowledged to me that the Corporation executed it.

WITNESS my hand and official seal.

Signature _____

_____
Name (Typed or Printed)
Notary Public in and for said
County and State

(SEAL)

INDIVIDUAL(S) ACKNOWLEDGMENT

STATE OF CALIFORNIA)§
COUNTY OF LOS ANGELES)

On this _____ day of _____, 20___, before me, the undersigned Notary Public, personally appeared _____,

_____ known to me
_____ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) _____ subscribed to the within instrument and acknowledged to me that _____executed the same.

WITNESS my hand and official seal.

Signature _____

_____
Name (Typed or Printed)
Notary Public in and for said
County and State

(SEAL)

PERMANENT TRANSFER OF WATER RIGHTS – INTEGRATED PRODUCTION RIGHT

For a valuable consideration, receipt of which is hereby acknowledged, _____ _____ ("Seller") does hereby assign and transfer in perpetuity to _____, ("Buyer") all rights to the quantity of _____ acre-feet of the "Diversion Component" adjudicated to Seller or his predecessor in the Judgment in the case of Upper San Gabriel Valley Municipal Water District, v. City of Alhambra, et al, Los Angeles Superior Court No. 924128, together with all the attendant rights, powers and privileges pertaining thereto.

(Check appropriate provision)

This transfer does ☐ does not ☐ include_____acre-feet of "carry-over of unused rights" associated with said transferred rights and in existence on the date hereof.

DATED:_____

BUYER	SELLER
_____	_____
_____	_____
_____	_____
_____ (Signature)	_____ (Signature)
Name of Designee (of Buyer) to receive service of Processes and Notices:	Name of Designee (of Seller) to receive service of Processes and Notices:
_____	_____
_____	_____
_____ Address	_____ Address
Telephone No.:_____	Telephone No.: _____

To be executed by both Buyer and Seller and, if separately requested by Watermaster, be accompanied by a map of the service area where the water was used by Seller and a map of the service area where the water is intended to be used by the Buyer.

(Have the appropriate individual(s) or corporate attached acknowledgments completed by both Buyer and Seller as part of the transfer.)

A TRUE COPY HEREOF MUST BE FILED WITH WATERMASTER WITHIN 15 DAYS OF EXECUTION.

(To be accompanied by completed "Stipulation Re Intervention After Judgment" if Buyer is not a party to the Judgment)

EXHIBIT C-1

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA)§
COUNTY OF LOS ANGELES)

On this _____ day of _____, 20___, before me, the undersigned Notary Public, personally appeared _____

_____ known to me
_____ proved to me on the basis of satisfactory evidence to be the person(s) who executed the within Instrument as

_____,
or on behalf of the Corporation therein named, and acknowledged to me that the Corporation executed it.

WITNESS my hand and official seal.

Signature _____

_____
Name (Typed or Printed)
Notary Public in and for said
County and State

(SEAL)

INDIVIDUAL(S) ACKNOWLEDGMENT

STATE OF CALIFORNIA)§
COUNTY OF LOS ANGELES)

On this _____ day of _____, 20___, before me, the undersigned Notary Public, personally appeared _____,

_____ known to me
_____ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) _____ subscribed to the within instrument and acknowledged to me that _____executed the same.

WITNESS my hand and official seal.

Signature _____

_____
Name (Typed or Printed)
Notary Public in and for said
County and State

(SEAL)

TEMPORARY ASSIGNMENT OR LEASE OF WATER RIGHT

For a valuable consideration, receipt of which is hereby acknowledged, _____ ("Assignor") does hereby assign and transfer to _____, ("Assignee") commencing on _____ and terminating _____, on the following water right(s):

(Check following appropriate category)

☐ Production Right _____AF

☐ Prescriptive Pumping Right _____AF

☐ Base Annual Diversion Right _____AF

☐ Integrated Production Right (consisting of _____AF of "Prescriptive Pumping Component" and _____AF of "Diversion Component")

☐ Carryover Right_____AF

adjudicated to Assignor or his predecessor in the Judgment in the case of "Upper San Gabriel Valley Municipal Water District, v. City of Alhambra, et al," Los Angeles Superior Court No. 924128.

Said assignment is made upon condition that:

(1) Assignee shall exercise said right on behalf of Assignor for the period described hereinabove and the first water produced by Assignee from the Relevant Watershed of the Main San Gabriel Basin after the date hereof shall be that produced hereunder;

(2) Assignee shall put all waters utilized pursuant to said transfer to reasonable beneficial use; and

(3) Assignee shall pay all Watermaster assessments on account of the water production hereby assigned or leased.

DATED: _____

ASSIGNEE	ASSIGNOR
_____	_____
_____	_____
_____	_____
Signature	Signature
Name of Designee (of Assignee) to receive service of Processes and Notices:	Name of Designee (of Assignor) to receive service of Processes and Notices:
_____	_____
_____	_____
_____	_____
Address	Address
Tel. No.: _____	Tel. No.: _____

To be executed by both Assignee and Assignor and, if separately requested by Watermaster, be accompanied by a map of the service area where the water was used by Assignor and a map of the service area where the water is intended to be used by the Assignee.

(Have the appropriate individual(s) or corporate attached acknowledgments completed as part of the temporary transfer.)

A TRUE COPY HEREOF MUST BE FILED WITH WATERMASTER WITHIN 15 DAYS OF EXECUTION
(To be accompanied by completed "Stipulation Re Intervention After Judgment" if Assignee is not a party to the Judgment)

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA)§
COUNTY OF LOS ANGELES)

On this _____ day of _____, 20___, before me, the undersigned Notary Public, personally appeared _____

_____ known to me
_____ proved to me on the basis of satisfactory evidence to be the person(s) who executed the within Instrument as

_____,
or on behalf of the Corporation therein named, and acknowledged to me that the Corporation executed it.

WITNESS my hand and official seal.

Signature _____

_____
Name (Typed or Printed)
Notary Public in and for said
County and State

(SEAL)

INDIVIDUAL(S) ACKNOWLEDGMENT

STATE OF CALIFORNIA)§
COUNTY OF LOS ANGELES)

On this _____ day of _____, 20___, before me, the undersigned Notary Public, personally appeared _____,

_____ known to me
_____ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) _____ subscribed to the within instrument and acknowledged to me that _____executed the same.

WITNESS my hand and official seal.

Signature _____

_____
Name (Typed or Printed)
Notary Public in and for said
County and State

(SEAL)

NOSSAMAN, GUTHNER, KNOX & ELLIOTT, LLP
FREDERIC A. FUDACZ, State Bar No. 050546
ALFRED E. SMITH, State Bar No. 186257
445 South Figueroa Street, 31st Floor
Los Angeles, CA 90071-1602
Telephone: (213) 612-7800
Facsimile: (213) 612-7801
Attorneys for Main San Gabriel Basin Watermaster

EXEMPT FROM FILING FEES
GOVERNMENT CODE § 6103

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, Defendant	Case No.: C 924128 STIPULATION RE INTERVENTION AFTER JUDGMENT OF _____

IT IS HEREBY STIPULATED by and between the Main San Gabriel Basin Watermaster for and on behalf of all parties to the instant action (pursuant to Section 57 of the amended Judgment) and _____, the proposed Intervenor(s) herein, that said proposed Intervenor(s) may intervene in the instant action and become entitled to all of the benefits and bound by all of the burdens of the Judgment herein.

The Court will consider the attached proposed Order confirming said Intervention at _____ o'clock _____ on _____ 20___, in Department 38, located at 111 North Hill Street, Los Angeles, California 90012.

EXHIBIT E-1

Watermaster shall give at least 30 days notice to the parties herein of said hearing.

DATED: WATERMASTER

By _____
Chairman

Attest:

_____
Secretary

DATED: _____ INTERVENOR(S)

_____

By _____

By _____

Name of Intervenor's Designee:

_____

Address of Designee:

_____

_____

Telephone Number of Designee:

_____

FREDERIC A. FUDACZ, State Bar No. 050546
ALFRED E. SMITH, State Bar No. 186257
NOSSAMAN, GUTHNER, KNOX & ELLIOTT, LLP
445 South Figueroa Street, 31st Floor
Los Angeles, CA 90071-1602
Telephone: (213) 612-7800
Facsimile: (213) 612-7801
Attorneys for Main San Gabriel Basin Watermaster

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, Defendant	Case No.: C 924128 DESIGNEE TO RECEIVE FUTURE NOTICES FOR AND ON BEHALF OF DEFENDANT(S)

Defendant(s)_____
hereby designates:_____
whose address is _____
and whose telephone number is _____ as said Defendant's Designee to receive service of all future notices, determinations, requests, demands, objections, reports and other papers and processes to be served upon said defendant(s) or delivered to said defendant(s) herein.

A copy hereof has been served upon the Watermaster herein, by mail, on _____, 20___.

EXHIBIT F-1

Executed under penalties of perjury at _____, California, this _____day of _____, 20___.

_____

_____

EXHIBIT F-2

NOTICE OF TRANSFER OF OVERLYING RIGHTS
WITH PROPERTY TO WHICH THEY ARE APPURTENANT

On _____, 20____, the undersigned (or his predecessor), adjudged Overlying Rights on the property described in Exhibit 1 attached hereto and by this inference incorporated herein, in the case of "UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT, v. CITY OF ALHAMBRA, ET AL," Los Angeles Superior Court No. 924128, transferred said property and said Overlying Rights appurtenant thereto to _____, whose address is _____, and whose telephone number is _____.

That said transferee hereby names _____ Whose address is _____ and whose telephone number is _____ as his/her Designee to receive all future notices and processes in said action.

DATED:_____

BUYER	SELLER
_____	_____
_____	_____
_____	_____
_____	_____
(Signature)	(Signature)

To be executed by both Buyer and Seller and, if separately requested by Watermaster, be accompanied by a map of the service area where the water was used by Seller and a map of the service area where the water is intended to be used by the Buyer.

(Have the appropriate individual(s) or corporate attached acknowledgments completed as part of the transfer, and include Exhibit 1)

A TRUE COPY HEREOF MUST BE FILED WITH WATERMASTER WITHIN 15 DAYS OF EXECUTION.

(To be accompanied by completed "Exhibit E" if Buyer is not a party to the Judgment)

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA)§
COUNTY OF LOS ANGELES)

On this _____ day of _____, 20___, before me, the undersigned Notary Public, personally appeared _____

_____ known to me
_____ proved to me on the basis of satisfactory evidence to be the person(s) who executed the within Instrument as

_____,
or on behalf of the Corporation therein named, and acknowledged to me that the Corporation executed it.

WITNESS my hand and official seal.

Signature _____

_____
Name (Typed or Printed)
Notary Public in and for said
County and State

(SEAL)

INDIVIDUAL(S) ACKNOWLEDGMENT

STATE OF CALIFORNIA)§
COUNTY OF LOS ANGELES)

On this _____ day of _____, 20___, before me, the undersigned Notary Public, personally appeared _____,

_____ known to me
_____ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) _____ subscribed to the within instrument and acknowledged to me that _____executed the same.

WITNESS my hand and official seal.

Signature _____

_____
Name (Typed or Printed)
Notary Public in and for said
County and State

(SEAL)

Mailing Address:
725 North Azusa Ave.
Azusa, CA 91702

MAIN SAN GABRIEL BASIN WATERMASTER

SUPERIOR COURT CASE NO. 924128-LOS ANGELES COUNTY

(State Well Number)

(Recordation Number)

(Owner's Designation)

APPLICATION TO DRILL WATER WELL

(To Be Completed by Watermaster)

(1) APPLICANT:
Name_____
Address_____

(2) LOCATION OF PROPOSED WELL:
*Well Address:*_____
Township, Range, and Section_____
Thomas Brothers Guide *(Please indicate year, page number and coordinates.)*_____

Assessor's Parcel No._____
(Please attach copy of a map or sketch showing well location relative to streets or other major landmarks.)

(3) NAME OF WELL DRILLING CONTRACTOR:_____

(4) PROPOSED USE:
Municipal ( ) Irrigation ( )
Domestic ( ) Industrial ( )
Water Quality Cleanup ( )
Other ( )_____

(5) DRILLING EQUIPMENT:
Rotary ( )
Cable ( )
Other ( )_____

(6) PROPOSED WELL CHARACTERISTICS:

A. Casing Installed:
STEEL ( ) PLASTIC ( )
OTHER ( )

Gravel Packed:
Yes ( ) No ( ) Size_____

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	Packed From ft.	Packed To ft.

Size of shoe or well ring:_____
Describe joint_____

B. Perforations or Screen:
Type of perforation or size of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Slot Size

C. Construction:
Will a surface sanitary seal be provided? Yes ( ) No ( )
To what depth? _____ft.
Is any strata anticipated to be sealed against pollution?
Yes ( ) No ( )
If yes, note anticipated depth of strata
from _____ft. to _____ft.
from _____ft. to _____ft.
Proposed method sealing_____

(7) WELL TESTS:
Will a pump test be made? Yes ( ) No ( ) If yes by whom?

Anticipated Well Yield_____
Will a chemical analysis be made? Yes ( ) No ( )
Will an electric log be made of well? Yes ( ) No ( ) (If yes, file Copy with Watermaster upon well completion)

(8) PROPOSED PUMPING EQUIPMENT:
(A) Pump
Electric ( ) Natural Gas ( )
Propane ( ) Diesel ( )
Other ( )_____
(B) Make_____
(C) Pump Size (hp)_____(gpm)_____
(D) Design Efficiency_____

(9) PROXIMITY TO POTENTIAL SOURCES OF CONTAMINATION:
(A) Distance to nearest sewer line or septic tank_____(ft.)
(B) Wells (Please provide distance, direction and name of nearest upgradient well(s) with volatile organic chemical or nitrate levels above a maximum contaminant level, if known.)

(10) Please provide copy of County of Los Angeles permits and State Department of Water Resources Water Well Driller Reports and any other permits for construction of a new well upon completion of proposed well.

(11) Please provide Watermaster with copies of all feasibility studies, alternative water supply sources, water quality studies or other reports which validate the Applicant's need to drill a new well. Applicant must provide supporting data to show compliance with the requirements of Section 28 with particular reference to Section 28(e) of Watermaster's Rules and Regulations.

I hereby agree to comply with all regulations of the Main San Gabriel Basin Watermaster pertaining to well construction, repair, modification, destruction and inactivation. The applicant will furnish the Watermaster a complete well log upon completion of well construction.

Submitted for Applicant by:_____

Signature:_____

Title:_____

Date:_____

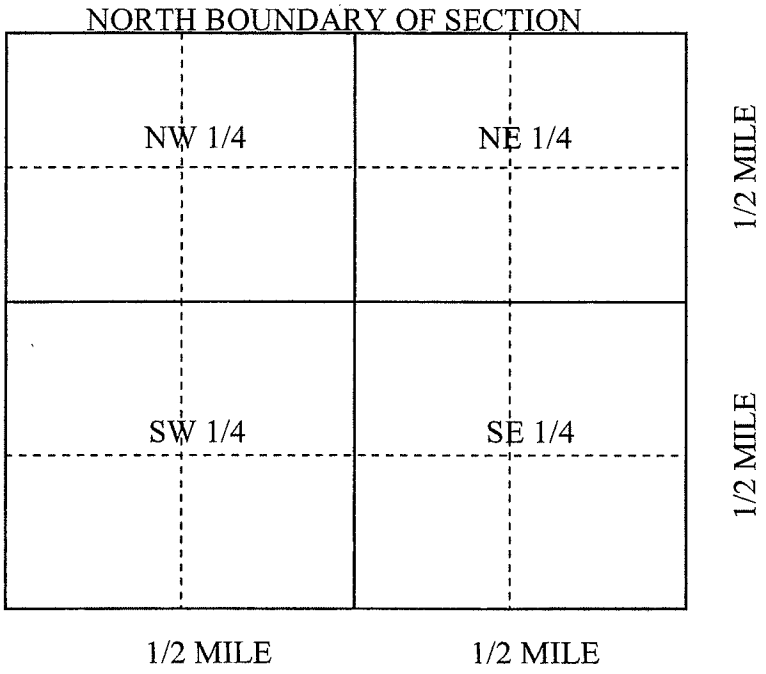
Date Received by Watermaster:_____
Watermaster Action: Approved ( ) Denied ( )
Date of Action:_____
Permit Number:_____
By:_____
(Name)

(Title)

EXHIBIT H-1

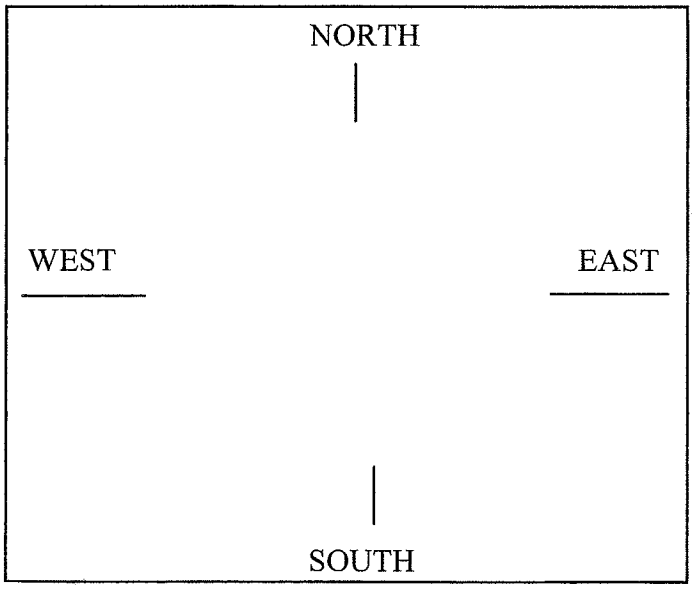
Form No. RR 28-03 – 08/00

WELL LOCATION SKETCH



Township _____ **N/S**
Range_____**E/W**
Section No._____

A. Location of well in sectionized areas. Sketch roads, railroads, streams, or other features as necessary.



B. Location of well in areas not sectionized. Sketch roads, railroads, streams, or other features as necessary. Indicate distances.

EXHIBIT H-2

Mailing Address:
725 North Azusa Ave.
Azusa, CA 91702

MAIN SAN GABRIEL BASIN WATERMASTER

SUPERIOR COURT CASE NO. 924128-LOS ANGELES COUNTY

APPLICATION TO MODIFY EXISTING WATER WELL

(State Well Number)
(Recordation Number)
(Owner's Designation)

(1) APPLICANT:
Name_____
Address_____
_____

(2) LOCATION OF PROPOSED WELL:
*Well Address:*_____
*Township, Range, and Section*_____
*Thomas Brothers Guide (Please indicate year, page number and coordinates.)*_____
_____
*Assessor's Parcel No.*_____
(Please attach copy of a map or sketch showing well location relative to streets or other major landmarks.)

(3) NAME OF WELL DRILLING CONTRACTOR:_____
_____

(4) TYPE OF WORK:
Deepening ( ) Modify Perforations ( ) Increase Yield ( )
Reconditioning ( ) Other ( )_____

(5) PROPOSED USE:
Municipal ( ) Irrigation ( )
Domestic ( ) Industrial ( )
Water Quality Cleanup ( )
Other ( )_____

(6) DRILLING EQUIPMENT:
Rotary ( )
Cable ( )
Other ( )

(7A) CASING INSTALLED (existing):
STEEL ( ) PLASTIC ( )
OTHER ( )

Gravel Packed:
Yes ( ) No ( ) Size_____

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	Packed From ft.	Packed To ft.

Size of shoe or well ring:_____
Describe joint_____

(7B) CASING INSTALLED (proposed):
STEEL ( ) PLASTIC ( )
OTHER ( )

Gravel Packed:
Yes ( ) No ( ) Size_____

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	Packed From ft.	Packed To ft.

Size of shoe or well ring:_____
Describe joint_____

(8A) PERFORATIONS OR SCREEN (existing):
Type of perforation or size of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Slot Size

(8B) PERFORATIONS OR SCREEN (proposed):
Type of perforation or size of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Slot Size

(9A) EXISTING CONSTRUCTION:
Was a surface sanitary seal provided? Yes ( ) No ( )
To what depth? _____ft.
Were any strata sealed against pollution? Yes ( ) No ( )
If yes, note depth of strata
from _____ft. to _____ft.
from _____ft. to _____ft.
Method of sealing _____

(9B) PROPOSED CONSTRUCTION:
Will a surface sanitary seal be provided? Yes ( ) No ( )
To what depth? _____ft.
Is any strata anticipated to be sealed against pollution? Yes ( ) No ( )
If yes, note depth of strata
from _____ft. to _____ft.
from _____ft. to _____ft.
Method of sealing _____

(10) WELL TESTS:
Was a pump test made? Yes ( ) No ( ) (If yes, attach most recent copy)
_____gal. min. with _____ft. drawdown after _____hrs.
Temperature of water_____
Was a chemical analysis made? Yes ( ) No ( )
Was electric log made of well? Yes ( ) No ( ) (If yes, attach most recent copy)

(11) WELL LOG:
Total depth_____ft. Depth of completed well_____ft.
Formation: Describe by color, character, size of material and structure_____ft. to_____ft.
(Please attach copy of existing well log. If well log is not available, describe well lithology in space provided or on attached page.)
_____
_____

(12) HISTORIC WELL MODIFICATIONS:
(On an attached page, please provide a chronology of all historic well modifications which may have affected well yield or water quality.)

(13A) EXISTING WELL PUMP DATA:
A. Pump Type:
Electric ( ) Natural Gas ( ) Other ( )
Propane ( ) Diesel ( )
B. Pump Performance:
Horsepower_____(GPM)_____
Design Efficiency_____

(13B) PROPOSED WELL PUMP DATA:
A. Pump Type:
Electric ( ) Natural Gas ( ) Other ( )
Propane ( ) Diesel ( )
B. Pump Performance:
Horsepower_____(GPM)_____
Design Efficiency_____

(14) Please provide copy of County of Los Angeles permits and State Department of Water Resources Water Well Driller Reports and any other permits for modification of an existing well upon completion of modification of well.

(15) Please provide Watermaster with copies of all feasibility studies, alternative water supply sources, water quality studies or other reports which validate the Applicant's need to modify this well. Applicant must provide supporting data to show compliance with the requirements of Section 28 with particular reference to Section 28(e) of Watermaster's Rules and Regulations.

I hereby agree to comply with all regulations of the Main San Gabriel Basin Watermaster pertaining to well construction, operation, repair, modification, destruction and inactivation. The Applicant will furnish the Watermaster a complete well log upon completion of well modification.

Submitted for Applicant by:_____

Signature:_____

Title:_____

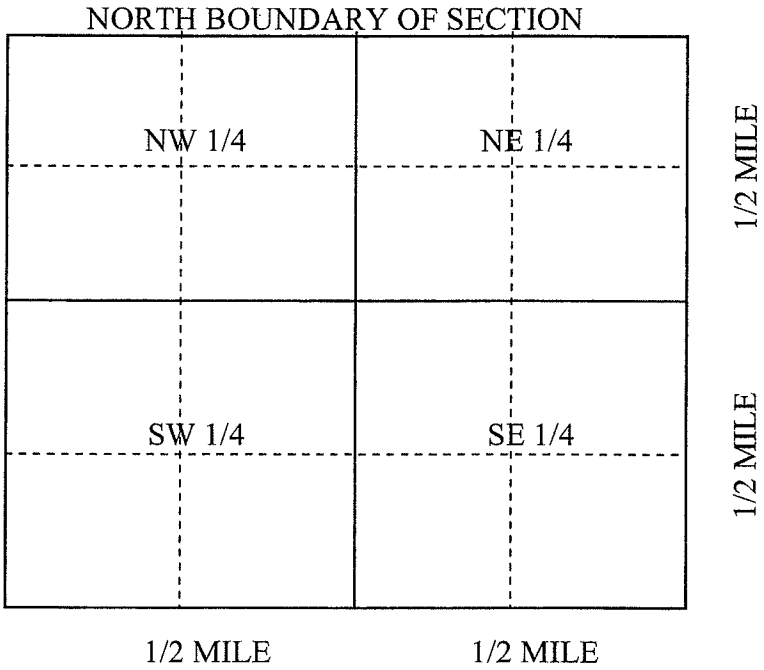
Date:_____

Date Received by Watermaster:_____
Watermaster Action:
Approved ( ) Denied ( )
Date of Action:_____
Permit Number:_____
By:_____
(Name)
_____
(Title)

Form No. RR 28-03 – 08/00

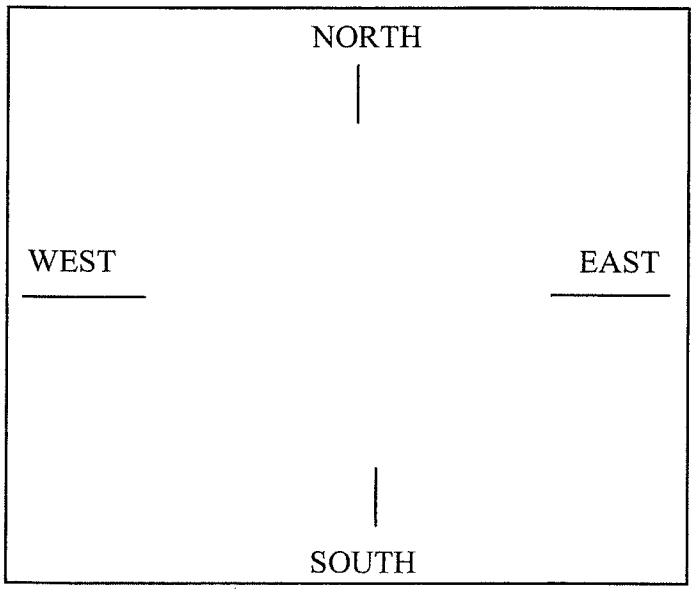
EXHIBIT I-1

WELL LOCATION SKETCH



Township _____ **N/S**
Range_____**E/W**
Section No._____

A. Location of well in sectionized areas. Sketch roads, railroads, streams, or other features as necessary.



B. Location of well in areas not sectionized. Sketch roads, railroads, streams, or other features as necessary. Indicate distances.

EXHIBIT I-2

Mailing Address:
725 North Azusa Ave.
Azusa, CA 91702

MAIN SAN GABRIEL BASIN WATERMASTER

SUPERIOR COURT CASE NO. 924128-LOS ANGELES COUNTY

_____ (State Well Number)

_____ (Recordation Number)

_____ (Owner's Designation)

APPLICATION TO DESTROY WELL

(1) APPLICANT:
Name_____
Address_____
_____

(2) LOCATION OF WELL:
*Well Address:*_____
*Township, Range, and Section*_____
*Thomas Brothers Guide (Please indicate year, page number and coordinates.)*_____
_____
*Assessor's Parcel No.*_____
(Please attach copy of a map or sketch showing well location relative to streets or other major landmarks.)

(3) NAME OF WELL DRILLING CONTRACTOR:_____
_____

(4) PURPOSE FOR DESTROYING WELL
Water Quality ( ) Physical ( )
Other ( )_____

(5) CURRENT USE:
Municipal ( ) Irrigation ( )
Domestic ( ) Industrial ( )
Water Quality Cleanup ( )
Other ( )_____

(6) EXISTING CASING INSTALLED:
STEEL ( ) PLASTIC ( )
OTHER ( )

Gravel Packed:
Yes ( ) No ( ) Size_____

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	Packed From ft.	Packed To ft.

Size of shoe or well ring:
_____
Describe joint_____

(7) EXISTING PERFORATIONS OR SCREEN:
Type of perforation or size of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Slot Size

(8) CONSTRUCTION:
Was a surface sanitary seal provided? Yes ( ) No ( )
To what depth? _____ft.
Were any strata sealed against pollution? Yes ( ) No ( )
If yes, note depth of strata
from _____ft. to _____ft.
from _____ft. to _____ft.
Method of sealing_____

(9) WELL LOG: (Please provide a copy of well log.)
Total depth _____ft. Depth of completed well _____ft.
Formation: *Describe by color, character, size of material and structure if well log cannot be provided.*
_____ft. to _____ft._____
_____

(10) METHOD OF DESTROYING: (Please provide an explanation of how the well is to be destroyed including drawings showing the proposed method of destroying. Please provide copy of County of Los Angeles permits and State Department of Water Resources Water Well Drillers reports and any other permits for destruction of well following destruction of the well.)

_____
_____
_____
_____
_____

I hereby agree to comply with all regulations of the Main San Gabriel Basin Watermaster pertaining to well construction, operation, repair, modification, destruction and inactivation. The Applicant will notify the Watermaster upon completion of well destruction.

Submitted for Applicant by:_____
_____

Signature:_____

Title:_____

Date:_____

Date Received by Watermaster:_____

Watermaster Action:
Approved ( ) Denied ( )

Date of Action:_____

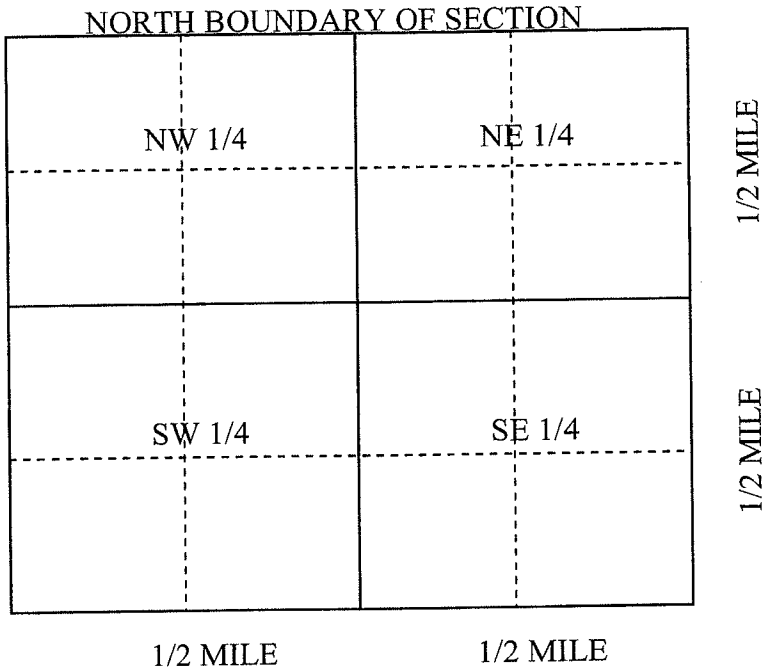
Permit Number:_____

By:_____
(Name)
_____
(Title)

EXHIBIT J-1

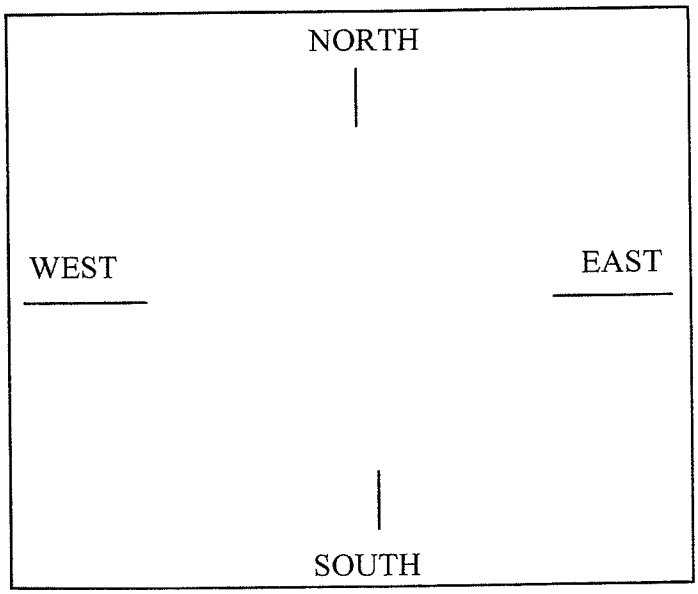
Form No. RR 28-03 – 08/00

WELL LOCATION SKETCH



Township _____ **N/S**
Range _____ **E/W**
Section No. _____

A. Location of well in sectionized areas. Sketch roads, railroads, streams, or other features as necessary.



B. Location of well in areas not sectionized. Sketch roads, railroads, streams, or other features as necessary. Indicate distances.

Mailing Address:
725 North Azusa Ave.
Azusa, CA 91702

MAIN SAN GABRIEL BASIN WATERMASTER

SUPERIOR COURT CASE NO. 924128-LOS ANGELES COUNTY

APPLICATION FOR WATER TREATMENT FACILITY

(1) APPLICANT:
Name_____
Address_____
_____

(2) LOCATION OF TREATMENT FACILITY:
Address_____
Thomas Brothers Guide (Please indicate year, page number and coordinates.)_____
_____

(Please include a map showing the location of the treatment facility relative to streets, buildings, water system facilities and other points of reference.)

(3) (A) NAME OF WATER TREATMENT FACILITY CONTRACTOR:_____
(B) NAME OF DESIGN ENGINEER AND STATE REGISTRATION NUMBER:_____

(4) PROPOSED ACTION AT TREATMENT FACILITY
Construction ( ) Modification ( ) Removal ( )
Destruction ( ) Other ( )

(5) DESCRIPTION OF FACILITY:
(A) Type of treatment:
Volatile Organic Chemical ( ) Nitrate ( ) Other ( )
(B) Please describe the treatment process to be used at the proposed treatment plant.
_____
_____
_____

(C) Please list, by Owner Designation, all wells to be treated:
_____
_____
_____

(6) ANTICIPATED TREATMENT FACILITY CAPACITY:
_____Gallons Per Minute
_____Acre-feet Per Year

(7) EXPECTED CONCENTRATION OF CONTAMINANTS:

Contaminant	Influent Concentration (Parts per Billion)	Effluent Concentration (Parts per Billion)	Contaminant Removal Rate (Percent)
Trichloroethylene (TCE)	_____	_____	_____
Tetrachloroethylene (PCE)	_____	_____	_____
1,1,1-Trichloroethane (1,1,1-TCA)	_____	_____	_____
Carbon Tetrachloride (CTC)	_____	_____	_____
1,1-Dichloroethylene (1,1-DCE)	_____	_____	_____
1,1-Dichloroethane (1,1-DCA)	_____	_____	_____
1,2-Dichloroethane (1,2-DCA)	_____	_____	_____
Others:			
_____	_____	_____	_____
_____	_____	_____	_____

(8) DISPOSITION OF ALL TREATED WATER:
(Please describe disposition of all treated water, and the corresponding annual amount of discharge.)
_____
_____

(9) INITAIL START-UP DATE:
_____

(10) EXPECTED OPERATING SCHEDULE:
(A) Daily schedule_____
(*B*) Number of days each month (*Please specify if operating schedule varies month-to-month)*
_____
_____

(11) EXPECTED COSTS
(A) Capital cost:$_____
(B) Operation and maintenance:$_____/AF.

(12) REGULATORY PERMITS: Please describe all necessary permits and/or all permits for which you have applied or have received from all regulatory agencies with regard to the proposed treatment facility. Please supply to Watermaster, copies of all environmental documents required under the California Environmental Quality Act and/or the National Environmental Protection Act.

(13) Applicant acknowledges it will comply with all portions of Section 28 of Watermaster's Rules and Regulations pertaining to quarterly data submittal, for treatment plant operation, to Watermaster. Specifically, at least the following data shall be provided on a quarterly basis:

- Name or other designation of treatment facility;
- Quantity of water treated during quarter;
- Quantity of each contaminant removed;
- Quality of water before treatment, at beginning and end of each quarter;
- Quality of water after treatment, at beginning and end of each quarter; and
- Operation and maintenance costs for each quarter.

(14) Please provide Watermaster with copies of all feasibility studies, alternative water supply sources, water quality studies or other reports which validate the Applicant's need to install a water treatment facility.

Applicant must provide supporting data to show compliance with the requirements of Section 28 with particular reference to Section 28(h) of Watermaster's Rules and Regulations.

I hereby agree to comply with all regulations of the Main San Gabriel Basin Watermaster pertaining to treatment plant construction, operation, repair, modification, destruction and inactivation.

Submitted for Applicant by:_____

Signature:_____

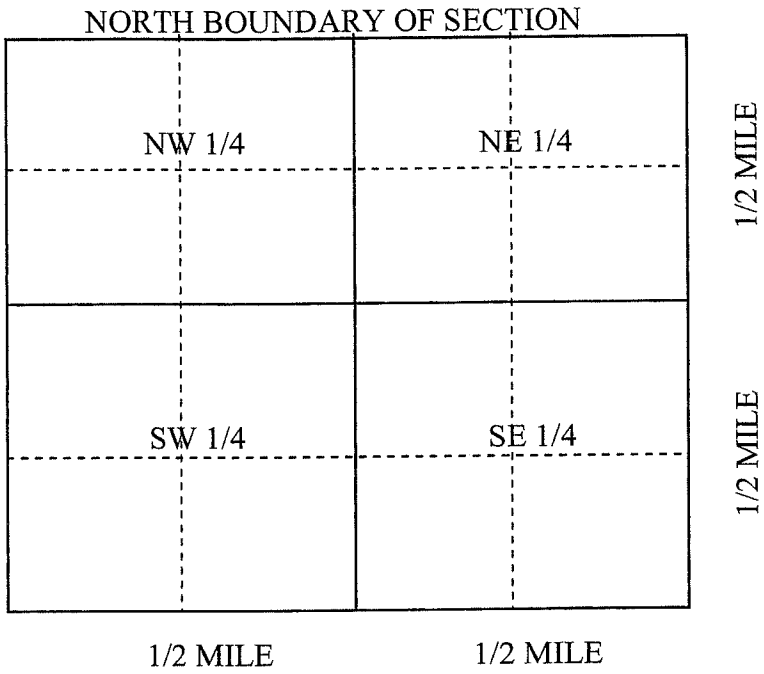
Title:_____

Date:_____

Date Received by Watermaster:_____
Watermaster Action:
Approved ( ) Denied ( )
Date of Action:_____
Permit Number:_____
By:_____
(Name)
_____
(Title)

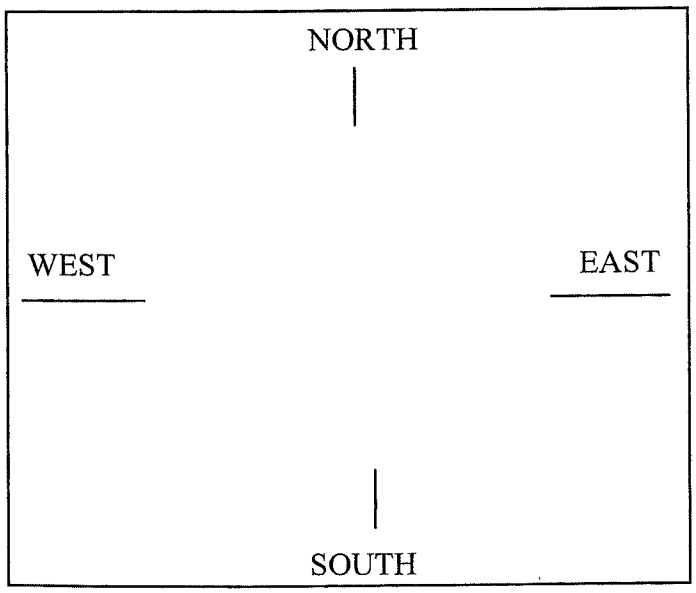
EXHIBIT K-1

WELL LOCATION SKETCH



Township _____ **N/S**
Range_____**E/W**
Section No._____

A. Location of well in sectionized areas. Sketch roads, railroads, streams, or other features as necessary.



B. Location of well in areas not sectionized. Sketch roads, railroads, streams, or other features as necessary. Indicate distances.

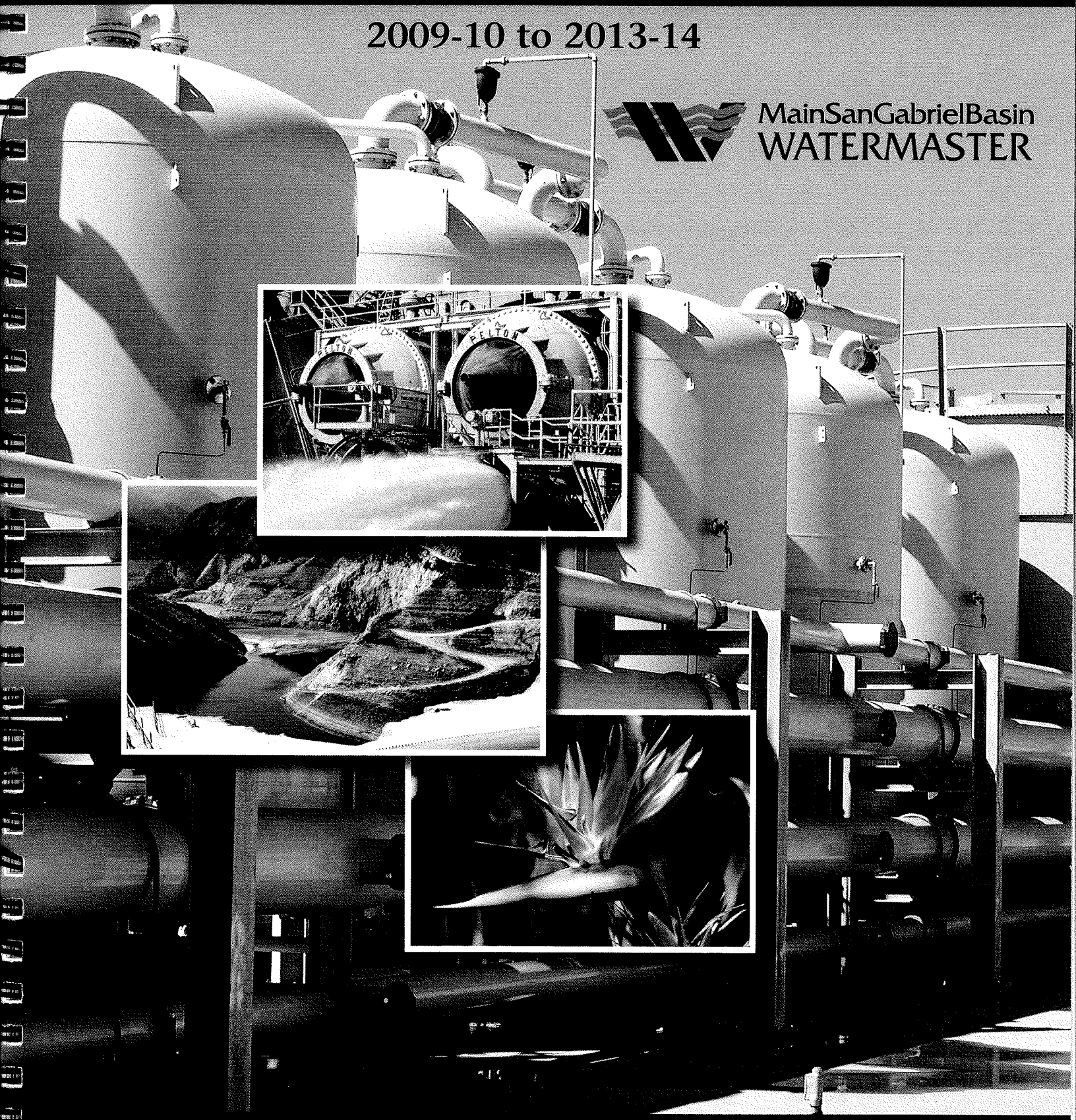
APPENDIX J

MAIN SAN GABRIEL BASIN WATERMASTER FIVE-YEAR WATER QUALITY AND SUPPLY PLAN

Five-Year Water Quality and Supply Plan

2009-10 to 2013-14

MainSanGabrielBasin
WATERMASTER



Five-Year Water Quality and Supply Plan

November 2009

MainSanGabrielBasin
WATERMASTER

Telephone (626) 815-1300 • Fax (626) 815-1303
725 North Azusa Avenue • Azusa, California 91702
www.watermaster.org

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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 how Watermaster 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. coordinate and manage the design, permitting, construction, and performance evaluation of the Baldwin Park Operable Unit (BPOU) cleanup and water supply plan.

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 agricultural operations that infiltrated nitrates into the groundwater. Cleanup efforts for industrial contamination were undertaken at the local, state, and federal levels.

WATERMASTER RECEIVES WATER QUALITY RESPONSIBILITIES

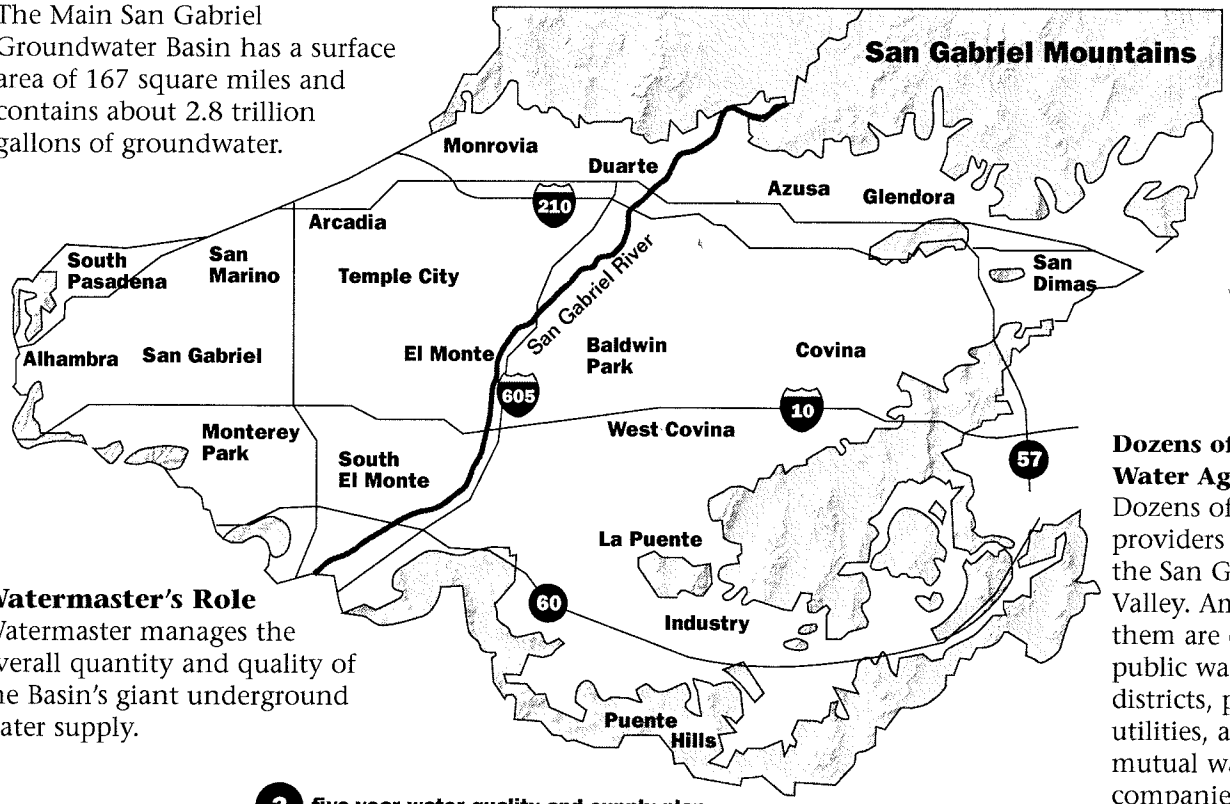
By 1989, local water agencies adopted a joint resolution regarding water quality issues that stated that Watermaster should coordinate local activities aimed at preserving and restoring the quality of groundwater in the Basin. The joint resolution also called for a cleanup plan.

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

Precious Underground Water Supply
The Main San Gabriel Basin provides up to 90 billion gallons of groundwater annually, enough to meet 80 percent or more of San Gabriel Valley's 1.4 million residents' demand for water.

2.8 Trillion Gallons
The Main San Gabriel Groundwater Basin has a surface area of 167 square miles and contains about 2.8 trillion gallons of groundwater.



Watermaster's Role
Watermaster manages the overall quantity and quality of the Basin's giant underground water supply.

Dozens of Water Agencies
Dozens of water providers serve the San Gabriel Valley. Among them are cities, public water districts, private utilities, and mutual water companies.

CURRENT WATER SUPPLY CONDITIONS

Rainfall in the San Gabriel Valley averaged about 14 inches during 2008-09, or about 76 percent of the long-term average. As a result of the below average rainfall, the groundwater level decreased by about seven feet during fiscal year 2008-09.

WATER SUPPLY INFLOWS DURING 2008-09

VALLEY RECEIVES BELOW AVERAGE RAINFALL

In 2008-09, the San Gabriel Valley received about 14 inches of rain, which is about 76 percent of the long-term average of 18.52 inches.

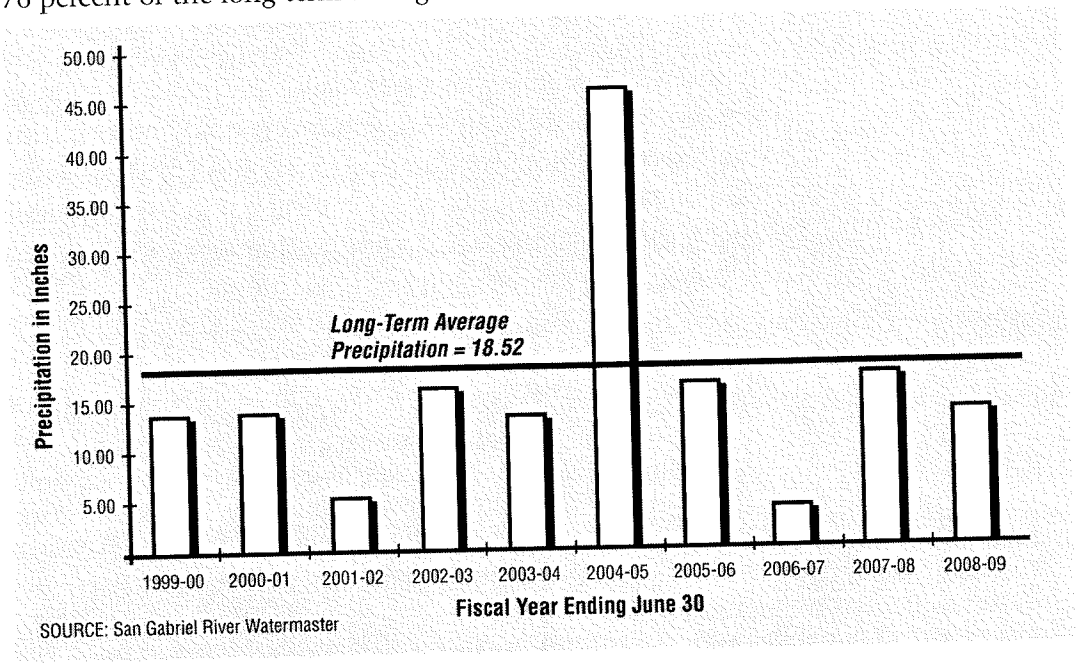


Figure 2. AVERAGE RAINFALL DURING THE LAST TEN YEARS
Rainfall in 2008-09 was about 14 inches. Average precipitation in the Main San Gabriel Basin for the 10-year period from 1999-00 to 2008-09 was 16.7 inches. The long-term average rainfall is 18.52 inches. The rainfall total is made up of an average taken from four stations located in San Dimas, Diamond Bar, El Monte, and Pasadena.

LOCAL STORMWATER CAPTURE 30 PERCENT OF AVERAGE

During fiscal year 2008-09 rainfall was about 76 percent of normal and contributed to runoff of about 70,000 acre-feet, which is about 67 percent of normal. Fiscal year 2008-09 represents the fourth consecutive year of below average rainfall and the third consecutive year of below average storm water runoff. As a result, conservation of local storm runoff between 2006-07 and 2008-09 totaled about 150,000 acre-feet, while the long-term average would have represented about 315,000 acre-feet. The deficit of about 165,000 acre-feet (315,000 - 150,000) represents about 21 feet of groundwater elevation at the Baldwin Park Key Well. Had rainfall and local storm runoff been near normal, the Baldwin Park Key Well groundwater level as of June 30, 2009 could have been about 21 feet higher or about elevation 216 feet instead of the recorded elevation of about 195 feet.

BASIN DEMANDS BELOW AVERAGE

The total Main San Gabriel Basin water demand consists of groundwater production, treated local runoff, and treated imported water deliveries. During fiscal year 2008-09 total water demand was about 272,000 acre-feet consisting of about 236,800 acre-feet of groundwater production, 13,700 acre-feet of treated local surface water and 21,500 acre-feet of treated imported water. The total quantity is about 6 percent lower than the 10-year average of about 290,000 acre-feet despite having below average rainfall in 2008-09, which would tend to increase water demands. The reduction is a result of Watermaster's and others' efforts to promote and encourage water conservation. The Main San Gabriel Basin Watermaster annually establishes an Operating Safe Yield, which is based on prevailing hydrologic conditions in the San Gabriel Valley. Production in excess of the Operating Safe Yield is subject to an assessment used to purchase untreated imported water to replenish the Main San Gabriel Basin. Overproduction during fiscal year 2008-09 was 58,100 acre-feet, which is above the 10-year average of 43,900 acre-feet. Untreated replenishment water deliveries have not been made available by the Metropolitan Water District of Southern California (MWD) since May 2007. The lack of replenishment water combined with dry conditions created historic low water levels even with reduced production due to conservation efforts.

KEY WELL BELOW OPERATING RANGE

The Baldwin Park Key Well is used as the benchmark for determining the groundwater level for the entire Basin. Pursuant to the Judgment, Watermaster works to keep the Key Well water level between 200 feet and 250 feet to the extent possible. Below average rainfall over the past four years, 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 195.6 feet in June 2009. The below average rainfall of 14 inches during 2008-09 contributed to the continued decrease in the groundwater elevation at the Key Well to about 195.6 feet as of June 30, 2009, which is 4.4 feet below the bottom of the operating range.

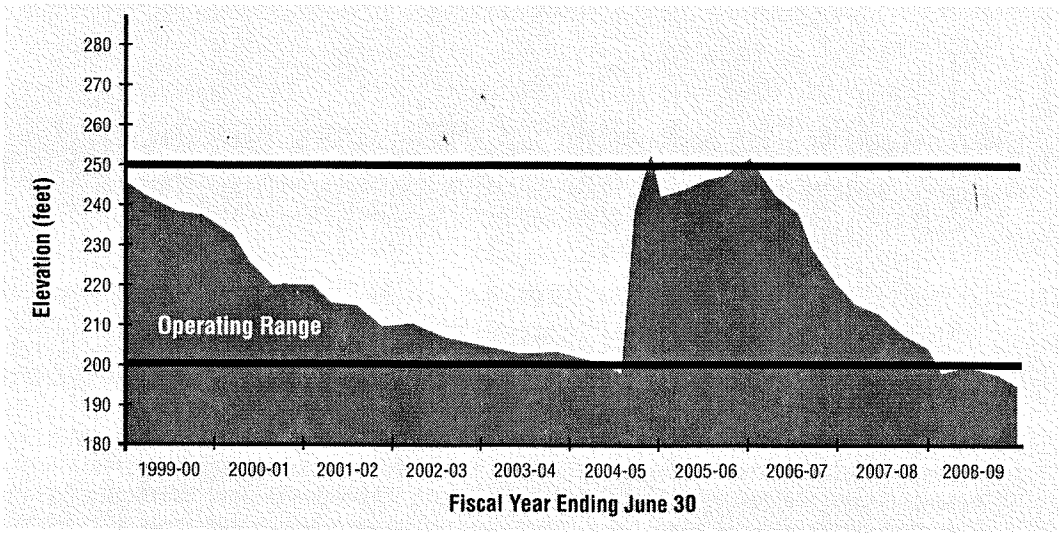


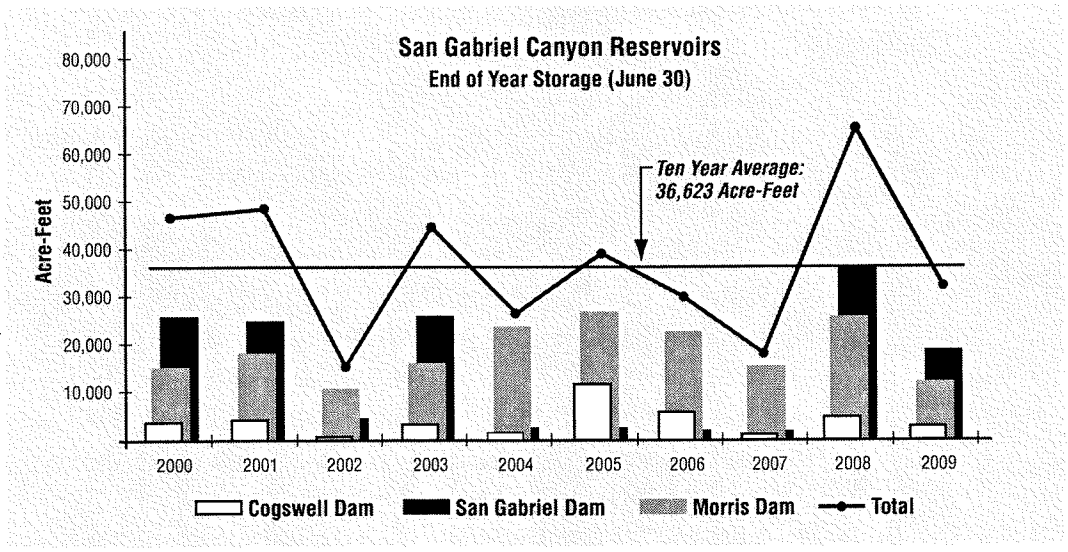
Figure 3. KEY WELL ELEVATIONS DURING THE LAST TEN YEARS
The groundwater elevation at the Key Well on June 30, 2009 was about 195.6 feet, which is below the bottom of the Basin's operating range of 200 to 250 feet.

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 2008-09 fiscal year, about 31,800 acre-feet of water was stored in these reservoirs. This is a decrease from the previous year and represents about 87 percent of the 10-year average of about 36,600 acre-feet of water in storage at the end of the fiscal year. In addition, about 70,000 acre-feet of local runoff was released from storage in local reservoirs for recharge into the groundwater basin during fiscal year 2008-09.

Total water stored in San Gabriel Canyon reservoirs at the end of the fiscal year was 31,800 acre-feet and is 87 percent of the 10-year average.

Figure 4. WATER STORED IN SAN GABRIEL CANYON RESERVOIRS



BASIN REPLENISHMENT ACTIVITIES

Basin management continues to encourage producers to maximize groundwater production instead of relying on treated imported water. 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. This practice takes advantage of historically lower cost water and allows water agencies to deliver untreated imported water on a flexible basis instead of requiring a continuous flow, as is the case of treated water demands. Currently, deliveries of untreated imported water for groundwater replenishment by MWD have been suspended. This suspension of deliveries has been in place since May 2007. MWD has indicated untreated imported water may be available in only three out to 10 years in the future. Watermaster is actively pursuing alternative means of Basin replenishment including:

- shifting groundwater production to treated imported water deliveries to reduce overproduction from the Basin;
- encouraging reduced groundwater production through conservation efforts;

- securing alternative supplemental supplies including maximizing delivery of imported water from State Water Project contractors; and
- securing a firm supply of advanced treated recycled water.

PROJECTED GROUNDWATER DEMANDS

PRODUCER ESTIMATES

Section 28 requires that each Producer submit a report to Watermaster detailing its projected water supply and water production requirements over the following five years. Projections were received from 16 Producers, accounting for about 65 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 5 shows the total projected and historical groundwater production from the Basin since 2002-03.

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

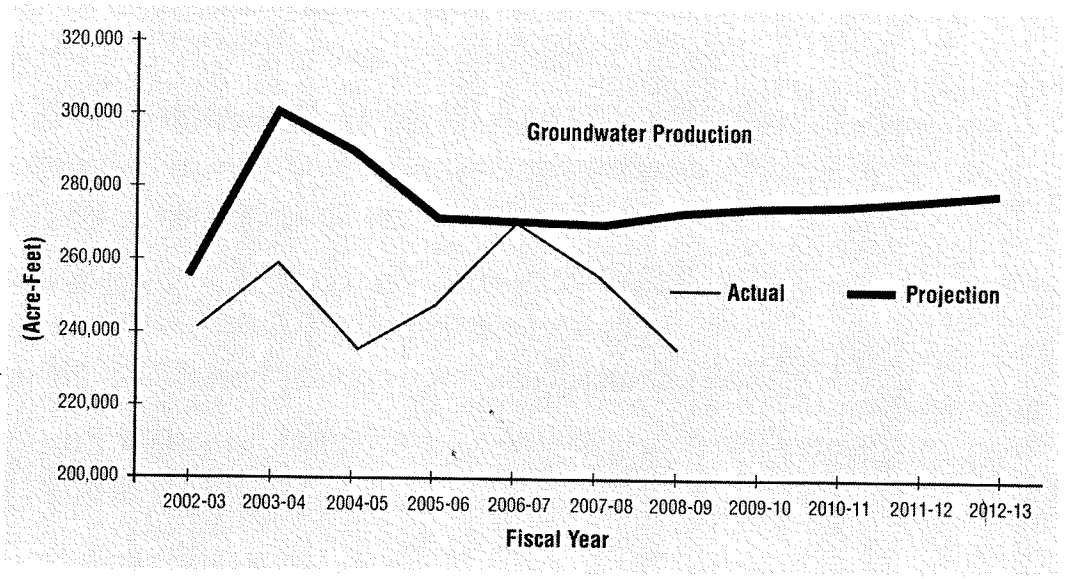


Figure 5. PROJECTED AND HISTORICAL WATER PRODUCTION
Total groundwater production for the 2008-09 fiscal year from the Basin was 236,800 acre-feet, which is lower than the previous year's production of 253,000 acre-feet. The decrease in groundwater production is due partially to Basin-wide water conservation.

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 been experiencing a gradual increase. The impacts of groundwater contamination since the 1980s had caused several water agencies to reduce groundwater production and temporarily increase reliance on treated imported water. In recent years, various groundwater production and treatment facilities have become operational, enabling water purveyors to resume use of groundwater.

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. This policy of remediation and reuse both preserves a valuable resource and reduces the overall cost of groundwater cleanup. Initially, a number of VOC treatment facilities were constructed, while excessive nitrate concentrations were blended down to acceptable levels. Since the detection of perchlorate and NDMA, Watermaster has been instrumental in the successful operation of treatment facilities to treat VOCs, perchlorate, and NDMA.

While only present in limited parts of the Basin, these chemicals pose difficult challenges to water Producers. Watermaster responded vigorously by working closely with the local water community to sponsor research, as well as to design, fund, and construct cleanup projects ahead of the USEPA and the firms named as responsible for the contamination. Watermaster also led negotiations that resulted in the Baldwin Park Operable Unit (BPOU) Project Agreement, including an initial reimbursement for groundwater cleanup costs from certain parties responsible for the contamination. Under the 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.

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 2008-09, 30 plants treated about 26 billion gallons of VOC-contaminated water. Water containing nitrates above the Maximum Contaminant Level (MCL) is either blended with other sources or not used.

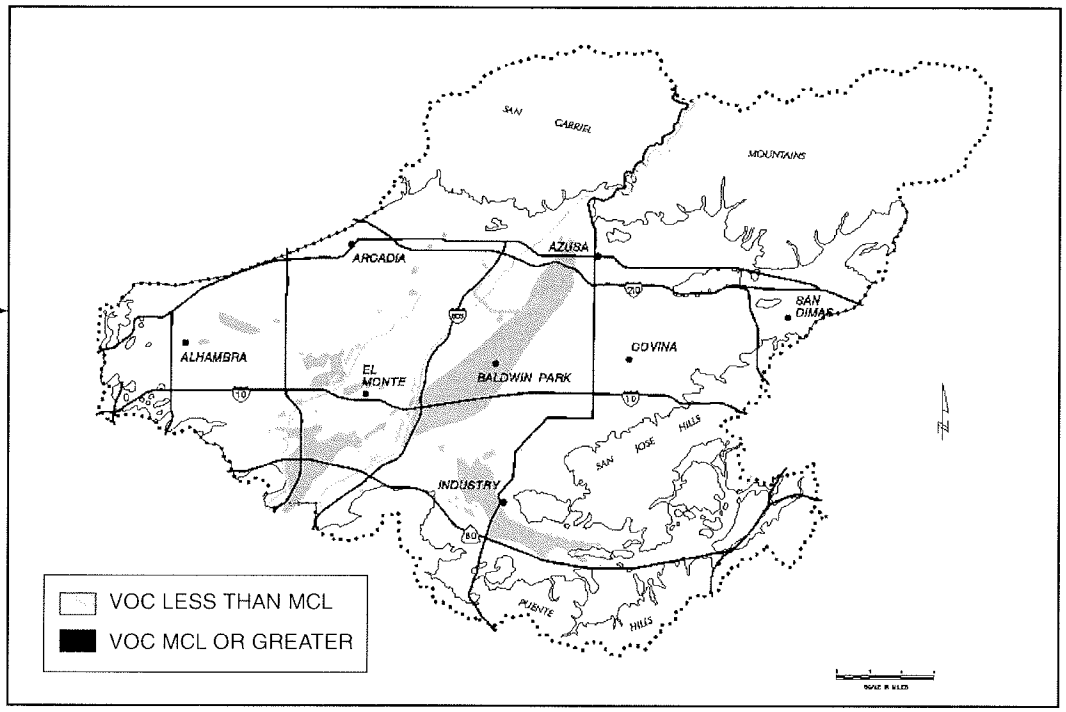
Note in Figure 6 that although VOC contamination is substantial, it is centered in just a few areas, leaving a good portion of the Basin unaffected. The same is true for nitrates, which have the highest concentrations in the eastern portion of the Basin, away from the most productive pumping areas (see Figure 7).

PERCHLORATE

In January 2002, California Department of Public Health (CDPH), formerly 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. CDPH 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 technology to remove perchlorate from drinking water; ion exchange technology is now operational at five sites in the BPOU and at two facilities in other parts of the Basin.

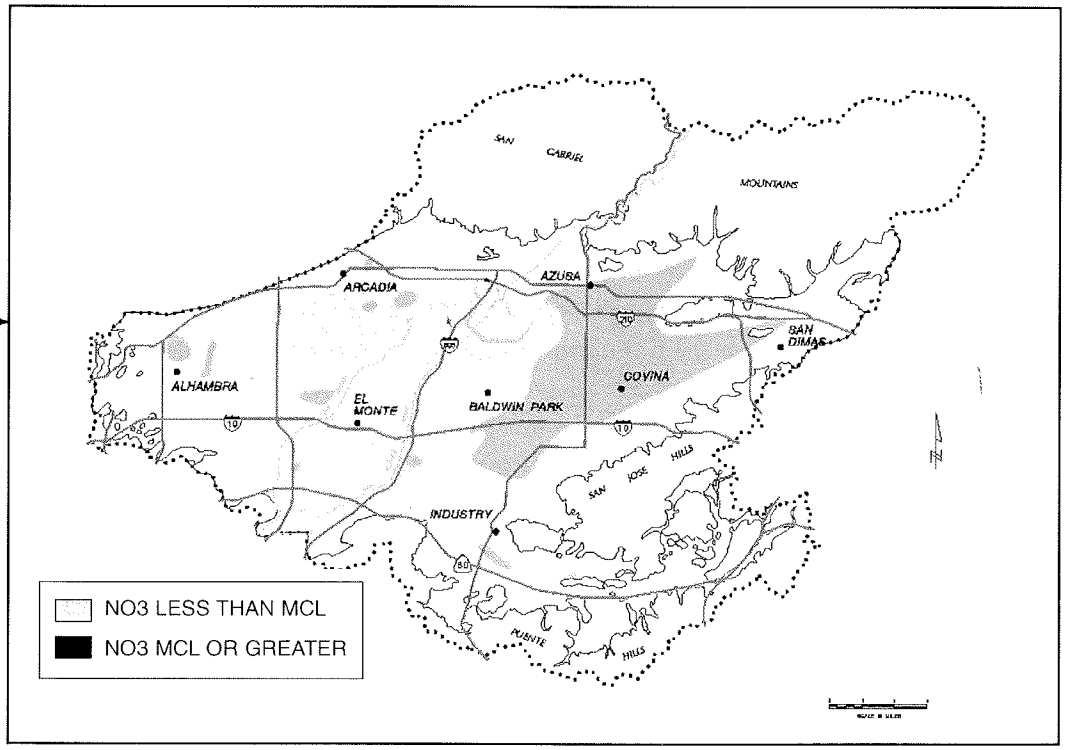
Extensive cleanup programs are underway in the areas affected by VOC contamination. Because the main plumes of contamination are centered in just a few areas, much of the Basin remains unaffected.

Figure 6. VOLATILE ORGANIC COMPOUND LEVELS IN GROUNDWATER THROUGHOUT THE BASIN



Nitrate (NO3) contamination is highest in the eastern portion of the Basin, away from the San Gabriel River, the area of most intensive groundwater pumping.

Figure 7. NITRATE LEVELS IN GROUNDWATER THROUGHOUT THE BASIN



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. CDPH 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 2008-09.

1,2,3-TRICHLOROPROPANE

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, CDPH indicated 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. That treatment facility was operational during fiscal year 2008-09.

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 reaches 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 prepare plans to construct treatment facilities, as needed. (See Figures 8a, 8b and 8c in Appendix F).

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, has worked to develop the expertise, financing and treatment technologies to effectively address Basinwide cleanup of VOCs.

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.

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

This report outlines a combined cleanup and water supply plan for 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.

GROUNDWATER MONITORING PROGRAMS

Monitoring involves measuring groundwater levels, groundwater quality, and groundwater flow. Watermaster continuously refines its understanding of the groundwater Basin to increase 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 provide 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 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 nine primary wells;
- gathering semi-annual measurements of water levels in 170 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; and
- preparing semi-annual groundwater contour maps of the entire Basin.

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 and nitrates. The frequency of BGWQMP sampling complements 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.

CONTINUE TITLE 22 WATER QUALITY TESTING

Watermaster continues to perform CDPH-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.

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 2008-09 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 2013-14. These simulations indicate that the estimated increase in groundwater production during the next five years 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,

Simulations of the direction of groundwater flow in 2008-09 and projections for 2013-14 show that the estimated increase in groundwater pumping during this period would not significantly change the overall direction of Basin groundwater movement.

exiting through Whittier Narrows. The simulation for 2013-14 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 CDPH-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 particularly from USEPA mandated cleanup projects and managed by Watermaster helps to control and contain contaminant migration.

Groundwater quality data collected during 2008-09 and projected quality data for 2013-14 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 9 and 10 in Appendix G).

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 such that treated water is retained In the Basin to well water demands and providing assurance 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, Puente Valley, El Monte, 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.

With USEPA plans generally in place, Watermaster is working with others to ensure cleanup plans also address local water supply needs.

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 to address the contamination and to implement the cleanup plans. Wells that pump to an existing or planned treatment facility are shown in bold.

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 12). The contamination has primarily resulted from 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 disposing of it to storm drains.

Figure 11. LOCATION MAP OF USEPA OPERABLE UNITS

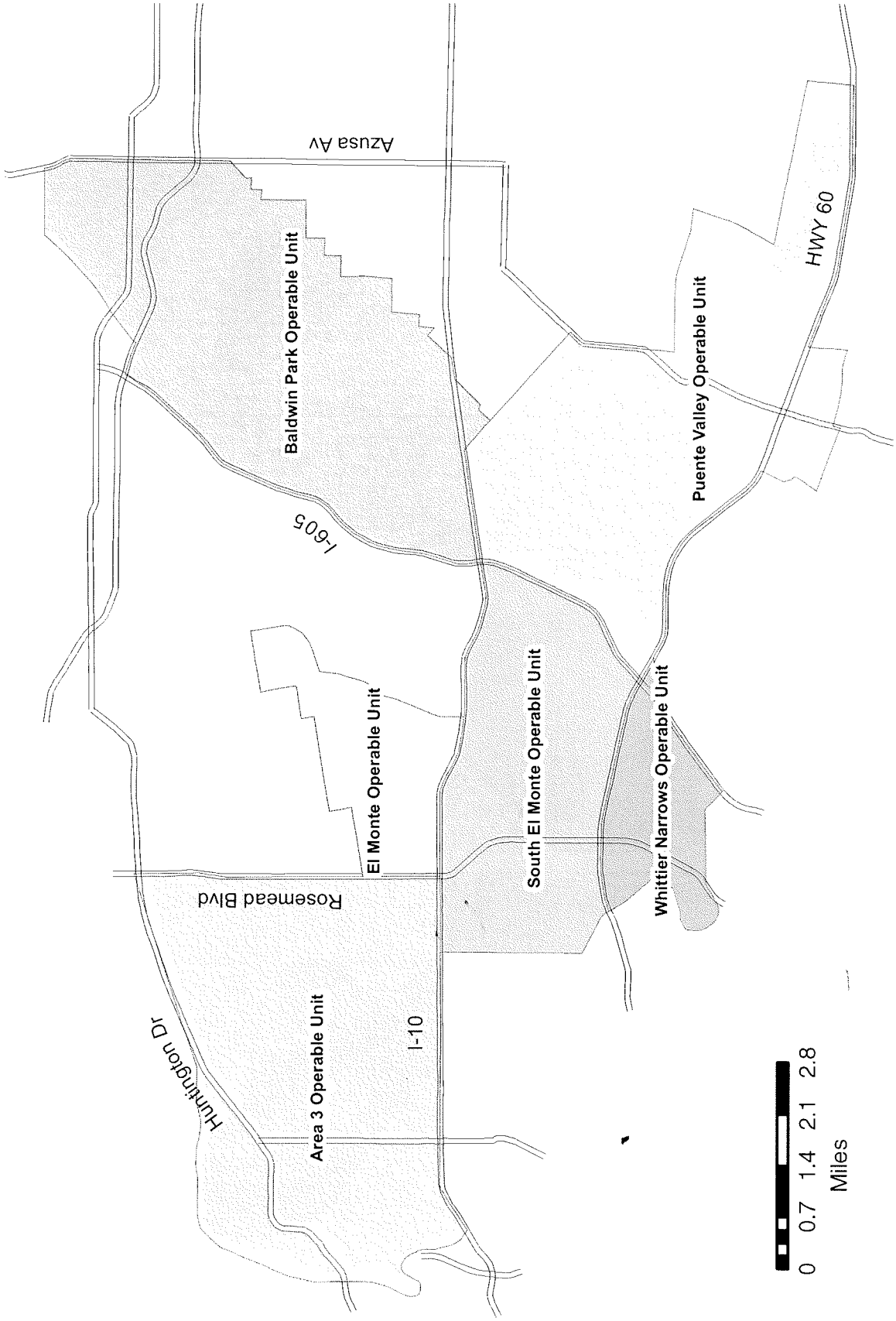


Figure 12. VOC PLUME MAP IN BPOU

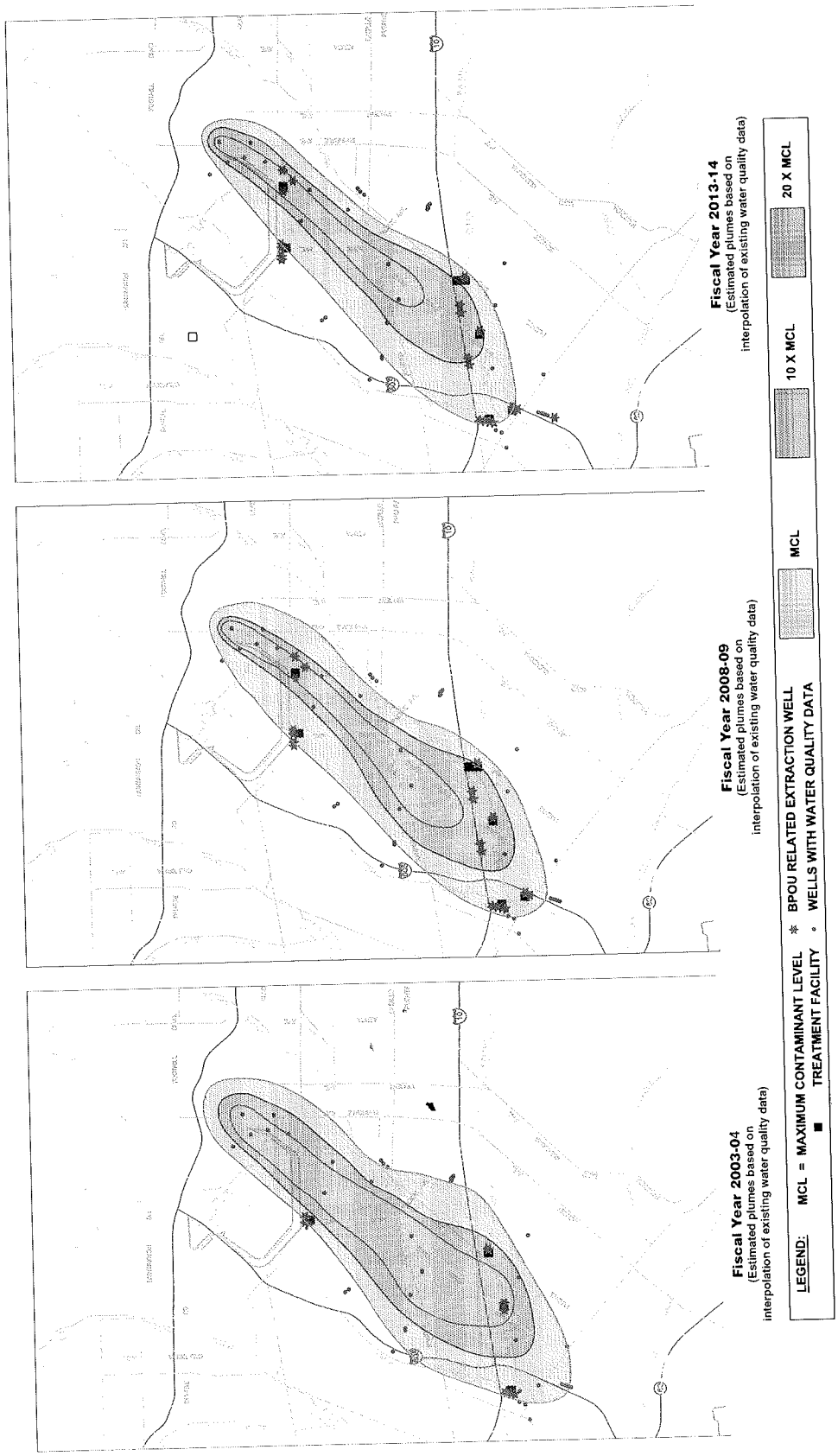


Figure 13. PERCHLORATE PLUME MAP IN BPOU

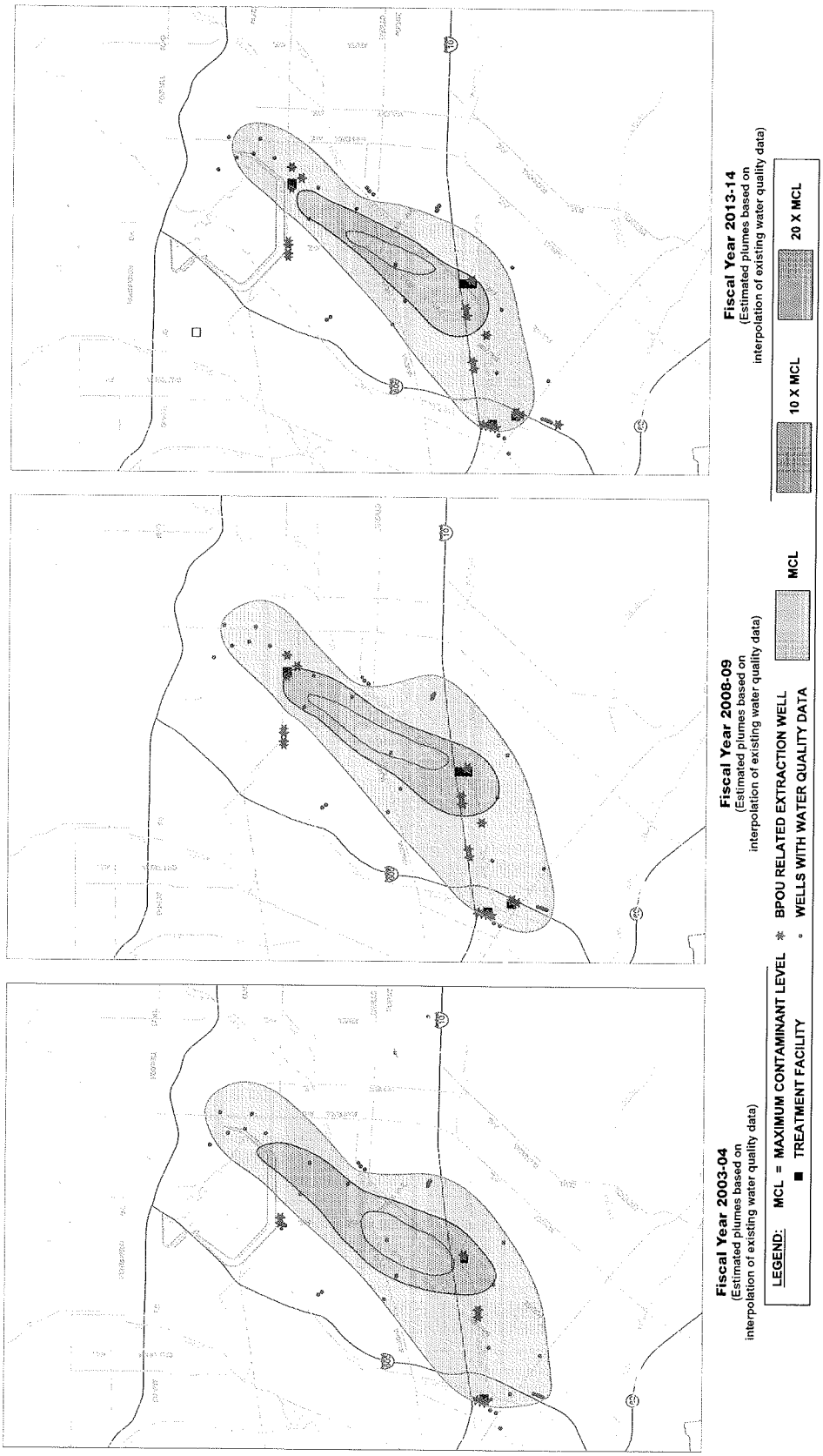


Figure 14. LOCATION MAP OF BPOU

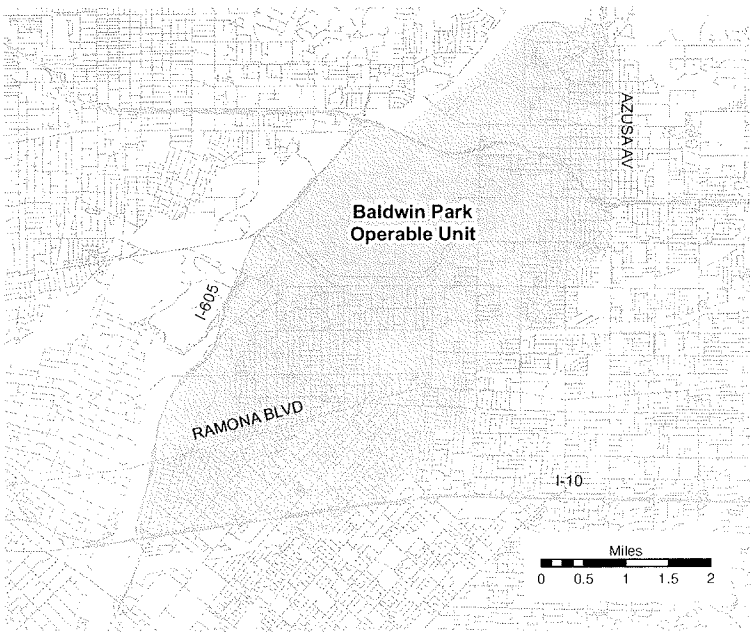


Figure 15. LOCATION MAP OF SEMOU

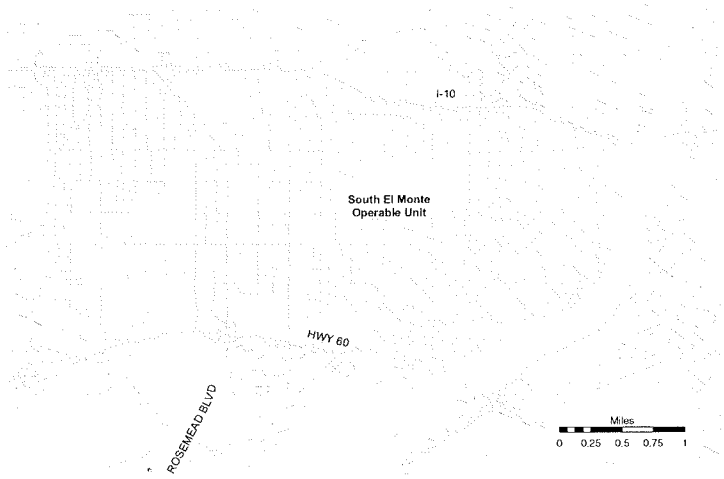


Figure 16. LOCATION MAP OF EMOU

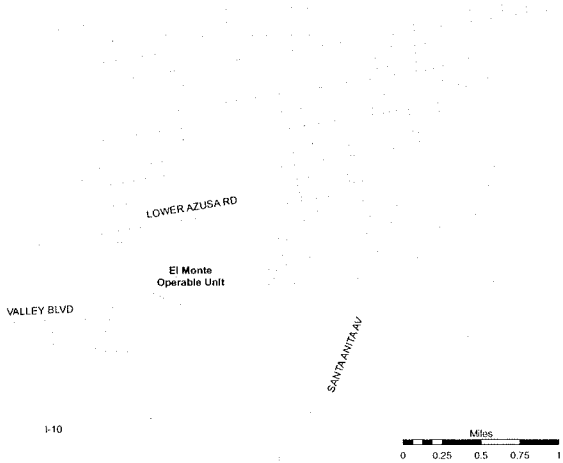


Figure 17. LOCATION MAP OF PVOU

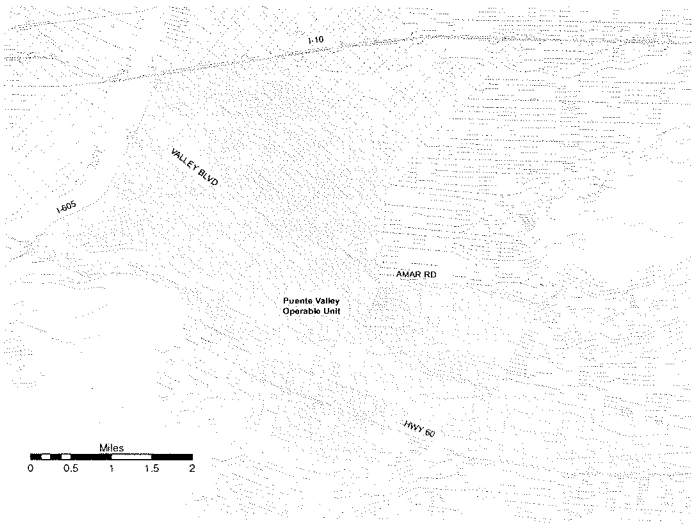


Figure 18. LOCATION MAP OF WNOU

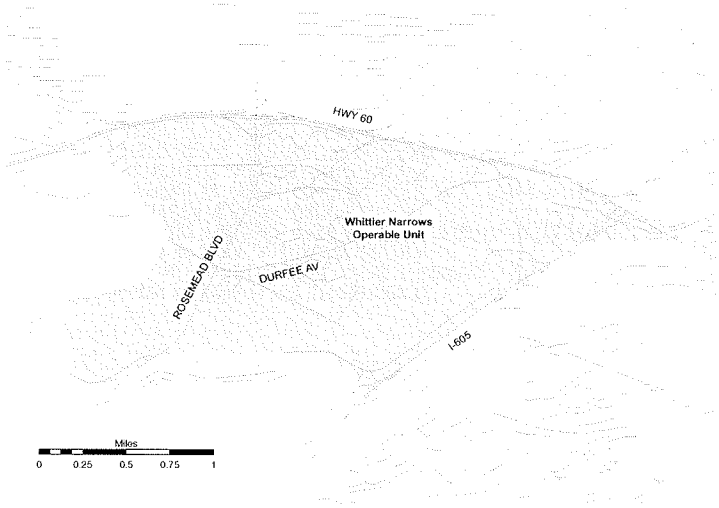
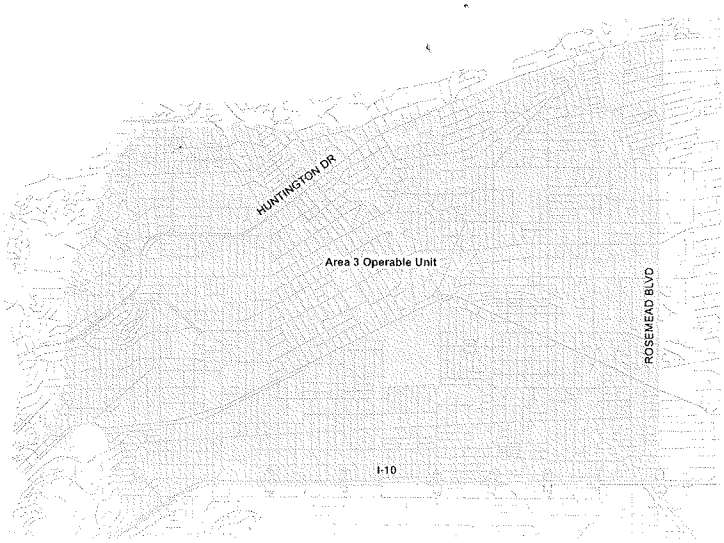


Figure 19. LOCATION MAP OF AREA 3



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 will provide funding to operate the USEPA-required BPOU cleanup facilities for about 15 years. Several water purveyors own and operate the facilities and use the highly treated water in their water systems. The San Gabriel Basin Water Quality Authority (WQA) has obtained outside funds to help construct necessary treatment facilities, extraction wells and pipelines.

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 Figure 12.

VCWD PROJECT

In the northerly portion of the BPOU, the VCWD Project consists of three extraction wells, including two new 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 will use the remaining portion of the treated water. The VCWD Project began operation for contamination cleanup in 2006 and received its CDPH operating permit in July 2007 to provide potable water to customers, and is operational. Since operation began in 2006, the VCWD treatment facility has treated about 25,500 acre-feet and has removed about 14,100 pounds of contaminants.

VCWD and its BPOU partners are coordinating the construction of a new ion exchange facility that will remove perchlorate more cost effectively. Construction and startup testing of the new ion exchange facility is anticipated to be completed during fiscal year 2009-10 while 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 CDPH 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 39,000 acre-feet (including prior operations with only VOC treatment) and removed about 7,900 pounds of contaminants.

During fiscal year 2008-09, LPVCWD constructed a new ion exchange facility that will remove perchlorate more cost effectively. The ion exchange facility operational testing, CDPH permitting and full scale operation for potable use is anticipated to occur during fiscal year 2009-2010.

SGVWC B6 PROJECT

The SGVWC B6 project is permitted by CDPH and has been operational since July 2005. The B6 project consists of four new extraction wells and a centralized treatment facility that treats up to 7,800 gpm (average annual rate of 7,000 gpm). The treatment 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 61,000 acre-feet, (including prior operations with only VOC treatment), and removed about 9,100 pounds of contaminants.

The BPOU project partners are coordinating the construction of a new ion exchange facility, similar to the ones at the LPVCWD project and the VCWD Project. Construction of the new ion exchange facility began during fiscal year 2008-09 while the existing treatment facility continues to provide treated water for municipal use. Treatment facility operational testing, CDPH permitting and full scale operation for municipal use is anticipated to occur during fiscal year 2009-10.

SGVWC B5 PROJECT

The SGVWC B5 Project consists of one new extraction well along with two existing wells that will 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 will treat the contaminated water for VOCs, perchlorate, NDMA, and 1,4-dioxane. Following receipt of a permit from CDPH, the treated water will be provided to City of Industry customers (1,200 gpm) and the balance (6,600 gpm) provided to SGVWC customers. The SGVWC B5 Project was permitted by CDPH in fiscal year 2007-08. Since operation began in 2007 the SGVWC B5 treatment facility has treated about 18,700 acre-feet and has removed about 460 pounds of contaminants.

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 wellfield to remove VOCs, perchlorate and NDMA. Similarly, Watermaster has issued permits under its Section 28 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 12 shows the approximate geographic 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 in the future is also shown on Figure 12. The 2008-09 plume indicates the addition of supplemental treatment has enabled several VOC treatment facilities to resume operation, which has in turn, begun to control plume movement. It also indicates that, as a result of below average groundwater replenishment, groundwater flow has shifted VOC contamination to the west in the northwesterly portion of the plume. In the future, Watermaster anticipates the area of the VOC plume will begin to decrease, as shown on the 2013-14 plume. Similarly, Figure 13 shows the approximate geographic extent of perchlorate. The series of three plume characterizations and facility indicators show that in 2003-04 treatment existed at only one site. With the construction and operation of treatment facilities (2008-09), plume movement is expected to be controlled and, similar to VOCs, begin to decrease in the future (2013-14).

Watermaster will continue to coordinate BPOU cleanup activities among the various parties to the BPOU Project Agreement over the next 10 years, including 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

The South El Monte Operable Unit (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. Since 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 providing 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 VOC) 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. Future production primarily will be 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 upgradient of Wells No. 9, 12, and 15. Since the treatment facility began operation, over 27,200 acre-feet of water has been treated and about 3,500 pounds of contaminants removed from the groundwater.

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 CDPH in September 2006 and went on line in December 2006. Since the original VOC treatment facility operation, over 22,500 acre-feet of water has been treated and about 2,000 pounds of contaminants have been removed from the groundwater.

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 6,700 acre-feet of water and removed about 290 pounds of contaminants.

EL MONTE OPERABLE UNIT

The El Monte Operable Unit (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 in the south, Rosemead Boulevard in 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.

Westside Projects. On the Westside there are plans for cleanup contaminants occurring in the shallow aquifer. Watermaster is coordinating with the Westside entities to address the disposition of the treated water. 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 CDPH 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.

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 the 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

The Puente Valley Operable Unit (PVOU) lies in the southeastern portion of the Basin, essentially bounded by the 60 Freeway in the south, Azusa Avenue in the east, and the I-10 Freeway in 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.

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, Carrier Corporation and the Responsible Party to develop an agreement to allow production and discharge of the PVOU shallow zone water. The shallow zone project is currently anticipated to be operational during fiscal year 2010-11.

Intermediate Zone. The proposed location of the intermediate zone treatment facility is also shown on Figure 17. Watermaster is working with USEPA, PRPs 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. The intermediate zone project is currently anticipated to be operational during fiscal year 2010-11.

WHITTIER NARROWS OPERABLE UNIT

The USEPA has declared that 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. The total extractions are estimated to be about 11,000 gallons per minute (5,000 gpm shallow and 6,000 gpm intermediate zone).

Intermediate Zone Project. The City of Whittier has obtained a CDPH permit to use the 6,000 gpm of treated intermediate zone water for municipal use instead of producing water from its existing wells. Since production began in late 2005, about 16,500 acre-feet of groundwater has been treated and about 750 pounds of contaminants removed.

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 indicate the shallow zone contamination could be adequately contained at an extraction rate of 2,500 gpm. The production agreement between USEPA and Watermaster to pump and discharge shallow zone water expired as of June 30, 2007, and further shallow zone treatment was temporarily suspended while the parties worked to determine an acceptable and appropriate long-term use of the water. Following several meetings, Watermaster entered into a production agreement with USEPA and the County of Los Angeles. Treated shallow zone water is being discharged to Legg Lake. A portion of the treated water is reported by the County of Los Angeles to Watermaster as production and the balance of the treated water will flow out of Legg Lake and percolate into the Basin. The shallow zone wells resumed operation in March 2008.

Since production began at the WNOU facility, over 23,000 acre-feet of groundwater has been treated, and over 1,600 pounds of contaminants have been removed.

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). USEPA has installed five 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.

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 build 4 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 holding about 2.8 trillion gallons of water. Water enters the Basin from countless natural and man-made locations, and is extracted from 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 its 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.

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 Regional Board about sources of VOC contamination in the Basin as part of the Regional Board investigations of potential contaminated sites. The information includes a description of all potential sources of contamination investigated by the Regional Board, 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 Regional Board 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 2009-10 to 2013-14

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. Maps Showing Wells Vulnerable to VOC, Nitrate and Perchlorate Contamination Within Five Years (Figures 8a, 8b, and 8c)

G. Simulated Basin Groundwater Contours 2008-09 and 2013-14 (Figures 9 and 10)

APPENDIX A.

PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
ADAMS RANCH MUTUAL WATER COMPANY									
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	NA	NA	66.59	70.00	70.00	70.00	70.00	70.00
SUBTOTAL:		NA	NA	66.59	70.00	70.00	70.00	70.00	70.00
ALHAMBRA, CITY OF (1)									
1900010	MOELR (8)	3,145	1,950	11.74	14.45	14.73	14.74	14.69	14.69
1900011	9	887	550	621.92	765.56	780.41	780.95	778.45	778.45
1900012	10	323	200	166.32	204.73	208.71	208.85	208.18	208.18
1900013	12	968	600	2.56	3.15	3.21	3.21	3.20	3.20
1900014	13	2,371	1,470	0.00	0.00	0.00	0.00	0.00	0.00
1900015	14	2,016	1,250	1,468.75	1,807.97	1,843.05	1,844.33	1,838.43	1,838.43
1900016	15	1,823	1,130	1,814.96	2,234.14	2,277.49	2,279.07	2,271.78	2,271.78
1900017	2 LON	2,355	1,460	2,163.76	2,663.50	2,715.18	2,717.06	2,708.37	2,708.37
1900018	GARF	763	473	0.00	0.00	0.00	0.00	0.00	0.00
1902789	1 LON	1,529	948	1,225.93	1,509.07	1,538.35	1,539.42	1,534.49	1,534.49
1903014	11	839	520	867.79	1,068.21	1,088.94	1,089.69	1,086.21	1,086.21
1903097	7	2,581	1,600	866.98	1,067.22	1,087.92	1,088.68	1,085.19	1,085.19
SUBTOTAL:		19,600	12,151	9,210.71	11,338.00	11,558.00	11,566.00	11,529.00	11,529.00
AMARILLO MUTUAL WATER COMPANY (SAN GABRIEL VALLEY WATER COMPANY) (1)									
1900791	1	644	399	368.27	612.72	624.97	637.47	650.22	663.22
1900792	2	424	263	1.70	0.71	0.73	0.73	0.74	0.77
SUBTOTAL:		1,068	662	369.97	613.42	625.70	638.20	650.97	663.99
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 (1)									
1901013	1 LON	3,629	2,250	778.83	1,035.88	1,038.47	1,041.06	1,043.67	1,043.67
1901014	2 LON	3,629	2,250	0.00	1,035.88	1,038.47	1,041.06	1,043.67	1,043.67
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	323	200	134.32	281.17	279.76	280.46	281.16	281.16
1902854	1 PEC	5,646	3,500	4,329.37	3,973.44	3,983.37	3,993.33	4,003.32	4,003.32
8000127	1 LO	7,097	4,400	4,495.57	3,385.93	3,394.39	3,402.88	3,411.39	3,411.39
8000177	2 STJ	4,839	3,000	1,041.97	896.73	898.97	901.22	903.47	903.47
SUBTOTAL:		20,324	15,600	10,780.06	10,609.02	10,633.43	10,660.02	10,686.67	10,686.67
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
AZUSA, CITY OF (AZUSA AGRICULTURE WATER COMPANY, AZUSA VALLEY WATER COMPANY) (1)									
1902533	5 (1)	1,613	1,000	1,461.94	1,345.00	1,345.00	1,345.00	1,345.00	1,345.00
1902535	6 (3)	4,839	3,000	264.75	229.00	229.00	229.00	229.00	229.00
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)	5,242	3,250	1,723.80	2,482.00	2,482.00	2,482.00	2,482.00	2,482.00
8000086	3 (8)	4,516	2,800	2,990.03	2,772.00	2,772.00	2,772.00	2,772.00	2,772.00
1902457	2 (1 NORTH)	4,516	2,800	4,121.96	4,020.00	4,020.00	4,020.00	4,020.00	4,020.00
1902458	4 (2 SOUTH)	4,033	2,500	3,411.20	2,753.00	2,753.00	2,753.00	2,753.00	2,753.00
1902113	AVWC 1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
1902114	AVCW 2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902115	8 (AVWC 4)	2,984	1,850	51.57	42.00	42.00	42.00	42.00	42.00
1902116	7 (AVWC 5)	1,694	1,050	66.63	114.00	114.00	114.00	114.00	114.00
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	6.25	9.00	9.00	9.00	9.00	9.00
8000178	11	3,549	2,200	1,388.34	1,761.00	1,761.00	1,761.00	1,761.00	1,761.00
8000179	12	2,581	1,600	1,182.01	1,198.00	1,198.00	1,198.00	1,198.00	1,198.00
1903119	VULCAN			26.15	50.00	50.00	50.00	50.00	50.00
SUBTOTAL:		15,001	9,300	16,694.63	16,775.00	16,775.00	16,775.00	16,775.00	16,775.00
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
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	27.46	25.00	25.00	25.00	25.00	25.00
SUBTOTAL		560	347	27.46	25.00	25.00	25.00	25.00	25.00
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
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 (1)									
1900354	STA FE	3,226	2,000	1,032.03	1,154.50	1,171.80	1,189.39	1,207.27	1,225.31
1900355	B-V	3,468	2,150	818.43	915.55	929.27	943.22	957.40	971.70
1900356	MT AVE	1,936	1,200	0.00	0.00	0.00	0.00	0.00	0.00
1900357	LAS L	1,113	690	0.00	0.00	0.00	0.00	0.00	0.00
1900358	FISH C	1,936	1,200	39.14	43.78	44.44	45.11	45.79	46.47
1902907	WILEY	2,581	1,600	1,883.94	2,107.51	2,139.08	2,171.19	2,203.84	2,236.76
1903018	CR HV	2,823	1,750	1,711.57	1,914.68	1,943.36	1,972.54	2,002.20	2,032.11
8000139	ENCTO	3,549	2,200	763.02	853.57	866.35	879.36	892.58	905.92

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RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
8000140	LASL 2	2,742	1,700	728.38	814.82	827.02	839.44	852.06	864.79
11900497	BACON	726	450	5.00	5.59	5.68	5.76	5.85	5.94
SUBTOTAL:		24,098	14,940	6,981.51	7,810.00	7,927.00	8,046.00	8,167.00	8,289.00
CALIFORNIA-AMERICAN WATER COMPANY/SAN MARINO SYSTEM(1)									
1900917	HALL	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900918	GUESS	634	393	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	2,571	1,594	1,851.37	1,870.31	1,898.42	1,926.75	1,955.71	1,984.88
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	1,339	830	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	1,816	1,126	937.55	947.14	961.38	975.72	990.39	1,005.16
1900927	ROSE	929	576	881.75	890.77	904.16	917.65	931.44	945.34
1900934	ROAN	1,952	1,210	0.00	0.00	0.00	0.00	0.00	0.00
1900935	LONG	3,152	1,954	684.53	691.53	701.93	712.40	723.11	733.89
1901441	BR-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902424	HOWL	1,707	1,058	279.89	282.75	287.00	291.29	295.66	300.07
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	2,766	1,715	1,666.55	1,683.60	1,708.91	1,734.40	1,760.47	1,786.73
1903059	DELMAR	1,571	974	1,094.22	1,105.41	1,122.03	1,138.77	1,155.89	1,173.13
8000175	HALL-2	NA	NA	1,362.54	1,376.48	1,397.17	1,418.02	1,439.33	1,460.80
SUBTOTAL:		18,437	11,430	8,758.40	8,848.00	8,981.00	9,115.00	9,252.00	9,390.00
CALIFORNIA COUNTRY CLUB									
1902529	CLUB	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902531	ARTES	1,129	700	0.06	2.73	2.73	2.73	2.73	2.73
1903084	SYC	1,290	800	0.05	2.27	2.27	2.27	2.27	2.27
SUBTOTAL:		2,420	1,500	0.11	5.00	5.00	5.00	5.00	5.00
CALIFORNIA DOMESTIC WATER COMPANY (1)									
1901181	2	5,404	3,350	881.35	929.25	1,041.40	1,078.79	1,116.17	1,148.21
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	6,775	4,200	3,877.61	4,088.37	4,581.79	4,746.26	4,910.74	5,051.72
1903057	3	7,581	4,700	7,000.07	7,380.54	8,271.29	8,568.21	8,865.13	9,119.63
1903081	8	5,162	3,200	717.71	756.72	848.05	878.49	908.93	935.03
8000100	5A	7,742	4,800	4,026.29	4,245.13	4,757.47	4,928.25	5,099.03	5,245.41
8000174	14	4,516	2,800	0.00	0.00	0.00	0.00	0.00	0.00
11900092		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		37,180	23,050	16,503.03	17,400.00	19,500.00	20,200.00	20,900.00	21,500.00
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
CHAMPION MUTUAL WATER COMPANY									
1900908	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902816	2	516	320	0.69	7.92	7.92	7.92	7.92	7.92
8000121	3	145	90	98.08	79.58	79.58	79.58	79.58	79.58
SUBTOTAL:		661	410	98.77	87.50	87.50	87.50	87.50	87.50
CHEVRON USA									
1900250	TEMP1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

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RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
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
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
VULCAN MATERIALS COMPANY (CALMAT COMPANY)									
1902920	E DUR	6,386	3,959	256.97	299.56	320.96	342.35	363.75	385.15
1903088	1 REL	4,068	2,522	264.79	308.67	330.72	352.77	374.82	396.87
8000063	W DUR	NA	NA	78.72	91.77	98.32	104.88	111.43	117.99
SUBTOTAL:		10,454	6,481	600.48	700.00	750.00	800.00	850.00	900.00
CORCORAN BROS.									
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									
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	0.48	0.45	0.45	0.45	0.45	0.45
8000142	EX2	NA	NA	0.37	0.35	0.35	0.35	0.35	0.35
8000143	EX3	NA	NA	0.08	0.08	0.08	0.08	0.08	0.08
8000144	EX4	NA	NA	0.06	0.06	0.06	0.06	0.06	0.06
8000153	E16A	NA	NA	1.24	1.17	1.17	1.17	1.17	1.17
8000154	E17A	NA	NA	2.48	2.34	2.34	2.34	2.34	2.34
8000155	E18A	NA	NA	0.67	0.63	0.63	0.63	0.63	0.63
8000156	E19A	NA	NA	1.30	1.23	1.23	1.23	1.23	1.23
8000173	E20A	NA	NA	1.65	1.56	1.56	1.56	1.56	1.56
8000161	E01R	NA	NA	0.24	0.23	0.23	0.23	0.23	0.23
8000162	E03R	NA	NA	0.05	0.05	0.05	0.05	0.05	0.05
8000163	E05R	NA	NA	1.03	0.97	0.97	0.97	0.97	0.97
8000164	E07R	NA	NA	1.83	1.73	1.73	1.73	1.73	1.73
8000165	E02R	NA	NA	2.04	1.93	1.93	1.93	1.93	1.93
8000166	E04R	NA	NA	0.75	0.71	0.71	0.71	0.71	0.71
8000167	E06R	NA	NA	0.37	0.35	0.35	0.35	0.35	0.35
8000168	E08R	NA	NA	1.23	1.16	1.16	1.16	1.16	1.16
SUBTOTAL:		NA	NA	15.87	15.00	15.00	15.00	15.00	15.00
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
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

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RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
SUBTOTAL:		968	600	0.00	0.00	0.00	0.00	0.00	0.00
COVINA IRRIGATING COMPANY (1)									
1900881	CONTR	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900882	3 BAL	3,549	2,200	2,221.30	2,400.00	2,600.00	2,600.00	2,600.00	2,600.00
1900883	2 BAL	3,226	2,000	1,673.94	2,000.00	2,400.00	2,400.00	2,400.00	2,400.00
1900885	1 BAL	2,420	1,500	1,367.48	1,600.00	2,000.00	2,000.00	2,000.00	2,000.00
11900880	VALEN	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
21900880	VALEN	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		9,194	5,700	5,262.72	6,000.00	7,000.00	7,000.00	7,000.00	7,000.00
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
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	117.89	125.00	125.00	125.00	125.00	125.00
1900332	KLING	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		261	162	117.89	125.00	125.00	125.00	125.00	125.00
DRIFTWOOD DAIRY									
1902924	01	298	185	149.92	150.00	150.00	150.00	150.00	150.00
SUBTOTAL:		298	185	149.92	150.00	150.00	150.00	150.00	150.00
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. (1)									
11901508	9	2,500	1,550	1,454.34	1,773.69	1,791.43	1,809.34	1,827.43	1,827.43
SUBTOTAL:		2,500	1,550	1,454.34	1,773.69	1,791.43	1,809.34	1,827.43	1,827.43
EL MONTE, CITY OF (1)									
1901692	2A	1,532	950	383.59	424.23	424.23	424.23	424.23	424.23
1901693	3	1,936	1,200	0.00	0.00	0.00	0.00	0.00	0.00
1901694	4	2,258	1,400	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	454.79	502.97	502.97	502.97	502.97	502.97
1901700	11	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902612	MT VW	807	500	0.00	0.00	0.00	0.00	0.00	0.00

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		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
1903137	12	3,468	2,150	739.81	818.19	818.19	818.19	818.19	818.19
8000066		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000101	13	4,678	2,900	979.81	1,083.61	1,083.61	1,083.61	1,083.61	1,083.61
SUBTOTAL:		17,098	10,600	2,558.00	2,829.00	2,829.00	2,829.00	2,829.00	2,829.00
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
GLENDORA, CITY OF (1)									
1900826	11-E	1,281	794	485.04	577.66	597.24	616.82	616.82	616.82
1900827	12-G	2,957	1,833	2,524.94	3,007.09	3,109.02	3,210.96	3,210.96	3,210.96
1900828	10-E	629	390	306.42	364.93	377.30	389.67	389.67	389.67
1900829	8-E	2,258	1,400	1,559.84	1,857.70	1,920.67	1,983.64	1,983.64	1,983.64
1900830	9-E	2,757	1,709	1,285.58	1,531.07	1,582.97	1,634.87	1,634.87	1,634.87
1900831	7-G	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901523	1-E	347	215	39.97	47.60	49.22	50.83	50.83	50.83
1901524	4-E	3,549	2,200	0.00	0.00	0.00	0.00	0.00	0.00
1901525	3-G	3,307	2,050	0.00	0.00	0.00	0.00	0.00	0.00
1901526	2-E	484	300	491.37	585.20	605.04	624.87	624.87	624.87
8000003		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000149	5-E	3,039	1,884	2,166.04	2,579.65	2,667.10	2,754.54	2,754.54	2,754.54
8000184	13-E	1,168	724	1,048.83	1,249.11	1,291.45	1,333.79	1,333.79	1,333.79
SUBTOTAL:		21,774	13,499	9,908.03	11,800.00	12,200.00	12,600.00	12,600.00	12,600.00
GOEDERT, LILLIAN									
8000027	GOEDERT	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
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
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									
1901178	NORTH	219	136	40.30	44.88	44.88	44.88	44.88	44.88
1902806	SOUTH	516	320	67.45	75.12	75.12	75.12	75.12	75.12
SUBTOTAL:		736	456	107.75	120.00	120.00	120.00	120.00	120.00
INDUSTRY WATERWORKS SYSTEM, CITY OF (1)									
1902581	1	2,887	1,790	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

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
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	1.59	712.00	712.00	712.00	712.00	712.00
SUBTOTAL:		11,114	6,890	1.59	712.00	712.00	712.00	712.00	712.00
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 (1)									
1901459	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901460	2	2,016	1,250	932.23	1,840.00	1,840.00	1,840.00	1,840.00	1,840.00
1902859	3	2,016	1,250	1,236.77	541.18	541.18	541.18	541.18	541.18
8000062	4	807	500	0.00	865.88	865.88	865.88	865.88	865.88
8000209	5	NA	NA	1,623.79	432.94	432.94	432.94	432.94	432.94
SUBTOTAL:		4,839	3,000	3,792.79	3,680.00	3,680.00	3,680.00	3,680.00	3,680.00
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
HANSON AGGREGATES WEST, INC. (LIVINGSTON-GRAHAM)									
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	186.96	199.94	233.27	266.59	299.91	333.24
1901493	3 EL	4,563	2,829	91.37	97.71	114.00	130.29	146.57	162.86
1903006	4 EL	356	221	2.19	2.34	2.73	3.12	3.51	3.90
SUBTOTAL:		8,221	5,097	280.52	300.00	350.00	400.00	450.00	500.00
LOS ANGELES, COUNTY OF									
1902579	1 WHI	2,710	1,680	946.63	940.04	940.04	940.04	940.04	940.04
1902580	2	1,697	1,052	0.00	0.00	0.00	0.00	0.00	0.00
1902663	3	566	351	0.00	0.00	0.00	0.00	0.00	0.00
1902664	4	832	516	0.00	0.00	0.00	0.00	0.00	0.00
1902665	5	652	404	327.55	325.27	325.27	325.27	325.27	325.27
1902666	6	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000070	1 SF	3,349	2,076	891.90	885.69	885.69	885.69	885.69	885.69
8000074	2 SF	458	284	30.29	30.08	30.08	30.08	30.08	30.08
8000088	B RED	174	108	49.89	49.54	49.54	49.54	49.54	49.54
8000089	N LK	1,323	820	1,133.86	1,125.96	1,125.96	1,125.96	1,125.96	1,125.96
8000090	600	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
11902158	BN PK	2,087	1,294	0.00	0.00	0.00	0.00	0.00	0.00
8000150	3A	1,936	1,200	252.44	250.68	250.68	250.68	250.68	250.68
NA	WNOU	NA	NA	1,906.01	1,892.74	1,892.74	1,892.74	1,892.74	1,892.74
SUBTOTAL:		15,783	9,785	5,538.57	5,500.00	5,500.00	5,500.00	5,500.00	5,500.00
LOS FLORES MUTUAL WATER COMPANY									

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RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
11902098	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
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
MILLER BREWERIES WEST, L.P. (MILLER BREWING COMPANY)									
8000034		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000075	1	5,533	3,430	12.56	20.00	20.00	20.00	20.00	20.00
8000076	2	5,533	3,430	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		11,065	6,860	12.56	20.00	20.00	20.00	20.00	20.00
MONROVIA, CITY OF (1)									
1900417	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900418	2	3,549	2,200	845.68	950.18	961.17	972.15	983.14	994.12
1900419	3	2,581	1,600	1,020.19	1,146.26	1,159.51	1,172.76	1,186.01	1,199.26
1900420	4	3,226	2,000	1,116.19	1,254.12	1,268.62	1,283.12	1,297.62	1,312.11
1940104	5	4,678	2,900	2,596.33	2,917.16	2,950.89	2,984.61	3,018.34	3,052.06
8000171	6	4,516	2,800	2,120.27	2,382.28	2,409.82	2,437.36	2,464.90	2,492.44
SUBTOTAL:		18,550	11,500	7,698.66	8,650.00	8,750.00	8,850.00	8,950.00	9,050.00
MONROVIA NURSERY									
1902456	DIV 4	NA	NA	0.39	20.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.39	20.00	0.00	0.00	0.00	0.00
MONTEREY PARK, CITY OF (1)									
1900453	1	1,613	1,000	211.82	260.74	263.44	266.15	266.15	266.15

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RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
1900454	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900455	3	1,532	950	252.82	311.21	314.44	317.67	317.67	317.67
1900456	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900457	5	2,903	1,800	1,890.25	2,326.82	2,350.94	2,375.11	2,375.11	2,375.11
1900458	6	968	600	0.00	0.00	0.00	0.00	0.00	0.00
1902372	7	1,290	800	417.15	513.49	518.82	524.15	524.15	524.15
1902373	8	2,903	1,800	14.50	17.85	18.03	18.22	18.22	18.22
1902690	9	2,903	1,800	9.00	11.08	11.19	11.31	11.31	11.31
1902818	10	2,903	1,800	1,772.68	2,182.10	2,204.72	2,227.38	2,227.38	2,227.38
1903033	12	3,226	2,000	3,302.19	4,064.86	4,107.00	4,149.22	4,149.22	4,149.22
1903092	14	1,129	700	0.00	0.00	0.00	0.00	0.00	0.00
8000126	FERN	1,613	1,000	169.24	208.33	210.49	212.65	212.65	212.65
8000196	15	3,226	2,000	1,441.58	1,774.53	1,792.92	1,811.35	1,811.35	1,811.35
SUBTOTAL:		26,211	16,250	9,481.23	11,671.00	11,792.00	11,913.21	11,913.21	11,913.21
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
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
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
CITRUS VALLEY MEDICAL CENTER, QUEEN OF THE VALLEY CAMPUS (QUEEN OF THE VALLEY HOSPITAL)									
8000138	NA	NA	NA	25.30	25.00	25.00	25.00	25.00	25.00
SUBTOTAL:		NA	NA	25.30	25.00	25.00	25.00	25.00	25.00
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

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RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
WORKMAN MILL INVESTMENT COMPANY (RINCON DITCH COMPANY)									
1902790	4	2,153	1,335	92.29	100.00	100.00	100.00	100.00	100.00
SUBTOTAL:		2,153	1,335	92.29	100.00	100.00	100.00	100.00	100.00
WORKMAN MILL INVESTMENT COMPANY (RINCON IRRIGATION COMPANY)									
1900132	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
11900095	2	1,428	885	0.04	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		1,428	885	0.04	0.00	0.00	0.00	0.00	0.00
WORKMAN MILL INVESTMENT COMPANY (ROSE HILLS MEMORIAL PARK)									
1900052	3	1,192	739	0.05	0.05	0.05	0.05	0.05	0.05
1900094	1	673	417	391.85	399.95	399.95	399.95	399.95	399.95
SUBTOTAL:		1,865	1,156	391.90	400.00	400.00	400.00	400.00	400.00
RURBAN HOMES MUTUAL WATER COMPANY (1)									
1900120	1-NORTH	484	300	109.28	59.15	59.15	59.15	59.15	59.15
1900121	2-SOUTH	484	300	110.56	59.85	59.85	59.85	59.85	59.85
SUBTOTAL:		968	600	219.84	119.00	119.00	119.00	119.00	119.00
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.									
8000151	NA	NA	NA	65.95	70.00	80.00	80.00	80.00	80.00
SUBTOTAL:		NA	NA	65.95	70.00	80.00	80.00	80.00	80.00
SAN GABRIEL COUNTRY CLUB									
1900547	1	NA	NA	0.14	16.51	16.51	16.51	16.51	16.51
1902979	2	750	465	296.18	283.49	283.49	283.49	283.49	283.49
SUBTOTAL:		750	465	296.32	300.00	300.00	300.00	300.00	300.00
SAN GABRIEL COUNTY WATER DISTRICT (1)									
1901669	5 BRA	1,613	1,000	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	1,048	650	955.59	1,330.00	1,330.00	1,330.00	1,330.00	1,330.00
1901672	8	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902785	9	2,258	1,400	2,079.41	2,100.00	2,100.00	2,100.00	2,100.00	2,100.00
1902786	10	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000067	11	1,532	950	721.86	1,090.00	1,110.00	1,130.00	1,150.00	1,170.00
8000123	12	3,387	2,100	1,827.20	1,770.00	1,790.00	1,810.00	1,830.00	1,850.00
8000133	14	3,549	2,200	1,458.04	1,295.00	1,315.00	1,335.00	1,355.00	1,375.00
SUBTOTAL:		13,388	8,300	7,042.10	7,585.00	7,645.00	7,705.00	7,765.00	7,825.00
SAN GABRIEL VALLEY WATER COMPANY (1)									
1900725	G4A	1,855	1,150	451.60	850.00	850.00	850.00	850.00	850.00
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	3,186	1,975	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
211900729	1B	2,742	1,700	14.28	500.00	500.00	550.00	550.00	550.00
11902946	1C	2,452	1,520	96.82	50.00	50.00	50.00	50.00	50.00
18000081	1B4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

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PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
18000082	1B5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
18000102	1D	4,678	2,900	1,657.38	350.00	350.00	350.00	350.00	350.00
21900749	2C	1,924	1,193	0.00	0.00	0.00	0.00	0.00	0.00
21902857	2D	3,226	2,000	604.42	350.00	350.00	350.00	350.00	350.00
28000065	2E	4,436	2,750	1,542.85	500.00	500.00	500.00	500.00	500.00
31900736	8A	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
31900746	8B	2,016	1,250	285.28	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00
31900747	8C	2,097	1,300	136.45	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00
31903103	8D	5,000	3,100	1,273.20	1,650.00	1,650.00	1,650.00	1,650.00	1,650.00
38000113	8E	4,839	3,000	63.91	600.00	600.00	600.00	600.00	600.00
41900739	11A	4,436	2,750	2,388.01	325.00	325.00	325.00	325.00	325.00
41900745	11B	2,984	1,850	1,018.11	725.00	725.00	725.00	725.00	725.00
41902713	11C	1,742	1,080	172.58	325.00	325.00	325.00	325.00	325.00
48000083	11B7	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
51902858	B4B	3,629	2,250	0.00	0.00	0.00	0.00	0.00	0.00
51902947	B4C	3,629	2,250	0.00	0.00	0.00	0.00	0.00	0.00
61900718	B5A	3,065	1,900	0.00	0.00	0.00	0.00	0.00	0.00
61900719	B5B	5,323	3,300	3,629.87	5,200.00	5,200.00	5,200.00	5,200.00	5,200.00
71900721	B6B	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
71903093	B6C	3,226	2,000	0.64	50.00	50.00	50.00	50.00	50.00
78000084	B6B2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
78000098	B6D	3,226	2,000	1.28	50.00	50.00	50.00	50.00	50.00
81902525	B2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000122	B7E	968	600	551.79	300.00	300.00	300.00	300.00	300.00
91901435		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
91901436	B8	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
91901437	B9	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
91901439	B11A	968	600	0.00	475.00	475.00	475.00	475.00	475.00
91901440	B7B	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
98000068	B7C	3,791	2,350	2,337.78	1,100.00	1,100.00	1,100.00	1,100.00	1,100.00
98000094	B7D	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
98000099	B9B	1,613	1,000	717.65	500.00	500.00	500.00	500.00	500.00
98000108	B11B	4,033	2,500	1,656.17	875.00	875.00	875.00	875.00	875.00
8000172	1E	5,283	3,275	3,529.18	500.00	500.00	500.00	500.00	500.00
8000160	B5D	4,839	3,000	985.10	200.00	200.00	200.00	200.00	200.00
8000169	8F	5,646	3,500	229.33	200.00	200.00	200.00	200.00	200.00
NA	G4B	NA	NA		0.00	0.00	0.00	0.00	0.00
NA	1F	NA	NA		350.00	350.00	350.00	350.00	350.00
8000197	2F	NA	2,200	2,273.24	500.00	500.00	500.00	500.00	500.00
NA	B11C	3,226	2,000		0.00	0.00	0.00	0.00	0.00
8000203	B24A	4,033	2,500	474.12	850.00	850.00	1,200.00	1,200.00	1,200.00
8000204	B24B	4,033	2,500	610.87	850.00	850.00	1,200.00	1,200.00	1,200.00
8000187	B25A	4,516	2,800	2,104.47	4,400.00	4,400.00	4,400.00	4,400.00	4,400.00
8000188	B25B	4,516	2,800	1,908.90	4,400.00	4,400.00	4,400.00	4,400.00	4,400.00
8000189	B26A	1,774	1,100	1,817.21	1,600.00	1,600.00	1,600.00	1,600.00	1,600.00
8000190	B26B	1,774	1,100	2,152.89	1,600.00	1,600.00	1,600.00	1,600.00	1,600.00
8000205	B5E	5,565	3,450	4,834.72	5,200.00	5,200.00	5,200.00	5,200.00	5,200.00
NA	11D				725.00	725.00	725.00	725.00	725.00
SUBTOTAL:		128,101	81,618	39,520.10	38,700.00	38,700.00	39,450.00	39,450.00	39,450.00
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									
8000124	1	NA	NA	19.74	34.82	34.82	34.82	34.82	34.82
8000125	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000192	15 OFFSITE	NA	NA	12.81	15.18	15.18	15.18	15.18	15.18
SUBTOTAL:		NA	NA	32.55	50.00	50.00	50.00	50.00	50.00
SIERRA MADRE, CITY OF									
8000193	NA	NA	NA	0.38	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.38	0.00	0.00	0.00	0.00	0.00

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
SONOCO PRODUCTS COMPANY									
1902786	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902971	2	NA	NA	132.63	150.00	150.00	150.00	150.00	150.00
SUBTOTAL:		NA	NA	132.63	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 (1)									
1901679	GRAV 2	1,290	800	565.80	782.57	782.57	782.57	782.57	782.57
1901681	2 WIL	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901682	3 WIL	3,387	2,100	3,132.40	2,618.14	2,618.14	2,618.14	2,618.14	2,618.14
1903086	4 WIL	1,774	1,100	1,199.26	1,371.41	1,371.41	1,371.41	1,371.41	1,371.41
SUBTOTAL:		6,452	4,000	4,897.46	4,772.12	4,772.12	4,772.12	4,772.12	4,772.12
SOUTHERN CALIFORNIA EDISON COMPANY									
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	0.43	0.47	0.47	0.47	0.47	0.47
8000047	MURAT	2,420	1,500	109.00	119.53	119.53	119.53	119.53	119.53
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	109.43	120.00	120.00	120.00	120.00	120.00
GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN DIMAS DISTRICT (1)									
1902148	BAS-3	968	600	441.76	663.76	663.76	663.76	663.76	663.76
1902149	BAS-4	1,210	750	678.07	1,018.82	1,018.82	1,018.82	1,018.82	1,018.82
1902150	HWY	1,129	700	1,123.04	1,687.40	1,687.40	1,687.40	1,687.40	1,687.40
1902151	ART-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902152	ART-2	484	300	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
1902266	COL-1	NA	NA	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
1902268	COL-4	726	450	0.00	0.00	0.00	0.00	0.00	0.00
1902269	COL-5	NA	NA	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
1902271	COL-7	NA	NA	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
1902286	CITY	323	200	118.03	177.34	177.34	177.34	177.34	177.34
1902842	ART-3	403	250	480.38	721.78	721.78	721.78	721.78	721.78
31902287	MALON	605	375	486.45	730.90	730.90	730.90	730.90	730.90
SUBTOTAL:		6,533	4,050	3,327.73	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00
GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN GABRIEL DISTRICT (1)									
1900510	1 S G	1,774	1,100	1,357.27	830.52	832.15	833.79	835.43	837.07
1900511	2 S G	1,452	900	0.00	0.00	0.00	0.00	0.00	0.00
1900512	2 GAR	327	203	0.00	0.00	0.00	0.00	0.00	0.00
1900513	1 GAR	321	199	0.00	0.00	0.00	0.00	0.00	0.00
1900514	3 SAX	565	350	367.50	224.87	225.32	225.76	226.20	226.65
1900515	1 SAX	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000146	4 SAX	1,532	950	1,111.61	680.20	681.54	682.88	684.22	685.56
1902144	1 EAR	589	365	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
1902018	2 JEF	NA	NA	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
1902020	1 AZU	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902024	1 ENC	1,936	1,200	687.31	420.57	421.40	422.22	423.05	423.88
1902027	1 PER	697	432	92.63	56.68	56.79	56.90	57.02	57.13
1902030	1 GRA	NA	NA	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

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
1902032	1 GID	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902034	1 FAR	1,936	1,200	362.33	221.71	222.15	222.58	223.02	223.46
1902035	2 ENC	968	600	262.33	160.52	160.84	161.15	161.47	161.79
1902461	2 GRA	494	306	0.00	0.00	0.00	0.00	0.00	0.00
1902948	2 FAR	1,210	750	270.79	165.70	166.02	166.35	166.68	167.00
8000073	3 ENC	1,048	650	334.76	204.84	205.24	205.65	206.05	206.46
8000111	4 JEF	2,097	1,300	1,785.25	1,092.40	1,094.55	1,096.71	1,098.86	1,101.01
SUBTOTAL:		10,384	6,438	6,631.78	4,058.00	4,066.00	4,074.00	4,082.00	4,090.00
STERLING MUTUAL WATER COMPANY									
1902085	SOUTH	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902096	NORTH	397	246	66.08	81.69	81.69	81.69	81.69	81.69
8000132	NEW SO	NA	NA	55.25	68.31	68.31	68.31	68.31	68.31
SUBTOTAL:		397	246	121.33	150.00	150.00	150.00	150.00	150.00
SUBURBAN WATER SYSTEMS (1)									
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	2,049	1,270	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	3,123	1,936	0.00	0.00	0.00	0.00	0.00	0.00
1901433	201W4	4,083	2,531	545.46	0.00	0.00	0.00	0.00	0.00
1901434	201W6	3,302	2,047	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	4,049	2,510	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	1,774	1,100	0.00	0.00	0.00	0.00	0.00	0.00
8000069	139W4	4,749	2,944	0.00	0.00	0.00	0.00	0.00	0.00
8000077	147W3	1,860	1,153	1,568.28	1,687.33	1,687.33	1,687.33	1,687.33	1,687.33
8000087	125W2	1,286	797	0.00	0.00	0.00	0.00	0.00	0.00
8000092	126W2	1,234	765	0.00	0.00	0.00	0.00	0.00	0.00
8000093	140W4	4,286	2,657	0.00	0.00	0.00	0.00	0.00	0.00
8000145	140W5	6,468	4,010	1,794.05	1,568.17	1,568.17	1,568.17	1,568.17	1,568.17
8000095	139W5	5,323	3,300	0.00	0.00	0.00	0.00	0.00	0.00
8000152	139W6	5,647	3,501	0.00	0.00	0.00	0.00	0.00	0.00
11902518	151W1	5,162	3,200	0.00	0.00	0.00	0.00	0.00	0.00
21902518	151W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
31902819	155W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
31902820	155W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00

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PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
41901605	101W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
41901607	103W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000181	121W1	3,624	2,247	1,864.67	2,630.26	2,630.26	2,630.26	2,630.26	2,630.26
8000183	142W2	4,194	2,600	3,325.80	3,806.13	3,806.13	3,806.13	3,806.13	3,806.13
8000195	201W7	4,615	2,861	4,557.95	4,188.51	4,188.51	4,188.51	4,188.51	4,188.51
8000198	201W8	4,263	2,643	4,426.09	3,868.67	3,868.67	3,868.67	3,868.67	3,868.67
8000207	151W2	5,162	3,200	4,301.37	4,683.87	4,683.87	4,683.87	4,683.87	4,683.87
8000208	201W9	4,121	2,555	4,463.06	3,739.72	3,739.72	3,739.72	3,739.72	3,739.72
	201W10	NA	NA	234.90	2,489.84	2,489.84	2,489.84	2,489.84	2,489.84
SUBTOTAL:		80,371	49,827	27,081.63	28,662.50	28,662.50	28,662.50	28,662.50	28,662.50
SUNNY SLOPE WATER COMPANY (1)									
1900026	8	2,932	1,818	1,007.60	1,047.22	1,122.03	1,196.83	1,271.63	1,294.07
1902792	9	3,094	1,918	1,456.47	1,513.75	1,621.87	1,729.99	1,838.12	1,870.56
8000048	10	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000157	13	3,060	1,897	627.36	652.03	698.60	745.18	791.75	805.72
SUBTOTAL:		9,086	5,633	3,091.43	3,213.00	3,442.50	3,672.00	3,901.50	3,970.35
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
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									
1900106	IRW-1	NA	NA	264.38	285.76	317.52	349.27	381.02	317.52
1902532	SIERRA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903062	IRW-2	NA	NA	568.27	614.24	682.48	750.73	818.98	682.48
SUBTOTAL:		NA	NA	832.65	900.00	1,000.00	1,100.00	1,200.00	1,000.00
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 (1)									
8000051	1	524	325	992.44	206.82	206.82	226.70	228.30	232.27
8000052	2	526	326	0.00	236.36	236.36	259.09	260.91	265.45
8000054	4	NA	NA	0.00	265.91	265.91	291.48	293.52	298.64
8000055	3A	205	127	0.00	0.00	0.00	0.00	0.00	0.00
8000120	5	1,613	1,000	0.00	590.91	590.91	647.73	652.27	663.64
8000180	6	1,331	825						
SUBTOTAL:		4,199	2,603	992.44	1,300.00	1,300.00	1,425.00	1,435.00	1,460.00
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

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
1901438	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
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 (1)									
1900027	E MAIN	3,387	2,100	2,022.04	2,057.33	2,077.86	2,098.87	2,119.76	2,140.90
1900028	W MAIN	2,178	1,350	1,020.62	1,038.43	1,048.79	1,059.40	1,069.94	1,080.61
1900029	MORADA	1,936	1,200	0.00	0.00	0.00	0.00	0.00	0.00
1900031	PADDY	2,360	1,463	0.00	0.00	0.00	0.00	0.00	0.00
1900032	E NIXON (JOAN)	5,162	3,200	3,101.49	3,155.62	3,187.10	3,219.33	3,251.38	3,283.80
1900034	ARROW	4,839	3,000	0.00	0.00	0.00	0.00	0.00	0.00
1900035	B DAL	4,839	3,000	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)	5,242	3,250	2,318.08	2,358.54	2,382.07	2,406.16	2,430.11	2,454.34
8000039	PALM	1,194	740	0.00	0.00	0.00	0.00	0.00	0.00
8000060	LANTE (SA1-3)	5,484	3,400	3,528.56	3,590.15	3,625.96	3,662.63	3,699.09	3,735.97
8000185	SA1-1	5,484	3,400	1,587.17	1,614.87	1,630.98	1,647.48	1,663.87	1,680.46
8000186	SA1-2	3,871	2,400	2,973.16	3,025.05	3,055.23	3,086.13	3,116.85	3,147.92
SUBTOTAL:		45,975	28,503	16,551.12	16,840.00	17,008.00	17,180.00	17,351.00	17,524.00
VALLEY VIEW MUTUAL WATER COMPANY (1)									
1900363	1	768	476	42.00	43.08	43.08	43.08	43.08	43.08
1900364	2	310	192	585.88	600.92	600.92	600.92	600.92	600.92
1900365	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		1,077	668	627.88	644.00	644.00	644.00	644.00	644.00
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									
8000191	NA	NA	NA	3.32	3.00	3.00	3.00	3.00	3.00
SUBTOTAL		NA	NA	3.32	3.00	3.00	3.00	3.00	3.00
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	856.94	791.72	791.72	791.72	791.72	791.72
8000021	FROM	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000071	15	5,968	3,700	484.54	447.66	447.66	447.66	447.66	447.66
8000110	16	5,968	3,700	4,391.38	4,057.17	4,057.17	4,057.17	4,057.17	4,057.17
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
8000200	EW4-5	4,355	2,700	845.18	780.86	780.86	780.86	780.86	780.86
8000201	EW4-6	4,516	2,800	906.34	837.36	837.36	837.36	837.36	837.36
8000202	EW4-7	4,516	2,800	579.32	535.23	535.23	535.23	535.23	535.23
SUBTOTAL:		26,615	16,500	8,063.70	7,450.00	7,450.00	7,450.00	7,450.00	7,450.00
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

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION NUMBER	WELL NAME	WELL CAPACITY		2008-09 PRODUCTION	PROJECTED GROUNDWATER DEMANDS				
		ACRE-FEET	GPM		2009-10	2010-11	2011-12	2012-13	2013-14
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
COINER, JAMES W., DBA COINER NURSERY (WOODLAND FARMS INC.)									
1902951	3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903072	5R	NA	NA	91.87	90.00	90.00	90.00	90.00	90.00
SUBTOTAL:		NA	NA	91.87	90.00	90.00	90.00	90.00	90.00
TOTAL		**673,021**	**420,948**	**236,715.72**	**248,348.25**	**253,249.18**	**256,432.89**	**258,189.90**	**259,397.77**

NOTES : GROUNDWATER PRODUCTION AND DEMANDS IN ACRE-FEET
GPM : GALLONS PER MINUTE
NA : NOT AVAILABLE
(1) PROJECTED GROUND-WATER DEMANDS PROVIDED BY PRODUCER

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)	REMARKS
			2008-09	2013-14		
ADAMS RANCH MUTUAL WATER COMPANY						
01	1902106	INACTIVE	177.37	177.59	0.22	
02	1902689	INACTIVE				
03	8000182	ACTIVE				
ALHAMBRA, CITY OF						
MOEL (08)	1900010	ACTIVE	140.59	139.21	-1.38	PRODUCTION INCREASED
09	1900011	ACTIVE	136.63	135.30	-1.33	PRODUCTION INCREASED
10	1900012	ACTIVE	142.06	140.87	-1.19	PRODUCTION INCREASED
12	1900013	INACTIVE	141.07	140.25	-0.82	
13	1900014	ACTIVE	146.37	145.26	-1.11	PRODUCTION INCREASED
14	1900015	ACTIVE	138.69	135.88	-2.81	PRODUCTION INCREASED
15	1900016	ACTIVE	150.22	149.06	-1.16	PRODUCTION INCREASED
LON 1	1903014	ACTIVE	132.50	126.99	-5.51	PRODUCTION INCREASED
LON 2	1900017	ACTIVE				
GARF	1900018	INACTIVE	140.59	140.16	-0.43	
11	1903014	ACTIVE	139.59	137.53	-2.06	PRODUCTION INCREASED
07	1903097	STANDBY	140.09	138.50	-1.59	PRODUCTION INCREASED
AMARILLO MUTUAL WATER COMPANY						
01	1900791	ACTIVE	171.89	170.31	-1.58	PRODUCTION INCREASED
02	1900792	ACTIVE				
ARCADIA, CITY OF						
LON 1	1901013	ACTIVE	210.52	209.08	-1.44	PRODUCTION INCREASED
LON 2	1901014	ACTIVE	210.93	209.02	-1.91	PRODUCTION INCREASED
CAM REAL 1	1902077	INACTIVE	204.83	204.85	0.02	
CAM REAL 2	1902078	INACTIVE				
ST JO 2	8000177	ACTIVE	208.94	209.06	0.12	
BAL 2	1902791	ACTIVE	186.42	186.08	-0.34	
PECK 1	1902854	ACTIVE	207.09	207.96	0.87	
L OAK 1	8000127	ACTIVE	201.93	203.93	2.00	PRODUCTION REDUCED
AZUSA, CITY OF (AZUSA AGRICULTURE WATER COMPANY, AZUSA VALLEY WATER COMPANY)						
05 (01)	1902533	ACTIVE	596.66	596.07	-0.59	
06 (03)	1902535	ACTIVE	598.31	597.32	-0.99	
GENESIS 1 (04)	1902536	DESTROYED	258.14	258.13	-0.01	
GENESIS 2 (05)	1902537	DESTROYED	253.10	253.08	-0.02	
GENESIS 3 (06)	1902538	DESTROYED	258.92	258.92	0.00	

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)	REMARKS
			2008-09	2013-14		
01 (07)	8000072	ACTIVE	614.58	612.56	-2.02	PRODUCTION INCREASED
03 (08)	8000086	ACTIVE	615.85	615.22	-0.63	
02 (1 NORTH)	1902457	ACTIVE	613.83	613.12	-0.71	
04 (2 SOUTH)	1902458	ACTIVE	612.37	611.54	-0.83	
AVWC 01	1902113	DESTROYED	238.08	238.00	-0.08	
AVWC 02	1902114	DESTROYED	245.11	245.09	-0.02	
08 (AVWC 04)	1902115	ACTIVE	597.10	596.15	-0.95	
07 (AVWC 05)	1902116	ACTIVE	595.96	595.12	-0.84	
09 (AVWC 06)	1902117	INACTIVE	254.02	254.02	0.00	
10 (AVWC 08)	8000103	ACTIVE	252.87	252.86	-0.01	
11	8000178	ACTIVE	619.77	618.86	-0.91	
12	8000179	ACTIVE	625.11	624.77	-0.34	
BASELINE WATER COMPANY						
01	1901200	INACTIVE	973.77	973.47	-0.30	
02	1901201	INACTIVE				
03	1901202	INACTIVE	976.76	976.49	-0.27	
CALIFORNIA-AMERICAN WATER COMPANY/DUARTE SYSTEM						
STA FE	1900354	ACTIVE	227.50	227.02	-0.48	
B V	1900355	ACTIVE	224.07	223.70	-0.37	
MT AVE	1900356	DESTROYED	222.33	222.08	-0.25	
FISH C	1900358	ACTIVE	622.78	621.69	-1.09	PRODUCTION INCREASED
WILEY	1902907	ACTIVE	605.91	603.92	-1.99	PRODUCTION INCREASED
CR HV	1903018	ACTIVE	231.02	230.11	-0.91	
ENCANTO	8000139	ACTIVE	610.40	609.09	-1.31	PRODUCTION INCREASED
LAS L2	8000140	ACTIVE	604.23	603.33	-0.90	
BACON	1900497	ACTIVE	605.92	605.29	-0.63	
CALIFORNIA-AMERICAN WATER COMPANY/SAN MARINO SYSTEM						
GUESS	1900918	ACTIVE	174.35	174.28	-0.07	
MIVW 2	1900920	ACTIVE	174.99	174.69	-0.30	
RIC 1	1900921	INACTIVE	165.43	165.06	-0.37	
IVAR 1	1900923	ACTIVE	177.09	176.27	-0.82	
GRAND	1900926	ACTIVE	167.19	166.92	-0.27	
ROSEMEAD	1900927	ACTIVE	166.27	165.96	-0.31	

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)	REMARKS
			2008-09	2013-14		
ROANOKE	1900934	ACTIVE	139.79	139.14	-0.65	
LONGDEN	1900935	ACTIVE	135.53	132.54	-2.99	IMPACT FROM SGCWD EXTRACTION
BR 1	1901441	INACTIVE	190.37	190.27	-0.10	
HOWLAND	1902424	ACTIVE	186.68	186.65	-0.03	
BR 2	1902787	INACTIVE	188.44	188.29	-0.15	
MAR 3	1903019	ACTIVE	184.29	184.03	-0.26	
DELMAR	1903059	ACTIVE	131.49	128.55	-2.94	PRODUCTION INCREASED
HALL 2	8000175	ACTIVE	190.93	190.78	-0.15	
CALIFORNIA COUNTRY CLUB						
ARTES	1902531	STANDBY	213.00	213.53	0.53	
SYCAMORE	1903084	STANDBY	212.75	213.25	0.50	
CALIFORNIA DOMESTIC WATER COMPANY						
02	1901181	ACTIVE	206.59	203.92	-2.67	PRODUCTION INCREASED
06	1902967	ACTIVE	204.08	200.06	-4.02	PRODUCTION INCREASED
03	1903057	ACTIVE	202.41	198.12	-4.29	PRODUCTION INCREASED
08	1903081	ACTIVE	208.51	206.57	-1.94	PRODUCTION INCREASED
05A	8000100	ACTIVE	205.10	201.39	-3.71	PRODUCTION INCREASED
14	8000174	ACTIVE	205.84	202.62	-3.22	PRODUCTION INCREASED
CHAMPION MUTUAL WATER COMPANY						
02 03	1902816 8000121	ACTIVE ACTIVE	212.14	215.26	3.12	IMPACT FROM SGVWC EXTRACTION
VULCAN MATERIALS COMPANY (CALMAT COMPANY)						
DUR E DUR W	1902920 8000063	ACTIVE ACTIVE	225.82	225.63	-0.19	
REL 1	1903088	ACTIVE	239.76	239.32	-0.44	
COVINA, CITY OF						
01	1901685	INACTIVE	272.54	272.51	-0.03	
02 (GRAND)	1901686	ACTIVE	361.22	361.21	-0.01	
COVINA IRRIGATING COMPANY						
CONTR	1900881	STANDBY	252.24	252.23	-0.01	
BAL 3	1900882	ACTIVE	231.41	231.04	-0.37	
BAL 1 BAL 2	1900885 1900883	ACTIVE ACTIVE	231.67	231.15	-0.52	
VALEN	1900880	INACTIVE	509.07	509.06	-0.01	

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)	REMARKS
			2008-09	2013-14		
CROWN CITY PLATING COMPANY						
01	8000012	ACTIVE	185.76	185.77	0.01	
DEL RIO MUTUAL WATER COMPANY						
BURKETT	1900331	ACTIVE	208.13	209.11	0.98	
DRIFTWOOD DAIRY						
01	1902924	ACTIVE	197.10	197.55	0.45	
EAST PASADENA WATER COMPANY, LTD.						
09	1901508	ACTIVE	176.81	175.98	-0.83	
EL MONTE, CITY OF						
02A	1901692	ACTIVE	196.39	196.25	-0.14	
03	1901693	INACTIVE	197.97	197.89	-0.08	
04	1901694	INACTIVE	199.18	199.08	-0.10	
05	1901695	INACTIVE	194.42	194.39	-0.03	
10	1901699	STANDBY	200.42	200.28	-0.14	
MT VW	1902612	DESTROYED	207.04	207.71	0.67	
12	1903137	STANDBY	193.55	193.33	-0.22	
13	8000101	ACTIVE	193.72	193.50	-0.22	
GLENDORA, CITY OF						
11-E	1900826	ACTIVE	547.38	547.23	-0.15	
08-E 09-E 12-G	1900829 1900830 1900827	ACTIVE ACTIVE ACTIVE	604.15	600.41	-3.74	PRODUCTION INCREASED
10-E	1900828	ACTIVE	554.11	553.95	-0.16	
07-G	1900831	INACTIVE	252.89	252.88	-0.01	
01-E 13-E	1901523 8000184	ACTIVE ACTIVE	562.55	562.27	-0.28	
02-E	1901526	ACTIVE	563.46	563.22	-0.24	
03-G 04-E	1901525 1901524	INACTIVE INACTIVE	247.26	247.25	-0.01	
05-E	8000149	ACTIVE	609.79	607.32	-2.47	PRODUCTION INCREASED
HARTLEY, DAVID						
NA	8000085	ACTIVE	660.65	660.62	-0.03	
HEMLOCK MUTUAL WATER COMPANY						
NORTH SOUTH	1901178 1902806	ACTIVE ACTIVE	214.84	215.99	1.15	IMPACT FROM SGVWC EXTRACTION

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)	REMARKS
			2008-09	2013-14		
INDUSTRY WATERWORKS SYSTEM, CITY OF						
01	1902581	INACTIVE	214.38	213.36	-1.02	IMPACT FROM BPOU EXTRACTION
03	8000078	STANDBY				
04	8000096	ACTIVE				
02	1902582	INACTIVE	214.79	213.72	-1.07	BPOU EXTRACTION
05	8000097	ACTIVE				
LA PUENTE VALLEY COUNTY WATER DISTRICT						
02	1901460	ACTIVE	224.56	223.68	-0.88	
04	8000062	ACTIVE				
03	1902859	ACTIVE	223.93	224.67	0.74	
05	NA	ACTIVE				
HANSON AGGREGATES WEST, INC. (LIVINGSTON-GRAHAM)						
EL 4	1903006	ACTIVE	222.20	221.89	-0.31	
EL 1	1901492	ACTIVE	222.57	222.10	-0.47	
EL 3	1901493	ACTIVE				
LOS ANGELES, COUNTY OF						
KEY WELL	3030F	MONITORING	228.71	228.63	-0.08	
WHI 1	1902579	ACTIVE	181.61	181.86	0.25	
02	1902580	ACTIVE	188.74	188.74	0.00	
03A	8000150	ACTIVE	181.15	180.70	-0.45	
04	1902664	ACTIVE	179.75	178.86	-0.89	
05	1902665	ACTIVE	178.55	177.16	-1.39	IMPACT FROM BPOU EXTRACTION
06	1902666	INACTIVE	178.05	177.21	-0.84	
SF 1	8000070	ACTIVE	235.20	235.13	-0.07	
BIG RED	8000088	ACTIVE	192.99	192.80	-0.19	
NEW LAKE	8000089	ACTIVE	179.26	179.69	0.43	
MILLER BREWERIES WEST, L.P. (MILLER BREWING COMPANY)						
01	8000075	ACTIVE	237.35	237.20	-0.15	
02	8000076	ACTIVE	236.85	236.64	-0.21	
MONROVIA, CITY OF						
02	1900418	ACTIVE	208.82	207.40	-1.42	PRODUCTION INCREASED
03	1900419	ACTIVE				
04	1900420	ACTIVE	214.32	213.20	-1.12	PRODUCTION INCREASED
05	1940104	ACTIVE	210.39	208.86	-1.53	PRODUCTION INCREASED
06	8000171	ACTIVE	209.08	207.67	-1.41	PRODUCTION INCREASED
MONROVIA NURSERY						

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)	REMARKS
			2008-09	2013-14		
DIV 4	1902456	ACTIVE	509.07	509.06	-0.01	
MONTEREY PARK, CITY OF						
01	1900453	ACTIVE	164.30	162.50	-1.80	PRODUCTION INCREASED
03	1900455	ACTIVE	158.35	156.10	-2.25	PRODUCTION INCREASED
05	1900457	ACTIVE	149.22	145.44	-3.78	PRODUCTION INCREASED
06	1900458	ACTIVE	160.03	157.94	-2.09	PRODUCTION INCREASED
07	1902372	ACTIVE	176.79	175.39	-1.40	PRODUCTION INCREASED
08	1902373	ACTIVE	178.74	177.35	-1.39	PRODUCTION INCREASED
09	1902690	ACTIVE	176.53	175.08	-1.45	PRODUCTION INCREASED
10	1902818	ACTIVE	146.18	143.28	-2.90	PRODUCTION INCREASED
12	1903033	ACTIVE	174.30	172.44	-1.86	PRODUCTION INCREASED
14	1903092	ACTIVE	172.85	171.86	-0.99	
FERN	8000126	ACTIVE	158.18	155.90	-2.28	PRODUCTION INCREASED
15	8000196	ACTIVE	178.32	176.89	-1.43	PRODUCTION INCREASED
OWL ROCK PRODUCTS COMPANY						
NA	1902241	ACTIVE	226.47	226.33	-0.14	
NA	1903119	ACTIVE	617.74	616.01	-1.73	IMPACT FROM AZUSA EXTRACTION
POLOPOLUS ET AL.						
01	1902169	INACTIVE	229.85	229.73	-0.12	
CITRUS VALLEY MEDICAL CENTER, QUEEN OF THE VALLEY CAMPUS (QUEEN OF THE VALLEY HOSPITAL)						
NA	8000138	ACTIVE	230.79	230.55	-0.24	
WORKMAN MILL INVESTMENT COMPANY (RINCON DITCH COMPANY)						
04	1902790	ACTIVE	183.23	183.57	0.34	
WORKMAN MILL INVESTMENT COMPANY (RINCON IRRIGATION COMPANY)						
02	1900095	ACTIVE	185.01	185.21	0.20	
WORKMAN MILL INVESTMENT COMPANY (ROSE HILLS MEMORIAL PARK)						
03	1900052	ACTIVE	184.05	184.32	0.27	
01	1900094	ACTIVE	182.02	182.29	0.27	
RURBAN HOMES MUTUAL WATER COMPANY						
NORTH 1	1900120	ACTIVE	215.89	217.44	1.55	IMPACT FROM SGVWC REDUCTION
SOUTH 2	1900121	ACTIVE				
SAN GABRIEL COUNTRY CLUB						
01	1900547	ACTIVE	142.84	140.41	-2.43	IMPACT FROM SGCWD EXTRACTION

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)	REMARKS
			2008-09	2013-14		
02	1902979	ACTIVE				
SAN GABRIEL COUNTY WATER DISTRICT						
05 BRA	1901669	ACTIVE	171.37	171.35	-0.02	
07	1901671	ACTIVE	135.16	130.80	-4.36	PRODUCTION INCREASED
08	1901672	INACTIVE	138.91	138.46	-0.45	
09	1902785	ACTIVE	150.91	150.22	-0.69	
10	1902786	INACTIVE	158.59	158.13	-0.46	
11	8000067	ACTIVE	160.61	159.39	-1.22	PRODUCTION INCREASED
12	8000123	ACTIVE	161.23	160.61	-0.62	
14	8000133	ACTIVE	150.43	150.14	-0.29	
SAN GABRIEL VALLEY WATER COMPANY						
G4A	1900725	ACTIVE	170.91	169.19	-1.72	PRODUCTION INCREASED
B1	1902635	ACTIVE	200.46	200.50	0.04	
B5A	1900718	ACTIVE	209.08	206.85	-2.23	BPOU EXTRACTION
B5B	1900719	INACTIVE				
B5C	8000112	ACTIVE				
B5D	8000160	ACTIVE	209.62	207.93	-1.69	IMPACT FROM BPOU EXTRACTION
B5E	NA	PLANNED	209.18	207.19	-1.99	BPOU EXTRACTION
B25A	8000187	ACTIVE	212.32	203.37	-8.95	BPOU EXTRACTION
B25B	8000188	ACTIVE				
B26A	8000189	ACTIVE	218.32	218.59	0.27	
B26B	8000190	ACTIVE				
8A	1900736	INACTIVE	180.22	177.98	-2.24	PRODUCTION INCREASED
8B	1900746	ACTIVE				
8C	1900747	ACTIVE				
8E	8000113	ACTIVE				
8D	1903103	ACTIVE	179.99	178.22	-1.77	PRODUCTION INCREASED
8F	8000169	ACTIVE				
1B	1900729	ACTIVE	204.94	212.38	7.44	PRODUCTION REDUCED
1C	1902946	ACTIVE				
1D	8000102	ACTIVE				
1E	8000172	ACTIVE				
2C	1900749	ACTIVE	199.22	201.13	1.91	PRODUCTION REDUCED
2D	1902857	ACTIVE				
2E	8000065	ACTIVE				
2F	8000197	ACTIVE				
11A	1900739	ACTIVE	204.85	209.24	4.39	PRODUCTION REDUCED
11B	1900745	ACTIVE				
11C	1902713	ACTIVE	207.96	209.66	1.70	PRODUCTION REDUCED
B4B	1902858	ACTIVE	219.52	217.35	-2.17	IMPACT FROM BPOU EXTRACTION
B4C	1902947	ACTIVE				

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)	REMARKS
			2008-09	2013-14		
B6C	1903093	ACTIVE	225.17	224.78	-0.39	
B6D	8000098	ACTIVE				
B7C	8000068	ACTIVE	218.71	220.34	1.63	PRODUCTION REDUCED
B7E	8000122	ACTIVE				
B2	1902525	INACTIVE	199.56	199.53	-0.03	
B11A	1901439	ACTIVE	219.11	219.95	0.84	
B11B	8000108	ACTIVE				
B11C	NA	PLANNED				
B9B	8000099	ACTIVE	220.80	221.52	0.72	
B24A	8000203	ACTIVE	220.98	220.13	-0.85	
B24B	8000204	ACTIVE				
SIERRA LA VERNE COUNTRY CLUB						
01	8000124	ACTIVE	1076.22	1075.86	-0.36	
02	8000125	ACTIVE	1096.19	1095.90	-0.29	
SONOCO PRODUCTS COMPANY						
01	1912786	ACTIVE	217.39	216.52	-0.87	
02	1902971	ACTIVE				
SOUTHERN CALIFORNIA EDISON COMPANY						
110RH	8000046	ACTIVE	225.75	225.60	-0.15	
2EB76	1900343	ACTIVE	220.96	221.46	0.50	
MURAT	8000047	ACTIVE	169.07	168.03	-1.04	IMPACT FROM BPOU EXTRACTION
GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN DIMAS DISTRICT						
BAS-3	1902148	ACTIVE	897.67	894.71	-2.96	PRODUCTION INCREASED
BAS-4	1902149	ACTIVE	879.57	876.35	-3.22	PRODUCTION INCREASED
HIGHWAY	1902150	ACTIVE	889.11	884.13	-4.98	PRODUCTION INCREASED
ART-2	1902152	ACTIVE	896.31	893.61	-2.70	PRODUCTION INCREASED
ART-3	1902842	ACTIVE	883.65	879.76	-3.89	PRODUCTION INCREASED
COL-4	1902268	ACTIVE	536.00	536.00	0.00	
COL-6	1902270	ACTIVE	534.49	534.49	0.00	
COL-7	1902271	ACTIVE	566.92	566.92	0.00	
COL-8	1902272	INACTIVE	745.32	745.20	-0.12	
CITY	1902286	ACTIVE	1029.32	1028.51	-0.81	
MALON	1902287	ACTIVE	995.90	994.45	-1.45	PRODUCTION INCREASED
GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN GABRIEL VALLEY DISTRICT						
S G 1	1900510	ACTIVE	146.09	146.20	0.11	
S G 2	1900511					

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)	REMARKS
			2008-09	2013-14		
GAR 1	1900513	ACTIVE	160.97	159.22	-1.75	IMPACT FROM SEMOU EXTRACTION
GAR 2	1900512	ACTIVE				
SAX 1	1900515	ACTIVE	153.92	155.09	1.17	PRODUCTION REDUCED
SAX 3	1900514	ACTIVE				
SAX 4	8000146	ACTIVE				
EARL 1	1902144	ACTIVE	169.03	167.57	-1.46	IMPACT FROM SEMOU EXTRACTION
JEF 1	1902017	INACTIVE	209.13	208.80	-0.33	
JEF 3	1902019	INACTIVE				
JEF 4	8000111	ACTIVE				
AZU 1	1902020	DESTROYED	193.14	193.25	0.11	
ENC 1	1902024	ACTIVE	175.72	176.32	0.60	
ENC 2	1902035	ACTIVE	174.62	175.18	0.56	
ENC 3	8000073	ACTIVE				
PER 1	1902027	STANDBY	197.08	197.57	0.49	
GRA 1	1902030	STANDBY	216.02	215.76	-0.26	
GRA 2	1902461					
GID 1	1902032	DESTROYED	193.26	193.29	0.03	
GID 2	1902031					
FAR 1	1902034	ACTIVE	205.75	206.90	1.15	PRODUCTION REDUCED
FAR 2	1902948	ACTIVE	204.67	205.77	1.10	PRODUCTION REDUCED
SOUTH PASADENA, CITY OF						
GRAV 2	1901679	ACTIVE	137.89	136.31	-1.58	PRODUCTION INCREASED
WIL 2	1901681	ACTIVE	136.46	136.39	-0.07	
WIL 3	1901682	ACTIVE	134.34	134.41	0.07	
WIL 4	1903086	ACTIVE				
STERLING MUTUAL WATER COMPANY						
NEW SO.	8000132	ACTIVE	210.17	211.16	0.99	
NORTH	1902096	ACTIVE				
SUBURBAN WATER SYSTEMS						
114W-1	1901613	INACTIVE	247.90	247.86	-0.04	
121W-1	8000181	ACTIVE	233.24	232.51	-0.73	
125W-2	8000087	INACTIVE	263.36	263.36	0.00	
126W-2	8000092	INACTIVE	266.85	266.86	0.01	
139W-2	1901599	ACTIVE	230.93	230.84	-0.09	
139W-4	8000069	ACTIVE				
139W-5	8000095	INACTIVE	230.64	230.56	-0.08	
139W-6	8000152	INACTIVE				
140W-3	1903067	ACTIVE	224.37	224.60	0.23	
140W-4	8000093	ACTIVE				

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)	REMARKS
			2008-09	2013-14		
140W-5	8000145	ACTIVE				
142W-2	8000183	ACTIVE	229.88	229.35	-0.53	
147W-3	8000077	ACTIVE	219.70	219.95	0.25	
151W-2	8000207	ACTIVE	225.49	225.05	-0.44	
155W-1	1902819	INACTIVE	262.86	262.86	0.00	
201W-2	1901430	ACTIVE	178.43	179.03	0.60	
201W-4 201W-9	1901433 8000208	ACTIVE ACTIVE	175.82	177.47	1.65	PRODUCTION REDUCED
201W-5	1901432	ACTIVE	180.30	181.02	0.72	
201W-6	1901434	ACTIVE	184.47	184.26	-0.21	
201W-7	8000195	ACTIVE	176.40	177.26	0.86	
201W-8	8000198	ACTIVE	178.09	178.62	0.53	
201W-10	NA	ACTIVE	184.67	182.70	-1.97	PRODUCTION INCREASED
SUNNY SLOPE WATER COMPANY						
08 09	1900026 1902792	ACTIVE ACTIVE	160.22	158.35	-1.87	PRODUCTION INCREASED
10	8000048	INACTIVE	175.59	175.33	-0.26	
13	8000157	ACTIVE	163.20	162.11	-1.09	PRODUCTION INCREASED
TYLER NURSERY						
NA	8000049	ACTIVE	193.69	193.65	-0.04	
UNITED CONCRETE PIPE CORPORATION						
NA	8000067	INACTIVE	226.16	225.96	-0.20	
UNITED ROCK PRODUCTS CORPORATION						
IRW-1	1900106	ACTIVE	224.10	223.74	-0.36	
IRW-2	1903062	ACTIVE	223.38	222.94	-0.44	
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY						
MW4-1	NA	MONITORING	179.32	179.76	0.44	SOUTH EL MONTE OPERABLE UNIT
MW4-2	NA	MONITORING	181.32	181.48	0.16	
MW4-3	NA	MONITORING	179.23	179.64	0.41	
MW4-4	NA	MONITORING	170.54	170.56	0.02	
MW4-5	NA	MONITORING	171.11	171.13	0.02	
MW4-6	NA	MONITORING	171.68	171.70	0.02	
MW4-7	NA	MONITORING	183.98	183.96	-0.02	
MW4-8	NA	MONITORING	187.45	187.46	0.01	

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)	REMARKS
			2008-09	2013-14		
MW4-9	NA	MONITORING	188.77	188.71	-0.06	
MW4-10	NA	MONITORING	196.71	196.63	-0.08	
MW4-11	NA	MONITORING	204.51	204.73	0.22	
MW5-1	NA	MONITORING	232.87	232.65	-0.22	BALDWIN PARK OPERABLE UNIT
MW5-3	NA	MONITORING	237.09	237.01	-0.08	
MW5-5	NA	MONITORING	226.24	226.08	-0.16	
MW5-8	NA	MONITORING	226.25	226.15	-0.10	
MW5-11	NA	MONITORING	237.16	237.09	-0.07	
MW5-13	NA	MONITORING	241.34	241.29	-0.05	
MW5-15	NA	MONITORING	228.47	228.41	-0.06	
MW5-17	NA	MONITORING	237.79	237.73	-0.06	
MW5-18	NA	MONITORING	239.33	239.28	-0.05	
MW5-19	NA	MONITORING	210.34	208.53	-1.81	IMPACT FROM BPOU EXTRACTION
MW5-20	NA	MONITORING	223.23	222.90	-0.33	
MW5-22	NA	MONITORING	216.58	215.55	-1.03	IMPACT FROM BPOU EXTRACTION
MW5-23	NA	MONITORING	217.14	214.81	-2.33	IMPACT FROM BPOU EXTRACTION
MW6-1	NA	MONITORING	221.00	220.91	-0.09	PUENTE VALLEY OPERABLE UINT
MW6-2	NA	MONITORING	214.09	214.26	0.17	
MW6-4	NA	MONITORING	226.64	226.65	0.01	
MW6-5	NA	MONITORING	228.62	228.61	-0.01	
MW6-6	NA	MONITORING	236.68	236.67	-0.01	
MW6-7	NA	MONITORING	317.41	317.41	0.00	
MW6-8	NA	MONITORING	427.35	427.35	0.00	
EW4-3	NA	REMEDIAL	182.00	182.15	0.15	WNOU EXTRACTION
EW4-4	NA	REMEDIAL	180.09	180.36	0.27	WNOU EXTRACTION
EW4-5 EW4-9	8000200 NA	REMEDIAL REMEDIAL	179.03	179.42	0.39	WNOU EXTRACTION
EW4-6 EW4-10	8000201 NA	REMEDIAL REMEDIAL	178.74	179.23	0.49	WNOU EXTRACTION
EW4-7	8000202	REMEDIAL	179.70	179.96	0.26	WNOU EXTRACTION
EW4-8	NA	REMEDIAL	181.93	182.07	0.14	WNOU EXTRACTION
VALENCIA HEIGHTS WATER COMPANY						
01 02	8000051 8000052	ACTIVE ACTIVE	276.36	277.52	1.16	

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)	REMARKS
			2008-09	2013-14		
04	8000054	ACTIVE	264.53	264.05	-0.48	
05	8000120	ACTIVE	294.46	293.33	-1.13	PRODUCTION INCREASED
VALLEY COUNTY WATER DISTRICT						
E MAINE	1900027	ACTIVE	226.43	226.20	-0.23	
W MAINE	1900028	ACTIVE				
MORADA	1900029	STANDBY	242.54	242.50	-0.04	
E NIXON (JOAN)	1900032	ACTIVE	224.50	224.19	-0.31	
W NIXON (JOAN)	1902356	ACTIVE				
ARROW	1900034	INACTIVE	231.02	230.81	-0.21	
LANTE (SA1-3)	8000060	ACTIVE				
PALM	8000039	INACTIVE	227.61	227.56	-0.05	
B DALTON	1900035	INACTIVE	229.43	229.37	-0.06	
PADDY LN	1900031	STANDBY	227.06	226.96	-0.10	
SA1-1	8000185	ACTIVE	233.52	233.36	-0.16	
SA1-2	8000186	ACTIVE	231.80	231.60	-0.20	
VALLEY VIEW MUTUAL WATER COMPANY						
01	1900363	ACTIVE	225.82	225.63	-0.19	
02	1900364	ACTIVE				
WHITTIER, CITY OF						
13	1901749	ACTIVE	182.44	182.53	0.09	
15	8000071	ACTIVE	179.67	180.08	0.41	
16	8000110	ACTIVE	177.75	178.35	0.60	
17	8000135	ACTIVE				
18	8000136	ACTIVE	179.08	179.63	0.55	
WOODLAND, RICHARD						
01	1902949	INACTIVE	213.86	212.78	-1.08	IMPACT FROM BPOU EXTRACTION
02	1902950	INACTIVE				
COINER, JAMES W., DBA COINER NURSERY (WOODLAND FARM INC.)						
03	1902951	INACTIVE	213.90	212.90	-1.00	IMPACT FROM BPOU EXTRACTION
05R	1903072	ACTIVE	214.96	214.57	-0.39	
				AVERAGE CHANGE	**-0.53**	

(1) SIMULATED ELEVATION IN FEET ABOVE MEAN SEA LEVEL
(2) DIFFERENCE BETWEEN 2013-14 AND 2008-09 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 JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	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	1902106	MUNICIPAL	INACTIVE	TCE	2.2	05/88	ND	02/97	VULNERABLE
				NO3	97.0	04/92	38.9	02/97	(NO3)
				CLO4	NA	NA	NA	NA	
02	1902689	MUNICIPAL	INACTIVE	TCE	3.5	08/86	2.5	09/86	VULNERABLE
				NO3	NA	NA	NA	NA	(VOCS)
				CLO4	NA	NA	NA	NA	
03	8000182	MUNICIPAL	ACTIVE	TCE	18.5	11/06	4.2	05/09	VULNERABLE
				PCE	5.1	11/06	1.7	05/09	(VOCS) (1)
				NO3	21.0	03/04	13.0	05/09	
				CLO4	ND	08/08	ND	08/08	
ALHAMBRA, CITY OF									
07	1903097	MUNICIPAL	ACTIVE	TCE	13.4	08/91	6.1	02/09	VULNERABLE
				PCE	0.8	04/07	ND	02/09	(NO3) (1)
				C-1,2-DCE	1.6	02/05	0.7	02/09	
				CTC	0.6	02/85	ND	02/09	
				NO3	53.2	07/93	43.9	08/07	
				CLO4	2.4	10/07	ND	04/09	
09	1900011	MUNICIPAL	ACTIVE	TCE	21.1	08/08	21.1	08/08	VULNERABLE
				C-1,2-DCE	2.3	10/07	2.1	10/08	(NO3) (3)
				NO3	57.3	06/93	35.9	08/07	
				CLO4	2.2	10/07	ND	04/09	
10	1900012	IRRIGATION	ACTIVE	TCE	30.1	02/09	30.1	02/09	
				C-1,2-DCE	5.8	03/05	3.6	02/09	
				1,1-DCE	0.5	03/05	ND	02/09	
				NO3	56.3	01/07	51.0	02/09	
				CLO4	ND	08/97	ND	08/97	
11	1903014	MUNICIPAL	ACTIVE	PCE	1.9	08/02	1.1	10/08	VULNERABLE
				TCE	4.2	05/89	ND	08/08	(VOCS AND NO3) (3)
				C-1,2-DCE	1.5	04/08	1.5	04/08	
				NO3	41.3	07/90	29.0	09/06	
				CLO4	ND	08/97	ND	04/09	
12	1900013	MUNICIPAL	INACTIVE	TCE	39.4	08/08	39.4	08/08	VULNERABLE
				C-1,2-DCE	33.6	08/08	33.6	08/08	(NO3) (3)
				1,1-DCE	0.8	09/08	0.8	09/08	
				T-1,2-DCE	0.9	09/08	0.7	09/08	
				NO3	34.1	08/89	32.0	08/08	
				CLO4	ND	08/08	ND	08/08	
13	1900014	MUNICIPAL	ACTIVE	TCE	0.5	08/07	0.5	10/07	VULNERABLE
				NO3	52.0	08/01	18.0	10/07	(NO3)
				CLO4	ND	03/97	ND	04/09	
14	1900015	MUNICIPAL	ACTIVE	TCE	2.4	08/08	2.1	10/08	VULNERABLE
				NO3	42.4	08/89	16.0	10/08	(NO3)
				CLO4	ND	08/97	ND	04/09	
15	1900016	MUNICIPAL	ACTIVE	VOCS	ND	05/89	ND	11/08	
				NO3	18.0	11/02	5.9	04/07	
				CLO4	ND	08/97	ND	04/09	
GARF	1900018	MUNICIPAL	INACTIVE	TCE	11.0	08/82	ND	09/93	VULNERABLE
				PCE	0.5	11/87	ND	09/93	(VOCS)
				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	
LON 1	1902789	MUNICIPAL	ACTIVE	PCE	0.3	07/81	ND	08/08	VULNERABLE
				NO3	23.0	09/04	17.0	09/08	(NO3 AND CLO4)

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
				CLO4	5.0	12/97	ND	04/09	
LON 2	1900017	MUNICIPAL	ACTIVE	MC	4.3	05/87	ND	08/08	VULNERABLE
				NO3	50.4	04/86	20.3	08/07	(VOCS, NO3, AND CLO4)
				CLO4	5.6	07/97	ND	04/09	
MOEL (8)	1900010	MUNICIPAL	ACTIVE	TCE	14.1	07/08	14.1	07/08	
				PCE	1.6	07/08	1.6	07/08	
				C-1,2-DCE	0.9	04/04	0.9	07/08	
				NO3	76.0	07/08	76.0	07/08	
				CLO4	ND	12/99	ND	04/09	
AMARILLO MUTUAL WATER COMPANY									
01	1900791	MUNICIPAL	ACTIVE	PCE	5.5	10/99	1.7	05/09	VULNERABLE
				TCE	1.2	02/08	ND	05/09	(VOCS AND NO3)
				CTC	0.1	08/82	ND	08/08	
				MC	3.2	06/89	ND	08/08	
				NO3	27.4	10/99	24.0	05/09	
				CLO4	ND	08/97	ND	08/08	
02	1900792	MUNICIPAL	ACTIVE	PCE	5.7	02/02	3.7	05/09	VULNERABLE
				TCE	1.5	01/99	ND	05/09	(VOCS AND NO3)
				MC	2.0	06/89	ND	08/08	
				NO3	29.9	02/96	17.0	05/09	
				CLO4	ND	08/97	ND	08/08	
ANDERSON FAMILY MARITAL TRUST									
01	8000079	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
ARCADIA, CITY OF									
BAL 1	1901015	MUNICIPAL	INACTIVE	VOCS	ND	09/98	ND	09/98	VULNERABLE
				NO3	52.0	04/78	3.0	09/98	(NO3)
				CLO4	NA	NA	NA	NA	
BAL 2	1902791	MUNICIPAL	ACTIVE	VOCS	ND	05/89	ND	06/09	VULNERABLE
				NO3	33.4	05/08	29.0	06/09	(NO3)
				CLO4	ND	08/97	ND	07/08	
CAM REAL 1	1902077	MUNICIPAL	INACTIVE	VOCS	ND	01/85	ND	05/92	VULNERABLE
				NO3	28.1	05/91	22.4	08/92	(NO3)
				CLO4	NA	NA	NA	NA	
CAM REAL 2	1902078	MUNICIPAL	INACTIVE	VOCS	ND	05/89	ND	06/98	VULNERABLE
				NO3	58.0	05/92	39.0	05/98	(NO3)
				CLO4	ND	08/97	ND	12/97	
L OAK 1	8000127	MUNICIPAL	ACTIVE	PCE	1.4	01/08	ND	06/09	
				TCE	1.6	12/08	1.4	06/09	
				NO3	21.5	03/91	17.0	06/09	
				CLO4	ND	08/97	ND	07/08	
LGY	1902084	MUNICIPAL	INACTIVE	CF	1.0	01/08	1.0	01/08	VULNERABLE
				NO3	104.0	01/08	104.0	01/08	(CLO4)
				CLO4	6.0	01/08	6.0	01/08	
LON 1	1901013	MUNICIPAL	ACTIVE	TCE	30.0	07/87	0.7	06/09	VULNERABLE
				PCE	2.7	07/87	ND	06/09	(VOCS AND NO3) (1)
				1,1-DCE	4.1	06/87	ND	06/09	
				1,2-DCA	1.4	07/87	ND	06/09	
				1,1,1-TCA	4.6	07/87	ND	06/09	
				MC	25.0	09/87	ND	06/09	
				NO3	40.0	11/02	37.0	06/09	
				CLO4	ND	12/97	ND	07/08	

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HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
LON 2	1901014	MUNICIPAL	ACTIVE	TCE	62.0	01/85	0.7	03/08	VULNERABLE (VOCS) (1)
				PCE	7.7	01/82	ND	03/08	
				CTC	2.6	09/87	ND	06/07	
				1,1-DCE	0.9	05/87	ND	03/08	
				1,1,1-TCA	12.0	01/85	ND	06/07	
				NO3	109.1	05/85	48.6	03/08	
				CLO4	ND	07/97	ND	06/03	
PECK 1	1902854	MUNICIPAL	ACTIVE	VOCS	ND	05/89	ND	06/09	
				NO3	3.4	02/88	2.5	06/09	
				CLO4	ND	08/97	ND	07/08	
ST JO 1	1902358	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	
ST JO 2	8000177	MUNICIPAL	ACTIVE	TCE	2.3	12/04	1.8	06/09	VULNERABLE (VOCS AND CLO4)
				PCE	3.5	06/09	3.5	06/09	
				NO3	51.0	12/04	49.0	06/09	
				CLO4	8.6	06/02	ND	07/08	
ATTALLA, MARY L.									
NA	8000119	IRRIGATION	ACTIVE	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	1900390	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	
AZUSA, CITY OF									
05 (OLD 01)	1902533	MUNICIPAL	ACTIVE	TCE	1.0	12/80	ND	08/08	VULNERABLE (NO3)
				PCE	0.3	12/80	ND	08/08	
				CF	1.5	08/04	1.3	08/08	
				NO3	22.9	07/95	7.1	08/08	
				CLO4	ND	07/97	ND	08/08	
06 (OLD 03)	1902535	MUNICIPAL	ACTIVE	VOCS	ND	03/85	ND	08/08	
				NO3	14.2	03/95	3.7	08/08	
				CLO4	ND	07/97	ND	08/08	
GENESIS 1 (OLD 04)	1902536	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	
GENESIS 2 (OLD 05)	1902537	MUNICIPAL	INACTIVE	TCE	250.0	12/79	3.7	02/08	VULNERABLE (NO3)
				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	
GENESIS 3 (OLD 06)	1902538	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)	8000072	MUNICIPAL	ACTIVE	VOCS	ND	06/87	ND	11/08	
				NO3	4.5	07/97	3.8	08/08	
				CLO4	ND	07/97	ND	08/08	
03 (OLD 08)	8000086	MUNICIPAL	ACTIVE	VOCS	ND	06/87	ND	08/08	
				NO3	4.4	03/95	ND	08/08	

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WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
				CLO4	ND	07/97	ND	08/08	
02	1902457	MUNICIPAL	ACTIVE	VOCS	ND	06/89	ND	08/08	
(01 NORTH)				NO3	5.5	03/92	3.6	08/08	
				CLO4	ND	07/97	ND	08/08	
04	1902458	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	08/08	
(02 SOUTH)				NO3	5.5	06/89	2.8	08/08	
				CLO4	ND	07/97	ND	08/08	
AVWC 01	1902113	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	1902114	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	
08	1902115	MUNICIPAL	ACTIVE	TCE	0.8	03/94	ND	08/08	
(AVWC 04)				CF	0.5	08/04	ND	08/08	
				NO3	12.1	09/94	3.7	08/08	
				CLO4	ND	07/97	ND	08/08	
07	1902116	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	08/08	VULNERABLE
(AVWC 05)				NO3	24.7	04/95	2.4	08/08	(NO3)
				CLO4	ND	06/97	ND	08/08	
09	1902117	MUNICIPAL	INACTIVE	PCE	7.4	12/87	0.6	01/99	VULNERABLE
(AVWC 06)				NO3	117.7	12/89	84.0	01/99	(VOCS)
				CLO4	NA	NA	NA	NA	
AVWC 07	1902425	MUNICIPAL	DESTROYED	TCE	4.5	01/80	ND	03/85	
				NO3	107.0	02/77	39.4	12/85	
				CLO4	NA	NA	NA	NA	
10	8000103	MUNICIPAL	ACTIVE	PCE	0.9	02/09	0.7	05/09	
(AVWC 08)				CF	1.4	03/94	ND	11/08	
				NO3	66.0	05/08	57.0	05/09	
				CLO4	12.6	08/05	11.0	05/09	
11	8000178	MUNICIPAL	ACTIVE	VOCS	ND	06/02	ND	08/08	
				NO3	3.7	08/08	3.5	10/08	
				CLO4	ND	06/02	ND	08/08	
12	8000179	MUNICIPAL	ACTIVE	VOCS	ND	06/02	ND	08/08	
				NO3	3.9	08/08	3.6	10/08	
				CLO4	ND	06/02	ND	08/08	
B & B RED-I-MIX CONCRETE INC.									
03	1902589	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
BANKS, GALE & VICKI									
NA	1900415	IRRIGATION	ACTIVE	VOCS	ND	08/96	ND	10/08	
				NO3	20.7	10/98	16.0	10/08	
				CLO4	ND	09/97	ND	09/97	
BASELINE WATER COMPANY									
01	1901200	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	1901201	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	

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WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
03	1901202	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	8000004	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	
BIRENBAUM, MAX									
NA	8000005	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
BOTELLO WATER COMPANY									
NA	1900635	MUNICIPAL	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
BURBANK DEVELOPMENT COMPANY									
BURB	1900093	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	1900355	MUNICIPAL	ACTIVE	VOCS	ND	02/85	ND	09/08	
				NO3	3.6	08/90	2.7	09/08	
				CLO4	ND	06/97	ND	06/08	
BACON	1900497	MUNICIPAL	ACTIVE	BF	1.8	09/08	1.8	09/08	
				DBCM	1.0	10/06	ND	09/08	
				MC	0.6	06/89	ND	09/08	
				NO3	10.0	10/81	7.5	09/08	
				CLO4	ND	06/97	ND	06/08	
CR HV	1903018	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	09/08	
				NO3	7.8	07/86	3.4	09/08	
				CLO4	ND	06/97	ND	09/03	
ENCANTO	8000139	MUNICIPAL	ACTIVE	VOCS	ND	12/92	ND	12/08	
				NO3	11.3	12/92	5.4	09/08	
				CLO4	ND	06/97	ND	06/08	
FISH C	1900358	MUNICIPAL	ACTIVE	VOCS	ND	02/85	ND	12/08	
				NO3	6.7	11/94	2.3	12/08	
				CLO4	ND	06/97	ND	06/08	
LAS L	1900357	MUNICIPAL	DESTROYED	VOCS	ND	02/85	ND	06/91	
				NO3	12.1	08/80	4.1	09/91	
				CLO4	NA	NA	NA	NA	
LAS L2	8000140	MUNICIPAL	ACTIVE	TCE	1.6	08/96	ND	09/08	
				NO3	16.6	12/92	7.3	09/08	
				CLO4	ND	06/97	ND	06/08	
MT AVE	1900356	MUNICIPAL	DESTROYED	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	

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WELL NAME	RECORDATION NUMBER	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	
STA FE	1900354	MUNICIPAL	ACTIVE	TCE	3.3	04/84	ND	09/08	VULNERABLE
				CF	0.5	07/87	ND	09/08	(VOCS AND NO3)
				MC	0.5	09/08	0.5	09/08	
				NO3	59.0	01/80	3.4	09/08	
				CLO4	ND	06/97	ND	06/08	
WILEY	1902907	MUNICIPAL	ACTIVE	CF	4.2	09/01	ND	09/08	
				NO3	11.0	03/81	6.9	09/08	
				CLO4	ND	06/97	ND	06/08	
CALIFORNIA-AMERICAN WATER COMPANY/SAN MARINO SYSTEM									
BR 1	1901441	MUNICIPAL	INACTIVE	CTC	0.5	12/96	0.5	12/96	VULNERABLE
				TCE	27.0	07/93	27.0	12/96	(NO3)
				PCE	9.0	07/93	7.7	12/96	
				NO3	31.4	12/96	31.4	12/96	
				CLO4	NA	NA	NA	NA	
BR 2	1902787	MUNICIPAL	INACTIVE	TCE	17.0	12/96	17.0	12/96	VULNERABLE
				PCE	6.4	12/96	6.4	12/96	(NO3)
				NO3	25.3	07/93	25.1	12/96	
				CLO4	NA	NA	NA	NA	
DELMAR	1903059	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	09/08	
				NO3	13.4	09/00	13.0	09/08	
				CLO4	ND	06/97	ND	07/08	
GRAND	1900926	MUNICIPAL	ACTIVE	TCE	4.8	03/07	1.4	06/09	VULNERABLE
				PCE	2.1	12/08	0.6	06/09	(VOCS)
				NO3	10.9	09/03	6.5	09/08	
				CLO4	ND	08/97	ND	07/08	
GUESS	1900918	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	
HALL	1900917	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
HALL 2	8000175	MUNICIPAL	ACTIVE	VOCS	ND	03/01	ND	06/09	VULNERABLE
				NO3	23.6	04/01	13.0	09/08	(NO3)
				CLO4	ND	03/00	ND	07/08	
HOWLAND	1902424	MUNICIPAL	ACTIVE	TCE	6.9	07/89	0.6	06/09	VULNERABLE
				PCE	3.6	03/01	ND	06/09	(VOCS)
				C-1,2-DCE	3.3	11/87	ND	09/08	
				MC	7.5	05/87	ND	09/08	
				NO3	12.4	09/91	11.0	09/08	
				CLO4	ND	08/97	ND	07/08	
IVAR 1	1900923	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	
IVAR 2	1902867	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	24.0	12/84	24.0	12/84	
				CLO4	NA	NA	NA	NA	
LONGDEN	1900935	MUNICIPAL	ACTIVE	PCE	7.5	03/09	6.1	06/09	VULNERABLE
				NO3	69.6	03/08	65.0	06/09	(CLO4)
				CLO4	4.1	03/03	ND	07/08	
MAR 1	1900924	MUNICIPAL	DESTROYED	VOCS	ND	01/85	ND	01/85	
				NO3	89.0	03/79	39.0	01/84	

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WELL NAME	RECORDATION NUMBER	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	
MAR 2	1900925	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	33.0	01/84	33.0	01/84	
				CLO4	NA	NA	NA	NA	
MAR 3	1903019	MUNICIPAL	ACTIVE	VOCS	ND	01/85	ND	09/08	
				NO3	5.8	09/08	5.8	09/08	
				CLO4	ND	06/97	ND	07/08	
MIVW 1	1900919	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	31.0	03/01	31.0	03/01	
				CLO4	NA	NA	NA	NA	
MIVW 2	1900920	MUNICIPAL	ACTIVE	VOCS	ND	07/87	ND	09/08	
				NO3	20.0	09/08	20.0	09/08	
				CLO4	ND	06/97	ND	07/08	
RIC 1	1900921	MUNICIPAL	INACTIVE	VOCS	ND	02/85	ND	12/90	VULNERABLE
				NO3	23.4	08/89	11.8	11/94	(NO3)
				CLO4	NA	NA	NA	NA	
RIC 2	1900922	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
ROANOKE	1900934	MUNICIPAL	INACTIVE	TCE	5.0	06/00	4.7	12/00	VULNERABLE
				PCE	1.2	04/90	ND	09/00	(VOCS, NO3, AND CLO4)
				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	
ROSEMEAD	1900927	MUNICIPAL	ACTIVE	TCE	4.7	12/01	2.0	06/09	VULNERABLE
				PCE	3.4	03/09	2.3	06/09	(VOCS AND NO3)
				NO3	36.0	09/08	34.0	06/09	
				CLO4	ND	08/97	ND	07/08	
CALIFORNIA COUNTRY CLUB									
ARTES	1902531	IRRIGATION	STANDBY	VOCS	ND	05/87	ND	10/08	VULNERABLE
				NO3	23.7	10/07	17.0	10/08	(NO3)
				CLO4	NA	NA	NA	NA	
CLUB	1902529	IRRIGATION	INACTIVE	PCE	189.0	11/87	189.0	11/87	
				1,1,2,2-PCA	24.0	11/87	24.0	11/87	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
SYCAMORE	1903084	IRRIGATION	STANDBY	PCE	7.1	09/02	1.1	10/08	VULNERABLE
				TCE	0.7	09/01	ND	10/08	(VOCS)
				NO3	128.0	10/07	76.0	10/08	
				CLO4	ND	02/98	ND	02/98	
CALIFORNIA DOMESTIC WATER COMPANY									
01-E	1901182	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
02	1901181	MUNICIPAL	ACTIVE	CTC	0.7	09/96	ND	04/09	VULNERABLE
				PCE	2.0	04/08	0.6	04/09	(VOCS, NO3, AND CLO4)
				TCE	4.0	10/99	ND	04/09	
				NO3	24.3	08/96	9.2	04/09	
				CLO4	5.6	10/99	ND	05/09	
03	1903057	MUNICIPAL	ACTIVE	CTC	5.3	02/01	1.5	04/09	VULNERABLE
				PCE	10.1	01/09	8.6	04/09	(NO3) (1)
				TCE	16.0	01/09	13.0	04/09	
				1,1-DCE	2.2	01/09	1.5	04/09	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	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	1.5	10/08	1.1	04/09	
				CF	0.7	08/04	ND	04/09	
				NO3	47.6	01/07	22.0	04/09	
				CLO4	9.5	12/08	7.5	05/09	
05	1901183	MUNICIPAL	DESTROYED	PCE	2.0	02/85	ND	12/90	
				NO3	13.0	03/84	13.0	03/84	
				CLO4	NA	NA	NA	NA	
05A	8000100	MUNICIPAL	ACTIVE	CTC	1.9	08/96	0.7	04/09	VULNERABLE
				PCE	14.6	10/08	6.1	04/09	(NO3) (1)
				TCE	17.8	10/08	7.1	04/09	
				1,1-DCE	2.7	10/08	1.0	04/09	
				C-1,2-DCE	1.6	10/08	0.6	04/09	
				NO3	29.0	04/01	10.0	04/09	
				CLO4	ND	06/97	ND	05/09	
06	1902967	MUNICIPAL	ACTIVE	CTC	3.5	12/06	ND	04/09	VULNERABLE
				PCE	16.1	10/08	13.0	04/09	(NO3 AND CLO4) (1)
				TCE	23.7	10/08	16.0	04/09	
				1,1-DCE	4.5	10/08	2.3	04/09	
				C-1,2-DCE	2.6	10/08	1.4	04/09	
				NO3	29.0	06/08	27.0	04/09	
				CLO4	5.1	10/06	3.6	05/09	
08	1903081	MUNICIPAL	ACTIVE	PCE	9.8	02/09	2.0	04/09	VULNERABLE
				TCE	12.0	02/09	ND	04/09	(VOCS, NO3, AND CLO4)
				CTC	1.1	09/93	ND	04/09	
				NO3	24.0	08/02	15.0	04/09	
				CLO4	5.6	08/02	ND	05/09	
13-N	1901185	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
14	8000174	MUNICIPAL	ACTIVE	CTC	4.4	10/07	0.5	06/08	VULNERABLE
				PCE	3.9	04/01	1.9	06/08	(NO3) (1)
				TCE	18.0	05/01	5.3	06/08	
				1,2-DCA	1.0	06/08	0.7	06/08	
				C-1,2-DCE	0.7	11/01	ND	06/08	
				1,1-DCE	0.6	08/02	ND	06/08	
				CF	1.3	06/08	0.8	06/08	
				NO3	41.7	02/00	25.0	01/09	
				CLO4	14.0	11/01	13.0	06/08	
CEDAR AVENUE MUTUAL WATER COMPANY									
01 SOUTH	1901411	MUNICIPAL	DESTROYED	PCE	2.2	09/90	ND	06/94	
				NO3	26.8	08/93	8.9	06/94	
				CLO4	NA	NA	NA	NA	
02 NORTH	1902783	MUNICIPAL	DESTROYED	PCE	0.8	04/92	ND	06/94	
				NO3	20.0	01/86	7.4	08/93	
				CLO4	NA	NA	NA	NA	
CEMEX CONSTRUCTION MATERIALS L.P. (AZ TWO)									
02	1900038	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									

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
01	1900908	MUNICIPAL	INACTIVE	PCE	3.0	09/86	2.1	09/91	VULNERABLE (VOCS)
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
02	1902816	MUNICIPAL	ACTIVE	PCE	0.6	06/88	ND	09/08	VULNERABLE (NO3)
				NO3	27.0	06/09	27.0	06/09	
				CLO4	ND	09/97	ND	09/08	
03	8000121	MUNICIPAL	ACTIVE	PCE	1.3	09/96	ND	09/08	VULNERABLE (NO3)
				FREON 113	18.0	03/07	ND	06/09	
				NO3	24.0	03/09	23.0	06/09	
				CLO4	ND	03/98	ND	09/08	
CHEVRON USA INC.									
TEMP 1	1900250	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	8000138	NON-POTABLE	ACTIVE	VOCS	ND	09/96	ND	10/08	
				NO3	104.8	02/98	89.0	10/08	
				CLO4	24.0	02/98	24.0	02/98	
CLAYTON MANUFACTURING COMPANY									
02	1901055	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	1902951	NON-POTABLE	INACTIVE	PCE	293.5	02/98	170.0	10/01	VULNERABLE (NO3 AND CLO4)
				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	1903072	NON-POTABLE	ACTIVE	PCE	7.7	02/98	0.5	10/08	VULNERABLE (VOCS, NO3 AND CLO4)
				TCE	1.6	10/01	ND	10/08	
				CTC	2.7	07/96	ND	10/08	
				1,1-DCE	5.5	10/01	0.8	10/08	
				CF	6.7	02/98	ND	10/08	
				NO3	84.8	11/05	30.0	10/08	
				CLO4	9.0	02/98	4.0	09/98	
CORCORAN BROTHERS									
01	1902814	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
COUNTY SANITATION DISTRICT NO. 18									
E08A	8000128	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
E09A	8000129	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	

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WELL NAME	RECORDATION NUMBER	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	
E10A	8000130	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
E11A	8000131	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
EX1	8000141	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
EX2	8000142	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
EX3	8000143	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
EX4	8000144	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
LE1	8000104	REMEDIAL	ACTIVE	TCE	4.2	06/86	3.7	09/86	VULNERABLE
				PCE	0.8	09/86	0.8	09/86	(VOCS)
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
LE2	8000105	REMEDIAL	ACTIVE	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	8000106	REMEDIAL	ACTIVE	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	8000107	REMEDIAL	ACTIVE	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	1901685	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)	1901686	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	
03	1901687	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	72.0	10/73	72.0	10/73	
				CLO4	NA	NA	NA	NA	
COVINA IRRIGATING COMPANY									
BAL 1	1900885	MUNICIPAL	ACTIVE	TCE	200.0	07/80	ND	10/08	VULNERABLE
				PCE	7.6	07/80	ND	10/08	(VOCS AND NO3)
				1,1-DCE	0.5	10/06	ND	10/08	
				MC	0.9	10/06	ND	10/08	
				NO3	35.5	12/89	5.4	01/09	
				CLO4	1.5	10/06	ND	09/08	

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HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
BAL 2	1900883	MUNICIPAL	ACTIVE	TCE	195.0	06/80	ND	10/08	VULNERABLE
				PCE	7.9	06/80	ND	10/08	(VOCS, NO3 AND CLO4)
				1,1-DCE	0.8	07/07	ND	04/09	
				NO3	42.7	12/89	33.0	04/09	
				CLO4	5.5	03/09	5.5	03/09	
BAL 3	1900882	MUNICIPAL	ACTIVE	TCE	225.0	01/80	ND	10/08	VULNERABLE
				PCE	10.0	02/85	ND	10/08	(VOCS, NO3 AND CLO4)
				CTC	3.0	04/85	ND	10/08	
				1,1-DCA	4.0	04/85	ND	10/08	
				1,2-DCA	3.7	02/85	ND	10/08	
				1,1-DCE	2.1	04/85	ND	10/08	
				T-1,2-DCE	2.9	02/85	ND	10/08	
				1,1,1-TCA	5.2	04/85	ND	10/08	
				NO3	57.3	08/89	34.0	04/09	
				CLO4	5.6	09/08	4.5	04/09	
CONTR	1900881	MUNICIPAL	INACTIVE	PCE	1.4	12/92	1.3	03/94	
				NO3	125.3	12/89	108.0	03/94	
				CLO4	NA	NA	NA	NA	
VALEN	1900880	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	8000011	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
CROWN CITY PLATING COMPANY									
01	8000012	INDUSTRIAL	ACTIVE	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	8000013	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
DAWES, MARY K.									
04	1902952	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
DEL RIO MUTUAL WATER COMPANY									
BURKETT	1900331	MUNICIPAL	ACTIVE	TCE	2.2	06/90	ND	09/08	VULNERABLE
				PCE	3.7	03/97	ND	09/08	(VOCS AND NO3)
				NO3	31.0	12/03	15	09/08	
				CLO4	ND	09/97	ND	09/08	
KLING	1900332	MUNICIPAL	INACTIVE	PCE	1.3	08/86	ND	02/89	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
DRIFTWOOD DAIRY									
01	1902924	INDUSTRIAL	ACTIVE	PCE	13.9	06/98	13.9	06/98	
				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									

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WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
1910	1900091	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
EAST PASADENA WATER COMPANY, LTD.									
09	1901508	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	07/08	
				NO3	4.1	03/98	3.6	03/09	
				CLO4	ND	07/97	ND	03/09	
EL MONTE, CITY OF									
02A	1901692	MUNICIPAL	ACTIVE	PCE	13.0	03/98	5.7	04/09	VULNERABLE
				TCE	5.3	01/95	1.8	04/09	(NO3) (1)
				NO3	24.5	04/08	12.0	04/09	
				CLO4	ND	07/97	ND	07/08	
03	1901693	MUNICIPAL	STANDBY	PCE	23.6	12/00	5.8	09/08	
				1,1,1-TCA	1.0	11/93	ND	07/08	
				NO3	71.6	08/89	49.0	04/09	
				CLO4	ND	07/97	ND	07/08	
04	1901694	MUNICIPAL	ACTIVE	PCE	16.2	03/84	0.6	01/08	VULNERABLE
				TCE	7.8	02/80	ND	12/07	(VOCS AND NO3)
				NO3	44.4	12/07	40.3	01/08	
				CLO4	ND	07/97	ND	07/03	
05	1901695	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	
10	1901699	MUNICIPAL	ACTIVE	TCE	7.2	09/81	ND	04/09	VULNERABLE
				PCE	17.7	12/93	2.6	04/09	(VOCS) (1)
				NO3	20.0	04/09	20.0	04/09	
				CLO4	ND	06/97	ND	09/08	
11	1901700	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	21.6	07/79	21.6	07/79	
				CLO4	NA	NA	NA	NA	
12	1903137	MUNICIPAL	ACTIVE	TCE	53.2	06/92	34.0	04/09	VULNERABLE
				PCE	18.4	07/08	14.0	04/09	(NO3) (1)
				CTC	1.0	06/92	ND	04/09	
				NO3	41.0	06/05	33.0	04/09	
				CLO4	ND	06/97	ND	07/08	
13	8000101	MUNICIPAL	ACTIVE	PCE	2.7	10/08	1.2	04/09	VULNERABLE
				TCE	2.9	10/08	1.0	04/09	(VOCS)
				NO3	17.0	03/03	11.1	03/09	
				CLO4	ND	07/97	ND	07/08	
MT VW	1902612	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	
EL MONTE CEMETERY ASSOCIATION									
NA	8000017	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
FRUIT STREET WATER COMPANY									
NA	1901199	IRRIGATION	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	

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WELL NAME	RECORDATION NUMBER	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	
GIFFORD, BROOKS JR.									
01	1902144	NA	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
GLENDORA, CITY OF									
01-E	1901523	MUNICIPAL	ACTIVE	TCE	0.8	12/80	ND	09/07	VULNERABLE
				NO3	38.1	10/88	35.0	08/08	(NO3)
				CLO4	ND	06/97	ND	03/03	
02-E	1901526	MUNICIPAL	ACTIVE	VOCS	ND	03/85	ND	09/08	VULNERABLE
				NO3	70.0	05/78	9.4	12/08	(NO3)
				CLO4	ND	07/97	ND	09/08	
03-G	1901525	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	1901524	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	
05-E	8000149	MUNICIPAL	ACTIVE	VOCS	ND	02/95	ND	09/08	
				NO3	3.2	05/95	2.1	06/09	
				CLO4	ND	07/97	ND	09/08	
07-G	1900831	MUNICIPAL	INACTIVE	TCE	302.0	01/81	ND	04/98	VULNERABLE
				PCE	25.0	01/81	1.9	04/98	(VOCS AND CLO4) (3)
				1,1-DCE	435.0	05/84	ND	04/98	
				C-1,2-DCE	21.0	05/82	ND	04/98	
				1,1-DCA	5.0	05/84	ND	04/98	
				1,2-DCA	12.1	12/93	ND	04/98	
				1,1,1-TCA	3,200	05/84	64.0	04/98	
				NO3	106.0	04/98	75.9	04/98	
				CLO4	5.3	04/98	5.3	04/98	
08-E	1900829	MUNICIPAL	ACTIVE	MC	0.7	08/02	ND	03/09	
				NO3	6.6	08/86	ND	12/08	
				CLO4	ND	07/97	ND	09/08	
09-E	1900830	MUNICIPAL	ACTIVE	VOCS	ND	05/89	ND	09/08	
				NO3	4.1	08/96	ND	12/08	
				CLO4	ND	07/97	ND	09/08	
10-E	1900828	MUNICIPAL	ACTIVE	CF	1.9	07/97	ND	03/09	VULNERABLE
				NO3	78.0	05/77	40.0	06/09	(NO3)
				CLO4	ND	07/97	ND	09/08	
11-E	1900826	MUNICIPAL	ACTIVE	VOCS	ND	05/82	ND	10/08	
				NO3	117.5	08/73	48.0	06/09	
				CLO4	ND	07/97	ND	09/08	
12-G	1900827	MUNICIPAL	ACTIVE	TCE	0.9	12/80	ND	09/08	
				MC	2.2	05/89	ND	09/08	
				NO3	4.7	07/98	ND	12/08	
				CLO4	ND	06/97	ND	09/08	
13-E	8000184	MUNICIPAL	ACTIVE	BF	0.7	06/04	ND	03/09	VULNERABLE
				NO3	25.0	06/09	25.0	06/09	(NO3)
				CLO4	ND	06/04	ND	09/08	
GOEDERT, LILLIAN									

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
GOEDERT	8000159	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 GABRIEL VALLEY DISTRICT									
AZU 1	1902020	MUNICIPAL	DESTROYED	TCE	15.0	07/93	0.6	01/95	
				PCE	1.9	07/93	ND	01/95	
				NO3	72.9	12/90	35.0	07/02	
				CLO4	NA	NA	NA	10/02	
EARL 1	1902144	MUNICIPAL	ACTIVE	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	
ENC 1	1902024	MUNICIPAL	ACTIVE	TCE	21.0	04/03	5.8	06/09	VULNERABLE
				PCE	3.5	04/03	1.9	06/09	(NO3 AND CLO4) (1)
				CF	0.9	08/00	ND	11/08	
				NO3	77.6	08/91	33.0	06/09	
				CLO4	4.2	12/03	ND	11/08	
ENC 2	1902035	MUNICIPAL	ACTIVE	TCE	29.1	02/01	8.8	06/09	(1)
				PCE	6.1	02/01	4.2	06/09	
				NO3	21.0	02/09	18.0	06/09	
				CLO4	ND	08/97	ND	04/08	
ENC 3	8000073	MUNICIPAL	ACTIVE	PCE	4.7	01/02	2.9	06/09	VULNERABLE
				TCE	11.0	01/02	7.3	06/09	(NO3) (1)
				NO3	43.2	07/93	18.0	06/09	
				CLO4	ND	09/97	ND	04/08	
FAR 1	1902034	MUNICIPAL	ACTIVE	TCE	11.9	10/80	ND	02/09	VULNERABLE
				PCE	3.1	10/87	ND	02/09	(VOCS)
				NO3	13.0	07/89	ND	06/09	
				CLO4	ND	08/97	ND	06/09	
FAR 2	1902948	MUNICIPAL	ACTIVE	TCE	12.9	07/80	ND	06/09	VULNERABLE
				PCE	2.6	10/87	ND	08/08	(VOCS)
				NO3	12.2	07/90	4.2	08/08	
				CLO4	ND	08/97	ND	08/08	
GAR 1	1900513	MUNICIPAL	ACTIVE	CF	0.8	08/99	ND	07/03	VULNERABLE
				PCE	4.5	10/03	4.5	10/03	(VOCS)
				NO3	8.3	08/03	7.7	09/03	
				CLO4	ND	08/97	ND	08/03	
GAR 2	1900512	MUNICIPAL	ACTIVE	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	
GID 1	1902032	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	1902031	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	1902030	MUNICIPAL	INACTIVE	TCE	33.0	09/88	25.4	11/94	VULNERABLE
				PCE	2.5	11/93	0.6	11/94	(NO3)
				NO3	86.8	08/89	44.4	07/95	
				CLO4	NA	NA	NA	NA	
GRA 2	1902461	MUNICIPAL	INACTIVE	TCE	31.3	08/89	24.6	08/94	VULNERABLE
				PCE	3.3	09/94	3.3	09/94	(NO3)

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	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	
JEF 1	1902017	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	1902018	MUNICIPAL	INACTIVE	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	1902019	MUNICIPAL	INACTIVE	TCE	121.0	02/81	4.9	08/92	VULNERABLE
				PCE	12.0	03/81	0.6	08/92	(VOCS AND NO3) (3)
				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	
JEF 4	8000111	MUNICIPAL	ACTIVE	VOCS	ND	08/89	ND	08/08	
				NO3	14.7	07/89	5.5	08/08	
				CLO4	ND	08/97	ND	08/08	
PER 1	1902027	MUNICIPAL	ACTIVE	TCE	25.8	10/80	1.1	06/09	VULNERABLE
				PCE	6.8	07/87	0.5	06/09	(VOCS AND NO3) (3)
				NO3	22.8	08/86	19.0	08/08	
				CLO4	ND	08/97	ND	08/08	
S G 1	1900510	MUNICIPAL	ACTIVE	TCE	6.8	12/03	ND	06/09	VULNERABLE
				PCE	46.0	04/06	7.8	06/09	(NO3 AND CLO4) (1)
				C-1,2-DCE	1.8	11/04	ND	06/09	
				1,1-DCA	1.8	06/04	ND	06/09	
				1,1-DCE	0.7	11/04	ND	06/09	
				FREON 11	1.2	08/03	ND	08/08	
				NO3	27.0	04/02	21.0	06/09	
				CLO4	8.1	08/03	ND	06/09	
S G 2	1900511	MUNICIPAL	ACTIVE	TCE	3.6	06/99	ND	10/05	VULNERABLE
				PCE	11.0	02/03	0.8	10/05	(VOCS AND CLO4) (1)
				C-1,2-DCE	1.2	02/01	ND	10/05	
				NO3	53.1	10/05	53.1	10/05	
				CLO4	7.0	02/03	ND	10/05	
SAX 1	1900515	MUNICIPAL	DESTROYED	PCE	1.4	04/97	0.9	12/97	VULNERABLE
				MC	2.2	04/89	ND	08/97	(NO3)
				NO3	33.1	10/97	33.1	10/97	
				CLO4	ND	08/97	ND	12/97	
SAX 3	1900514	MUNICIPAL	ACTIVE	VOCS	ND	04/89	ND	08/08	VULNERABLE
				NO3	27.3	11/96	2.3	08/08	(NO3)
				CLO4	ND	08/97	ND	08/08	
SAX 4	8000146	MINICIPAL	ACTIVE	VOCS	ND	03/92	ND	08/08	
				NO3	11.9	08/99	ND	08/08	
				CLO4	ND	08/97	ND	08/08	
GOLDEN STATE WATER COMPANY/SAN DIMAS DISTRICT									
ART-1	1902151	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	60.0	10/74	60.0	10/74	
				CLO4	NA	NA	NA	NA	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
ART-2	1902152	MUNICIPAL	ACTIVE	VOCS	ND	06/89	ND	05/07	VULNERABLE (NO3)
				NO3	26.2	08/07	9.4	09/07	
				CLO4	ND	08/97	ND	09/07	
ART-3	1902842	MUNICIPAL	ACTIVE	VOCS	ND	05/89	ND	05/09	VULNERABLE (NO3 AND CLO4)
				NO3	60.0	01/73	33.0	05/09	
				CLO4	4.7	02/09	4.0	05/09	
BAS-3	1902148	MUNICIPAL	ACTIVE	VOCS	ND	06/89	ND	05/09	VULNERABLE (NO3 AND CLO4)
				NO3	67.0	01/03	24.0	05/09	
				CLO4	17.0	03/03	ND	05/09	
BAS-4	1902149	MUNICIPAL	ACTIVE	VOCS	ND	03/85	ND	05/09	
				NO3	106.0	05/76	87.0	05/09	
				CLO4	20.0	01/02	13.0	05/09	
CITY	1902286	MUNICIPAL	ACTIVE	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	
COL-1	1902266	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	93.0	09/75	10.0	10/76	
				CLO4	NA	NA	NA	NA	
COL-2	1902267	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	117.5	10/76	117.5	10/76	
				CLO4	NA	NA	NA	NA	
COL-4	1902268	MUNICIPAL	ACTIVE	CF	7.5	09/97	ND	02/08	VULNERABLE (NO3)
				NO3	64.0	03/83	4.1	05/08	
				CLO4	ND	09/97	ND	04/08	
COL-5	1902269	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
COL-6	1902270	MUNICIPAL	ACTIVE	PCE	7.2	07/85	ND	05/08	VULNERABLE (VOCS AND NO3)
				CF	0.6	09/97	ND	05/08	
				NO3	56.0	06/85	38.2	05/08	
				CLO4	ND	09/97	ND	10/07	
COL-7	1902271	MUNICIPAL	ACTIVE	PCE	22.0	12/87	3.1	11/99	VULNERABLE (VOCS AND CLO4)
				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	
COL-8	1902272	MUNICIPAL	INACTIVE	PCE	0.2	09/80	ND	12/96	
				NO3	120.0	06/83	50.8	12/96	
				CLO4	NA	NA	NA	NA	
HIGHWAY	1902150	MUNICIPAL	ACTIVE	TCE	0.6	12/80	ND	05/09	VULNERABLE (NO3 AND CLO4)
				PCE	0.1	12/80	ND	05/09	
				NO3	42.5	10/03	12.0	05/09	
				CLO4	8.0	10/03	ND	05/09	
L HILL 2	1902154	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
MALON	1902287	MUNICIPAL	ACTIVE	CF	1.7	08/96	ND	05/09	VULNERABLE (NO3)
				NO3	42.0	09/87	19.0	05/09	
				CLO4	ND	08/97	ND	08/08	
GREEN, WALTER									
NA	8000027	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	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	
NA	8000028	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
HALL (W.E.) COMPANY									
NA	1902496	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
HANSEN, ALICE									
2946C	8000029	IRRIGATION	ACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
HANSON AGGREGATES WEST, INC.									
DUA 1	1900961	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
EL 1	1901492	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	1901493	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	1903006	INDUSTRIAL	ACTIVE	VOCS	ND	12/87	ND	09/02	
				NO3	6.3	06/98	ND	09/02	
				CLO4	NA	NA	NA	NA	
KIN 1	1900963	INDUSTRIAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
HARTLEY, DAVID									
NA	8000085	DOMESTIC	ACTIVE	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	1901178	MUNICIPAL	ACTIVE	PCE	51.7	04/82	ND	06/09	VULNERABLE
				TCE	0.7	12/87	ND	06/09	(VOCS) (1)
				NO3	18.9	12/06	5.6	12/08	
				CLO4	ND	09/97	ND	09/08	
SOUTH	1902806	MUNICIPAL	ACTIVE	PCE	210.0	12/87	ND	06/09	VULNERABLE
				TCE	0.9	04/89	ND	06/09	(VOCS AND NO3) (1)
				NO3	32.7	12/94	5.0	06/09	
				CLO4	ND	09/97	ND	09/08	
INDUSTRY WATERWORKS SYSTEM, CITY OF									
01	1902581	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	
				NO3	60.2	10/92	60.2	10/92	
				CLO4	NA	NA	NA	NA	
02	1902582	MUNICIPAL	INACTIVE	TCE	19.0	01/80	2.3	04/81	

APPENDIX C

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WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
				PCE	10.0	04/81	10.0	04/81	
				NO3	55.5	02/86	55.5	02/86	
				CLO4	100.0	04/99	100.0	04/99	
03	8000078	MUNICIPAL	STANDBY	PCE	2.6	09/80	1.6	07/06	VULNERABLE
				TCE	12.0	07/06	12.0	07/06	(NO3, AND CLO4)
				CTC	0.5	07/06	0.5	07/06	
				1,2-DCA	0.5	07/06	0.5	07/06	
				BDCM	0.6	07/03	ND	07/06	
				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	
04	8000096	MUNICIPAL	STANDBY	PCE	2.4	08/01	0.5	07/06	VULNERABLE
				TCE	8.0	11/01	1.7	07/06	(VOCS AND NO3) (2)
				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	
				MC	0.9	06/89	ND	07/05	
				NO3	42.0	06/02	33.0	04/07	
				CLO4	14.8	06/01	6.5	01/06	
05	8000097	MUNICIPAL	ACTIVE	PCE	0.9	11/01	ND	08/08	VULNERABLE
				TCE	6.8	04/96	2.5	08/08	(VOCS AND NO3) (2)
				1,2-DCA	0.7	09/02	ND	08/08	
				CF	0.6	01/07	ND	08/08	
				NO3	28.0	08/08	28.0	08/08	
				CLO4	11.0	04/04	8.1	08/08	
05TH AVE	1902583	MUNICIPAL	DESTROYED	TCE	0.3	12/80	0.3	12/80	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
KNIGHT, KATHRYN M.									
NA	1901688	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
LANDEROS, JOHN									
NA	8000031	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
LA PUENTE VALLEY COUNTY WATER DISTRICT									
01	1901459	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
02	1901460	MUNICIPAL	ACTIVE	TCE	105.0	12/08	79.0	05/09	VULNERABLE
				PCE	6.6	03/00	3.4	05/09	(NO3) (1,4)
				CTC	8.5	12/02	4.3	05/09	
				1,1-DCA	2.1	11/03	ND	05/09	
				1,2-DCA	6.1	03/00	3.1	05/09	
				1,1-DCE	1.6	12/00	ND	05/09	
				C-1,2-DCE	1.8	12/00	1.3	05/09	
				CF	2.5	12/08	2.1	05/09	
				NO3	32.0	02/09	23.0	05/09	
				CLO4	183.0	02/98	73.0	05/09	
03	1902859	MUNICIPAL	ACTIVE	TCE	68.4	06/98	6.2	06/09	VULNERABLE
				PCE	6.3	04/85	1.4	06/09	(NO3) (1,4)
				CTC	8.5	11/04	ND	06/09	
				1,1-DCE	0.9	10/95	ND	06/09	
				1,2-DCA	6.7	02/99	ND	06/09	
				C-1,2-DCE	1.4	01/97	ND	06/09	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	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	0.5	09/01	ND	06/09	
				CF	1.8	09/01	ND	06/09	
				NO3	95.0	01/80	30.6	04/09	
				CLO4	174.0	02/98	16.0	04/09	
04	8000062	MUNICIPAL	STANDBY	TCE	84.3	03/00	46.0	04/04	VULNERABLE (NO3) (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	
05	8000209	MUNICIPAL	ACTIVE	TCE	43.0	03/08	25.0	03/09	VULNERABLE (NO3) (1,4)
				PCE	3.8	03/08	2.2	03/09	
				CTC	2.3	03/08	1.2	03/09	
				1,1-DCA	0.5	03/08	ND	03/09	
				1,2-DCA	2.7	03/08	1.2	03/09	
				1,1-DCE	0.5	03/08	ND	03/09	
				C-1,2-DCE	0.8	11/08	0.7	03/09	
				CF	1.7	03/08	ND	03/09	
				NO3	28.0	03/09	27.0	03/09	
				CLO4	65.0	03/08	32.0	04/09	
LA VERNE, CITY OF									
SNIDO	1902322	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
W15-L	1902769	MUNICUPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
W24-L	1901197	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
LEE, PAUL									
01	8000018	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
02	8000019	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
03	8000020	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
04	8000021	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
LOS ANGELES, COUNTY OF									
02	1902580	NON POTABLE	ACTIVE	PCE	6.6	09/04	6.6	09/04	
				TCE	1.3	09/04	1.3	09/04	
				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	1902663	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	

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WELL NAME	RECORDATION NUMBER	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	
03A	8000150	IRRIGATION	ACTIVE	PCE	2.5	11/99	ND	10/08	
				NO3	2.1	08/96	ND	10/08	
				CLO4	ND	08/97	ND	08/97	
04	1902664	IRRIGATION	INACTIVE	1,1,1-TCA	0.7	05/87	ND	11/87	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
05	1902665	IRRIGATION	ACTIVE	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	1902666	IRRIGATION	INACTIVE	PCE	7.4	08/96	2.8	11/99	VULNERABLE
				TCE	8.3	08/96	2.9	11/99	(VOCS)
				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	8000090	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	8000088	NON POTABLE	ACTIVE	1,2-DCA	0.6	01/96	ND	10/08	VULNERABLE
				NO3	12.0	09/02	ND	10/08	(VOCS)
				CLO4	ND	08/97	ND	08/97	
NEW LAKE	8000089	NON POTABLE	ACTIVE	PCE	19.7	02/00	ND	11/08	VULNERABLE
				TCE	0.9	02/00	ND	11/08	(VOCS)
				CF	1.3	11/08	1.3	11/08	
				NO3	22.0	02/00	12.0	11/08	
				CLO4	ND	08/97	ND	08/97	
SF 1	8000070	NON POTABLE	ACTIVE	TCE	4.3	09/04	ND	03/09	VULNERABLE
				PCE	7.6	09/04	ND	03/09	(VOCS)
				VC	1.4	12/87	ND	10/08	
				NO3	16.0	09/02	11.3	03/09	
				CLO4	ND	06/97	ND	03/09	
WHI 1	1902579	NON POTABLE	ACTIVE	PCE	3.8	09/04	2.8	10/08	VULNERABLE
				TCE	1.0	09/04	ND	10/08	(VOCS)
				NO3	6.7	09/04	5.7	10/08	
				CLO4	ND	08/97	ND	08/97	
LOS FLORES MUTUAL WATER COMPANY									
HI 1	21902098	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
LO 1	11902098	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
LOUCKS, DAVID									
NA	8000032	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
MAECHTLEN ESTATE									
M-N	1902323	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	

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WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
OLD60	1902321	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
SNIDO	1902322	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
MANNING BROTHERS ROCK AND SAND COMPANY									
36230	1900117	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	8000109	MUNICIPAL	DESTROYED	VOCS	ND	06/89	ND	07/96	
				NO3	68.0	09/94	55.5	07/96	
				CLO4	NA	NA	NA	NA	
02	1900042	MUNICIPAL	DESTROYED	VOCS	ND	06/89	ND	07/96	
				NO3	62.7	11/89	55.3	07/96	
				CLO4	NA	NA	NA	NA	
MARTINEZ, FRANCES M.									
NA	8000033	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA									
02	1900693	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
03	1900694	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
MILLER COORS LLC (MILLER BREWING COMPANY)									
01	8000075	INDUSTRIAL	INACTIVE	VOCS	ND	01/92	ND	06/08	
				NO3	9.8	01/93	4.7	06/08	
				CLO4	ND	06/97	ND	06/08	
02	8000076	INDUSTRIAL	INACTIVE	VOCS	ND	01/92	ND	05/08	
				NO3	14.0	10/92	3.4	05/08	
				CLO4	ND	06/97	ND	05/08	
N BREWER	8000034	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
MONROVIA, CITY OF									
01	1900417	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	
02	1900418	MUNICIPAL	ACTIVE	TCE	167.0	08/82	7.8	03/09	VULNERABLE
				PCE	11.0	08/82	0.6	03/09	(CLO4) (1)
				1,1,1-TCA	7.1	02/87	ND	07/08	
				1,1-DCE	3.4	06/87	ND	03/09	

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HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	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	1.5	02/87	ND	07/08	
				CF	2.2	07/07	1.2	07/08	
				NO3	65.6	12/91	62.0	03/09	
				CLO4	6.0	01/05	5.5	03/09	
03	1900419	MUNICIPAL	ACTIVE	TCE	18.0	08/82	3.4	04/09	VULNERABLE
				PCE	17.0	08/82	ND	04/09	(VOCS AND NO3)
				1,1-DCE	0.8	12/08	ND	04/09	
				CF	1.8	07/08	1.8	07/08	
				NO3	49.6	05/76	19.0	04/09	
				CLO4	ND	08/97	ND	07/08	
04	1900420	MUNICIPAL	ACTIVE	TCE	6.5	02/91	ND	04/09	VULNERABLE
				PCE	1.0	02/91	ND	04/09	(VOCS AND NO3)
				1,1-DCE	1.1	01/05	ND	04/09	
				MC	2.5	05/89	ND	07/08	
				CF	0.7	07/02	ND	07/08	
				NO3	28.8	06/91	10.0	04/09	
				CLO4	ND	08/97	ND	07/08	
05	1940104	MUNICIPAL	ACTIVE	TCE	5.1	01/91	0.9	04/09	VULNERABLE
				PCE	1.0	10/02	ND	04/09	(VOCS AND NO3)
				1,1-DCE	1.0	10/02	ND	04/09	
				MC	4.9	05/89	ND	07/08	
				CF	1.2	07/02	ND	07/08	
				NO3	29.4	01/91	10.0	07/08	
				CLO4	ND	08/97	ND	07/08	
06	8000171	MUNICIPAL	ACTIVE	TCE	9.7	08/04	6.9	04/09	VULNERABLE
				PCE	1.7	02/04	0.9	04/09	(NO3)
				1,1-DCE	0.8	10/07	ND	04/09	
				CF	1.0	08/04	ND	07/08	
				NO3	37.4	10/04	28.0	04/09	
				CLO4	ND	10/99	ND	07/08	
MONROVIA NURSERY									
DIV 4	1902456	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	1902455	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
MONTEREY PARK, CITY OF									
01	1900453	MUNICIPAL	STANDBY	PCE	64.1	12/08	46.0	05/09	VULNERABLE
				TCE	4.1	05/04	ND	05/09	(CLO4)
				1,1-DCE	0.6	05/04	ND	05/09	
				1,1-DCA	1.0	05/04	ND	05/09	
				C-1,2-DCE	1.0	03/04	ND	05/09	
				NO3	17.0	03/09	15.0	05/09	
				CLO4	4.7	05/04	ND	08/08	
02	1900454	MUNICIPAL	DESTROYED	PCE	6.4	04/98	6.4	04/98	
				NO3	18.3	07/95	13.0	07/97	
				CLO4	3.0	07/97	ND	03/98	
03	1900455	MUNICIPAL	STANDBY	PCE	21.0	05/04	16.0	05/09	VULNERABLE
				TCE	2.7	05/04	0.6	05/09	(CLO4)
				C-1,2-DCE	0.8	05/04	ND	05/09	
				NO3	13.3	07/97	5.5	05/09	
				CLO4	4.2	05/04	ND	08/08	
04	1900456	MUNICIPAL	DESTROYED	PCE	0.4	01/80	ND	11/87	
				NO3	6.2	09/87	6.2	09/87	
				CLO4	NA	NA	NA	NA	

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WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
05	1900457	MUNICIPAL	ACTIVE	TCE	7.0	01/92	3.0	05/09	VULNERABLE
				PCE	35.8	08/08	26.0	05/09	(CLO4) (1)
				C-1,2-DCE	2.0	11/01	0.9	05/09	
				1,1-DCA	1.1	11/01	0.6	05/09	
				1,1-DCE	0.7	11/01	ND	05/09	
				NO3	20.0	08/02	18.0	05/09	
				CLO4	6.5	02/01	ND	05/09	
06	1900458	MUNICIPAL	STANDBY	TCE	6.4	05/89	3.1	05/05	VULNERABLE
				PCE	13.6	03/01	3.1	05/05	(VOCS, NO3, AND CLO4)
				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	
07	1902372	MUNICIPAL	ACTIVE	PCE	4.4	08/05	3.6	05/09	VULNERABLE
				CF	3.6	07/98	ND	08/08	(VOCS)
				NO3	12.8	08/89	2.3	08/08	
				CLO4	ND	08/97	ND	08/08	
08	1902373	MUNICIPAL	ACTIVE	PCE	2.5	02/05	1.9	03/09	
				NO3	17.0	08/05	ND	11/08	
				CLO4	ND	08/97	ND	11/08	
09	1902690	MUNICIPAL	ACTIVE	PCE	11.0	03/04	2.9	05/09	VULNERABLE
				TCE	1.3	04/97	ND	05/09	(VOCS) (1)
				NO3	6.8	08/01	ND	05/09	
				CLO4	ND	08/97	ND	05/09	
10	1902818	MUNICIPAL	STANDBY	PCE	14.0	05/04	11.0	05/09	VULNERABLE
				TCE	2.6	05/04	0.6	05/09	(NO3 AND CLO4)
				C-1,2-DCE	0.8	05/04	ND	05/09	
				NO3	27.1	08/07	17.0	05/09	
				CLO4	4.3	05/04	ND	08/08	
12	1903033	MUNICIPAL	ACTIVE	PCE	85.0	05/02	38.0	05/09	VULNERABLE
				TCE	5.4	10/95	2.8	05/09	(NO3 AND CLO4) (1)
				1,1-DCA	1.0	11/08	0.7	05/09	
				C-1,2-DCE	1.1	08/05	0.8	05/09	
				NO3	27.2	08/07	14.0	05/09	
				CLO4	15.0	09/97	ND	05/09	
14	1903092	MUNICIPAL	ACTIVE	PCE	2.2	05/02	0.7	05/06	VULNERABLE
				TCE	2.9	11/02	1.5	05/06	(VOCS)
				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	
15	8000196	MUNICIPAL	ACTIVE	PCE	128.0	11/08	85.0	05/09	VULNERABLE
				TCE	3.4	07/06	2.5	05/09	(NO3) (1)
				NO3	23.0	11/08	22.0	05/09	
				CLO4	2.4	07/06	ND	05/09	
FERN	8000126	MUNICIPAL	STANDBY	PCE	9.9	09/08	7.8	05/09	
				TCE	2.3	08/02	ND	05/09	
				C-1,2-DCE	0.7	03/04	ND	05/09	
				NO3	6.5	03/04	ND	03/09	
				CLO4	2.0	08/97	ND	03/09	
NAMIMATSU FARMS									
NA	1901034	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
OWL ROCK PRODUCTS COMPANY									
NA	1903119	INDUSTRIAL	INACTIVE	VOCS	ND	05/87	ND	11/08	

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WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
				NO3	8.7	08/89	2.3	11/08	
				CLO4	NA	NA	NA	NA	
NA	1900043	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
NA	1902241	INDUSTRIAL	ACTIVE	VOCS	ND	10/02	ND	11/04	
				NO3	ND	10/02	ND	11/04	
				CLO4	NA	NA	NA	NA	
PICO COUNTY WATER DISTRICT									
NA	8000040	MUNICIPAL	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
POLOPOLUS ET AL.									
01	1902169	IRRIGATION	INACTIVE	PCE	330.0	10/96	270.0	03/98	VULNERABLE (NO3)
				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	1901522	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	
SOUTH 1	1901521	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	
ROY, RUTH									
NA	8000041	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
RURBAN HOMES MUTUAL WATER COMPANY									
NORTH 1	1900120	MUNICIPAL	ACTIVE	PCE	16.0	11/80	ND	06/09	VULNERABLE (VOCS AND NO3)
				1,1-DCE	0.9	09/08	ND	06/09	
				CF	0.8	02/02	ND	09/08	
				FREON 11	13.3	05/04	ND	06/09	
				FREON 113	64.4	05/04	ND	06/09	
				NO3	30.0	03/01	12.0	06/09	
				CLO4	ND	09/97	ND	09/08	
SOUTH 2	1900121	MUNICIPAL	ACTIVE	PCE	24.3	02/81	ND	06/09	VULNERABLE (VOCS AND NO3)
				1,1-DCE	1.7	10/08	ND	06/09	
				CF	3.8	02/02	ND	09/08	
				FREON 11	14.1	05/04	ND	06/09	
				FREON 113	54.2	05/04	ND	06/09	
				MC	1.1	08/02	ND	09/08	
				NO3	38.2	03/07	22.0	06/09	
				CLO4	ND	09/97	ND	09/08	
SAN GABRIEL COUNTRY CLUB									

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
01	1900547	IRRIGATION	ACTIVE	VOCS	ND	05/85	ND	08/05	VULNERABLE (CLO4)
				NO3	67.0	07/96	54.0	08/05	
				CLO4	8.5	07/97	5.4	08/05	
02	1902979	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	1901669	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	
06 BRA	1901670	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	1901671	MUNICIPAL	ACTIVE	VOCS	ND	09/89	ND	10/08	VULNERABLE (NO3 AND CLO4)
				NO3	48.0	03/03	34.0	04/09	
				CLO4	5.6	03/03	ND	04/09	
08	1901672	MUNICIPAL	INACTIVE	VOCS	ND	01/90	ND	03/91	VULNERABLE (NO3)
				NO3	76.0	01/82	23.4	08/93	
				CLO4	NA	NA	NA	NA	
09	1902785	MUNICIPAL	ACTIVE	PCE	2.0	01/09	1.5	04/09	VULNERABLE (NO3)
				NO3	51.0	03/03	21.0	04/09	
				CLO4	ND	09/97	ND	07/08	
10	1902786	MUNICIPAL	INACTIVE	PCE	18.0	08/93	1.9	11/98	VULNERABLE (VOCS, NO3, AND CLO4)
				NO3	50.0	05/89	31.0	11/98	
				CLO4	5.5	11/98	5.5	11/98	
11	8000067	MUNICIPAL	ACTIVE	PCE	2.0	06/89	1.1	04/09	VULNERABLE (NO3)
				NO3	32.2	04/04	16.0	04/09	
				CLO4	ND	09/97	ND	07/08	
12	8000123	MUNICIPAL	ACTIVE	TCE	0.8	09/02	ND	07/08	
				MC	0.6	05/90	ND	07/08	
				NO3	7.0	10/01	5.4	10/08	
				CLO4	ND	09/97	ND	07/08	
14	8000133	MUNICIPAL	ACTIVE	PCE	0.6	09/02	ND	07/08	
				NO3	3.8	12/02	2.3	07/08	
				CLO4	ND	09/97	ND	07/08	
SAN GABRIEL VALLEY WATER COMPANY									
B4B	1902858	MUNICIPAL	ACTIVE	TCE	25.2	02/08	25.2	02/08	(1)
				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	
B4C	1902947	MUNICIPAL	INACTIVE	CTC	22.3	02/01	14.0	08/01	VULNERABLE (CLO4) (1)
				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	
B5A	1900718	MUNICIPAL	ACTIVE	PCE	17.5	03/91	ND	11/05	VULNERABLE

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
				TCE	5.2	03/98	ND	11/05	(VOCS, NO3, AND CLO4)
				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	
B5B	1900719	MUNICIPAL	ACTIVE	TCE	5.8	02/97	5.6	05/09	
				PCE	3.9	02/09	3.1	05/09	
				CTC	2.3	02/85	0.6	05/09	
				1,2-DCA	0.6	09/07	0.5	05/09	
				CF	2.4	01/07	1.2	05/09	
				NO3	54.0	11/08	50.0	05/09	
				CLO4	12.0	06/97	12.0	05/09	
B5C	8000112	MUNICIPAL	ACTIVE	VOCS	ND	05/89	ND	08/07	
				NO3	3.8	05/07	3.8	05/07	
				CLO4	ND	06/97	ND	03/08	
B5D	8000160	MUNICIPAL	ACTIVE	CTC	0.7	05/09	0.7	05/09	
				NO3	4.9	08/08	3.8	05/09	
				CLO4	ND	12/97	ND	05/09	
B5E	8000205	MUNICIPAL	INACTIVE	TCE	6.2	05/09	6.2	05/09	VULNERABLE
				PCE	0.8	05/09	0.8	05/09	(NO3) (2)
				CTC	5.2	05/07	2.5	05/09	
				CF	3.9	01/07	0.4	05/09	
				NO3	23.0	08/07	15.0	05/09	
				CLO4	8.1	05/07	7.6	05/09	
B6B	1900721	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	1903093	MUNICIPAL	ACTIVE	TCE	84.0	03/88	6.9	02/09	(1)
				PCE	12.0	11/81	0.7	02/09	
				CTC	13.0	02/85	ND	02/09	
				1,2-DCA	9.0	05/88	0.7	02/09	
				1,1-DCE	1.5	06/94	ND	02/09	
				C-1,2-DCE	6.2	04/88	ND	02/09	
				CF	1.7	04/04	0.8	02/09	
				NO3	87.0	09/08	81.0	02/09	
				CLO4	370.0	11/05	27.0	02/09	
B6D	8000098	MUNICIPAL	ACTIVE	TCE	87.0	05/09	87.0	05/09	(1)
				PCE	7.1	05/09	7.1	05/09	
				CTC	8.8	04/96	4.5	05/09	
				1,1-DCA	1.1	05/09	1.1	05/09	
				1,2-DCA	3.5	05/09	3.5	05/09	
				1,1-DCE	1.0	08/08	1.0	05/09	
				C-1,2-DCE	2.8	05/09	2.8	05/09	
				CF	2.9	05/09	2.9	05/09	
				NO3	21.6	11/08	21.2	05/09	
				CLO4	390.0	11/05	90.0	05/09	
11A	1900739	MUNICIPAL	ACTIVE	PCE	1.5	02/08	0.9	05/09	
				NO3	14.7	07/89	3.5	09/08	
				CLO4	ND	08/97	ND	03/08	
11B	1900745	MUNICIPAL	ACTIVE	PCE	17.8	04/90	1.8	05/09	VULNERABLE
				TCE	4.0	04/90	ND	05/09	(VOCS) (1)
				1,1-DCE	0.2	04/89	ND	08/08	
				C-1,2-DCE	3.0	04/89	ND	08/08	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
				NO3	18.3	08/06	14.0	08/08	
				CLO4	ND	06/97	ND	03/08	
11C	1902713	MUNICIPAL	ACTIVE	PCE	4.1	12/91	1.1	05/09	VULNERABLE
				TCE	0.6	12/91	ND	08/08	(VOCS)
				1,1-DCE	1.1	08/08	ND	05/09	
				C-1,2-DCE	2.5	03/92	ND	05/09	
				NO3	12.0	08/06	6.6	09/08	
				CLO4	ND	08/97	ND	03/08	
1B	1900729	MUNICIPAL	ACTIVE	PCE	46.0	04/81	ND	05/09	VULNERABLE
				TCE	1.8	02/80	ND	09/08	(VOCS)
				MC	7.1	04/87	ND	09/08	
				FREON 113	22.3	08/08	ND	02/09	
				NO3	22.4	05/08	16.0	05/09	
				CLO4	1.1	03/08	1.1	03/08	
1C	1902946	MUNICIPAL	ACTIVE	VOCS	ND	07/98	ND	08/08	
				NO3	5.0	07/89	3.8	08/08	
				CLO4	ND	10/99	ND	03/08	
1D	8000102	MUNICIPAL	ACTIVE	VOCS	ND	07/98	ND	08/08	
				NO3	5.0	07/89	4.1	11/08	
				CLO4	ND	08/97	ND	03/08	
1E	8000172	MUNICIPAL	ACTIVE	PCE	0.7	09/02	ND	05/09	VULNERABLE
				NO3	4.3	11/00	3.8	11/08	(CLO4)
				CLO4	5.0	06/00	ND	03/08	
2C	1900749	MUNICIPAL	ACTIVE	TCE	15.2	12/80	ND	11/05	VULNERABLE
				PCE	3.0	10/87	ND	11/05	(VOCS)
				NO3	16.4	08/04	5.2	08/05	
				CLO4	ND	08/97	ND	02/03	
2D	1902857	MUNICIPAL	ACTIVE	TCE	25.0	12/80	ND	05/09	VULNERABLE
				PCE	0.7	01/88	ND	08/08	(VOCS)
				NO3	8.2	07/86	3.2	08/08	
				CLO4	ND	08/97	ND	03/08	
2E	8000065	MUNICIPAL	ACTIVE	TCE	18.0	01/80	0.5	05/09	VULNERABLE
				PCE	0.9	01/88	ND	08/08	(VOCS)
				NO3	9.1	07/86	7.1	08/08	
				CLO4	ND	08/97	ND	03/08	
2F	8000197	MUNICIPAL	ACTIVE	TCE	0.8	06/08	0.7	06/09	
				NO3	4.3	09/06	3.7	08/08	
				CLO4	ND	09/06	ND	03/08	
8A	1900736	MUNICIPAL	INACTIVE	PCE	0.6	11/87	ND	02/97	VULNERABLE
				NO3	40.2	02/97	40.2	02/97	(NO3)
				CLO4	NA	NA	NA	NA	
8B	1900746	MUNICIPAL	ACTIVE	PCE	220.0	02/09	180.0	05/09	VULNERABLE
				TCE	0.7	05/09	0.7	05/09	(NO3) (1)
				NO3	23.0	08/08	23.0	08/08	
				CLO4	3.0	08/97	1.8	03/08	
8C	1900747	MUNICIPAL	ACTIVE	PCE	170.0	05/09	170.0	05/09	VULNERABLE
				TCE	0.8	05/09	0.8	05/09	(CLO4) (1)
				NO3	20.0	07/98	15.0	11/08	
				CLO4	4.0	03/08	4.0	03/08	
8D	1903103	MUNICIPAL	ACTIVE	PCE	62.3	02/09	44.0	06/09	VULNERABLE
				TCE	0.6	08/04	0.6	06/09	(NO3) (1)
				C-1,2 DCE	0.8	05/04	ND	06/09	
				CTC	0.6	06/88	ND	06/09	
				NO3	29.0	06/09	29.0	06/09	
				CLO4	2.3	03/08	2.3	03/08	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
8E	8000113	MUNICIPAL	ACTIVE	PCE	140.0	05/09	140.0	05/09	
				NO3	7.2	07/01	2.6	11/08	
				CLO4	ND	08/97	ND	03/08	
8F	8000169	MUNICIPAL	ACTIVE	VOCS	ND	10/98	ND	08/08	
				NO3	9.6	11/07	2.6	11/08	
				CLO4	ND	01/99	ND	03/08	
B1	1902635	MUNICIPAL	ACTIVE	TCE	12.0	04/85	ND	08/06	VULNERABLE
				PCE	7.3	05/88	ND	08/06	(VOCS)
				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	
B2	1902525	MUNICIPAL	INACTIVE	TCE	17.0	03/80	ND	11/98	VULNERABLE
				PCE	15.8	06/80	0.7	11/98	(VOCS)
				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	
B11A	1901439	MUNICIPAL	ACTIVE	TCE	9.8	08/01	5.8	08/04	VULNERABLE
				PCE	21.7	05/92	8.5	08/04	(NO3 AND CLO4) (1)
				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	
B11B	8000108	MUNICIPAL	ACTIVE	TCE	20.0	02/97	8.5	05/09	VULNERABLE
				PCE	34.5	06/92	9.8	05/09	(NO3 AND CLO4) (1)
				1,1-DCE	33.7	03/90	14.0	05/09	
				1,1-DCA	2.6	12/88	1.2	05/09	
				1,1,1-TCA	2.9	10/88	ND	11/08	
				C-1,2-DCE	3.6	03/05	1.3	05/09	
				NO3	35.9	02/97	19.0	05/09	
				CLO4	7.0	06/00	2.5	03/08	
B7B	1901440	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	8000068	MUNICIPAL	ACTIVE	TCE	11.3	12/93	2.8	05/09	VULNERABLE
				PCE	35.0	03/03	7.8	05/09	(NO3) (1)
				1,1-DCE	6.7	12/89	1.6	05/09	
				C-1,2-DCE	4.7	12/93	0.6	05/09	
				CTC	0.6	02/89	ND	08/09	
				NO3	28.4	08/92	10.0	08/08	
				CLO4	ND	06/97	ND	03/08	
B7D	8000094	MUNICIPAL	INACTIVE	PCE	5.3	07/87	3.5	09/87	VULNERABLE
				TCE	3.9	07/87	3.3	09/87	(VOCS)
				1,1-DCE	5.3	05/87	5.0	09/87	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
B7E	8000122	MUNICIPAL	ACTIVE	VOCS	ND	08/90	ND	08/08	
				NO3	16.0	11/08	2.9	05/09	
				CLO4	ND	06/97	ND	03/08	
B8	1901436	MUNICIPAL	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
B9	1901437	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	8000099	MUNICIPAL	ACTIVE	VOCS	ND	06/87	ND	08/08	
				NO3	4.5	06/87	3.4	09/08	
				CLO4	1.2	03/08	1.2	03/08	
G4A	1900725	MUNICIPAL	ACTIVE	PCE	6.6	08/08	4.6	05/09	VULNERABLE
				TCE	1.3	11/97	1.1	05/09	(VOCS AND NO3)
				NO3	24.9	02/08	20.0	05/09	
				CLO4	1.0	03/08	1.0	03/08	
B24A	8000203	MUNICIPAL	ACTIVE	VOCS	ND	01/07	ND	02/09	
				NO3	2.2	01/07	ND	02/09	
				CLO4	ND	01/07	ND	08/08	
B24B	8000204	MUNICIPAL	ACTIVE	PCE	2.1	05/07	ND	02/09	
				TCE	0.7	05/07	ND	02/09	
				NO3	4.4	02/09	4.4	02/09	
				CLO4	ND	01/07	ND	08/08	
B25A (SA3-1S)	8000187	MUNICIPAL	ACTIVE	TCE	60.3	02/08	28.0	05/09	(1)
				PCE	28.0	05/08	18.0	05/09	
				CTC	5.9	10/07	1.1	05/09	
				1,2-DCA	1.4	10/07	ND	05/09	
				1,1-DCE	6.6	02/08	3.1	05/09	
				C-1,2-DCE	6.3	08/07	2.5	05/09	
				CF	1.7	10/07	1.2	05/09	
				NO3	78.0	05/09	78.0	05/09	
				CLO4	39.6	05/08	19.0	05/09	
B25B (SA3-1D)	8000188	MUNICIPAL	ACTIVE	TCE	21.0	03/09	0.8	05/09	VULNERABLE
				PCE	7.6	03/09	ND	05/09	(VOCS, NO3 AND CLO4) (1)
				CTC	10.0	09/04	ND	05/09	
				1,1-DCA	1.2	10/07	ND	05/09	
				1,1-DCE	2.6	03/09	ND	05/09	
				C-1,2-DCE	2.2	04/09	ND	05/09	
				NO3	27.0	05/09	27.0	05/09	
				CLO4	7.9	08/08	ND	05/09	
B26A (SA3-2S)	8000189	MUNICIPAL	ACTIVE	TCE	57.0	05/09	57.0	05/09	(1)
				PCE	5.7	05/09	5.7	05/09	
				CTC	2.8	05/09	2.8	05/09	
				1,1-DCA	0.8	05/09	0.8	05/09	
				1,2-DCA	4.3	11/04	3.3	05/09	
				1,1-DCE	1.0	02/09	1.0	05/09	
				C-1,2-DCE	3.3	05/06	2.7	05/09	
				CF	3.1	07/06	2.0	05/09	
				NO3	60.0	05/09	57.0	05/09	
				CLO4	87.0	07/06	58.0	05/09	
B26B (SA3-2D)	8000190	MUNICIPAL	ACTIVE	TCE	31.0	05/09	31.0	05/09	(1)
				PCE	1.0	05/09	1.0	05/09	
				CTC	16.6	02/09	16.0	05/09	
				1,2-DCA	1.0	05/09	1.0	05/09	
				CF	1.0	05/09	1.0	05/09	
				NO3	13.0	07/08	13.0	05/09	
				CLO4	23.0	04/09	23.0	05/09	
SIERRA LA VERNE COUNTRY CLUB									
01	8000124	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	8000125	IRRIGATION	ACTIVE	MC	0.5	10/08	0.5	10/08	VULNERABLE

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WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
				NO3	17.4	08/96	ND	10/08	(CLO4)
				CLO4	28.0	03/98	ND	04/98	
SLOAN RANCHES									
01	1901198	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
02	8000045	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
SONOCO PRODUCTS COMPANY									
01	1912786	INDUSTRIAL	ACTIVE	TCE	28.6	12/99	0.6	12/05	VULNERABLE
				PCE	8.5	12/99	ND	12/05	(VOCS)
				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	1902971	INDUSTRIAL	ACTIVE	CTC	0.9	11/87	ND	12/05	VULNERABLE
				1,1,1-TCA	2.0	11/87	ND	12/05	(VOCS 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	1901606	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
SOUTHERN CALIFORNIA EDISON COMPANY									
110RH	8000046	NON-POTABLE	ACTIVE	VOCS	ND	08/89	ND	02/07	
				NO3	8.9	02/07	8.9	02/07	
				CLO4	ND	11/97	ND	11/97	
1EB86	1900342	NON-POTABLE	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
2EB76	1900343	IRRIGATION	ACTIVE	PCE	4.3	09/04	4.1	02/07	VULNERABLE
				TCE	1.3	09/04	0.7	02/07	(VOCS AND NO3)
				NO3	51.4	09/98	26.5	02/07	
				CLO4	2.0	11/97	2.0	11/97	
38EIS	1900344	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
38W	1900344	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
MURAT	8000047	IRRIGATION	ACTIVE	PCE	4.1	09/02	0.6	10/08	VULNERABLE
				TCE	0.9	09/02	ND	10/08	(VOCS AND NO3)
				NO3	26.9	09/04	14.0	10/08	
				CLO4	ND	04/98	ND	04/98	
SOUTH PASADENA, CITY OF									

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WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
GRAV 2	1901679	MUNICIPAL	ACTIVE	PCE	16.0	07/08	7.1	05/09	VULNERABLE (CLO4)
				CTC	0.9	07/08	0.6	05/09	
				NO3	58.2	04/87	52.0	05/09	
				CLO4	6.9	02/03	5.2	05/09	
WIL 2	1901681	MUNICIPAL	ACTIVE	PCE	23.0	01/88	9.1	03/01	VULNERABLE (CLO4)
				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	
WIL 3	1901682	MUNICIPAL	ACTIVE	PCE	9.5	08/94	3.1	05/09	VULNERABLE (VOCS AND NO3)
				TCE	1.4	05/09	1.4	05/09	
				NO3	66.0	01/83	26.0	05/09	
				CLO4	ND	07/97	ND	08/08	
WIL 4	1903086	MUNICIPAL	ACTIVE	PCE	8.1	06/00	2.3	05/09	VULNERABLE (VOCS AND NO3)
				TCE	2.1	05/07	1.0	05/09	
				NO3	30.0	02/03	21.0	05/09	
				CLO4	ND	07/97	ND	08/08	
SPEEDWAY 605 INC.									
NA	1902968	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
STERLING MUTUAL WATER COMPANY									
NEW SO.	8000132	MUNICIPAL	ACTIVE	VOCS	ND	06/91	ND	08/08	
				NO3	22.0	08/08	22.0	08/08	
				CLO4	ND	10/97	ND	08/08	
NORTH	1902096	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	08/08	VULNERABLE (NO3)
				NO3	43.4	02/07	33.0	05/09	
				CLO4	ND	09/97	ND	08/08	
SOUTH	1902085	MUNICIPAL	DESTROYED	VOCS	ND	01/85	ND	06/91	
				NO3	16.2	03/91	14.8	08/07	
				CLO4	NA	NA	NA	NA	
SUBURBAN WATER SYSTEMS									
101W-1	41901605	MUNICIPAL	DESTROYED	TCE	1.5	07/87	ND	08/89	
				NO3	54.2	08/89	54.2	08/89	
				CLO4	NA	NA	NA	NA	
102W-1	1901605	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
102W-2	1901606	MUNICIPAL	DESTROYED	TCE	2.0	01/80	ND	06/85	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
103W-1	1901607	MUNICIPAL	DESTROYED	TCE	2.5	06/80	ND	07/82	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
105W-1	1901608	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	
106W-1	1901609	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
111W-1	1901610	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	82.5	03/73	82.5	03/73	
				CLO4	NA	NA	NA	NA	

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HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
112W-1	1901611	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	99.2	07/69	99.2	07/69	
				CLO4	NA	NA	NA	NA	
113W-1	1901612	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	1901613	MUNICIPAL	INACTIVE	TCE	2.9	01/80	ND	07/95	VULNERABLE
				PCE	0.5	12/93	ND	07/95	(VOCS AND NO3)
				NO3	46.7	08/91	39.8	04/95	
				CLO4	NA	NA	NA	NA	
117W-1	1901614	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
120W-1	1901615	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	8000181	MUNICIPAL	ACTIVE	VOCS	ND	10/02	ND	05/09	VULNERABLE
				NO3	16.7	11/08	12.0	05/09	(CLO4)
				CLO4	4.7	11/08	3.9	05/09	
122W-1	1901616	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	
123W-1	1901617	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	1901618	MUNICIPAL	DESTROYED	TCE	0.5	06/83	ND	08/89	
				NO3	60.0	09/84	53.6	08/89	
				CLO4	NA	NA	NA	NA	
125W-1	1901619	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	8000087	MUNICIPAL	INACTIVE	VOCS	ND	03/83	ND	07/95	VULNERABLE
				NO3	50.0	08/87	40.6	03/95	(NO3)
				CLO4	NA	NA	NA	NA	
126W-1	1901620	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	18.0	05/75	18.0	05/75	
				CLO4	NA	NA	NA	NA	
126W-2	8000092	MUNICIPAL	INACTIVE	VOCS	ND	03/85	ND	08/00	VULNERABLE
				NO3	38.8	07/91	34.9	03/01	(NO3 AND CLO4)
				CLO4	4.8	07/97	ND	01/98	
131W-1	1901621	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	1901622	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	
134W-1	1901623	MUNICIPAL	DESTROYED	TCE	56.0	10/93	56.0	10/93	

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WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
				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	
135W-1	1901624	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	1901625	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	
139W-1	1901598	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	
139W-2	1901599	MUNICIPAL	INACTIVE	TCE	18.7	09/80	ND	10/08	VULNERABLE
				PCE	12.1	03/80	ND	10/08	(VOCS)
				CTC	0.8	09/80	ND	10/08	
				CF	0.6	10/08	0.6	10/08	
				NO3	103.5	10/08	103.5	10/08	
				CLO4	34.0	10/08	34.0	10/08	
139W-4	8000069	MUNICIPAL	ACTIVE	TCE	4.7	04/97	ND	02/09	VULNERABLE
				MC	0.7	09/07	ND	02/09	(VOCS AND NO3)
				NO3	46.0	09/07	43.7	02/09	
				CLO4	12.0	12/03	9.4	02/09	
139W-5	8000095	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	13.0	06/01	13.0	08/01	
				CLO4	2.0	09/97	ND	11/99	
139W-6	8000152	MUNICIPAL	INACTIVE	TCE	51.2	02/01	0.4	10/08	VULNERABLE
				PCE	2.8	02/01	ND	10/08	(VOCS AND NO3)
				CTC	1.9	02/01	ND	10/08	
				1,2-DCA	1.6	02/01	ND	10/08	
				NO3	42.8	10/08	42.8	10/08	
				CLO4	35.4	11/00	12.0	10/08	
140W-1	1901602	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	
140W-3	1903067	MUNICIPAL	ACTIVE	TCE	13.6	03/80	ND	12/07	VULNERABLE
				PCE	1.0	06/88	ND	12/07	(VOCS, NO3, AND CLO4)
				CTC	1.0	09/81	ND	12/07	
				NO3	78.0	03/85	9.9	12/08	
				CLO4	16.0	12/05	4.5	12/08	
140W-4	8000093	MUNICIPAL	ACTIVE	TCE	7.0	01/96	1.5	11/06	VULNERABLE
				NO3	36.4	10/03	36.3	12/04	(VOCS AND NO3)
				CLO4	12.6	10/03	11.6	12/04	
140W-5	8000145	MUNICIPAL	ACTIVE	TCE	21.0	02/91	6.2	05/09	VULNERABLE
				PCE	1.0	06/07	ND	05/09	(NO3)
				NO3	30.0	03/09	20.0	05/09	
				CLO4	9.8	10/08	6.1	06/09	

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WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
142W-1	1901597	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	8000183	MUNICIPAL	ACTIVE	VOCS	ND	03/04	ND	05/09	
				NO3	9.3	11/04	7.9	05/09	
				CLO4	2.7	03/09	ND	05/09	
147W-1	1901596	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	1902760	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	54.0	09/74	54.0	09/74	
				CLO4	NA	NA	NA	NA	
147W-3	8000077	MUNICIPAL	ACTIVE	TCE	4.1	01/92	3.5	05/09	VULNERABLE
				PCE	4.4	04/89	2.7	05/09	(VOCS)
				1,1-DCE	8.9	01/89	3.3	05/09	
				1,1-DCA	4.8	05/89	ND	05/09	
				NO3	19.8	09/88	8.8	05/09	
				CLO4	2.7	04/09	2.2	05/09	
148W-1	1901604	MUNICIPAL	DESTROYED	TCE	0.8	06/80	ND	04/97	
				NO3	47.0	02/76	34.8	04/97	
				CLO4	NA	NA	NA	NA	
149W-1	1902119	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
150W-1	1902519	MUNICIPAL	DESTROYED	TCE	6.0	09/81	ND	08/93	
				NO3	53.0	03/86	13.4	08/94	
				CLO4	NA	NA	NA	NA	
151W-1	1902518	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	
151W-2	8000207	MUNICIPAL	ACTIVE	VOCS	ND	05/09	ND	05/09	
				NO3	4.4	04/09	4.4	05/09	
				CLO4	ND	04/09	ND	05/09	
152W-1	1900337	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	1902761	MUNICIPAL	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
154W-1	1902762	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	81.0	05/79	81.0	05/79	
				CLO4	NA	NA	NA	NA	
155W-1	1902819	MUNICIPAL	INACTIVE	PCE	190.0	11/80	90.0	11/98	VULNERABLE
				TCE	50.0	07/81	24.0	11/98	(CLO4)
				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	
155W-2	1902820	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	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
				NO3	49.0	11/98	49.0	11/98	
				CLO4	4.3	11/98	ND	11/98	
157W-1	1902763	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	1901429	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
201W-2	1901430	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	
201W-3	1901431	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
201W-4	1901433	MUNICIPAL	ACTIVE	TCE	6.4	09/89	ND	02/09	VULNERABLE
				PCE	4.1	09/88	ND	02/09	(VOCS)
				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	12.0	08/08	12.0	08/08	
				CLO4	ND	06/97	ND	08/08	
201W-5	1901432	MUNICIPAL	ACTIVE	TCE	6.4	09/89	ND	03/08	VULNERABLE
				PCE	3.8	09/89	ND	03/08	(VOCS)
				1,1-DCE	2.9	09/88	ND	03/08	
				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	
201W-6	1901434	MUNICIPAL	DESTROYED	TCE	3.9	05/88	ND	09/05	VULNERABLE
				PCE	3.3	05/88	ND	09/05	(VOCS)
				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	
201W-7	8000195	MUNICIPAL	ACTIVE	PCE	0.6	08/08	ND	05/09	
				C-1,2-DCE	0.9	08/08	ND	05/09	
				NO3	8.6	08/08	8.6	08/08	
				CLO4	ND	08/08	ND	08/08	
201W-8	8000198	MUNICIPAL	ACTIVE	TCE	0.5	05/07	ND	05/09	
				C-1,2-DCE	1.1	05/07	ND	05/09	
				EBZ	0.8	07/06	ND	05/09	
				NO3	7.3	09/06	3.6	11/08	
				CLO4	2.1	07/06	ND	08/08	
201W-9	8000208	MUNICIPAL	ACTIVE	VOCS	ND	11/08	ND	05/09	
				NO3	12.0	03/08	12.0	02/09	
				CLO4	ND	03/08	ND	08/08	
201W-10	NA	MUNICIPAL	ACTIVE	TCE	1.4	09/07	1.0	05/09	
				PCE	1.3	09/07	0.8	05/09	
				C-1,2-DCE	3.0	09/07	1.7	05/09	
				NO3	3.8	09/07	2.8	05/09	
				CLO4	ND	09/07	ND	05/09	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
202W-1	1901627	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	
SUNNY SLOPE WATER COMPANY									
08	1900026	MUNICIPAL	ACTIVE	VOCS	ND	01/87	ND	09/08	VULNERABLE
				NO3	24.0	09/94	18.0	06/09	(NO3)
				CLO4	ND	07/97	ND	09/08	
09	1902792	MUNICIPAL	ACTIVE	VOCS	ND	01/85	ND	12/08	VULNERABLE
				NO3	36.0	06/03	13.0	06/09	(NO3)
				CLO4	ND	07/97	ND	09/08	
10	8000048	MUNICIPAL	INACTIVE	VOCS	ND	01/85	ND	08/96	
				NO3	63.6	12/94	50.9	08/96	
				CLO4	NA	NA	NA	NA	
13	8000157	MUNICIPAL	ACTIVE	VOCS	ND	08/96	ND	09/08	
				NO3	6.5	09/08	6.5	09/08	
				CLO4	ND	07/97	ND	09/08	
TAYLOR HERB GARDEN									
NA	1902964	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
TEXACO INC.									
14	1900001	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	1900680	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
TOMOVICH (NICK) & SON									
NA	8000037	DOMESTIC	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
TYLER NURSERY									
NA	8000049	IRRIGATION	ACTIVE	TCE	12.9	12/99	1.2	09/04	VULNERABLE
				PCE	44.6	12/99	1.2	09/04	(VOCS AND NO3)
				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	8000067	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	1900106	INDUSTRIAL	ACTIVE	VOCS	ND	08/89	ND	10/08	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
				NO3	6.4	07/96	2.7	10/08	
				CLO4	ND	02/98	ND	02/98	
IRW-2	1903062	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	1902532	INDUSTRIAL	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
VALENCIA HEIGHTS WATER COMPANY									
01	8000051	MUNICIPAL	ACTIVE	MC	0.7	06/89	ND	07/08	VULNERABLE
				NO3	46.5	04/99	32.6	07/07	(NO3 AND CLO4)
				CLO4	8.5	08/00	ND	05/09	
02	8000052	MUNICIPAL	ACTIVE	TCE	0.2	01/80	ND	07/08	VULNERABLE
				NO3	53.7	07/97	27.0	07/06	(NO3 AND CLO4)
				CLO4	8.0	10/98	4.2	07/08	
03A	8000055	MUNICIPAL	DESTROYED	VOCS	ND	03/85	ND	03/92	
				NO3	34.8	09/89	12.1	08/92	
				CLO4	NA	NA	NA	NA	
04	8000054	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	
05	8000120	MUNICIPAL	ACTIVE	VOCS	ND	06/90	ND	07/08	VULNERABLE
				NO3	34.0	12/99	24.5	07/07	(NO3 AND CLO4)
				CLO4	7.2	11/00	ND	05/09	
06	8000180	MUNICIPAL	ACTIVE	CF	13.0	12/02	ND	07/08	VULNERABLE
				NO3	49.3	06/04	42.0	10/08	(NO3)
				CLO4	8.9	01/07	6.5	05/09	
07	NA	MUNICIPAL	INACTIVE	VOCS	ND	05/08	ND	05/08	
				NO3	20.0	05/08	20.0	05/08	
				CLO4	ND	05/08	ND	05/08	
VALLEY COUNTY WATER DISTRICT									
ARROW	1900034	MUNICIPAL	INACTIVE	TCE	700.0	07/82	600.0	12/96	VULNERABLE
				PCE	980.0	12/96	980.0	12/96	(NO3) (3)
				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	
B DALTON	1900035	MUNICIPAL	INACTIVE	TCE	137.0	04/85	7.5	09/07	
				PCE	8.0	04/85	1.0	09/07	
				1,1-DCA	0.9	05/96	ND	09/07	
				C-1,2-DCE	2.0	11/95	0.3	09/07	
				CTC	9.9	04/85	0.5	09/07	
				1,2-DCA	11.0	12/98	1.6	09/07	
				NO3	63.0	09/07	63.0	09/07	
				CLO4	99.1	12/98	20.0	09/07	
E NIXON (E JOAN)	1900032	MUNICIPAL	ACTIVE	TCE	7.0	11/08	1.9	06/09	(1)
				PCE	11.0	10/04	5.8	06/09	
				1,1-DCE	1.3	10/04	ND	06/09	
				C-1,2-DCE	1.7	10/04	0.5	06/09	
				NO3	13.6	02/05	5.5	08/08	
				CLO4	ND	05/97	ND	08/08	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
E MAINE	1900027	MUNICIPAL	ACTIVE	TCE	36.0	10/04	2.2	06/09	VULNERABLE
				PCE	110.0	10/04	4.8	06/09	(VOCS AND CLO4) (1)
				1,1-DCE	10.1	02/91	ND	06/09	
				1,2-DCA	1.4	10/04	ND	06/09	
				1,1,1-TCA	9.1	02/91	ND	06/09	
				C-1,2-DCE	13.0	06/03	ND	06/09	
				CF	1.1	10/04	ND	06/09	
				NO3	20.2	05/04	15.0	06/09	
				CLO4	7.8	10/04	1.6	03/09	
LANTE (SA1-3)	8000060	MUNICIPAL	ACTIVE	TCE	1315.0	04/98	110.0	04/09	VULNERABLE
				PCE	1200.0	11/96	300.0	04/09	(NO3) (3)
				1,1-DCE	110.0	11/96	16.0	04/09	
				C-1,2-DCE	90.0	11/96	13.0	04/09	
				T-1,2-DCE	110.0	04/85	ND	04/09	
				1,1-DCA	18.0	08/04	ND	04/09	
				1,2-DCA	12.5	01/92	ND	04/09	
				CTC	17.6	01/92	3.2	01/09	
				1,1,1-TCA	170.0	04/85	ND	04/09	
				MC	24.4	05/87	ND	04/09	
				CF	3.2	05/06	1.6	04/09	
				o-DCB	0.6	08/04	ND	12/08	
				p-DCB	3.1	08/04	ND	12/08	
				NO3	43.0	05/05	34.0	06/09	
				CLO4	94.0	04/98	13.0	04/09	
MORADA	1900029	MUNICIPAL	INACTIVE	TCE	770.0	03/80	0.7	10/08	VULNERABLE
				PCE	100.0	02/85	1.8	10/08	(VOCS)
				CTC	29.0	04/84	ND	10/08	
				1,1-DCE	2.5	04/88	ND	10/08	
				1,1-DCA	8.5	02/85	ND	10/08	
				1,2-DCA	0.7	04/88	ND	10/08	
				C-1,2-DCE	8.1	08/95	ND	10/08	
				CF	1.7	10/08	1.7	10/08	
				NO3	110.8	11/90	67.5	10/08	
				CLO4	21.0	02/04	9.2	10/08	
PADDY LN	1900031	MUNICIPAL	INACTIVE	TCE	166.0	04/94	25.0	10/08	
				PCE	42.0	11/93	2.8	10/08	
				CF	4.4	02/04	2.0	10/08	
				CTC	15.0	12/87	0.7	10/08	
				1,1-DCE	17.2	11/93	0.7	10/08	
				C-1,2-DCE	23.8	11/93	1.9	10/08	
				1,2-DCA	6.6	02/04	2.8	10/08	
				NO3	49.5	10/08	49.5	10/08	
				CLO4	154.0	02/98	60.0	10/08	
PALM	8000039	MUNICIPAL	INACTIVE	CTC	48.0	07/82	0.8	02/04	VULNERABLE
				TCE	56.0	02/04	56.0	02/04	(CLO4)
				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	
W NIXON (W JOAN)	1902356	MUNICIPAL	ACTIVE	TCE	4.0	11/04	ND	06/09	VULNERABLE
				PCE	8.0	11/04	ND	06/09	(VOCS) (1)
				MC	1.6	05/89	ND	08/08	
				NO3	8.5	02/05	3.8	08/08	
				CLO4	ND	05/97	ND	08/08	
W MAINE	1900028	MUNICIPAL	ACTIVE	TCE	47.3	02/91	3.6	06/09	VULNERABLE
				PCE	70.0	02/03	9.4	06/09	(CLO4) (1)
				1,1-DCE	14.2	02/91	0.6	06/09	
				1,2-DCA	0.8	08/04	ND	06/09	
				1,1,1-TCA	10.6	02/91	ND	06/09	
				C-1,2-DCE	9.0	02/03	0.7	06/09	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
				NO3	20.8	05/90	9.8	06/09	
				CLO4	6.3	10/04	1.3	03/09	
SA1-1	8000185	MUNICIPAL	ACTIVE	TCE	34.0	07/05	4.1	01/09	(1)
				PCE	47.0	04/07	6.5	01/09	
				1,1-DCA	11.0	07/05	0.5	01/09	
				1,1-DCE	110.0	07/05	7.9	01/09	
				1,2-DCA	1.0	07/05	ND	01/09	
				C-1,2-DCE	4.1	07/05	0.6	01/09	
				1,1,1-TCA	6.0	05/06	ND	01/09	
				CF	1.6	12/04	0.5	01/09	
				MC	2.2	04/07	ND	01/09	
				NO3	87.0	01/05	78.0	02/09	
				CLO4	17.0	01/05	10.0	02/09	
SA1-2	8000186	MUNICIPAL	ACTIVE	TCE	25.0	04/06	4.3	04/09	(1)
				PCE	37.0	05/06	9.0	04/09	
				1,1-DCA	8.7	07/05	ND	04/09	
				1,1-DCE	62.0	04/06	3.6	04/09	
				1,2-DCA	1.0	07/05	ND	04/09	
				C-1,2-DCE	6.2	07/05	0.4	04/09	
				1,1,1-TCA	2.2	05/06	ND	04/09	
				CF	1.3	05/06	0.4	04/09	
				NO3	72.0	03/05	53.0	06/09	
				CLO4	15.0	03/05	11.0	04/09	
VALLEY VIEW MUTUAL WATER COMPANY									
01	1900363	MUNICIPAL	ACTIVE	VOCS	ND	06/89	ND	09/08	
				NO3	5.7	11/95	5.1	01/09	
				CLO4	ND	08/97	ND	09/08	
02	1900364	MUNICIPAL	ACTIVE	VOCS	ND	06/88	ND	09/08	
				NO3	6.9	09/94	4.4	09/08	
				CLO4	ND	08/97	ND	09/08	
03	1900365	MUNICIPAL	INACTIVE	TCE	1.3	01/80	ND	03/98	VULNERABLE
				NO3	26.9	03/98	26.9	03/98	(NO3)
				CLO4	18.6	03/98	18.6	03/98	
VIA TRUST									
01	1903012	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	1902920	INDUSTRIAL	ACTIVE	TCE	32.0	11/04	2.3	10/08	VULNERABLE
				PCE	27.0	11/04	3.8	10/08	(VOCS)
				1,1-DCE	5.3	11/04	ND	10/08	
				C-1,2-DCE	2.8	11/04	ND	10/08	
				1,1,1-TCA	0.7	11/04	ND	10/08	
				CF	0.7	11/04	ND	10/08	
				MC	1.1	10/06	ND	10/08	
				NO3	16.2	10/04	9.0	10/08	
				CLO4	ND	04/98	ND	10/08	
DUR W	8000063	INDUSTRIAL	ACTIVE	PCE	0.8	02/07	ND	10/08	VULNERABLE
				NO3	16.0	07/01	12.0	10/08	(CLO4)
				CLO4	4.0	05/98	4.0	05/98	
REL 1	1903088	INDUSTRIAL	ACTIVE	VOCS	ND	05/94	ND	10/08	
				NO3	6.5	09/02	6.4	10/08	
				CLO4	ND	05/98	ND	05/98	
WADE, RICHARD I.									
NA	8000056	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	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	
WEST COVINA VENTURE LIMITED									
NA	1902970	NA	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
WILMOTT, ERMA M.									
01	8000006	DOMESTIC	ACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
WOODLAND, RICHARD									
01	1902949	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
02	1902950	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
ROSE HILLS MEMORIAL PARK (WORKMAN MILL INVESTMENT COMPANY)									
04	1902790	IRRIGATION	ACTIVE	PCE	5.3	08/87	ND	10/08	VULNERABLE
				TCE	11.0	04/85	ND	10/08	(VOCS AND NO3)
				1,1-DCE	14.0	04/85	ND	10/08	
				1,1,1-TCA	3.3	04/85	ND	10/08	
				NO3	52.8	02/07	39.0	10/08	
				CLO4	ND	06/98	ND	06/98	
01	1900132	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
02	1900095	IRRIGATION	ACTIVE	PCE	8.6	04/85	ND	10/04	VULNERABLE
				TCE	11.0	04/85	ND	10/04	(VOCS)
				NO3	91.4	10/04	91.4	10/04	
				CLO4	ND	06/98	ND	06/98	
01	1900094	IRRIGATION	ACTIVE	TCE	6.1	04/87	ND	10/08	VULNERABLE
				PCE	6.4	11/87	1.0	10/08	(VOCS AND NO3)
				1,2-DCA	0.8	01/96	ND	10/08	
				1,1-DCE	1.0	04/87	ND	10/08	
				C-1,2-DCE	2.6	05/85	ND	10/08	
				NO3	45.2	02/98	26.0	10/08	
				CLO4	ND	02/98	ND	02/98	
03	1900052	IRRIGATION	ACTIVE	TCE	21.0	05/85	ND	09/05	VULNERABLE
				PCE	7.4	05/85	ND	09/05	(VOCS AND NO3)
				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	
WHITTIER, CITY OF									
09	1901745	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	
10	1901746	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	6.6	01/74	6.6	01/74	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	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	
11	1901747	MUNICIPAL	DESTROYED	VOCS	ND	06/87	ND	11/90	
				NO3	10.1	01/90	10.1	01/90	
				CLO4	NA	NA	NA	NA	
12	1901748	MUNICIPAL	DESTROYED	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	1901749	MUNICIPAL	ACTIVE	PCE	4.9	11/87	ND	06/09	VULNERABLE
				TCE	1.1	06/87	ND	06/09	(VOCS) (3)
				MTBE	6.4	03/02	ND	06/09	
				NO3	13.1	03/05	6.4	03/09	
				CLO4	ND	08/97	ND	09/08	
15	8000071	MUNICIPAL	ACTIVE	PCE	9.4	03/03	1.1	06/09	VULNERABLE
				TCE	0.7	09/04	ND	06/09	(VOCS) (3)
				C-1,2-DCE	2.5	12/93	ND	06/09	
				NO3	13.0	08/89	6.3	09/08	
				CLO4	ND	08/97	ND	09/08	
16	8000110	MUNICIPAL	ACTIVE	PCE	3.4	12/02	1.7	06/09	VULNERABLE
				TCE	1.4	01/97	ND	06/09	(VOCS) (3)
				C-1,2-DCE	2.5	10/96	ND	06/09	
				NO3	9.6	09/89	7.0	03/09	
				CLO4	ND	08/97	ND	09/08	
17	8000135	MUNICIPAL	ACTIVE	PCE	12.0	12/02	3.3	09/08	VULNERABLE
				TCE	2.2	05/92	0.5	09/08	(VOCS) (3)
				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	
18	8000136	MUNICIPAL	ACTIVE	PCE	9.2	09/08	8.2	06/09	
				TCE	2.4	11/95	1.6	06/09	
				C-1,2-DCE	0.7	10/96	ND	06/09	
				NO3	14.7	03/05	14.0	03/09	
				CLO4	ND	08/97	ND	09/08	
EW4-5	8000200	MUNICIPAL	ACTIVE	PCE	29.0	10/06	15.8	03/09	(1)
				TCE	4.1	10/06	1.7	03/09	
				NO3	16.0	12/05	13.0	12/08	
				CLO4	ND	12/05	ND	12/08	
EW4-6	8000201	MUNICIPAL	ACTIVE	PCE	8.1	06/06	0.3	03/09	VULNERABLE
				TCE	1.1	10/06	ND	03/09	(VOCS) (1)
				NO3	15.0	11/06	11.0	12/08	
				CLO4	ND	05/06	ND	12/08	
EW4-7	8000202	MUNICIPAL	ACTIVE	PCE	8.2	01/06	3.4	03/09	VULNERABLE
				TCE	1.8	02/06	0.3	03/09	(VOCS) (1)
				NO3	18.0	01/06	11.0	12/08	
				CLO4	ND	12/05	ND	12/08	

NOTES

ABBREVIATION	CONTAMINANT	MAXIMUM CONTAMINANT LEVEL	METHOD DETECTION LIMIT	REMARKS	
1,1-DCA	1,1-Dichloroethane	5 micrograms per liter (ug/L)	0.5 ug/L	(1)	Existing VOC treatment
1,1-DCE	1,1-Dichloroethylene	6 ug/L	0.5 ug/L	(2)	VOC treatment under construction
1,1,1-TCA	1,1,1-Trichloroethane	200 ug/L	0.5 ug/L	(3)	VOC treatment proposed.
1,1,2,2-PCA	1,1,2,2-Tetrachloroethane	1 ug/L	0.5 ug/L	(4)	Existing CLO4 treatment
1,2-DCA	1,2-Dichloroethane	0.5 ug/L	0.5 ug/L	NA	Not Available
BDCM	Bromodichloromethane	NA	0.5 ug/L	ND	Not Detected
BF	Bromoform	NA	0.5 ug/L	NL	Notification Level
CF	Chloroform	100 ug/L	0.5 ug/L	VOCS	Volatile Organic Compounds
CLO4	Perchlorate	6 ug/L	3.0 ug/L		

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					REMARKS
				CONTAMINANT OF CONCERN	HISTORIC HIGH		MOST RECENT		
					VALUE	DATE	VALUE	DATE	
	CTC	Carbon Tetrachloride		0.5 ug/L		0.5 ug/L			
	C-1,2-DCE	Cis-1,2-Dichloroethylene		6 ug/L		0.5 ug/L			
	DBCM	Dibromochloromethane		NA		0.5 ug/L			
	EBZ	Ethylbenzene		300 ug/L		0.5 ug/L			
	FREON 11	Trichlorofluoromethane		150 ug/L		5.0 ug/L			
	FREON 113	Trichlorotrifluoroethane		1200 ug/L		10.0 ug/L			
	MC	Methylene Chloride		5 ug/L		0.5 ug/L			
	MTBE	Methyl Tert-Butyl Ether		5 ug/L		1.0 ug/L			
	NO3	Nitrate as Nitrate		45 milligrams per liter (mg/L)		2.0 mg/L			
	o-DCB	1,2-Dichlorobenzene		600 ug/L		0.5 ug/L			
	p-DCB	1,4-Dichlorobenzene		5 ug/L		0.5 ug/L			
	PCE	Tetrachloroethylene		5 ug/L		0.5 ug/L			
	TCE	Trichloroethylene		5 ug/L		0.5 ug/L			
	T-1,2-DCE	Trans-1,2-Dichloroethylene		10 ug/L		0.5 ug/L			
	VC	Vinyl Chloride		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	PERFO. (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. 11	8000178	MUNICIPAL	ACTIVE	200-320	PUMPING	
NO. 12	8000179	MUNICIPAL	ACTIVE	206-311	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	
VULCAN MATERIALS COMPANY (CALMAT COMPANY						
DUR E	1902920	INDUSTRIAL	ACTIVE	238-484	PUMPING	
DUR W	8000063	INDUSTRIAL	ACTIVE	?-525	MONITORING	
GLENDORA, CITY OF						
05-E	8000149	MUNICIPAL	ACTIVE	150-400	PUMPING	
NA	1903119	INDUSTRIAL	ACTIVE	?-220	MONITORING	OWL ROCK PRODUCTS WELL
MONTEREY PARK, CITY OF						
15	8000196	MUNICIPAL	ACTIVE	200-425	PUMPING	
04	1902664	IRRIGATION	ACTIVE	260-752	MONITORING	LAC DEPARTMENT OF PUBLIC WORKS
06	1902666	IRRIGATION	ACTIVE	226-475	MONITORING	LAC DEPARTMENT OF PUBLIC WORKS
WORKMAN MILL INVESTMENT COMPANY (ROSE HILLS MEMORIAL PARK)						
-	1900094	IRRIGATION	ACTIVE	137-264	PUMPING	
-	8000004	MUNICIPAL	INACTIVE	?-200	MONITORING	BEVERLY ACRES MWC
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	ACTIVE	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	PERFO. (1)	FUNCTION	REMARKS
GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN GABRIEL VALLEY DISTRIC						
FAR 1	1902034	MUNICIPAL	ACTIVE	274-455	PUMPING	
FAR 2	1902948	MUNICIPAL	ACTIVE	229-600	MONITORING	
GAR 1	1900513	MUNICIPAL	ACTIVE	?-424	MONITORING	ALTERNATE FOR MONTEREY PARK SITE
GAR 2	1900512	MUNICIPAL	ACTIVE	377-404	PUMPING	
GRA 1	1902030	MUNICIPAL	STANDBY	NA	PUMPING	
GRA 2	1902461	MUNICIPAL	STANDBY	400-475	MONITORING	
SG 1	1900510	MUNICIPAL	ACTIVE	190-411	MONITORING	
SG 2	1900511	MUNICIPAL	ACTIVE	209-393	PUMPING	
GOLDEN STATE WATER COMPANY (SOUTHERN CALIFORNIA WATER COMPANY)/SAN DIMAS DISTRIC						
COL-4	1902268	MUNICIPAL	ACTIVE	122-190	PUMPING	
COL-6	1902270	MUNICIPAL	ACTIVE	?-414	MONITORING	
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	NA	MUNICIPAL	NA	NA	MONITORING	
VALENCIA HEIGHTS WATER COMPANY						
05	8000120	MUNICIPAL	ACTIVE	230-720	PUMPING	
07	NA	MUNICIPAL	ACTIVE	244-724	MONITORING	
VALLEY COUNTY WATER DISTRICT						
E NIXON (JOAN)	1900032	MUNICIPAL	ACTIVE	300-586	MONITORING	ALTERNATE FOR MAINE SITE
W NIXON (JOAN)	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	

NOTES

NA NOT AVAILABLE

(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

SUMMARY OF TREATMENT FACILITY ACTIVITY
IN THE MAIN SAN GABRIEL BASIN
AS OF JUNE 30, 2009

Operable Unit	Treatment Facility Owner	Treatment Facility(s)	Start Date 1/	Total Water Treated: Fiscal Year 2008-09 (Acre-feet)	Total Water Treated: Accum. Total (Acre-feet)	Total Contaminants Removed: Fiscal Year 2008-09 (Pounds)	Total Contaminants Removed: Accum. Total (Pounds)
AREA 3							
	ALHAMBRA, CITY OF	Well No. 7	July 2001	859.00	7,092.35	12.4	125.0
		Well No. 7, 8, 11 & 12	April 2009	12.00	12.00	0.8	0.8
BPOU							
	LA PUENTE VALLEY COUNTY WATER DISTRICT	Well No. 2, 3 & 4	August 1992	—	11,493.13	—	826.9
		Well No. 2 & 3 (BPOU)	January 2000	3,795.32	27,634.85	734.0	7,053.7
	SAN GABRIEL VALLEY WATER COMPANY	Well B6C	April 1994	—	5,194.17	—	856.2
		Well B6D	April 1994	—	14,526.27	—	421.7
		Plant B6 (BPOU)	September 2004	8,149.12	40,400.02	1,852.2	7,864.0
		Plant B5 (BPOU)	January 2007	9,428.36	18,694.61	204.5	459.5
	VALLEY COUNTY WATER DISTRICT	Lante	June 1984	—	7,719.61	—	10,356.7
		Lante, SA1-1 & SA1-2 (BPOU)	December 2004	8,088.89	25,540.27	5,934.0	14,098.2
EMOU							
	ADAMS RANCH MUTUAL WATER COMPANY	Well No. 3	November 2003	66.59	442.59	1.4	16.4
	GOLDEN STATE WATER COMPANY (SGV)	Encinita No. 1, 2 & 3	April 1998	1,155.39	12,423.91	27.8	311.2
PVOU							
	BDP - CARRIER	Carrier	April 1988	228.57	5,817.01	19.9	2,750.6
SEMOU							
	MONTEREY PARK, CITY OF	Well No. 5	September 1999	1,890.34	10,051.09	182.4	719.3
		Well No. 9 & 12, 15	April 2002	4,742.26	27,206.15	859.2	3,510.4
	SAN GABRIEL VALLEY WATER COMPANY	Well 8B, 8C, 8D & 8E	August 2002	2,148.31	22,535.47	291.6	2,006.8
WNOU							
	EPA	WNOU (Shallow Zone)	December 1999	2,073.82	23,119.47	11.8	1,610.1
	WHITTIER, CITY OF	WNOU (Intermediate Zone)	December 2005	2,325.57	16,538.91	77.1	749.7
PRODUCER FACILITY							
	ARCADIA, CITY OF	Longden 1 & 2	January 1985	778.89	62,657.80	11.4	696.3
	BOZUNG	Well B36, F38, F39 & BC34 2/	October 1994	—	233.00	—	131.3
	CALIFORNIA DOMESTIC WATER COMPANY	Well No. 3, Well No. 5A, Well No. 6 & Well No. 14	September 1993 April 1997	14,895.72	223,945.22	1,084.3	6,360.5
	EL MONTE, CITY OF	Well No. 12	February 1997	739.81	12,392.75	87.4	650.7
		Well No. 10	May 2004	454.79	3,356.07	2.9	27.8
		Well No. 2A	July 1999	383.59	5,161.07	5.0	94.2
	EPA	Richwood (North Well) 3/	April 1990	—	451.98	—	5.8
		Richwood (South Well) 3/	April 1990				
	GOLDEN STATE WATER COMPANY (SGV)	San Gabriel No.1 & 2	November 2001	1,357.30	6,663.09	31.1	289.0
	GOLDEN STATE WATER COMPANY (SD)	Art 2 & 3, Base 3 & 4, Hwy 1	May 2005	1,479.60	6,875.05	23.2	62.2
	HEMLOCK MUTUAL WATER COMPANY	Hemlock (North Well) 4/	April 1986	—	2,553.65	—	44.6
		Hemlock (South Well) 4/	April 1986				
	MONROVIA, CITY OF	Wells No. 2 & 6	March 1996	2,449.06	28,860.12	58.0	481.6
		Wells No. 3, 4 & 5	October 2007	1,043.51	1,537.45	9.5	13.9
	MONTEREY PARK, CITY OF	Well No. 1, 3 & 10	June 2004	2,404.23	13,506.89	131.8	1,152.5
	SAN GABRIEL VALLEY WATER COMPANY	Well 11B	March 1991	1,620.25	37,725.65	5.9	300.1
		Well B11B	March 1993	1,459.53	34,869.38	93.2	2,546.5
		Well B7C	March 1993	2,326.70	39,448.91	83.7	1,501.7
		Well B4B & B4C	January 1999	—	24,093.04	—	1,233.5
		Well G4A	December 2005	451.60	2,707.72	5.8	46.1
	SUBURBAN WATER SYSTEMS	Well No. 140W-4 4/	May 2001	—	2,247.59	—	16.2
	VALLEY COUNTY WATER DISTRICT	Maine East & West	June 1990	3,042.66	29,129.30	46.0	1,644.5
		Nixon East & West 4/	January 2004	—	11,307.90	—	87.0
	WATER QUALITY AUTHORITY	Arrow (Project No. 1) 4/	February 1992	—	7,250.41	—	17,423.0
		Big Dalton (Project No. 2)	March 1997	—	1,229.02	—	82.5
		Former Bozung Site	January 2008	36.46	56.69	26.9	44.8
		SEMOU	July 1999	—	3,885.19	—	1,558.5
			TOTAL	79,887.24	838,586.82	11,915.20	90,231.99

Footnotes:
1/ From date of beginning of operation.
2/ Treatment facility has been permanently dismantled.
3/ Wells destroyed in June 1999.
4/ Wellfield no longer pumps to treatment facility.

APPENDIX F.

MAPS SHOWING WELLS VULNERABLE TO VOC, NITRATE AND PERCHLORATE CONTAMINATION WITHIN FIVE YEARS (FIGURES 8A, 8B, AND 8C)

Figure 8(a)

1 of 3

STETSON ENGINEERS INC.

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

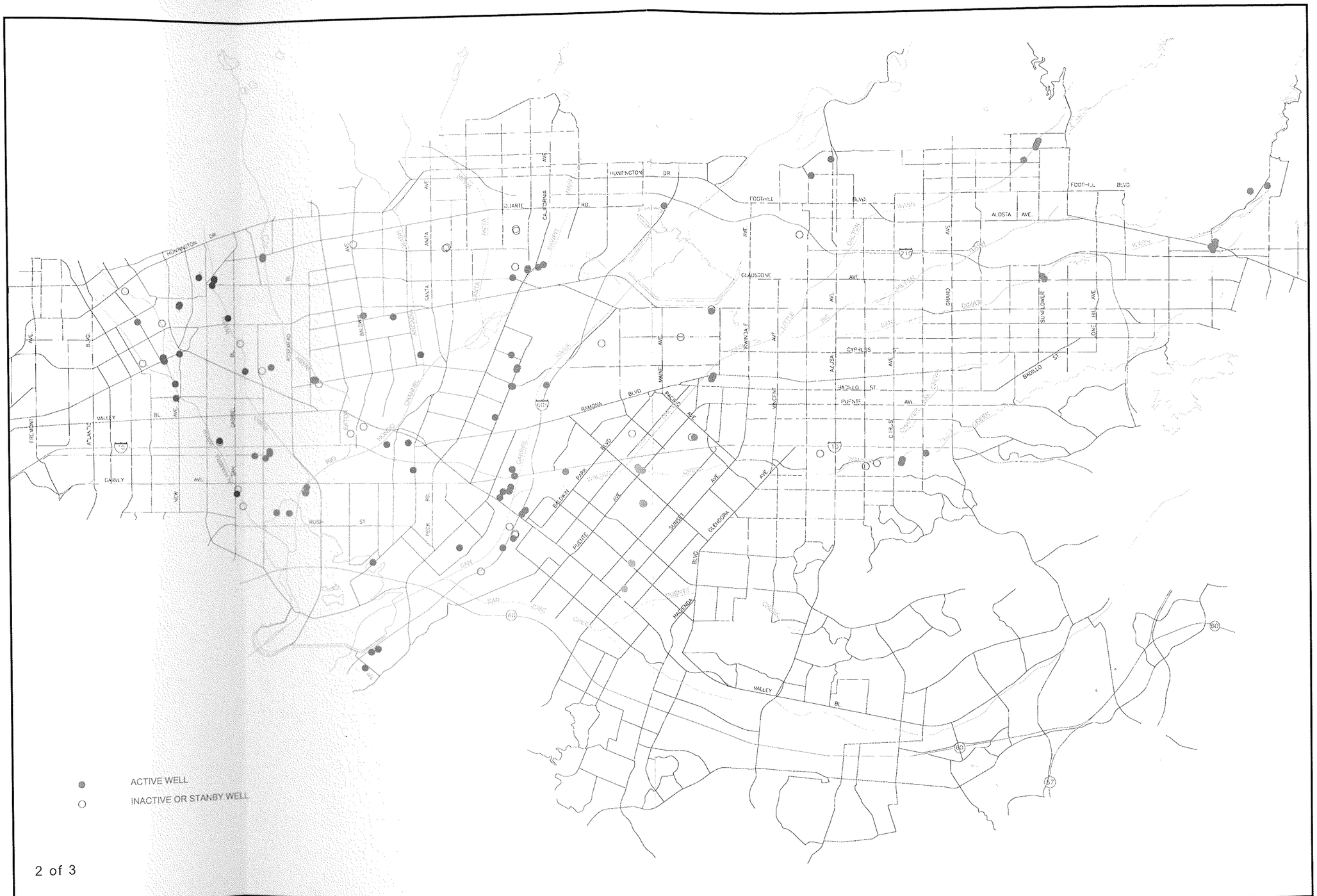
APPROXIMATE SCALE
6,000' 0 6,000'

MAIN SAN GABRIEL BASIN WATERMASTER

WELLS VULNERABLE TO VOLATILE ORGANIC COMPOUNDS CONTAMINATION WITHIN THE NEXT FIVE YEARS (2009-14)

Main San Gabriel Basin WATERMASTER

Figure 8(b)



2 of 3

STETSON ENGINEERS INC.
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

APPROXIMATE SCALE
6,000' 0 6,000'

MAIN SAN GABRIEL BASIN WATERMASTER

WELLS VULNERABLE TO NITRATE CONTAMINATION
WITHIN THE NEXT FIVE YEARS (2009-14)

Main San Gabriel Basin WATERMASTER

Figure 8(c)

3 of 3

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861 VILLAGE OAKS DRIVE, SUITE 100
COVINA, CALIFORNIA 91724
TEL: (626) 967-6202
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APPROXIMATE SCALE
6,000' 0 6,000'

MAIN SAN GABRIEL BASIN WATERMASTER

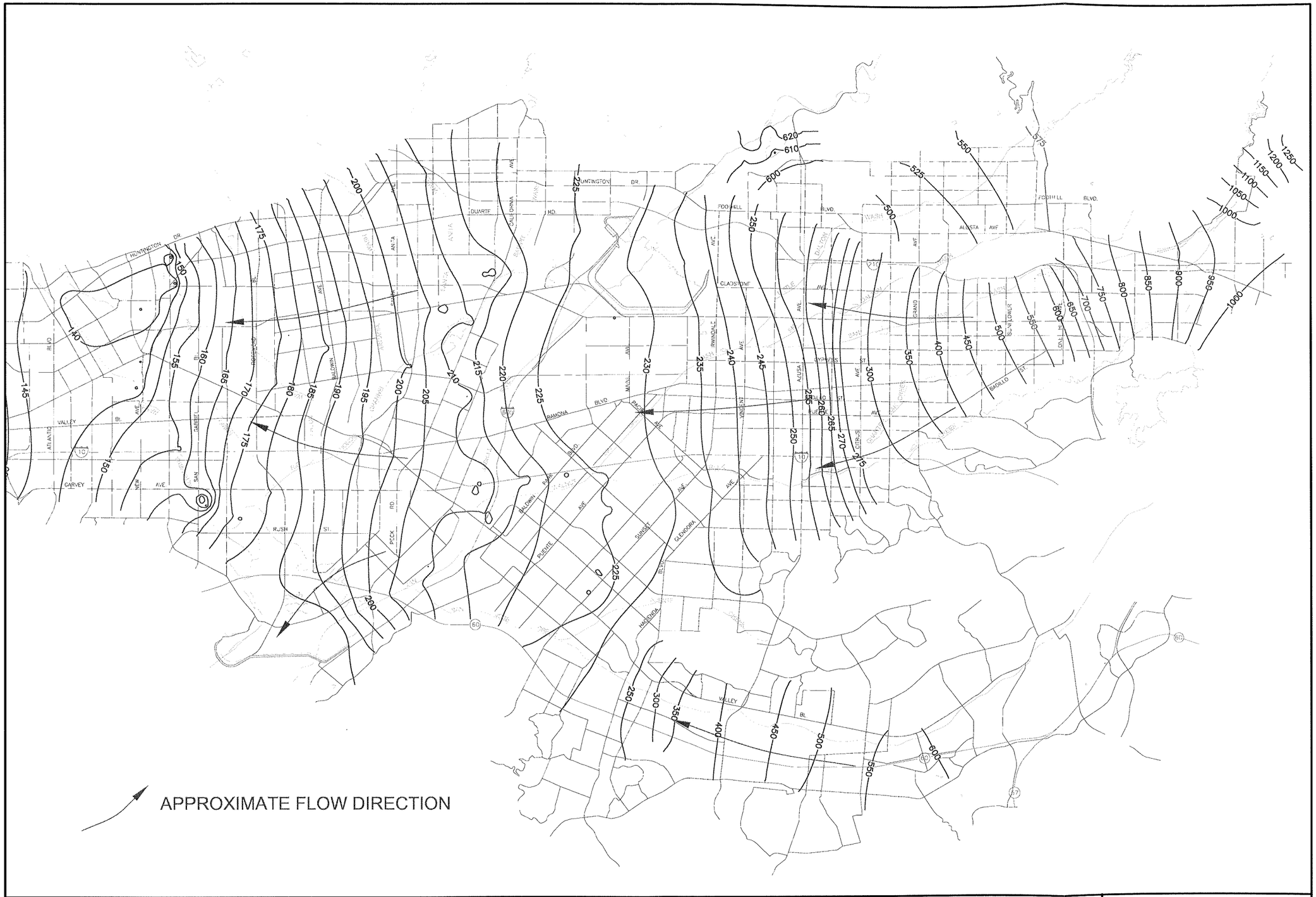
WELLS VULNERABLE TO PERCHLORATE CONTAMINATION
WITHIN THE NEXT FIVE YEARS (2009-14)

Main San Gabriel Basin WATERMASTER

APPENDIX G.

SIMULATED BASIN GROUNDWATER CONTOURS 2008-09 AND 2013-14 (FIGURES 9 AND 10)

Figure 9



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881 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
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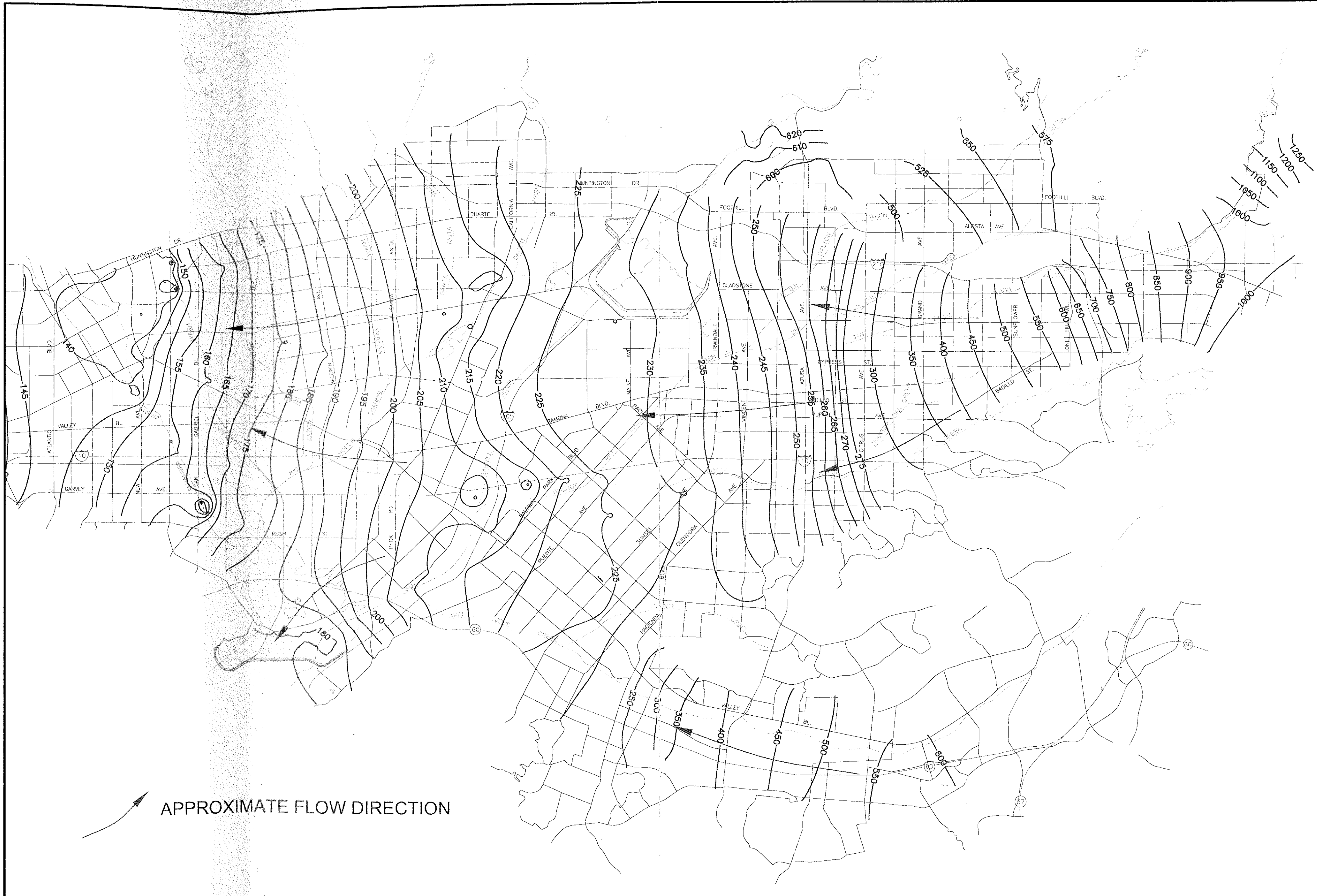
APPROXIMATE SCALE
6,000' 0 6,000'

MAIN SAN GABRIEL BASIN WATERMASTER

SIMULATED 2008-09 BASIN GROUNDWATER CONTOURS

MainSanGabrielBasin WATERMASTER



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861 VILLAGE OAKS DRIVE, SUITE 100
COVINA, CALIFORNIA 91724
TEL: (626) 967-6202
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2171 E Francisco Blvd., Suite K
San Rafael California 94901
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Mesa Arizona 85202

MAIN SAN GABRIEL BASIN WATERMASTER

SIMULATED 2013-14 BASIN GROUNDWATER CONTOURS

MainSanGabrielBasin WATERMASTER

APPENDIX K

WATER RATE

COVINA IRRIGATING COMPANY

Historical Summary of Water Rates/Assessments

Fiscal Year	1st Tier Rate: $/AF	up to ____% of base entitlement	2nd Tier Rate: $/AF	up to ____% of base entitlement	3rd Tier Rate: $/AF	over ____% of base entitlement	ratio of AF per Share	Annual Safe Yield	Annual Assessments $/Share
10/11	$425	N/A	N/A	N/A	N/A	N/A	0.8700	170,000	$0
09/10b	$310	200%	$340	> 200%	N/A	N/A	0.9000	170,000	$0
09/10a	$280	200%	$310	> 200%	N/A	N/A	0.9000	170,000	$0
08/09	$180	100%	$190	150%	$200	150%	0.9300	180,000	$70
07/08	$165	100%	$175	150%	$185	150%	1.0200	210,000	$70
06/07	$140	100%	$155	150%	$165	150%	1.1000	240,000	$60
05/06	$140	100%	$155	150%	$165	150%	1.1000	240,000	$60
04/05	$125	100%	$140	150%	$150	150%	0.8300	170,000	$30
03/04	$100	100%	$130	150%	$150	150%	0.8300	170,000	$25
02/03	$90	100%	$120	150%	$140	150%	0.8940	190,000	$20
01/02	$85	100%	$105	200%	$120	200%	0.9634	210,000	$22
00/01	$75	100%	$95	200%	$115	200%	0.9958	220,000	$25
99/00	$75	100%	$85	200%	$105	200%	0.9833	220,000	$27
98/99	$75	100%	$85	175%	$95	175%	1.0161	230,000	$30
97/98	$75	100%	$85	175%	$95	175%	0.9828	220,000	$33
96/97	$80	130%	$105	> 130%	N/A	N/A	0.9482	210,000	$40
95/96	$75	200%	$100	> 200%	N/A	N/A	0.9789	220,000	$40
94/95	$75	All sales	N/A	N/A	N/A	N/A	0.8768	200,000	
93/94	$75	All sales	N/A	N/A	N/A	N/A		220,000	
92/93	$59	All sales	N/A	N/A	N/A	N/A		180,000	
91/92	$45	All sales	N/A	N/A	N/A	N/A		140,000	
90/91	$40	All sales	N/A	N/A	N/A	N/A		170,000	

Notes:

* The above rates do not include any fees owed to Watermaster for Replenishment Water.
  (currently $569 per AF for any consumption over base entitlement)
* 09/10b - rates adjusted mid-year effective Jan 1, 2010.

AF: Acre-feet
N/A: Not applicable

Base entitlement is based on the number of shares owned/leased multiplied by the ratio of AF per share.

APPENDIX L

COMPLETED URBAN WATER MANAGEMENT PLAN CHECKLIST

Table I-2 Urban Water Management Plan checklist, organized by subject

No.	UWMP requirement [a]	Calif. Water Code reference	Additional clarification	UWMP location
CONTINGENCY [b]				
35	Provide an urban water shortage contingency analysis that specifies stages of action, including up to a 50-percent water supply reduction, and an outline of specific water supply conditions at each stage	10632(a)		See Section: 5.4.2
36	Provide an estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply.	10632(b)		See Section 5.4.3
37	Identify actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including, but not limited to, a regional power outage, an earthquake, or other disaster.	10632(c)		See Section: 5.2.1
38	Identify additional, mandatory prohibitions against specific water use practices during water shortages, including, but not limited to, prohibiting the use of potable water for street cleaning.	10632(d)		See Section: 5.2.2
39	Specify consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.	10632(e)		See Section 5.2.3
40	Indicated penalties or charges for excessive use, where applicable.	10632(f)		See Section: 5.2.4
41	Provide an analysis of the impacts of each of the actions and conditions described in subdivisions (a) to (f), inclusive, on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.	10632(g)		See Section: 5.2.5
42	Provide a draft water shortage contingency resolution or ordinance.	10632(h)		See Section: 5.2.6
43	Indicate a mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.	10632(i)		See Section: 5.4.4
DMMs				
26	Describe how each water demand management measures is being implemented or scheduled for implementation. Use the list provided.	10631(f)(1)	Discuss each DMM, even if it is not currently or planned for implementation. Provide any appropriate schedules.	See Section: 6.1

No.	UWMP requirement [a]	Calif. Water Code reference	Additional clarification	UWMP location
27	Describe the methods the supplier uses to evaluate the effectiveness of DMMs implemented or described in the UWMP.	10631(f)(3)		See Section: 6.1
28	Provide an estimate, if available, of existing conservation savings on water use within the supplier's service area, and the effect of the savings on the ability to further reduce demand.	10631(f)(4)		See Section: 6.1
29	Evaluate each water demand management measure that is not currently being implemented or scheduled for implementation. The evaluation should include economic and non-economic factors, cost-benefit analysis, available funding, and the water suppliers' legal authority to implement the work.	10631(g)	See 10631(g) for additional wording.	See Section: 6.2
32	Include the annual reports submitted to meet the Section 6.2 requirements, if a member of the CUWCC and signer of the December 10, 2008 MOU.	10631(j)	Signers of the MOU that submit the biannual reports are deemed compliant with Items 28 and 29.	Not Available
EXTERNAL COORDINATION AND OUTREACH				
4	Coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.	10620(d)(2)		See Section: 1.2.1
6	Notify, at least 60 days prior to the public hearing on the plan required by Section 10642, any city or county within which the supplier provides water that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. Any city or county receiving the notice may be consulted and provide comments.	10621(b)		See Section: 1.2.2
7	Provide supporting documentation that the UWMP or any amendments to, or changes in, have been adopted as described in Section 10640 et seq.	10621(c)		See Section: 1.3.1
54	Provide supporting documentation that the urban water management plan has been or will be provided to any city or county within which it provides water, no later than 60 days after the submission of this urban water management plan.	10635(b)		See Section: 1.3.5
55	Provide supporting documentation that the water supplier has encouraged active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan.	10642		See Section: 1.2.4
56	Provide supporting documentation that the urban water supplier made the plan available for public inspection and held a public hearing about the	10642		See Section: 1.2.4

No.	UWMP requirement [a]	Calif. Water Code reference	Additional clarification	UWMP location
	plan. For public agencies, the hearing notice is to be provided pursuant to Section 6066 of the Government Code. The water supplier is to provide the time and place of the hearing to any city or county within which the supplier provides water. Privately-owned water suppliers shall provide an equivalent notice within its service area.			
57	Provide supporting documentation that the plan has been adopted as prepared or modified.	10642		See Section: 1.3.2
58	Provide supporting documentation as to how the water supplier plans to implement its plan.	10643		See Section: 1.3.3
59	Provide supporting documentation that, in addition to submittal to DWR, the urban water supplier has submitted this UWMP to the California State Library and any city or county within which the supplier provides water supplies a copy of its plan no later than 30 days after adoption. This also includes amendments or changes.	10644(a)		See Section: 1.3.4
60	Provide supporting documentation that, not later than 30 days after filing a copy of its plan with the department, the urban water supplier has or will make the plan available for public review during normal business hours	10645		See Section: 1.3.5
RECYCLED WATER				
44	Provide information on recycled water and its potential for use as a water source in the service area of the urban water supplier. Coordinate with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area.	10633		See Section: 4.6.1
45	Describe the wastewater collection and treatment systems in the supplier's service area, including a quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.	10633(a)		See Section: 4.6.2
46	Describe the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.	10633(b)		See Section: 4.6.2
47	Describe the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use.	10633(c)		See Section: 4.6.3
48	Describe and quantify the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, indirect potable reuse, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.	10633(d)		See Section: 4.6.4

No.	UWMP requirement [a]	Calif. Water Code reference	Additional clarification	UWMP location
49	The projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected.	10633(e)		See Section: 4.6.5
50	Describe the actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these actions in terms of acre-feet of recycled water used per year.	10633(f)		See Section: 4.6.6 p. 4-36
51	Provide a plan for optimizing the use of recycled water in the supplier's service area, including actions to facilitate the installation of dual distribution systems, to promote recirculating uses, to facilitate the increased use of treated wastewater that meets recycled water standards, and to overcome any obstacles to achieving that increased use.	10633(g)		See Section: 4.6.7
RELIABILITY				
22	Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage and provide data for (A) an average water year, (B) a single dry water year, and (C) multiple dry water years.	10631(c)(1)		See Section: 5.4.1
23	For any water source that may not be available at a consistent level of use - given specific legal, environmental, water quality, or climatic factors - describe plans to supplement or replace that source with alternative sources or water demand management measures, to the extent practicable.	10631(c)(2)		See Section: 5.1.2
53	Assess the water supply reliability during normal, dry, and multiple dry water years by comparing the total water supply sources available to the water supplier with the total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and multiple dry water years. Base the assessment on the information compiled under Section 10631, including available data from state, regional, or local agency population projections within the service area of the urban water supplier.	10635(a)		See Section: 5.4.5
SERVICE AREA				
8	Describe the water supplier service area.	10631(a)		See Section: 2.2.1
9	Describe the climate and other demographic factors of the service area of the supplier	10631(a)		See Section: 2.2.2
10	Indicate the current population of the service area	10631(a)	Provide the most recent population data possible. Use the method described in	See Section: 2.3

No.	UWMP requirement [a]	Calif. Water Code reference	Additional clarification	UWMP location
			"Baseline Daily Per Capita Water Use". See Section M.	
11	Provide population projections for 2015, 2020, 2025, and 2030, based on data from State, regional, or local service area population projections.	10631(a)	2035 and 2040 can also be provided to support consistency with Water Supply Assessments and Written Verification of Water Supply documents.	See Section: 2.3.1
12	Describe other demographic factors affecting the supplier's water management planning.	10631(a)		See Section: 2.3.2
WATER CONSERVATION				
1	Provide baseline daily per capita water use, urban water use target, interim urban water use target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.	10608.20(e)		See Section: 3.1
`	Include an assessment of present and proposed future measures, programs, and policies to help achieve the water use reductions.	10608.36		See Section: 3.4
3	Report progress in meeting urban water use targets using the standardized form.	10608.40		See Section: 3.5
WATER DEMANDS				
25	Quantify past, current, and projected water use, identifying the uses among water use sectors, for the following: (A) single-family residential, (B) multifamily, (C) commercial, (D) industrial, (E) institutional and governmental, (F) landscape, (G) sales to other agencies, (H) saline water intrusion barriers, groundwater recharge, conjunctive use, and (I) agriculture.	10631(e)(1)	Consider 'past' to be 2005, present to be 2010, and projected to be 2015, 2020, 2025, and 2030. Provide numbers for each category for each of these years.	See Section: 3.2 and 3.3
34	Include projected water use for single-family and multifamily residential housing needed for lower income households, as identified in the housing element of any city, county, or city and county in the service area of the supplier.	10631.1(a)		See Section: 3.2 and 3.3
WATER SUPPLY				
5	Describe water management tools and options to maximize resources and minimize the need to import water from other regions.	10620(f)		See Section: 5.1.1
13	Identify and quantify the existing and planned sources of water available for 2015, 2020, 2025, and 2030.	10631(b)	The 'existing' water sources should be for the same year as the "current population" in line	See Section: 4.1

No.	UWMP requirement [a]	Calif. Water Code reference	Additional clarification	UWMP location
			10. 2035 and 2040 can also be provided.	
14	Indicate whether groundwater is an existing or planned source of water available to the supplier. If yes, then complete 15 through 21 of the UWMP Checklist. If no, then indicate “not applicable” in lines 15 through 21 under the UWMP location column.	10631(b)	Source classifications are: surface water, groundwater, recycled water, storm water, desalinated sea water, desalinated brackish groundwater, and other.	See Section: 4.1
15	Indicate whether a groundwater management plan been adopted by the water supplier or if there is any other specific authorization for groundwater management. Include a copy of the plan or authorization.	10631(b)(1)		See Section: 4.2
16	Describe the groundwater basin.	10631(b)(2)		See Section: 4.2
17	Indicate whether the groundwater basin is adjudicated? Include a copy of the court order or decree.	10631(b)(2)		See Section: 4.2
18	Describe the amount of groundwater the urban water supplier has the legal right to pump under the order or decree. If the basin is not adjudicated, indicate “not applicable” in the UWMP location column.	10631(b)(2)		See Section: 4.2
19	For groundwater basins that are not adjudicated, provide information as to whether DWR has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current official departmental bulletin that characterizes the condition of the groundwater basin, and a detailed description of the efforts being undertaken by the urban water supplier to eliminate the long-term overdraft condition. If the basin is adjudicated, indicate “not applicable” in the UWMP location column.	10631(b)(2)		Not Applicable
20	Provide a detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years	10631(b)(3)		See Section: 4.2.3
21	Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped.	10631(b)(4)	Provide projections for 2015, 2020, 2025, and 2030.	See Section: 4.2.4
24	Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.	10631(d)		See Section: 4.4
30	Include a detailed description of all water supply projects and programs that may be undertaken by the water supplier to address water supply reliability in average, single-dry, and multiple-dry years, excluding demand management programs addressed in (f)(1). Include specific projects,	10631(h)		See Section: 4.7

No.	UWMP requirement [a]	Calif. Water Code reference	Additional clarification	UWMP location
	describe water supply impacts, and provide a timeline for each project.			
31	Describe desalinated water project opportunities for long-term supply, including, but not limited to, ocean water, brackish water, and groundwater.	10631(i)		See Section: 4.5
33	Provide documentation that either the retail agency provided the wholesale agency with water use projections for at least 20 years, if the UWMP agency is a retail agency, OR, if a wholesale agency, it provided its urban retail customers with future planned and existing water source available to it from the wholesale agency during the required water-year types	10631(k)	Average year, single dry year, multiple dry years for 2015, 2020, 2025, and 2030.	See Section: 3.3
52	Provide information, to the extent practicable, relating to the quality of existing sources of water available to the supplier over the same five-year increments, and the manner in which water quality affects water management strategies and supply reliability	10634	For years 2010, 2015, 2020, 2025, and 2030	See Section: 5.3

a The UWMP Requirement descriptions are general summaries of what is provided in the legislation. Urban water suppliers should review the exact legislative wording prior to submitting its UWMP.

b The Subject classification is provided for clarification only. A water supplier is free to address the UWMP Requirement anywhere with its UWMP, but is urged to provide clarification to DWR to facilitate review for completeness.