# APPENDIX A

# URBAN WATER MANAGEMENT ACT

**Established:** AB 797, Klehs, 1983
**Amended:** AB 2661, Klehs, 1990
AB 11X, Filante, 1991
AB 1869, Speier, 1991
AB 892, Frazee, 1993
SB 1017, McCorquodale, 1994
AB 2853, Cortese, 1994
AB 1845, Cortese, 1995
SB 1011, Polanco, 1995
AB 2552, Bates, 2000
SB 553, Kelley, 2000
SB 610, Costa, 2001
AB 901, Daucher, 2001
SB 672, Machado, 2001
SB 1348, Brulte, 2002
SB 1384, Costa, 2002
SB 1518, Torlakson, 2002
AB 105, Wiggins, 2004
SB 318, Alpert, 2004
SB 1087, Florez, 2005
SBX7 7, Steinberg, 2009

# CALIFORNIA WATER CODE DIVISION 6
# PART 2.6. URBAN WATER MANAGEMENT PLANNING

## 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 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 and 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) 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:

(1) An average water year.
(2) A single dry water year.
(3) Multiple dry water years.

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) Urban water suppliers that are members of the California Urban Water Conservation Council and submit annual reports to that council in accordance with the "Memorandum of Understanding Regarding Urban Water Conservation in California," dated September 1991, may submit the annual reports identifying water demand management measures currently being implemented, or scheduled for implementation, to satisfy the requirements of subdivisions (f) and (g).

(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), including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.

10631.5. The department shall take into consideration whether the urban water supplier is implementing or scheduled for implementation, the water demand management activities that the urban water supplier identified in its urban water management plan, pursuant to Section 10631, in evaluating applications for grants and loans made available pursuant to Section 79163. 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.

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, 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.

## Articl 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 file with the department 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 filed with the department 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 outstanding elements of the individual plans. The department shall provide a copy of the report to each urban water supplier that has filed its plan with 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.

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.

10657.

(a) The department shall take into consideration whether the urban water supplier has submitted an updated urban water management plan that is consistent with Section 10631, as amended by the act that adds this section, in determining whether the urban water supplier is eligible for funds made available pursuant to any program administered by the department.

(b) This section shall remain in effect only until January 1, 2006, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2006, deletes or extends that date.

# APPENDIX B.1

# COORDINATION

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# MEMORANDUM

**TO:** **City of San Gabriel**
**Attn: City Clerk**
**425 South Mission Drive**
**San Gabriel, CA 91776**

**FROM:** **San Gabriel County Water District**

**SUBJECT:** **2010 Urban Water Management Plan Update**

**DATE:** **December 15, 2010**

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. 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. San Gabriel County Water District (SGCWD) is currently in the process of updating our 2010 UWMP.

As an urban water supplier, SGCWD 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. SGCWD will be reviewing the UWMP and will make amendments and changes, as appropriate. SGCWD invites you to submit comments in anticipation of the development of our 2010 UWMP.

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

[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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# MEMORANDUM

**TO:** **City of Rosemead**
**Attn: City Clerk**
**8838 E. Valley blvd.**
**Rosemead, CA 91770**

**FROM:** **San Gabriel County Water District**

**SUBJECT:** **2010 Urban Water Management Plan Update**

**DATE:** **December 15, 2010**

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. 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. San Gabriel County Water District (SGCWD) is currently in the process of updating our 2010 UWMP.

As an urban water supplier, SGCWD 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. SGCWD will be reviewing the UWMP and will make amendments and changes, as appropriate. SGCWD invites you to submit comments in anticipation of the development of our 2010 UWMP.

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# MEMORANDUM

**TO:** **City of Temple City**
**Attn: City Clerk**
**9701 Las Tunas Drive**
**Temple City, CA 91780**

**FROM:** **San Gabriel County Water District**

**SUBJECT:** **2010 Urban Water Management Plan Update**

**DATE:** **December 15, 2010**

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BARBARA A. CARRERA
Treasurer/Finance & Administration Manager

LEMIEUX & O'NEILL
General Counsel

TELEPHONES
(626) 287-0341
(323) 283-2629
FAX (626) 287-8524

**SAN GABRIEL COUNTY WATER DISTRICT**

# MEMORANDUM

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

**FROM:** **San Gabriel County Water District**

**SUBJECT:** **2010 Urban Water Management Plan Update**

**DATE:** **December 15, 2010**

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. 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. San Gabriel County Water District (SGCWD) is currently in the process of updating our 2010 UWMP.

As an urban water supplier, SGCWD 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. SGCWD will be reviewing the UWMP and will make amendments and changes, as appropriate. SGCWD invites you to submit comments in anticipation of the development of our 2010 UWMP.

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

[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.

DIRECTORS

VIRGIL L. HANSEN, President
SABINO CICI, Vice President
CARL BONENBERGER
MARY CAMMARANO
WELLINGTON H. LOVE

OFFICE
8366 GRAND AVENUE
ROSEMEAD, CA 91770

MAILING
P.O. BOX 2227
SAN GABRIEL, CA 91778-2227

**SAN GABRIEL COUNTY WATER DISTRICT**

EXECUTIVE OFFICERS

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Secretary/General Manager

BARBARA A. CARRERA
Treasurer/Finance & Administration Manager

LEMIEUX & O'NEILL
General Counsel

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(626) 287-0341
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FAX (626) 287-8524

# MEMORANDUM

**TO:** **Main San Gabriel Basin Watermaster**
**Attn: Ms. Carol Williams**
**725 N. Azusa Ave.**
**Azusa, CA 91702**

**FROM:** **San Gabriel County Water District**

**SUBJECT:** **2010 Urban Water Management Plan Update**

**DATE:** **December 15, 2010**

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. 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. San Gabriel County Water District (SGCWD) is currently in the process of updating our 2010 UWMP.

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**SAN GABRIEL COUNTY WATER DISTRICT**

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(323) 283-2629
FAX (626) 287-8524

# MEMORANDUM

**TO:** **Raymond Basin Management Board**
**Attn: Mr. Anthony Zampiello**
**725 N. Azusa Ave.**
**Azusa, CA 91702**

**FROM:** **San Gabriel County Water District**

**SUBJECT:** **2010 Urban Water Management Plan Update**

**DATE:** **December 15, 2010**

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. 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. San Gabriel County Water District (SGCWD) is currently in the process of updating our 2010 UWMP.

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

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DIRECTORS

VIRGIL L. HANSEN, President
SABINO CICI, Vice President
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MARY CAMMARANO
WELLINGTON H. LOVE

OFFICE
8366 GRAND AVENUE
ROSEMEAD, CA 91770

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**SAN GABRIEL COUNTY WATER DISTRICT**

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LEMIEUX & O'NEILL
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(323) 283-2629
FAX (626) 287-8524

# MEMORANDUM

**TO:** **Upper San Gabriel Valley Municipal Water District**
**Attn: Mr. Shane Chapman**
**11310 Valley Blvd.**
**El Monte, CA 91731**

**FROM:** **San Gabriel County Water District**

**SUBJECT:** **2010 Urban Water Management Plan Update**

**DATE:** **December 15, 2010**

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. 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. San Gabriel County Water District (SGCWD) is currently in the process of updating our 2010 UWMP.

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DIRECTORS

VIRGIL L. HANSEN, President
SABINO CICI, Vice President
CARL BONENBERGER
MARY CAMMARANO
WELLINGTON H. LOVE

OFFICE
8366 GRAND AVENUE
ROSEMEAD, CA 91770

MAILING
P.O. BOX 2227
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SAN GABRIEL
COUNTY WATER DISTRICT

EXECUTIVE OFFICERS

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(323) 283-2629
FAX (626) 287-8524

March 31, 2011

City of San Gabriel
425 S. Mission Blvd.
San Gabriel, CA 91776

Attn: City Clerk

Subject: **Notice of Intention to Adopt the 2010 Urban Water Management Plan**

Dear Sir or Madam:

This letter serves as notification that San Gabriel County Water District is currently preparing its 2010 Urban Water Management Plan (Plan), and intends to adopt the Plan at a public hearing scheduled for May 24, 2011.

A draft of the Plan will be available for your review on April 11, 2011 on our website www.sgcwd.com and in our office. Comments may be submitted in writing by May 6, 2011 to:

San Gabriel County Water District
8366 Grand Ave.
Rosemead, CA 91770
Attn: Barbara Carrera

A final draft will be prepared in response to comments received prior to May 6th. Comments received during the public hearing will be attached to the final Plan.

Sincerely,

Barbara A. Carrera
Finance and Administration Manager

**DIRECTORS**

**VIRGIL L. HANSEN, President**
**SABINO CICI, Vice President**
**CARL BONENBERGER**
**MARY CAMMARANO**
**WELLINGTON H. LOVE**

**OFFICE**
**8366 GRAND AVENUE**
**ROSEMEAD, CA 91770**

**MAILING**
**P.O. BOX 2227**
**SAN GABRIEL, CA 91778-2227**

# SAN GABRIEL COUNTY WATER DISTRICT

**EXECUTIVE OFFICERS**

**CHARLES E. SHAW**
Secretary/General Manager

**BARBARA A. CARRERA**
Treasurer/Finance & Administration Manager

**LEMIEUX & O'NEILL**
General Counsel

**TELEPHONES**
**(626) 287-0341**
**(323) 283-2629**
**FAX (626) 287-8524**

March 31, 2011

City of Rosemead
8838 E. Valley Blvd.
Rosemead, CA 91770

Attn: City Clerk

Subject: **Notice of Intention to Adopt the 2010 Urban Water Management Plan**

Dear Sir or Madam:

This letter serves as notification that San Gabriel County Water District is currently preparing its 2010 Urban Water Management Plan (Plan), and intends to adopt the Plan at a public hearing scheduled for May 24, 2011.

A draft of the Plan will be available for your review on April 11, 2011 on our website www.sgcwd.com and in our office. Comments may be submitted in writing by May 6, 2011 to:

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8366 Grand Ave.
Rosemead, CA 91770
Attn: Barbara Carrera

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Sincerely,

Barbara A. Carrera
Finance and Administration Manager

DIRECTORS

VIRGIL L. HANSEN, President
SABINO CICI, Vice President
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WELLINGTON H. LOVE

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SAN GABRIEL
COUNTY WATER DISTRICT

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LEMIEUX & O'NEILL
General Counsel

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(626) 287-0341
(323) 283-2629
FAX (626) 287-8524

March 31, 2011

City of Temple City
9701 Las Tunas Drive
Temple City, CA 91780

Attn: City Clerk

Subject: **Notice of Intention to Adopt the 2010 Urban Water Management Plan**

Dear Sir or Madam:

This letter serves as notification that San Gabriel County Water District is currently preparing its 2010 Urban Water Management Plan (Plan), and intends to adopt the Plan at a public hearing scheduled for May 24, 2011.

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San Gabriel County Water District
8366 Grand Ave.
Rosemead, CA 91770
Attn: Barbara Carrera

A final draft will be prepared in response to comments received prior to May 6th. Comments received during the public hearing will be attached to the final Plan.

Sincerely,

Barbara A. Carrera
Finance and Administration Manager

**DIRECTORS**

**VIRGIL L. HANSEN, President**
**SABINO CICI, Vice President**
**CARL BONENBERGER**
**MARY CAMMARANO**
**WELLINGTON H. LOVE**

**OFFICE**
**8366 GRAND AVENUE**
**ROSEMEAD, CA 91770**

**MAILING**
**P.O. BOX 2227**
**SAN GABRIEL, CA 91778-2227**

**SAN GABRIEL**
**COUNTY WATER DISTRICT**

**EXECUTIVE OFFICERS**

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Secretary/General Manager

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**(626) 287-0341**
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March 31, 2011

County of Los Angeles
12400 Imperial Highway
Norwalk, CA 90650

Attn: Registrar-Recorder/County Clerk

Subject: **Notice of Intention to Adopt the 2010 Urban Water Management Plan**

Dear Sir or Madam:

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Sincerely,

Barbara A. Carrera
Finance and Administration Manager

**DIRECTORS**

**VIRGIL L. HANSEN, President**
**SABINO CICI, Vice President**
**CARL BONENBERGER**
**MARY CAMMARANO**
**WELLINGTON H. LOVE**

**OFFICE**
**8366 GRAND AVENUE**
**ROSEMEAD, CA 91770**

**MAILING**
**P.O. BOX 2227**
**SAN GABRIEL, CA 91778-2227**

**SAN GABRIEL**
**COUNTY WATER DISTRICT**

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**(323) 283-2629**
**FAX (626) 287-8524**

March 31, 2011

Main San Gabriel Basin Watermaster
725 N. Azusa Ave.
Azusa, CA 91702

Attn: Carol Williams

Subject: **Notice of Intention to Adopt the 2010 Urban Water Management Plan**

Dear Ms. Williams:

This letter serves as notification that San Gabriel County Water District is currently preparing its 2010 Urban Water Management Plan (Plan), and intends to adopt the Plan at a public hearing scheduled for May 24, 2011.

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8366 Grand Ave.
Rosemead, CA 91770
Attn: Barbara Carrera

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Sincerely,

Barbara A. Carrera
Finance and Administration Manager

**DIRECTORS**

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**SABINO CICI, Vice President**
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**MARY CAMMARANO**
**WELLINGTON H. LOVE**

**OFFICE**
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**ROSEMEAD, CA 91770**

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**SAN GABRIEL**
**COUNTY WATER DISTRICT**

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**LEMIEUX & O'NEILL**
General Counsel

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**(323) 283-2629**
**FAX (626) 287-8524**

March 31, 2011

Raymond Basin Management Board
725 N. Azusa Ave.
Azusa, CA 91702

Attn: Anthony Zampiello

Subject: **Notice of Intention to Adopt the 2010 Urban Water Management Plan**

Dear Mr. Zampiello:

This letter serves as notification that San Gabriel County Water District is currently preparing its 2010 Urban Water Management Plan (Plan), and intends to adopt the Plan at a public hearing scheduled for May 24, 2011.

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8366 Grand Ave.
Rosemead, CA 91770
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Sincerely,

Barbara A. Carrera

Barbara A. Carrera
Finance and Administration Manager

DIRECTORS

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March 31, 2011

Upper San Gabriel Valley Municipal Water District
11310 Valley Blvd.
El Monte, CA 91731

Attn: Shane Chapman

Subject: **Notice of Intention to Adopt the 2010 Urban Water Management Plan**

Dear Mr. Chapman:

This letter serves as notification that San Gabriel County Water District is currently preparing its 2010 Urban Water Management Plan (Plan), and intends to adopt the Plan at a public hearing scheduled for May 24, 2011.

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8366 Grand Ave.
Rosemead, CA 91770
Attn: Barbara Carrera

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Sincerely,

Barbara A. Carrera

Barbara A. Carrera
Finance and Administration Manager

# APPENDIX B.2

# NOTIFICATION OF PUBLIC HEARING

PASADENA STAR-NEWS • SAN GABRIEL VALLEY TRIBUNE • WHITTIER DAILY NEWS
1210 N. AZUSA CANYON ROAD, WEST COVINA, CA. 91790

RECEIVED

MAY 17 2011

SAN GABRIEL COUNTY WATER DISTRICT
8366 GRAND AVE
ROSEMEAD, CA 91770

SAN GABRIEL COUNTY WATER DISTRICT

| Ad No# | Start | Stop | Desc | Charge |
|---|---|---|---|---|
| #189187 | 05/10 | 05/17/2011 | URBAN WATER | $383.36 |

PRINCIPAL CLERK (S814)

**NOTICE OF PUBLIC HEARING ON THEADOPTION OF AN URBAN WATER MANAGEMENT PLAN BY THE SAN GABRIEL COUNTY WATER DISTRICT.**

Please take notice that at **4:00 o'clock p.m.** on **Tuesday, May 24, 2011,** in the office of San Gabriel County Water District, 8366 Grand Ave, San Gabriel, California, the Board of Directors of San Gabriel County Water District will hold a public hearing at which oral or written presentation can be made as part of a regularly scheduled meeting of said Board of Directors and at which said meeting said Board will consider the adoption of an Urban Water Management Plan.

At least **fifteen (15)** days prior to the said hearing on **May 24, 2011,** there shall be available to the public in the District's offices, the proposed Urban Water Management Plan for review.

All persons interested may appear and present relevant evidence, testimony and comments concerning the same or file with the Secretary of the District at least (3) days prior to said hearing, a written presentation concerning the same, such oral or written presentation will be considered by said Board of Directors in making their determinations and in adopting the Urban Water Management Plan.

By order of the Board of Directors of the San Gabriel County Water District.

**/s/Charles E. Shaw**
Secretary/General Manager

**Publish: May 10, 17, 2011**
**San Gabriel Valley Tribune Ad#189194**

**NOTICE OF PUBLIC HEARING ON THEADOPTION OF AN URBAN WATER MANAGEMENT PLAN BY THE SAN GABRIEL COUNTY WATER DISTRICT.**

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By order of the Board of Directors of the San Gabriel County Water District.

**/s/Charles E. Shaw**
Secretary/General Manager

**Publish: May 10, 17, 2011**
**Pasadena Star News** **Ad #189187**

# APPENDIX B.3

# NOTICE OF INTENT TO ADOPT THE PLAN

**DIRECTORS**

**VIRGIL L. HANSEN, President**
**SABINO CICI, Vice President**
**CARL BONENBERGER**
**MARY CAMMARANO**
**WELLINGTON H. LOVE**

**OFFICE**
**8366 GRAND AVENUE**
**ROSEMEAD, CA 91770**

**MAILING**
**P.O. BOX 2227**
**SAN GABRIEL, CA 91778-2227**

**SAN GABRIEL**
**COUNTY WATER DISTRICT**

**EXECUTIVE OFFICERS**

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Secretary/General Manager

**BARBARA A. CARRERA**
Treasurer/Finance & Administration Manager

**LEMIEUX & O'NEILL**
General Counsel

**TELEPHONES**
**(626) 287-0341**
**(323) 283-2629**
**FAX (626) 287-8524**

March 31, 2011

City of San Gabriel
425 S. Mission Blvd.
San Gabriel, CA 91776

Attn: City Clerk

Subject: **Notice of Intention to Adopt the 2010 Urban Water Management Plan**

Dear Sir or Madam:

This letter serves as notification that San Gabriel County Water District is currently preparing its 2010 Urban Water Management Plan (Plan), and intends to adopt the Plan at a public hearing scheduled for May 24, 2011.

A draft of the Plan will be available for your review on April 11, 2011 on our website www.sgcwd.com and in our office. Comments may be submitted in writing by May 6, 2011 to:

San Gabriel County Water District
8366 Grand Ave.
Rosemead, CA 91770
Attn: Barbara Carrera

A final draft will be prepared in response to comments received prior to May 6th. Comments received during the public hearing will be attached to the final Plan.

Sincerely,

Barbara A. Carrera
Finance and Administration Manager

# APPENDIX B.4

# LETTERS TO DWR, STATE LIBRARY AND CITIES/COUNTY

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

Northern California • Southern California • New Mexico • Arizona • Nevada • Colorado

2339-01

Reply to: Covina

June 14, 2011

Department of Water Resources
Statewide Integrated Water Management
Water Use Efficiency Branch
P.O. Box 942836
Sacramento, California 94236-0001
Attn: Coordinator, Urban Water Management Plans

Subject: San Gabriel County Water District
2010 Urban Water Management Plan

Dear Coordinator, Urban Water Management Plans:

San Gabriel County Water District's (SGCWD) has authorized this office to provide you with SGCWD's 2010 Urban Water Management Plan as a hardcopy and as a CD electronic copy in accordance with Section 10644 of the California Water Code. As part of the Urban Water Management Plan process, SGCWD took the following actions:

- Notified Cities within its service area of the preparation of its 2010 Urban Water Management Plan Update and encouraged participation and the submittal of comments
- Gave 60-day notice, prior to a public hearing, to any City or County within which the supplier provides water supplies notifying that SGCWD is reviewing the Plan and is considering changes according to Assembly Bill 1376
- Made the plan available to the public for review 2 weeks prior to holding a public hearing on May 24, 2011
- Adopted the draft Urban Water Management Plan as its 2010 Urban Water Management Plan at its May 24, 2011 meeting
- Submitted its Urban Water Management Plan to all Cities and County within its service area.

Please, feel free to contact Ms. Barbara Carrera of San Gabriel County Water District at (626) 287-0341 or me at (626) 967-6202 should you have any questions.

Sincerely,

Kevin R. Smead, P.E.
Stetson Engineers Inc.

cc: Ms. Barbara Carrera, San Gabriel County Water District

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

Northern California • Southern California • New Mexico • Arizona • Nevada • Colorado

Reply to: Covina

2339-01

June 14, 2011

California State Library
P.O. Box 942837
Sacramento, CA 94237-0001

Subject: San Gabriel County Water District
2010 Urban Water Management Plan

California State Library:

San Gabriel County Water District (SGCWD) has authorized this office to provide the California State Library with a copy of SGCWD's 2010 Urban Water Management Plan in accordance with Section 10644 of the California Water Code.

Please, feel free to contact Ms. Barbara Carrera of San Gabriel County Water District at (626) 287-0341 or me at (626) 967-6202 should you have any questions.

Sincerely,

Kevin R. Smead, P.E.
Stetson Engineers Inc.

cc: Ms. Barbara Carrera, San Gabriel County Water District

Z:\Jobs\2339\2339-01 UWMP\Transmittal to StateLibrary.doc

# APPENDIX C

# URBAN WATER MANAGEMENT PLAN RESOLUTION

# MINUTES OF A REGULAR MEETING OF THE BOARD OF DIRECTORS OF SAN GABRIEL COUNTY WATER DISTRICT HELD ON MAY 24, 2011

**CALL TO ORDER** A regular meeting of the Board of Directors of the San Gabriel County Water District was held on Tuesday, May 24, 2011, at 8366 Grand Avenue, Rosemead, California, at the hour of 4:00 p.m.

**ROLL CALL** Directors Bonenberger, Cammarano, Cici, and Love, General Manager Charles Shaw, and Deputy District Counsel Michael Silander were present.

**PUBLIC HEARING** Vice President Cici opened the public hearing on the Urban Water Management Plan. There was no testimony. On motion by Director Cammarano, seconded by Director Bonenberger, the board unanimously voted to close the public hearing. The motion carried 4-0.

**MINUTES** A motion was made by Director Love and seconded by Director Bonenberger, to approve the minutes of the regular meeting of the board held on May 10, 2011. The motion unanimously carried 4-0.

**DEMANDS** A motion was made by Director Bonenberger, seconded by Director Love, to pay the demand numbered 15039 in the amount of $30,655.08. The motion unanimously carried 4-0.

**ACTION** A motion was made by Director Love, seconded by Director Bonenberger to approve Resolution No. 5-11-447 for the adoption of an Urban Water Management Plan. The motion carried unanimously 4-0.

**INFORMATION** The General Manager announced that due to the AWWA annual conference in Washington, D.C., the next meeting of the board would be on June 7, 2011, at 4:00 p.m., canceling the June 14 meeting. The General Manager reported on the April 2011 Revenue and Expenditure Report. He also reported that the work on Well #3 was about one month from being completed.

**ADJOURNMENT** A motion was made by Director Love, seconded by Director Cammarano, to adjourn the meeting. The motion carried unanimously 4-0.

President

Secretary

**RESOLUTION NO. 05-11-447**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF SAN GABRIEL COUNTY WATER DISTRICT ADOPTING AN URBAN WATER MANAGEMENT PLAN**

**WHEREAS**, the California Legislature enacted Assembly Bill 797 (Water Code Section 10610 et seq., known as the Urban Water Management Planning Act) during the 1983-84 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 that 3,000 acre feet of water annually, prepare an Urban Water Management Plan, (Plan) the primary objective of which is to plan for the conservation and efficient use of water; and

**WHEREAS**, the San Gabriel County Water District (District) is an urban supplier of water providing water to a population of approximately 45,000, 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 day of adoption; and

**WHEREAS**, the District 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 the Board of Directors on May 24, 2011;

**WHEREAS**, the District did prepare and shall file said Plan with the California Department of Water Resources by June 30, 2011;

**NOW THEREFORE, BE IT RESOLVED** by the Board of Directors of San Gabriel County Water District the Urban Water Management Plan dated May 2011 is hereby approved and adopted;

**PASSED, APPROVED AND ADOPTED this 24th day of May 2011.**

President, Board of Directors

ATTEST:

Secretary

# APPENDIX D

# RAYMOND BASIN ADJUDICATION

Victor Kaleta
City Attorney, Pasadena
City Hall
Pasadena, California 91109

BEST, BEST & KRIEGER
Arthur L. Littleworth
P. O. Box 1028
Riverside, California 92502
Telephone: (714) 686-1450
Special Counsel for Plaintiff

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SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES

| | |
|---|---|
| CITY OF PASADENA, a municipal corporation,<br><br>Plaintiff,<br><br>vs.<br><br>CITY OF ALHAMBRA, a municipal corporation, et al.,<br><br>Defendants. | NO. Pasadena C-1323<br><br>JUDGMENT<br><br>(As Modified and Restated March 26, 1984) |

The above-entitled action was brought by plaintiff, City of Pasadena, a municipal corporation, against City of Alhambra, a municipal corporation, City of Monrovia, a municipal corporation, City of Arcadia, a municipal corporation, City of Sierra Madre, a municipal corporation, City of South Pasadena, a municipal corporation, La Canada Irrigation District, San Gabriel County Water District, Lincoln Avenue Water Company, a corporation, The Las Flores Water Company, a corporation, Rubio Canon Land and Water Association, a corporation, Valley Water Company, a corporation, Flintridge Mutual Water Company, a corporation, California-Michigan Land and Water Company, a cor-

this action; and

All said parties defendant having been duly served personally with summons and a copy of the complaint, and the issues having been joined; defendant Ross M. Lockhard having answered by his true name Ross M. Lockhart; and Robert A. Millikan, Archer Milton Huntington, Herbert Hoover, William B. Munro and Edwin P. Hubbell, Trustees of the Henry E. Huntington Library and Art Gallery answering for defendant Henry E. Huntington Library and Art Gallery, a corporation; defendants Bradbury Estate Company, a corporation, and Eugene E. Bean having disclaimed any right, title, interest or estate in and to the properties involved in this action, Charles Hueston Hastings, having answered by his true name Charles Heuston Hastings, and since the commencement of this action said defendant Charles Heuston Hastings having died and Ernest Crawford May as Executor of the Last Will and Testament of Charles Heuston Hastings, deceased, having been substituted for said decedent, and A. V. Wagner having answered and having asserted and claimed a right to water on his own behalf and on behalf of others claiming under and through him, and Canyon Mutual Water Company, a corporation, sued herein as Doe Corporation No. 1, having answered under its true name, and defendant Alice H. Graves having died since the commencement of this action, and Alice Graves Stewart and Katharine Graves Armstrong and Francis P. Graves being the heirs at law of said Alice H. Graves, deceased, and being the residuary legatees under the Last Will and Testament of Alice H. Graves, deceased, and having been substituted by stipulation as parties defendant for said

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Alice H. Graves, and plaintiff since the commencement of this action having acquired the water rights owned and claimed by Jacob Bean Securities Company, a corporation, Alice Graves Stewart, Katharine Graves Armstrong and Francis P. Graves, exclusive of the rights of the last named individuals which are hereinafter set forth and defined, and plaintiff having duly filed its supplemental complaint with respect thereto, and the defendant City of Arcadia, since the commencement of this action, having acquired all water rights involved herein of the Rancho Santa Anita, Inc., a corporation, and said defendants having duly filed their supplemental answer with respect thereto, and First Trust and Savings Bank of Pasadena, a corporation, answering as successor in interest to defendant Altadena Golf Club, defendant Sunnyslope Water Company, a corporation, having stipulated that its true name is Sunny Slope Water Company, Chesley E. Osborn and Kathleen M. Osborn having been substituted as parties defendant in the place and stead of defendant Fred M. Wilcox, and Dell A. Schweitzer, executor of the estate of Fred M. Wilcox, deceased; motion of defendant City of South Pasadena for permission to file its amended answer disclaiming any interest or estate in the water and/or water rights in the Raymond Basin as described in plaintiff's complaint, having been granted, and said defendant, City of South Pasadena, having been dismissed from this action, subject to the obligation of said defendant to pay certain costs, plaintiff and certain defendants having jointly filed herein their motion that reference should be made to the Division of Water Resources, Department of Public

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Works, State of California, as referee; after hearing thereon, following notice duly served on all defendants not parties to said motion, said Division of Water Resources having been appointed referee herein to investigate all of the physical facts involved herein, and seasonably to report to the Court thereon, and the said referee having filed its report herein and the objections thereto filed with it, a stipulation in writing having been entered into on the 29th day of September, 1943 by and between the attorneys for certain parties, to wit: City of Alhambra, City of Arcadia, California Water and Telephone Company, Canyon Mutual Water Company, Crown City Ice Company, El Campo Mutual Water Company, First Trust and Savings Bank of Pasadena, Flintridge Mutual Water Company, Francis P. Graves, Alice Graves Stewart and Katharine Graves Armstrong, being the heirs of Alice H. Graves, deceased, and being the residuary legatees under the Last Will and Testament of Alice H. Graves, deceased, Las Flores Water Company, Lincoln Avenue Water Company, Ross M. Lockhart, Ernest Crawford May, as Executor of the Last Will and Testament of Charles Heuston Hastings, deceased, Robert A. Millikan, Archer Milton Huntington, Herbert Hoover, William B. Munro and Edwin P. Hubbell, Trustees of the Henry E. Huntington Library and Art Gallery, Mira Loma Mutual Water Company, City of Monrovia, Chesley E. Osborn and Kathleen M. Osborn, Pasadena Cemetery Association, City of Pasadena, Royal Laundry and Dry Cleaning Company, Rubio Canon Land and Water Association, San Gabriel County Water District, City of Sierra Madre, Sunny Slope Water Company, Valley Water Company, A. V. Wagner and those

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claiming under and through him, and said stipulation having been filed herein on the 24th day of November, 1943, requesting that a certain judgment be entered herein as between said parties, and stipulating that the amount of water pumped or otherwise taken by non-parties to this action in the Western Unit of the Raymond Basin Area as described in Paragraph I of the proposed judgment attached to said stipulation was 340 acre feet per year and that the amount of water pumped or otherwise taken by non-parties to this action in the Eastern Unit of said Raymond Basin Area was 109 acre feet per year, and the Court on November 24, 1943 having made its order making each and all of the terms and provisions of said proposed judgment immediately effective as to said stipulating parties, and on April 5, 1944 the Court having made its order appointing and authorizing the Division of Water Resources of the Department of Public Works of the State of California to act and serve herein as Watermaster in accordance with the provisions of the proposed judgment attached thereto and made a part thereof, and a stipulation between said stipulating parties and the defendant La Canada Irrigation District making the defendant La Canada Irrigation District a party to said stipulation for said judgment and order having been filed in this Court on April 28, 1944, and this Court on April 28, 1944 having ordered that during the pendency of this litigation or until further order of this Court the said defendant La Canada Irrigation District be made a party to the stipulation for judgment and order entered into on the 29th day of September, 1943 and filed on the 24th day of

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November, 1943, and all objections and exceptions to the Report of Referee, except those of defendant California-Michigan Land and Water Company, having been withdrawn, and defendant Flintridge Mutual Water Company having assigned all its water rights involved herein to defendant Valley Water Company,

This cause came on regularly for hearing of the objections and exceptions of defendant California-Michigan Land and Water Company filed to the Report of Referee and the further trial of the cause between said defendant and the other parties on the 18th day of May, 1944 before the Honorable Frank C. Collier, judge presiding in Department Pasadena A of the above-entitled Court, the Court sitting without a jury; said hearing and trial were held on the following dates in the year 1944, to wit: May 18, May 19, May 23, May 24, May 25, May 31, June 1, June 2, June 6, June 7, June 8, July 20, August 7 and August 8. A. E. Chandler, Esq., Special Counsel, and Harold P. Huls, Esq., City Attorney, appearing as attorneys for plaintiff; Messrs. Goodspeed, McGuire, Harris & Pfaff by Richard C. Goodspeed, Esq., J. Donald McGuire, Esq., and Paul Vallee, Esq., appearing as attorneys for defendant California-Michigan Land and Water Company; Emmett A. Tompkins, Esq., City Attorney, and Kenneth K. Wright, Esq., appearing as attorneys for defendant City of Alhambra; Paul F. Garber, Esq., City Attorney, and Kenneth K. Wright, Esq., appearing as attorneys for defendant City of Monrovia; Kenneth K. Wright, Esq., appearing as attorney for defendant Ross M. Lockhart; Kenneth K. Wright, Esq., appearing

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as attorney for defendant Flintridge Mutual Water Company; Kenneth K. Wright, Esq., appearing as attorney for defendant Valley Water Company; John C. Packard, Esq. and Kenneth K. Wright, Esq., appearing as attorneys for defendant El Campo Mutual Water Company; Messrs. Derthick, Cusack and Ganahl by W. J. Cusack, Esq., and Kenneth K. Wright, Esq., appearing as attorneys for defendant Crown City Ice Company; Messrs. Dunn & Sturgeon by Walter F. Dunn, Esq., Messrs. Chandler & Wright by Howard W. Wright, Esq., and Kenneth K. Wright, Esq., appearing as attorneys for defendants Francis Graves, Alice Graves Stewart and Katharine Graves Armstrong; Messrs. Bailie, Turner & Lake by Norman A. Bailie, Messrs. Cruickshank, Brooke & Dunlap by Robert H. Dunlap, Esq., and Kenneth K. Wright, Esq., appearing as attorneys for defendant Ernest Crawford May, as Executor of the Last Will and Testament of Charles Heuston Hastings, deceased; Messrs. Gibson, Dunn & Crutcher by Ira C. Powers, Esq., and Kenneth K. Wright, Esq., appearing as attorneys for defendants Robert A. Millikan, Archer Milton Huntington, Herbert Hoover, William B. Munro and Edwin P. Hubbell, trustees of the Henry E. Huntington Library and Art Gallery; Messrs. Anderson and Anderson by Trent G. Anderson, Esq., and Kenneth K. Wright, Esq., appearing as attorneys for defendant Rubio Canon Land and Water Association; Frank P. Doherty, Esq., and Kenneth K. Wright, Esq., appearing as attorneys for defendant La Canada Irrigation District; Messrs. Boyle, Holmes & Garrett by John W. Holmes, Esq., and Kenneth K. Wright, Esq., appearing as attorneys for defendant First Trust and Savings Bank of Pasadena; Walter F.

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Dunn, Esq., City Attorney, and Kenneth K. Wright, Esq., appearing as attorneys for defendant City of Sierra Madre; Wilton W. Webster, Esq., and Kenneth K. Wright, Esq., appearing as attorneys for defendant Royal Laundry and Dry Cleaning Company; Messrs. Bacigalupi, Elkus & Salinger by Claude Rosenberg, Esq., and Kenneth K. Wright, Esq., appearing as attorneys for defendant California Water and Telephone Company; Kenneth K. Wright, Esq., appearing as attorney for defendant San Gabriel Valley Water Company; Messrs. Merriam, Rinehart & Merriam by Ralph T. Merriam, Esq., appearing as attorneys for defendant Pasadena Cemetery Association; Frederick G. Stoehr, Esq., appearing as attorney for defendant A. V. Wagner; Messrs. Potter and Potter, by Bernard Potter, Esq., appearing as attorneys for defendant Mira Loma Mutual Water Company; Gerald E. Kerrin, Esq. and James C. Bone, Esq., City Attorney, appearing as attorneys for defendant City of Arcadia; Laurence B. Martin, Esq., appearing as attorney for defendant Sunny Slope Water Company; Robert E. Moore, Esq., appearing as attorney for defendant Lincoln Avenue Water Company; Messrs. Hahn and Hahn by Edwin F. Hahn, Esq., appearing as attorneys for defendant The Las Flores Water Company; Messrs. Hahn and Hahn by Edwin F. Hahn, Esq., appearing as attorneys for defendants Chesley E. Osborn and Kathleen M. Osborn; and Messrs. Hahn and Hahn by Edwin F. Hahn, Esq., appearing as attorneys for defendant Canyon Mutual Water Company, and

All objections and exceptions to the Report of Referee filed by defendant California-Michigan Land and Water Company having been overruled by the Court with the exception

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of objection 18 which was withdrawn by said defendant, and

Certain stipulations having been entered into by and between the parties and evidence both oral and documentary having been introduced and the cause having been submitted to the Court for its decision upon briefs, and briefs for the respective parties having been filed and considered, the Court, being fully advised in the premises, and having made its findings of fact and conclusions of law, and

The Court, by reason of the stipulation aforesaid and the findings of fact and conclusions of law, having rendered its Judgment on December 23, 1944, and such Judgment having been entered in Book 1491, page 84, on December 26, 1944, and

Pursuant to its reservation of jurisdiction in this case, and pursuant to appropriate motions, the Court having modified the Judgment on April 29, 1955; on January 17, 1974; and on June 24, 1974, and

Plaintiff having moved the Court for an order further modifying and restating the Judgment as modified, such motion having come on regularly for hearing on the 16th day of March, 1984, in Department A of the Northeast District of this Court, the Honorable Robert M. Olson, Judge, presiding; and notice of such motion having been duly served on all defendants and interested parties; and no objections to the granting of the motion having been filed or made at the hearing; and good cause having been shown, and the Court having therefore granted the motion, pursuant to the continuing jurisdiction of the Court,

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IT IS HEREBY ORDERED, ADJUDGED AND DECREED that the Judgment in this case be modified and restated (including all transfers of rights and prior modifications which remain valid) as follows:

I

There exists in the County of Los Angeles, State of California, a field of groundwater, known and hereinafter referred to as the Raymond Basin Area, and subdivisions thereof herein designated the Eastern Unit and the Western Unit which are shown on the map attached hereto and hereby made a part hereof.

Under existing conditions, the safe yield of said Eastern Unit is 5,290 acre feet per year, and the safe yield of said Western Unit is 25,480 acre feet per year.

The amount of water pumped or otherwise taken by non-parties to this action in said Western Unit is less than 100 acre feet per year, and the amount of water pumped or otherwise taken by non-parties to this action in said Eastern Unit is zero acre feet per year.

The parties hereto pumping from wells or otherwise taking water for beneficial use from the ground in said subdivisions of said Raymond Basin Area are as shown in the table in Paragraph IV hereof.

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II

As to those parties hereto who are taking or diverting water for beneficial use from any source contributing to the supply of water in the ground in said Raymond Basin Area, each of said parties has the right as against all parties other than the defendant California-Michigan Land and Water Company, no determination as to the existence of such right being made as against it, to continue to divert from such source for such use an amount of water measured by the maximum capacity of its diversion works and other facilities as the same existed at any time within five (5) years prior to October 1, 1937. That said maximum capacities of the said works and facilities of each of said parties in cubic feet per second are as follows:

| | |
|---|---|
| La Canada Irrigation District (Snover Canyon) | 1.20 |
| Las Flores Water Company | 0.50 |
| Lincoln Avenue Water Company | 6.59 |
| Lockhart, Ross M. | 1.20 |
| May, Ernest Crawford, as Executor of the Last Will and Testament of Charles Heuston Hastings, deceased | 0.26 |
| Mira Loma Mutual Water company | 0.81 |
| Pasadena Cemetery Association | 0.02 |
| Pasadena, City of | |
| Arroyo Seco Including Millard Canyon | 25.00 |
| Eaton Canyon | 8.90 |
| Rubio Canon Land and Water Association | 2.20 |
| Sierra Madre, City of | 6.00 |

Each of said parties, and each of their agents, employees, attorneys, and any and all persons acting by, through, or under them, or any of them, are and each of them is hereby forever enjoined and restrained from increasing its taking or diversion from such source beyond the amount of

such taking or diversion as measured by said maximum capacity of its diversion works and other facilities.

Each of the said parties, and their successors in interest, having diversion rights as set forth above in the Western Unit of the Raymond Basin Area shall have the right in its discretion to spread the surface water diverted pursuant to its respective right, and to recapture eighty percent (80%) thereof by pumping, subject to and upon the following terms and conditions.

(1) The water shall be spread for percolation into the underground in the existing water conservation facilities of the Los Angeles County Flood Control District, or in such additional spreading grounds as the parties may acquire or construct, or in any natural stream channels leading to such existing or future spreading grounds, provided that all such spreading locations shall be located within the Monk Hill Basin or Pasadena Subarea hydrologic subdivisions of the Western Unit of the Raymond Basin Area.

(2) A metering device, or devices, shall be installed and maintained by each diverting party at such party's expense to measure all amounts of water diverted by such party for spreading purposes. Such metering facilities, and the continued accuracy thereof, shall be subject to the approval of the Watermaster and the Los Angeles County Flood Control District, and all such measurements shall be available to them. The Watermaster, with such assistance as the Los Angeles County Flood Control District may provide, shall determine and account for all water diverted for spreading, the amount of water spread

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and available for recapture, and the amount so recaptured, and shall include such determinations and accounting in its reports.

(3) In the event that the capacity of any of the spreading grounds of the Los Angeles County Flood Control District is fully utilized for the conservation of natural flows, and water diverted for spreading in such facilities cannot be percolated into the Basin and escapes therefrom, such quantity of water shall be subtracted from the amount diverted for spreading to determine the amount available for recapture. Such losses shall be divided among the parties diverting water for such spreading in proportion to the amounts diverted at the time the loss occurs.

(4) Each such party shall have the right to pump from any wells in the Monk Hill Basin an amount of water equal to eighty percent (80%) of the amount which it has diverted for such spreading therein and which is available for recapture, and the right to pump from any wells in the Pasadena Subarea an amount of water equal to eighty percent (80%) of the amount which it has diverted for such spreading therein and which is available for recapture. Such amounts pumped shall be in addition to the respective Decreed Rights of the parties as provided in the Judgment herein, as modified on April 29, 1955, and in addition to the amounts which can be pumped or otherwise taken under the provisions of Paragraph V hereof. Any amounts recaptured under the terms of this Paragraph shall be pumped in such a manner as not to injure other parties having rights under this Judgment. The effect of such pumping shall be monitored by the Watermaster, and the Watermaster shall report any such injury to the Court

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for appropriate action.

(5) Any additional amounts allowed to be taken as provided in subparagraph (4) above shall be pumped by the end of the next accounting year utilized by the Watermaster following such diversions for spreading. If such pumping does not occur within this period of time, the right to take such amount of water shall be lost.

(6) For accounting purposes, the first water taken from the Western Unit of the Raymond Basin Area during any accounting year, by any party having made diversions for spreading purposes during the previous accounting year, shall be considered by the Watermaster as water pumped pursuant to subparagraph (4) above, unless such water was pumped during the same accounting year in which it was diverted and spread.

(7) The rights provided in subparagraph (4) above shall apply to all water diverted for spreading as required herein after May 1, 1973.

(8) The right to divert for spreading and recapture is an alternative, in whole or in part, to the right to make direct use of such diversions, and does not preclude the direct use of such water, provided that the total amount of water diverted, either for spreading or direct use, does not exceed the respective rights of the parties set forth above.

(9) These provisions concerning the right to spread and recapture by pumping remain subject to the continuing jurisdiction of the Court. Any additional costs incurred by the Watermaster in making determinations, accountings, reports, and monitoring of pumping as required in connection with such

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spreading and recapture of water shall be paid by the parties diverting water for spreading in proportion to the amount of water which each party diverts for such purpose. Such costs shall be included as part "C" of the Watermaster's Annual Budget.

III

Each and all of the rights of the parties hereto to pump water from wells or otherwise take water from the ground in said Raymond Basin Area are of equal priority and of the same legal force and effect.

IV

Subject to the provisions of Paragraphs V, VI and XXI hereof, each party hereto is the owner of the right to pump water from wells or otherwise take water from the ground in each of said units in the amount set forth opposite the name of each party in the following table, which said right, for convenience, is designated the "present unadjusted right":

PRESENT UNADJUSTED RIGHTS TO TAKE
WATER IN RAYMOND BASIN AREA

| Eastern Unit | Acre Feet Per Year |
|---|---|
| Arcadia, City of | 2,527 |
| Sierra Madre, City of | 1,264 |

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Western Unit

| | |
|---|---|
| Alhambra, City of | 1,042 |
| Arcadia, City of (including, as successor, the rights of the City of Monrovia) | 2,141 |
| California American Water Company (as successor to the California Water and Telephone Company, and including, as successor, the rights of the El Campo Mutual Water Company) | 2,324 |
| Crown City Ice Company | 0 |
| East Pasadena Water Company (as successor to the California-Michigan Land and Water Company) | 521 |
| Henry E. Huntington Library and Art Gallery (as successor to Robert A. Millikan, et al., Trustees of the Henry E. Huntington Library and Art Gallery) | 265 |
| Kinneloa Irrigation District (as successor to the rights of Francis P. Graves, et al.; Ross M. Lockhart; A. V. Wagner; Mira Loma Mutual Water Company; Canyon Mutual Water Company; and Chesley E. and Kathleen M. Osborn) | 522 |
| La Canada Irrigation District | 101 |
| Las Flores Water Company | 252 |
| Lincoln Avenue Water Company | 573 |
| May, Ernest Crawford, as Executor of the Last Will and Testament of Charles Heuston Hastings, deceased | 0 |
| Milum Textile Services Company (as successor to Royal Laundry and Dry Cleaning Company) | 111 |
| Pasadena Cemetery Association | 92 |
| Pasadena, City of (including, as successor, the rights of the First Trust and Savings Bank of Pasadena) | 12,946 |

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|---|---|
| Rubio Canon Land and Water Association | 1,234 |
| San Gabriel County Water District | 1,103 |
| Sunny Slope Water Company | 1,575 |
| Valley Water Company (including, as successor, the rights of the Flintridge Mutual Water Company) | 806 |

The total of said rights in the Eastern Unit is 3,791 acre feet per year, and the total of said rights in the Western Unit is 25,608 acre feet per year.

V

In order to maintain and protect the supply of water in the ground in said Raymond Basin Area, it is necessary that the respective parties to this action be limited in the exercise of their respective present unadjusted rights, and the right, so limited, in acre feet per year, of each party to pump water from wells or otherwise take water from the ground, in the Western Unit, is as set forth in the table at the end of this Paragraph V, and in the Eastern Unit as set forth in Paragraph VI hereof. Said right, for convenience, is designated the "decreed right." In said Western Unit the amount of the decreed right of each party hereby is determined by reducing the present unadjusted right of each party as tabulated in Paragraph IV hereof, in the proportion that the safe yield of said unit, less the water taken therein by non-parties hereto, bears to the aggregate of such rights of the parties hereto in said unit. Each of said parties and

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each of their agents, employees, attorneys, and any and all persons acting by, through, or under them, are and each of them is, subject to the terms of Paragraph XXI hereof, hereby forever enjoined and restrained on and after July 1, 1944, as to all parties other than California-Michigan Land and Water Company, and on and after July 1, 1945 as to said California-Michigan Land and Water Company, from pumping or otherwise taking from the ground in said Western Unit more water than its decreed right in this Paragraph determined; provided that a party may exceed its decreed right to the extent that it has acquired and exercises the decreed right of any other party, or as may become necessary in the case of an emergency or temporarily for other reasonable cause as determined by the Watermaster, taking into account the basin supply, quality conditions, the impact on other parties, and subject to such conditions as the Watermaster may impose, including whether or not such excess extractions must be made up in future years; and provided, however, that any of the parties to this action may take in any twelve-month period beginning July 1 for its own beneficial use, and for the release of water for use by other parties or persons pursuant to and in accordance with the Raymond Basin Area Water Exchange Agreement for 1943 and amendment thereto, hereinafter referred to, attached hereto and hereby made a part hereof, an amount not exceeding one hundred ten percent (110%) of its decreed right as fixed herein, plus any amount of allowable underpumping as hereinafter provided. Any such extractions in excess of a party's decreed right (not including any emergency or temporary

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extractions authorized by the Watermaster) shall be made up in the following year, and the amount of water which a party may take under its decreed right in that year shall be reduced by an equivalent amount. If a party in any twelve-month period, beginning July 1, takes less than its decreed right, or less than the amount allowed after reduction for any excess extractions, the amount of such underpumping, but not exceeding ten percent (10%) of its decreed right or such additional amount as the Watermaster may allow for an emergency or other reasonable cause, may be carried over and taken during the next succeeding year. The yearly period from July 1 to June 30 hereby is adopted and shall be used in the administration and enforcement of this Judgment.

DECREED RIGHTS TO TAKE WATER FROM THE GROUND
IN SAID WESTERN UNIT IN ACRE FEET PER YEAR

| | Acre Feet Per Year |
|---|---|
| Alhambra, City of | 1,031 |
| Arcadia, City of (including, as successor, the rights of the City of Monrovia) | 2,118 |
| California American Water Company (as successor to the California Water and Telephone Company, and including, as successor, the rights of the El Campo Mutual Water Company) | 2,299 |
| East Pasadena Water Company (as successor to the California-Michigan Land and Water Company) | 515 |
| Henry E. Huntington Library and Art Gallery (as successor to Robert A. Millikan, et al., Trustees of the Henry E. Huntington Library and Art Gallery) | 262 |

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|---|---|
| Kinneloa Irrigation District (as successor to the rights of Francis P. Graves, et al.; Ross M. Lockhart; A. V. Wagner; Mira Loma Mutual Water Company; Canyon Mutual Water Company; and Chesley E. and Kathleen M. Osborn) | 516 |
| La Canada Irrigation District | 100 |
| Las Flores Water Company | 249 |
| Lincoln Avenue Water Company | 567 |
| Milum Textile Services Company (as successor to Royal Laundry and Dry Cleaning Company) | 110 |
| Pasadena Cemetery Association | 91 |
| Pasadena, City of (including, as successor, the rights of the First Trust and Savings Bank of Pasadena) | 12,807 |
| Rubio Canon Land and Water Association | 1,221 |
| San Gabriel County Water District | 1,091 |
| Sunny Slope Water Company | 1,558 |
| Valley Water Company (including, as successor, the rights of the Flintridge Mutual Water Company) | 797 |
| Total Western Unit | 25,332 |

VI

The decreed right of each party hereto in said Eastern Unit is as follows:

City of Arcadia, 3,526 acre feet per year;

City of Sierra Madre, 1,764 acre feet per year.

Each of said parties, and each of their agents, employees, attorneys and any and all persons acting by, through, or under them, are and each of them is subject to

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the terms of Paragraph XXI hereof, hereby forever enjoined and restrained on and after July 1, 1944, as follows:

(1) From pumping or otherwise taking from the ground in said Eastern Unit more water than its decreed right in this Paragraph determined; provided that a party may exceed its decreed right to the extent that it has acquired and exercises the decreed right of any other party, or as may become necessary in the case of an emergency or temporarily for other reasonable cause as determined by the Watermaster, taking into account the basin supply, quality condition, the impact on other parties, and subject to such conditions as the Watermaster may impose, including whether or not such excess extractions must be made up in future years; and provided, however, that any of the parties to this action may take in any twelve-month period beginning July 1 for its own beneficial use, and for the release of water for use by other parties or persons pursuant to and in accordance with the Raymond Basin Area Water Exchange Agreement for 1943 and amendment thereto, hereinafter referred to, attached hereto and hereby made a part hereof, an amount not exceeding one hundred ten percent (110%) of its decreed right as fixed herein, plus any amount of allowable underpumping as hereinafter provided. Any such extractions in excess of a party's decreed right (not including any emergency or temporary extractions authorized by the Watermaster) shall be made up in the following year, and the amount of water which a party may take under its decreed right in that year shall be reduced by an equivalent amount. If a party in any twelve-month

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period, beginning July 1, takes less than its decreed right, or less than the amount allowed after reduction for any excess extractions, the amount of such underpumping, but not exceeding ten percent (10%) of its decreed right or such additional amount as the Watermaster may allow for an emergency or other reasonable cause, may be carried over and taken during the next succeeding year.

(2) From pumping or otherwise taking water from the ground in said Eastern Unit in any year within one-half mile of its western boundary in an amount which, in addition to other extractions, would be in excess of the average amount pumped or taken in said one-half mile zone during the period 1927-28 to 1937-38, to wit: 88 acre feet per annum, the half mile being measured along a perpendicular erected on the boundary between said unit and said Western Unit as shown on the map attached hereto.

(3) From pumping or otherwise taking water from the ground in said Eastern Unit in any year in excess of the average amount pumped or taken therein during the period 1927-28 to 1937-38, to wit: 3,261 acre feet per annum, during any year in which static groundwater level measurements, made at the time of maximum high water table in the spring season of each year, show that the average water table elevation in the area between Foothill Boulevard and Raymond Fault and between a line 300 feet west of Rosemead Boulevard and a line 100 feet east of Michillinde Avenue, less any increase in such elevation that is attributable to any groundwater storage program, is higher than that at the Arcadia group of

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wells designated as such on said map attached hereto and located west of the intersection of Orange Grove and Santa Anita Avenues in the City of Arcadia, this limitation to apply only when the water table elevation at said group is less than 500 feet above sea level, United States Geological Survey datum.

VII

There is now and, so long as the requirements in subparagraphs 2 and 3 of Paragraph VI hereof are fulfilled and maintained, there will be no material movement of water across the boundary between the Western Unit and the Eastern Unit.

VIII

Nothing in this Judgment contained shall be deemed to modify the rights as between the defendants City of Sierra Madre and City of Arcadia as set forth in that certain Judgment entitled "The City of Sierra Madre, a municipal corporation, et al., vs. The City of Arcadia, a municipal corporation," No. 209747 in the Superior Court of the State of California, in and for the County of Los Angeles, entered on the 22nd day of April, 1930, but in the exercise of such rights each of said parties shall be subject to the express provisions of Paragraph VI hereof.

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IX

A Watermaster shall be appointed by this Court to serve at the pleasure of the Court to administer and enforce the provisions of this Judgment, the Raymond Basin Area Water Exchange Agreement of 1943 and amendment thereto, attached hereto and made a part hereof, and the instructions and orders of this Court, and if any such provisions, instructions or orders of the Court, or any order, rule or direction of such Watermaster, made in accordance with and for the enforcement of this Judgment and said Agreement and amendment thereto, shall have been disobeyed or disregarded, said Watermaster hereby is empowered and authorized to report promptly to the Court such fact and the circumstances connected therewith and leading thereto.

A violation of any provision of this Judgment, or attached Agreement and amendment thereto, or order, instruction, rule or direction of the Court or of the Watermaster, shall be punished in such manner as the Court may direct.

The compensation of said Watermaster shall be fixed by an order or orders which the Court hereafter from time to time may make.

X

There is hereby established a Raymond Basin Management Board (sometimes hereafter called "Board") which shall be the Watermaster. The Board shall have all of the rights,

and shall carry out all of the responsibilities, of the Watermaster as provided in this Judgment. In addition, in order to implement sound water management practices within the framework of the rights of the parties as determined herein, the Board shall have the powers set forth in Paragraph XII.

XI

The Board shall be organized and constituted as follows:

(1) Each party holding a decreed right of 1,000 acre feet or more shall appoint one member to the Board.

(2) The parties within each subarea, namely, Monk Hill Subarea, Pasadena Subarea, and the Eastern Unit, who each hold decreed rights of less than 1,000 acre feet shall together appoint a member from each respective subarea. The appointment for each subarea shall be by majority vote, with each such party having one vote.

(3) No party shall have the right to appoint, or to participate in the appointment of, more than one member to the Board.

(4) Board members shall have broad engineering or management experience in the operation of a water utility or groundwater basin.

(5) Each member shall be appointed for a term of one year, or until replaced. Members shall serve at the pleasure of the appointing party, parties or body. No member

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shall be appointed by or represent more than one party or group of parties. The Board shall select its own officers. A quorum of the Board shall consist of six members, and the Board may act by a majority of those members present at a meeting. The Board shall meet at least quarterly, and all parties to the action may attend. Minutes of the Board meetings shall be kept and sent to all parties in the action. The Board shall have the power to adopt such by-laws, rules and regulations, not inconsistent with the terms of this Judgment, as may be necessary for its own organization and operation.

XII

The powers and responsibilities of the Raymond Basin Management Board, as Watermaster and otherwise, shall be exercised with a view toward protecting the long-term quantity and quality of the groundwater supply; utilizing the groundwater storage capacity of the basin for the maximum advantage of the parties, without however causing significant adverse impact upon any party; integrating to the extent feasible the use of surface and groundwater supplies so as to reduce costs, improve reliability of supply, and to protect against drought; and to encourage the parties to cooperate in the utilization of their respective water rights and water systems for the mutual good. The Board shall have power:

(1) To contract with the California Department of Water Resources, or with any other competent person or firm,

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to perform all or part of the Watermaster functions.

(2) To determine the amount of storage capacity that is available in the basin from time to time for groundwater storage programs.

(3) To allocate such storage capacity among the parties, and to provide for its use and the recapture of equivalent amounts of stored water. The Board may approve, condition or disapprove proposed water storage programs, and imported, nontributary water shall not be stored in the basin without the Board's approval. Approved programs shall include provisions for the duration of allowed storage of water, for determination of losses, for the rates and places of recapture, and for such other conditions as may be necessary to prevent operational problems for other parties, including degradation of water quality.

(4) To control the direct recharge into the basin of imported, non-tributary water.

(5) To issue such rules and regulations as may be necessary in order to account properly for sales, leases, exchanges or other transfers among the parties of decreed rights and the use of water. The Board shall attempt to facilitate, not restrict, such transfers, including efforts to develop agreements for the production and distribution of water through facilities of other parties where such practices promote efficiency and sound water management. This policy shall extend to the use of stored water where consistent with the policies of The Metropolitan Water District of Southern California with respect to the use of supplemental water

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which it provides.

(6) To conduct studies or undertake other activities for the common benefit of the parties in the operation of the Raymond Basin Area; to obtain engineering, legal and other professional services in such connection; and, in addition to the Watermaster budget procedures, to assess the parties in an equitable manner and as may be necessary to pay the costs of the Board's operations, which assessments shall be paid by the parties. Payment shall be enforced in the same manner as provided in Paragraph XV for the annual budget, although the actual apportionment of costs may differ from the method provided in Paragraph XV. All actions of the Board, including any assessments imposed, shall be subject to review by the Court, pursuant to the procedures of Paragraph XVII.

XIII

Each party hereto at its own expense shall:

(1) Measure and keep records of all its diversions from any source contributing to the supply of water in the ground, of its importations of water, and of its production of water from the ground in the Raymond Basin Area, subject to the approval of the Watermaster as to equipment and methods;

(2) Measure and keep records of its production and distribution in such manner as to show its use in, transfers within, and exports of water from the Raymond Basin Area, or any subdivision thereof, as required by the Watermaster;

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(3) Measure and record the depth to the water table in all wells owned or operated by it within the Raymond Basin Area once a month, or as required by the Watermaster.

Any party owning any facilities for the diversion from any source contributing to the supply of the water in the ground in the Raymond Basin Area, or for pumping or otherwise taking water from the ground in said area, at its own expense shall install and at all times maintain in good working order reliable measuring devices and facilities for testing said devices and shall keep records of its diversions and production through the use of such devices and facilities as may be required by the Watermaster; that upon failure of any such party to install such devices and facilities on or before such day as the Watermaster shall fix, after due notice from the Watermaster so to do, the Watermaster shall give the Court notice of such failure for proper action in the premises.

XIV

In addition to other duties herein provided, the Watermaster shall:

(1) Supervise the collection, assembly and presentation of the records and other data required of the parties; such records and other data to be open to inspection by any party or its representative during normal business hours.

(2) Require all parties hereto to operate their respective wells in a manner which will accomplish the stated

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purposes of said Agreement and amendment thereto, and will effectuate this Judgment without placing undue burden on any party; study separately pumping patterns in the Monk Hill Basin, Pasadena Subarea, and the Eastern Unit, and report recommendations thereon not less than twice each year; such report shall recognize the right of each party to pump its decreed right, but shall include recommendations as to whether more or less water should be pumped from individual wells; such recommendations shall be calculated to minimize interference among parties, to conserve energy, expense and local water supplies, and to provide for the most efficient and equitable use of groundwater in the Raymond Basin Area; such recommendations shall be advisory only, and shall not be binding upon the parties unless confirmed by order of this Court.

(3) Establish an ongoing program to monitor water quality in the Raymond Basin Area.

(4) Prepare a tentative annual budget for the fiscal year commencing July 1, separately stating the anticipated expense for administering the provisions of said Agreement and amendment thereto for the release and receipt of water, and the anticipated expense of the administration of the other provisions of said Agreement and amendment thereto and of enforcing this Judgment. The Watermaster shall serve said tentative budget upon each of the parties on or before May 1 of each year. If any party has any objection to said tentative budget, or any suggestions with respect thereto, it shall present the same in writing within ten (10) days after

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service thereof upon it. Thereafter, the Watermaster shall prepare a final budget and serve the same upon each party. If any party objects to said final budget it may make written objection thereto by filing its objection with this Court within fifteen (15) days after service of the same upon it, after first having served such objection upon each party hereto, and shall bring such objection on for hearing before this Court within fifteen (15) days after such filing, or at such time as the Court may direct.

If no objection to said budget be made as herein provided, it shall be the annual budget for the particular year involved. If objection to such budget be filed with this Court as herein provided, then the annual budget shall be determined by the order of this Court.

(5) Make an annual report on or before September 1 of each year to the parties hereto of the scope of the Watermaster's work during the preceding fiscal year and a statement of receipts and expenditures in appropriate detail, segregated as to the items attributable to the administration of the provisions of said Agreement and amendment thereto respecting the release and receipt of water, and as to the items attributable to the administration of the other provisions of said Agreement and amendment thereto and to the enforcement of this Judgment.

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XV

The cost of enforcing this Judgment or any order or direction of this Court or of the Watermaster (other than those with respect to the release and receipt of water in accordance with the provisions of said Agreement and amendment thereto) shall be borne by the parties in proportion to their respective decreed rights as determined in Paragraphs V and VI of this Judgment, and the Watermaster shall assess such cost to each party accordingly.

Payment thereof shall be made by each party within thirty (30) days after the annual budget shall have become final and the service on such party by the Watermaster of a statement of the amount due. If payment be not made within said thirty (30) days, such payment shall be delinquent and the Watermaster shall add a penalty of ten percent (10%) thereof to said statement, and the amount of said statement plus said penalty thereupon shall be due and payable. Payment required of any party hereunder or under the terms of said Agreement and amendment thereto may be enforced by execution issued out of this Court or as may be provided by any order hereinafter made by this Court. All payments and penalties received by the Watermaster, except payments received on account of the release and receipt of water, shall be deposited by the Watermaster in a fund which shall be designated "The Watermaster Service Fund" and shall be expended for the administration of the Agreement and amendment thereto and the enforcement of this Judgment in accordance with the annual

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budgets herein provided for. Any money remaining at the end of any year shall be available for use the following year for such Watermaster service. Money collected or received by the Watermaster in connection with the release and receipt of water under the provisions of said Agreement and amendment thereto shall be deposited by him in a special deposit fund and paid out by him in accordance with the provisions of said Agreement and amendment thereto.

XVI

Any Watermaster ceasing to perform Watermaster service hereunder immediately upon such cessation shall deposit with the clerk of this Court all funds in his possession collected from the parties in accordance with this Judgment or said Agreement and amendment thereto, and forthwith shall serve upon the parties hereto and file with this Court his final account and report, and shall deliver to his successor, or as the Court may direct, all property and all records or certified copies thereof.

XVII

Any party having objection to any determination or finding made by the Watermaster, other than as provided in subparagraph (4) of Paragraph XIV hereof, may make the same in writing to the Watermaster within thirty (30) days after the making of such determination or finding after first

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having served a copy of such objection upon each party, and within thirty (30) days thereafter the Watermaster shall consider said objection and shall amend or affirm his finding or determination; any party objecting thereto within thirty (30) days thereafter may file its objections with this Court, bringing the same on for hearing before said Court within sixty (60) days thereafter, or at such time as the Court may direct, after first having served said objection upon each party. The Court may affirm, modify, amend or overrule any such finding or determination of the Watermaster.

XVIII

Within thirty (30) days after the appointment of the Watermaster, each of the parties shall file with the Watermaster and serve on each party the name and address of the person to whom any notice, demand, request, objection or the submission of any budget and the annual report is to be made or given, and each of said parties may change the name and address of said person from time to time by filing said changed name and address with the Watermaster and by serving a copy thereof upon each of the parties hereto.

Any notice, demand, request, objection or the submission of a budget and the annual report required or authorized by this Judgment or said Agreement and amendment thereto to be given or made to or served upon any party or the Watermaster, shall be delivered or mailed by registered mail postage prepaid to the person so designated at the

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address last filed with the Watermaster. Such service by mailing shall be complete at the time of the deposit in the United States mail.

Notice of any other motion or proceeding herein may also be given by service upon the person and at the address filed with the Watermaster, in the manner designated in this Paragraph, provided that certified or registered mail may be used. If any party or successor in interest has failed to make such filing with the Watermaster, notice may be mailed to the address which the Watermaster uses for such party or successor.

XIX

The agreement entered into by certain parties, entitled "Raymond Basin Area Water Exchange Agreement of 1943" and amendment thereto, a copy of which is attached hereto, and each and all of its terms and provisions be, and the same is and are hereby fully approved, and said Agreement and amendment thereto is hereby expressly made a part of this Judgment to the same purpose and effect as though said Agreement and amendment thereto were at this point fully herein written and set forth at length; provided, however, that California-Michigan Land and Water Company, Sunny Slope Water Company, and Ernest Crawford May, as Executor of the Last Will and Testament of Charles Heuston Hastings, deceased, who are not parties to said Agreement or amendment thereto, shall not be bound by nor required to perform any of the provisions

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thereof, nor pay any part of the cost of administering or enforcing said Agreement or amendment thereto; that the power of the Court is hereby expressly made to underlie all of the terms and provisions of said Agreement and amendment thereto and the enforcement thereof, and that the parties thereto, and each thereof, are hereby ordered to perform fully said Agreement and amendment thereto and all of its said terms and provisions.

No taking of water by any party under the provisions of said Agreement and amendment thereto concerning the release and receipt of water in any amount in excess of its decreed right to pump or otherwise take water from the ground in the Raymond Basin Area shall constitute a taking adverse to any other party; nor shall any party have the right to plead the statute of limitations or an estoppel against any other party by reason of its said taking of water in the Raymond Basin Area pursuant to a request for the release of water; nor shall such release of water by any party constitute a forfeiture or abandonment by such party of any part of its decreed right to water; nor shall such release in any wise constitute a waiver of such right, although such water, when released under the terms of said Agreement and amendment thereto, may be devoted to the public use of others; nor shall such release of water by any such party in any wise obligate any party so releasing to continue to release or furnish water to any other party or its successor in interest, or to the public generally, or to any part thereof, otherwise than as provided in Article IV of said Agreement and amendment thereto.

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XX

In the event any party shall serve upon the parties and file with the Watermaster and with the Court a declaration of forfeiture or abandonment of its decreed right, or any part thereof, said party shall be relieved of the payment of further costs of administering the provisions of said Agreement and amendment thereto and enforcing this Judgment applicable to the right so forfeited or abandoned; provided that said relief from said further costs shall not become effective until the beginning of the next fiscal year for which a budget has not become final; and provided that said party making such forfeiture or abandonment shall pay to the Watermaster its proportion of such costs to the effective date of such relief from costs. The amount of water so abandoned or forfeited shall be available immediately for use by the parties in the proportions set forth in Paragraphs V and VI hereof, pending the time that any review shall have been made as provided for in Paragraph XXI hereof.

XXI

The Court hereby reserves jurisdiction and authority upon application of any party hereto, or upon its own motion, to review (1) its determination of the safe yield of either or both of said units of the Raymond Basin Area, or (2) the rights, in the aggregate, of all of the parties in either or both of said units as affected by the abandonment or forfeiture

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of any right, in whole or in part, decreed herein, and by the abandonment or forfeiture of any right by any other person or entity, and, in the event material change be found or any such abandonment or forfeiture be established, to adjudge that the decreed right of each party to pump or otherwise take water from the ground in the Raymond Basin Area shall be changed proportionately in the same manner as originally fixed herein; provided, however, that notice of such review shall be served on all parties at least thirty (30) days prior thereto and that the review of its determination of the safe yield of either or both of said units of the Raymond Basin Area shall be had not more frequently than at five (5) year intervals after the date hereof. Except as provided herein, and except as rights decreed herein may be abandoned or forfeited by nonuser, in whole or in part, each and every right decreed herein hereby is fixed as of the date hereof.

XXII

The Court hereby reserves jurisdiction and authority at any time, upon application of any party, the Watermaster, or upon its own motion, to make such modifications of, or such additions to, the provisions of this Judgment, or to make such further order or orders, as may be necessary or desirable for the adequate enforcement, protection or preservation of the rights of the respective parties as declared in this Judgment or as provided in said Agreement and amendment thereto. The Court further reserves jurisdiction to make any

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other and/or additional orders of sufficient kind and nature to protect the waters in said Raymond Basin Area or any portion thereof from contamination of the groundwater supply from cesspool effluent or surface waters.

XXIII

The defendant California-Michigan Land and Water Company is entitled to become a party to the Raymond Basin Area Water Exchange Agreement of 1934 and thereby become entitled to receive water upon the same terms and conditions provided in said Agreement with respect to the several parties thereto.

XXIV

The defendant Bradbury Estate Company, a corporation, and Eugene E. Bean be and they hereby are dismissed without costs.

XXV

None of the parties is entitled to recover its costs as against any other party.

DATED: March 26, 1984

/s/ Robert M. Olson
JUDGE OF THE SUPERIOR COURT

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# APPENDIX E

# LONG BEACH JUDGEMENT

# 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<br><br>**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,<br><br>Plaintiffs,<br><br>vs.<br><br>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,<br><br>Defendants,<br><br>UPPER SAN GABRIEL VALLEY MUNICIPAL WATER | NO. 722,647<br><br>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<br>City Attorney<br>Clifford E. Hayes<br>Principal Deputy City Attorney<br>City of Long Beach | Board of Water Commissioners of the City of Long Beach |
| By _____ | By _____<br>Its _____ President |
| | By _____<br>Its _____ Secretary |
| Burris & Lagerlof<br>Stanley C. Lagerlof<br>H. Jess Senecal<br>Jack T. Swafford | 1800 East Wardlow Road<br>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 _____

Surr & Hellyer

By _____

Clayson, Stark, Rothrock
& Mann

By _____

J. E. Skelton

_____

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

San Gabriel County Water District

By _____

Its ____ President

By _____

Its _____ Secretary

8229 East Las Tunas Drive
San Gabriel, California

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,<br><br>Plaintiffs,<br><br>vs.<br><br>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,<br><br>Defendants,<br><br>UPPER SAN GABRIEL VALLEY MUNICIPAL WATER | NO. 722,647<br><br>**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.:

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

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

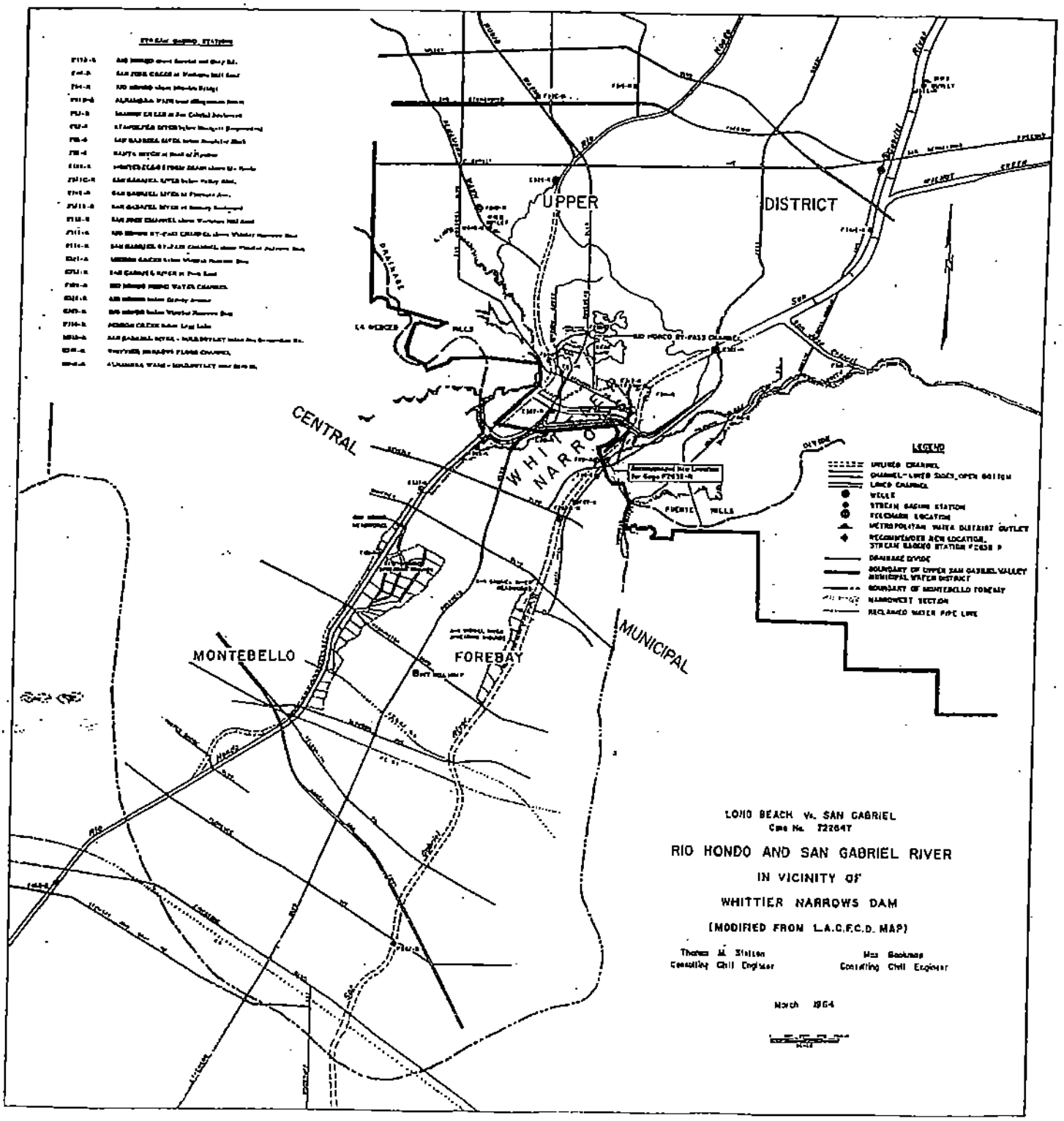
UPPER
DISTRICT
CENTRAL
MUNICIPAL
MONTEBELLO
FOREBAY
WHITTIER NARROWS
LEGEND
LONG BEACH vs. SAN GABRIEL
Case No. 722647
RIO HONDO AND SAN GABRIEL RIVER
IN VICINITY OF
WHITTIER NARROWS DAM
(MODIFIED FROM L.A.C.F.C.D. MAP)
Thomas M. Stetson
Consulting Civil Engineer
Max Beckman
Consulting Civil Engineer
March 1964

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

CALCU ‹ OF US. URFACE

G BASE )

.cre-Fe

| (1) Water Year | 3) Hondo .64 | Su (4) Rio H Bypa F-3 | Flo (5) rcamore Canyon | 6) abriel at num g water | (7) ıl (5+6) | Montebe (9) San Gabri River F-26 | (10) bbtotal (8+9) | 1 Hello Drain 81 | 2) ow of rface low -11) | (13) ue Flo lated in cobalto rebay (-12) | (14) olorado vater pa ultiar N | One-I Basin in | aymond Recharg Area | (16) Usable rface Fl (13-14-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1934-3 | 9,230 | | 390 | 2,410 | 170 | 4,7 | 10,700 | .50 | 9,050 | 52,120 | | | | ),470 |
| 3 | 0,700 | | 70 | 6,140 | 720 | 1,7 | 8,970 | .90 | 5,080 | 41,640 | | | | ),905 |
| 3 | 0,900 | | 260 | 7,750 | 750 | 21,( | 47,870 | .70 | 5,700 | 64,050 | | | | ,185 |
| 3 | 9,330 | | 510 | 9,220 | 660 | 60,( | 132,100 | .50 | 0,050 | 103,610 | | | | ),650 |
| 3 | 0,650 | | 200 | 8,380 | 560 | 2,8 | 12,080 | .80 | 1,100 | 74,460 | | | | ,490 |
| 1939-4 | 7,660 | | 110 | 9,510 | 490 | 1,9 | 6,750 | .90 | 5,860 | 67,630 | | | | ),645 |
| 4 | 0,650 | | 1,070 | 2,440 | 280 | 75,7 | 169,040 | .90 | 4,950 | 97,330 | | | | ,125 |
| 4 | 8,810 | | 80 | 3,770 | 400 | 13,8 | 20,300 | .60 | 9,340 | 72,060 | | | | ,920 |
| 4 | 9,470 | | 150 | 2,670 | 700 | 186,4 | 128,330 | .80 | 5,750 | 73,950 | | | | ,715 |
| 4 | 1,390 | | 220 | 1,420 | 880 | 79,9 | 106,750 | .90 | 4,360 | 87,520 | | | | ,975 |
| 1944-4 | 2,300 | | 70 | 7,130 | 520 | 26,1 | 34,570 | .70 | 3,800 | 73,720 | | | | ,230 |
| 4 | 3,160 | | 70 | 1,580 | 440 | 16,4 | 27,760 | .70 | 6,890 | 83,550 | | | | ,915 |
| 4 | 8,410 | | 110 | 6,790 | 540 | 27,8 | 45,680 | .50 | 2,330 | 77,210 | | | | ,425 |
| 4 | 5,370 | | 20 | 0,970 | 030 | | 3,510 | .10 | 2,600 | 56,430 | | | | ,365 |
| 4 | 1,100 | | 40 | 3,590 | 370 | | 1,490 | .60 | 630 | 34,740 | | | | ,740 |
| 1949-5 | 2,280 | | 110 | 1,780 | 950 | | 2,840 | .40 | 1,600 | 31,350 | | | | ,350 |
| 5 | 7,880 | | 0 | 8,420 | 000 | | 780 | .90 | -110 | 23,110 | | | | ,110 |
| 5 | 4,570 | | 530 | 6,800 | 990 | 24,2 | 50,290 | .30 | 6,960 | 51,030 | | | | ,030 |
| 5 | 6,120 | | 50 | 2,350 | 730 | 9 | 4,430 | .30 | 3,000 | 41,730 | | | | ,730 |
| 5 | 3,390 | 7,2 | 100 | 8,130 | 430 | 3,7 | 14,550 | .90 | 2,360 | 40,070 | 15,6 | | | ,380 |
| 1954-5 | 1,350 | 9,7 | 70 | 4,630 | 880 | 1,0 | 9,000 | .10 | 7,790 | 31,090 | 23,1 | | | ,960 |
| 5 | 6,180 | 14,9 | 150 | 8,930 | 560 | 10,3 | 24,900 | .10 | 2,790 | 39,770 | 42,8 | | | ,100 |
| 5 | 8,840 | 20,4 | 50 | 2,220 | 350 | 1,3 | 6,030 | .20 | 4,910 | 56,440 | 51,8 | | | ,570 |
| 5 | 9,320 | 15,3 | 540 | 1,320 | 140 | 23,9 | 54,220 | .50 | 0,970 | 78,170 | 103,9 | | | ,270 |
| 1958-5 | 9,800 | | 10 | 9,790 | 520 | 3,1 | 7,030 | .30 | 5,800 | 77,720 | 59,3 | | | ,330 |
| TOTAL | 6,860 | 67,6 | 4,980 | 8,040 | 060 | 586,8 | 124,970 | .10 | 3,560 | 30,500 | 296,8 | | | ,385 |
| Averag | 1,870 | 2,7 | 200 | 1,120 | 560 | 23,4 | 45,000 | .60 | 3,340 | 65,220 | 11,87 | | | ,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 F458-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

$C = P_I Wd$,

$C$ = The flow which would occur in the unsaturated section if it were saturated, in cubic feet per second under unit hydraulic gradient.

$P_I$ = 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

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.

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: _____.

_____

(SEAL) By _____

By _____

ed.

# APPENDIX F

# 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

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Attorney for Watermaster

SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES

| | |
|---|---|
| UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT,<br><br>Plaintiff,<br><br>vs.<br><br>CITY OF ALHAMBRA, et al.,<br><br>Defendants. | No. 924128<br><br>AMENDED JUDGMENT<br><br>(And Exhibits Thereto) |

HONORABLE FLORENCE T. PICKARD

Assigned Judge Presiding

DEPARTMENT 38

August 24, 1989

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"B" -- Boundaries of Relevant Watershed

"C" -- Table Showing Base Annual Diversion Rights of Certain Diverters

"D" -- Table Showing Rights and Pumper's Share of Each Pumper

"E" -- Table Showing Production Rights of Each Integrated Producer

"F" -- Table Showing Special Category Rights

"G" -- Table Showing Non-consumptive Users

"H" -- Watermaster Operating Criteria

"J" -- Puente Narrows Agreement

"K" -- Overlying Rights

"L" -- List of Producers and Their Designees (New)

"M" -- Watermaster Members, Officers, and Staff Including Calendar Year 1989 (New)

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SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES

| | |
|---|---|
| UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT,<br><br>Plaintiff,<br><br>vs.<br><br>CITY OF ALHAMBRA, et al.,<br><br>Defendants. | No. 924128<br><br>AMENDED JUDGMENT<br><br><br><br><br><br>Hearing: August 24, 1989<br>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
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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

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| UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT, Plaintiff, vs. CITY OF ALHAMBRA, et al., Defendants. | No. 924129<br>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<br>Hearing: August 7, 1990<br>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

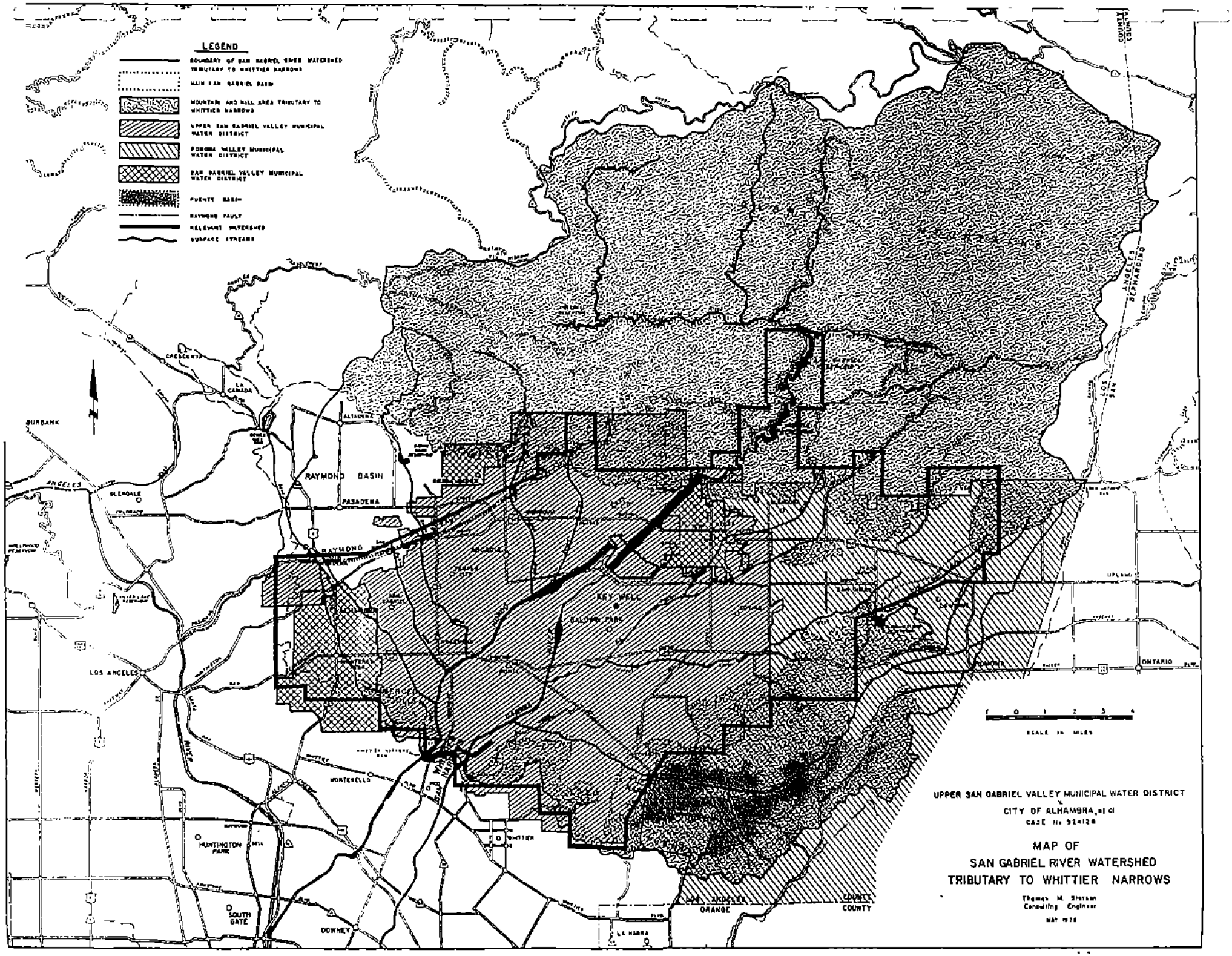

LEGEND
BOUNDARY OF SAN GABRIEL RIVER WATERSHED TRIBUTARY TO WHITTIER NARROWS
MAIN SAN GABRIEL BASIN
MOUNTAIN AND HILL AREA TRIBUTARY TO WHITTIER NARROWS
UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
POMONA VALLEY MUNICIPAL WATER DISTRICT
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
PUENTE BASIN
RAYMOND FAULT
RELEVANT WATERSHED
SURFACE STREAMS
RAYMOND BASIN
PASADENA
ALTADENA
LA CANADA
CRESCENTA
BURBANK
GLENDALE
LOS ANGELES
MONTEBELLO
HUNTINGTON PARK
SOUTH GATE
DOWNEY
WHITTIER
LA HABRA
KEY WELL
BALDWIN PARK
ONTARIO
UPLAND
ORANGE COUNTY
LOS ANGELES COUNTY
SAN BERNARDINO COUNTY
SCALE IN MILES
UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
CITY OF ALHAMBRA, et al
CASE No 924126
MAP OF
SAN GABRIEL RIVER WATERSHED
TRIBUTARY TO WHITTIER NARROWS
Thomas M. Stetson
Consulting Engineer
MAY 1978

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 Recreational Facilities Authority) | 62.50 | 0.03162 |
| | 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<br>33.40<br>1,130.40 | 0.55507<br>0.01690<br>0.57197 |
| La Verne, City of (Successor to Fruit Street Water Co.) | 250.00<br>105.71<br>355.71 | 0.12650<br>0.05349<br>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 |
| Totals from Exhibit "E" | 41 833.75 ~~38,826.25~~ | 21.16724 ~~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<br>(a) A right to divert, store and use San Gabriel River Water, pursuant to Permit No. 7174.<br><br>(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<br>Prior Prescriptive right to divert water from San Dimas Wash for storage in Puddingstone Reservoir in quantities sufficient to offset annual evaporation and seepage losses of the reservoir at approximate elevation 942. |

Exhibit "G"

TABLE SHOWING
NON-CONSUMPTIVE USERS

| Party | Nature of Right |
|---|---|
| Covina Irrigating Company<br>Azusa Valley Water Company<br>Azusa Agricultural Water Co.<br>Azusa Foot-Hill Citrus Co.<br>Monrovia Nursery Company | "Committee-of-Nine" Spreading Right<br>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<br>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<br>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<br>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<br>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;<br><br>Spreading and conservation for general benefit in streambeds, reservoirs and spreading grounds without the right to recapture said water.<br><br>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. Operating Safe Yield and Spreading. Watermaster in determining Operating Safe Yield and the importation of Replacement Water shall be guided by water level elevations in the Basin. He shall give recognition to, and base his operations on, the following general objectives insofar as practicable:

(a) The replenishment of ground water from sources of supplemental water should not cause excessively high levels of ground water and such replenishment should not cause undue waste of local water supplies.

(b) Certain areas within the Basin are not at the present time capable of being recharged with supplemental water. Efforts should be made to provide protection to such areas from excessive ground water lowering either through the "in lieu" provisions of the Judgment or by other means.

(c) Watermaster shall consider and evaluate the long-term consequences on ground water quality, as well as quantity, in determining and establishing Operating Safe Yield. Recognition shall be given to the enhancement of ground water quality insofar as practicable, especially in the area immediately upstream of Whittier Narrows where degradation of water quality may occur when water levels at the Key Well are maintained at or below elevation 200.

(d) Watermaster shall take into consideration the comparative costs of supplemental and Make-up Water in determining the savings on a present value basis of temporary or permanent lowering or raising of water levels and other economic data and analyses indicating both the short-term and long-term

propriety of adjusting Operating Safe Yield in order to derive optimum water levels during any period. Watermaster shall utilize the provisions in the Long Beach Judgment which will result in the least cost of delivering Make-up Water.

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

(a) Responsible Agency From Which to Purchase. Watermaster, in determining the Responsible Agency from which to purchase supplemental water for replacement purposes, shall be governed by the following:

(1) Place of Use of Water which is used primarily within the Basin or by cities within San Gabriel District in areas within or outside the Basin shall control in determining the Responsible Agency. For purposes of this subparagraph, water supplied through a municipal water system which lies chiefly within the Basin shall be deemed entirely used within the Basin; and

(2) Place of production of water shall control in determining the Responsible Agency as to water exported from the Basin, except as to use within San Gabriel District.

Any Responsible Agency may, at the request of Watermaster, waive its right to act as the source for such supplemental water, in which case Watermaster shall be free to purchase such water from the remaining Responsible Agencies which are the most beneficial and appropriate sources; provided, however, that a Responsible Agency shall not

authorize any sale of water in violation of the California Constitution.

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

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

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

EXHIBIT "J"

PUENTE NARROWS AGREEMENT

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

A. RECITALS

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

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

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

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 _____
EDWARD 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

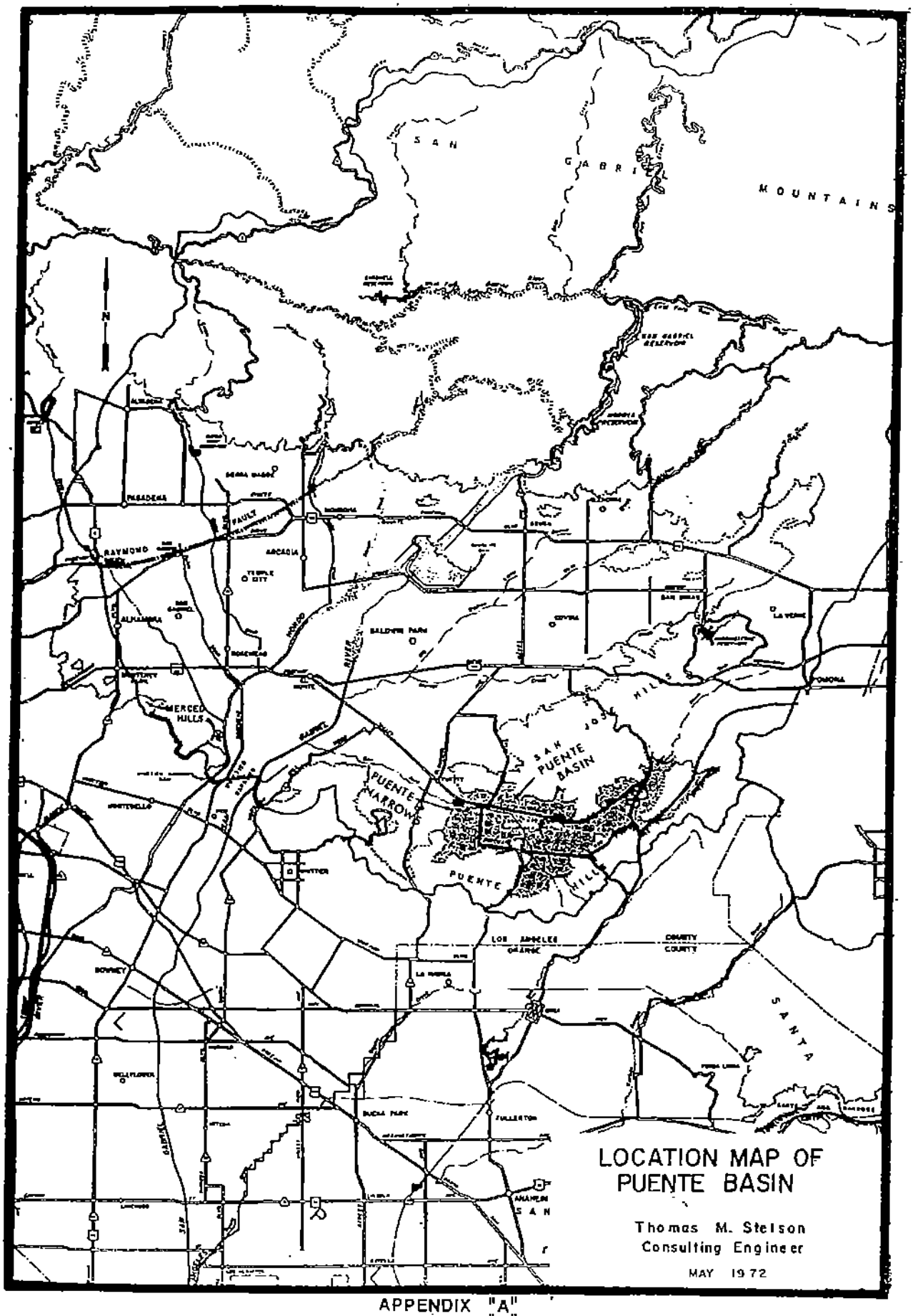
By _____
J. P. BOURDET
Vice President

Approved as to form:

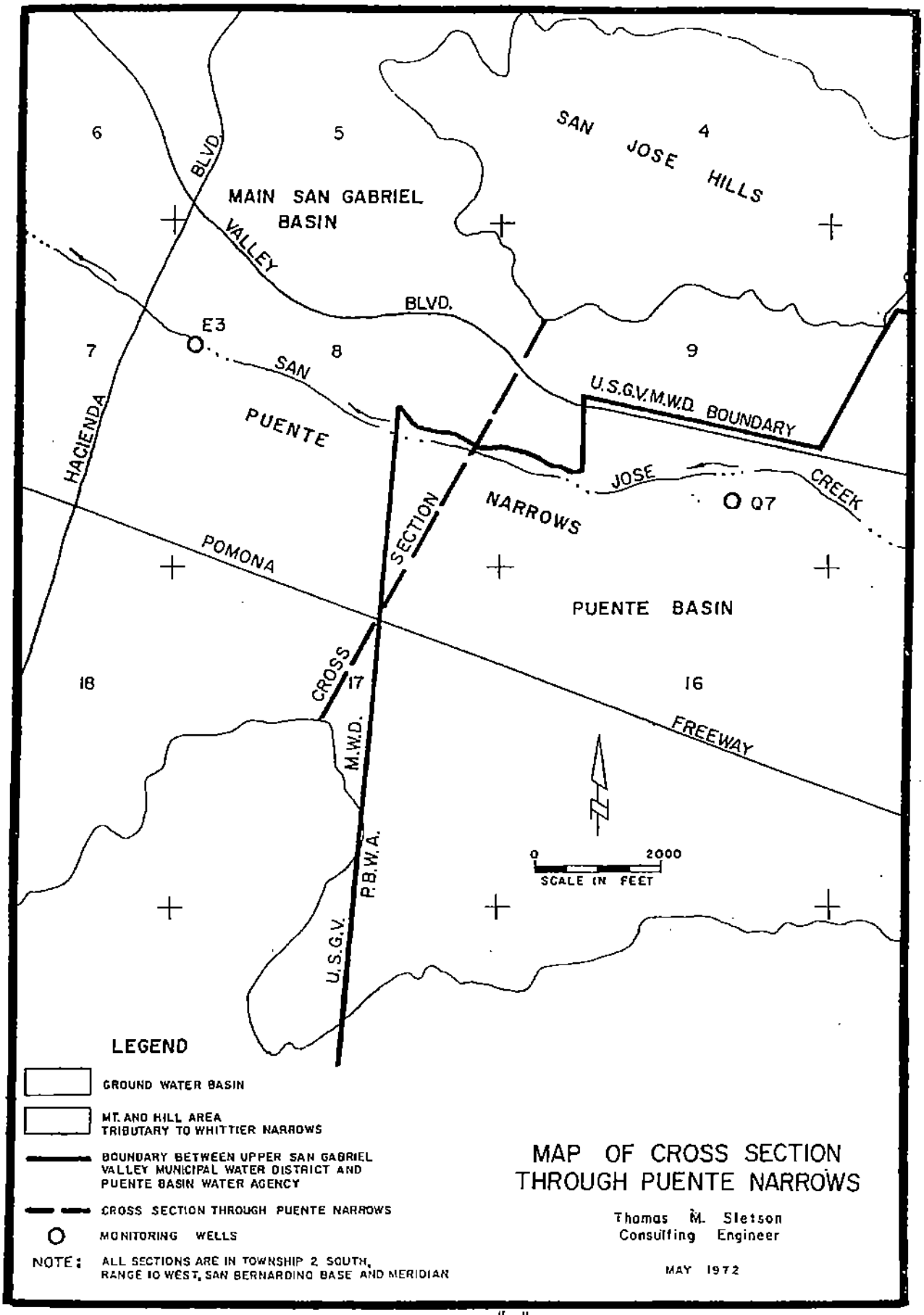
_____
Attorneys for Rowland District

ROWLAND AREA COUNTY WATER
DISTRICT

By _____
President
Wm. A. Simmons




APPENDIX "A"
EXHIBIT "J"




APPENDIX "B"
EXHIBIT "J"
J - 10

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.

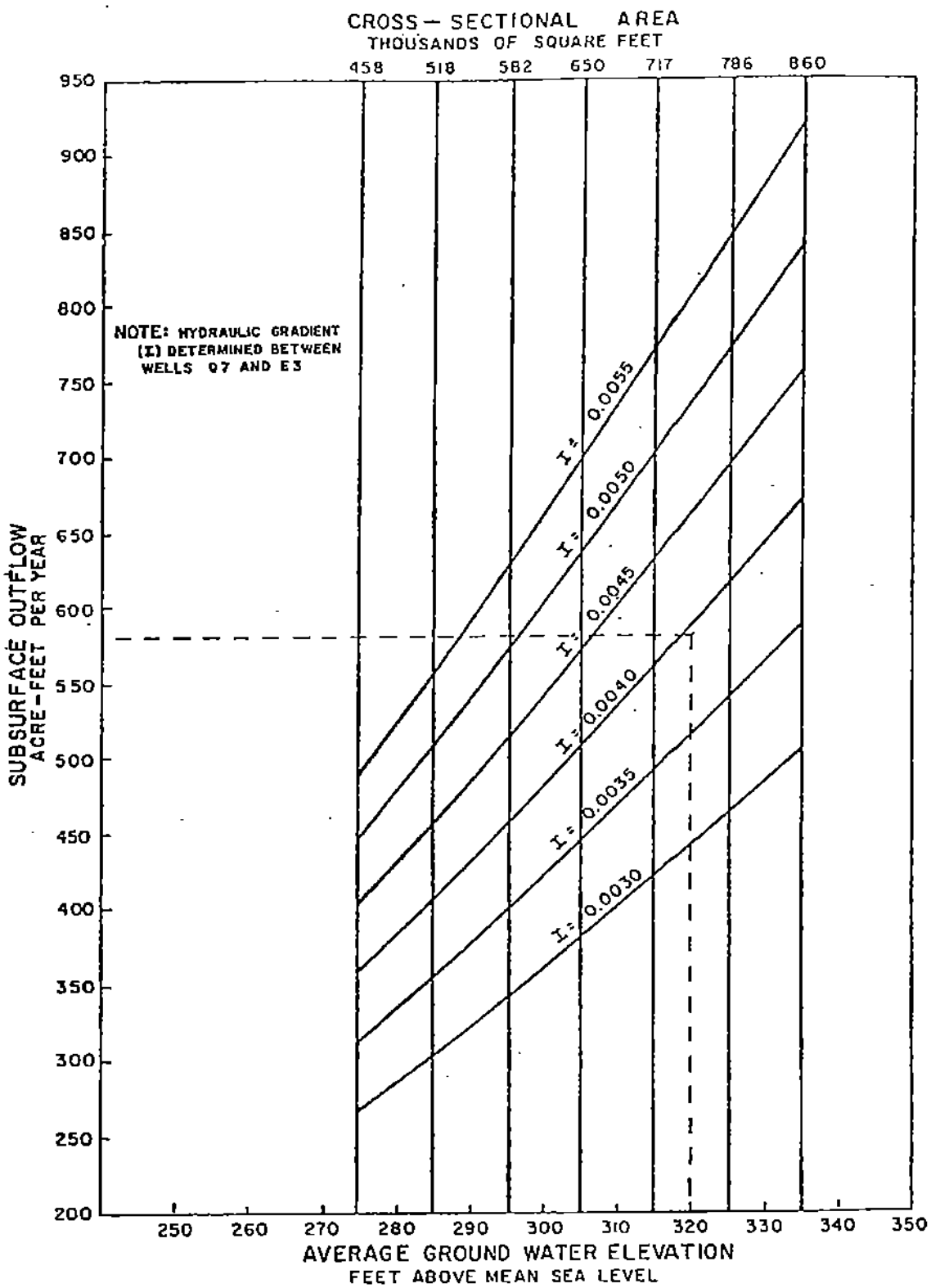
2. Measurement. Each monitoring well shall be measured and the ground water elevation determined semi-annually on or about April 1 and October 1 of each year. Prior to each measurement, the pump shall be turned off for a sufficient period to insure that the water table has recovered to a static or near 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.<br>BROOKS GIFFORD, JR.<br>PAUL MNOIAN<br>JOHN MGRDICHIAN<br>J. EARL GARRETT | 3.5 acre-feet per year |
| Present User:<br>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:<br>Pre-Stress Crane Rigging & Truck Co., Inc., a corporation | |
| Total | 50.1 acre-feet per year |

IV. ANNUAL GROSS AMOUNT OF PRODUCTION FROM WHICH CONSUMPTIVE USE PORTIONS WERE DERIVED — 183.65 acre-feet

Exhibit "L"

LIST OF PRODUCERS AND 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 |

Exhibit "L"

| 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<br>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 |

Exhibit "L"

| 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 |

Exhibit "L"

| 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

LINN E. MAGOFFIN (Producer Member), Chairman

R. H. NICHOLSON, JR. (Producer Member), Vice Chairman

ROBERT G. BERLIEN (Producer Member), Secretary

CONRAD T. REIBOLD (Public Member), Treasurer

ROBERT T. BALCH (Producer Member)

DONALD F. CLARK (Public Member)

L. E. MOELLER (Producer Member)

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

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
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FOR CALENDAR YEAR 1989

LINN E. MAGOFFIN (Producer Member), Chairman

REGINALD A. STONE (Producer Member), Vice Chairman

GERALD G. BLACK (Producer Member), Secretary

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 G

# 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.)

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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,<br>Plaintiff,<br>vs.<br>City of Alhambra, et al,<br>Defendant | Case No.: C 924128<br>STIPULATION RE INTERVENTION AFTER JUDGMENT OF<br>_____ |

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,<br>Plaintiff,<br>vs.<br>City of Alhambra, et al,<br>Defendant | Case No.: C 924128<br><br>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:_____

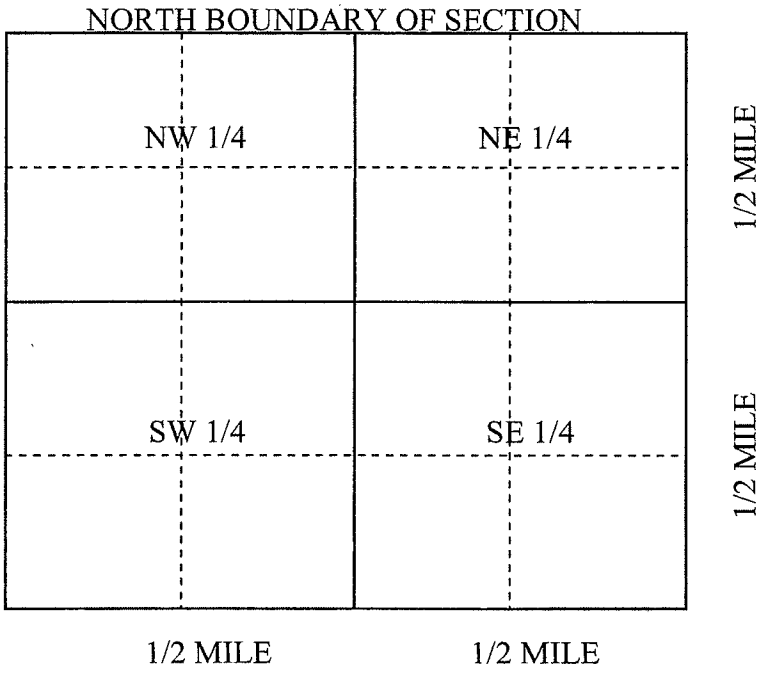
Date Received by Watermaster:_____
Watermaster Action: Approved ( ) Denied ( )
Date of Action:_____
**Permit Number:**_____
**By:**_____
**(Name)**

**(Title)**

EXHIBIT H-1

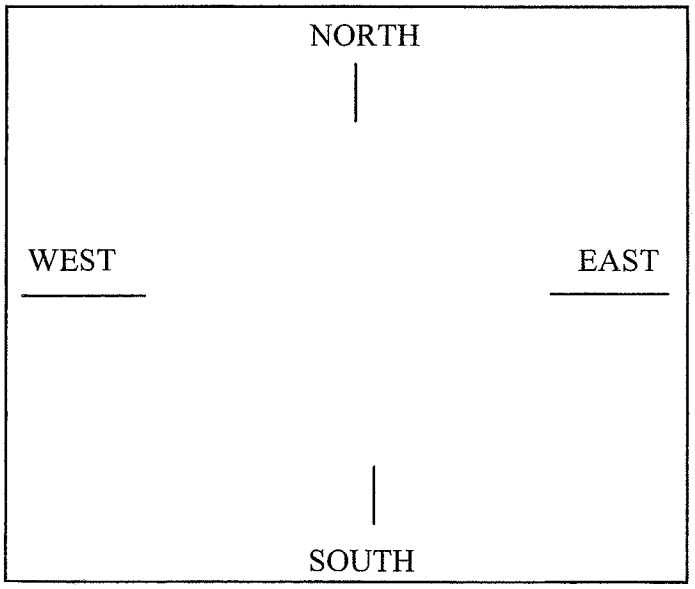
Form No. RR 28-03 – 08/00

# 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:_____

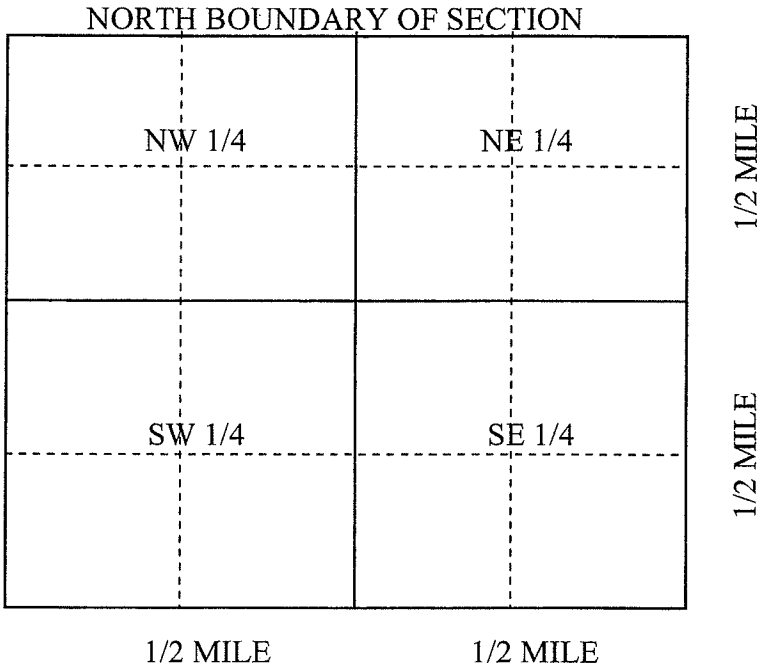
Date:_____

Date Received by Watermaster:_____
Watermaster Action:
Approved ( ) Denied ( )
Date of Action:_____
Permit Number:_____
By:_____
(Name)
_____
(Title)

Form No. RR 28-03 – 08/00

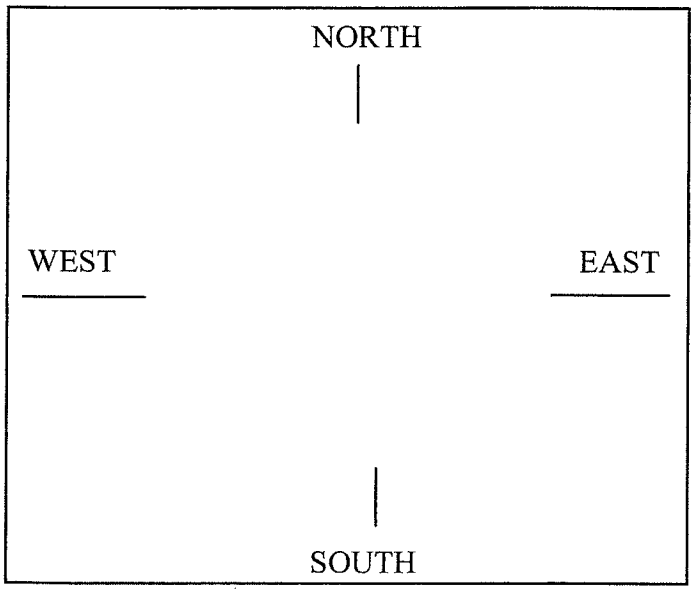
EXHIBIT I-1

# 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:**_____

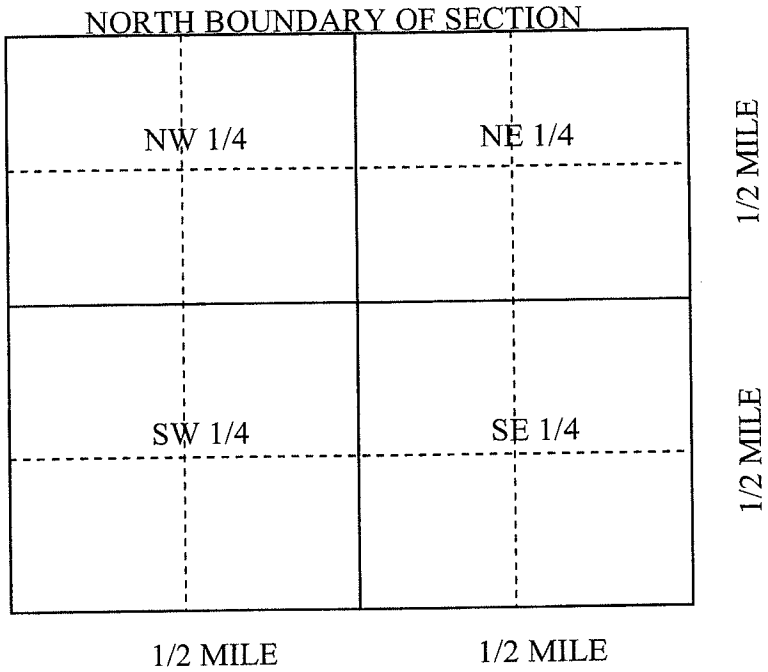
**Permit Number:**_____

**By:**_____
**(Name)**
_____
**(Title)**

EXHIBIT J-1

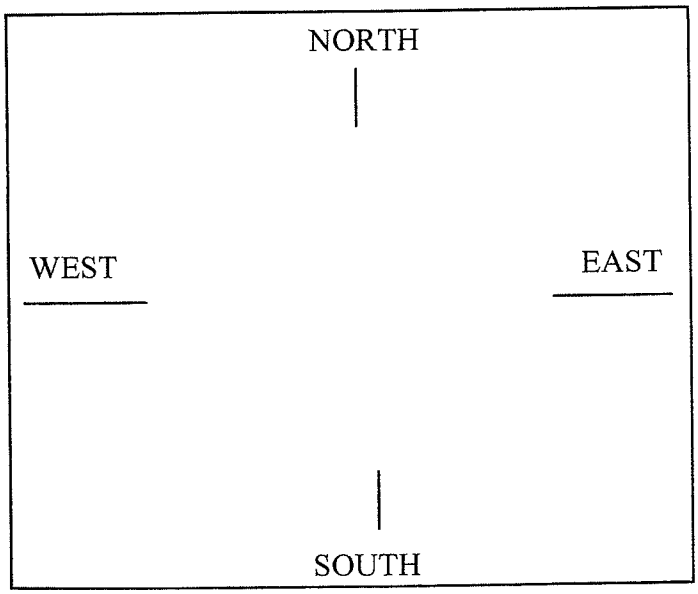
Form No. RR 28-03 – 08/00

# 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:_____

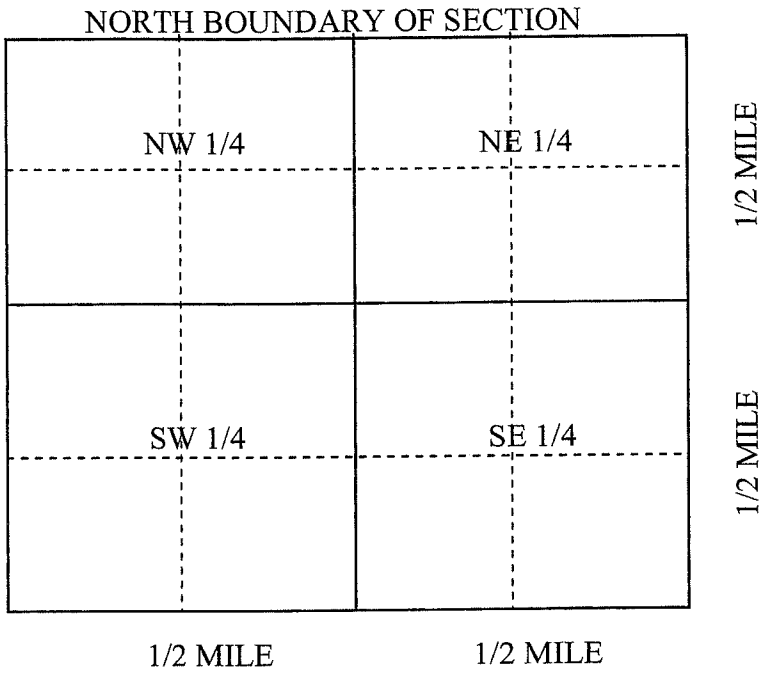
Title:_____

Date:_____

Date Received by Watermaster:_____
Watermaster Action:
Approved ( ) Denied ( )
Date of Action:_____
Permit Number:_____
By:_____
(Name)
_____
(Title)

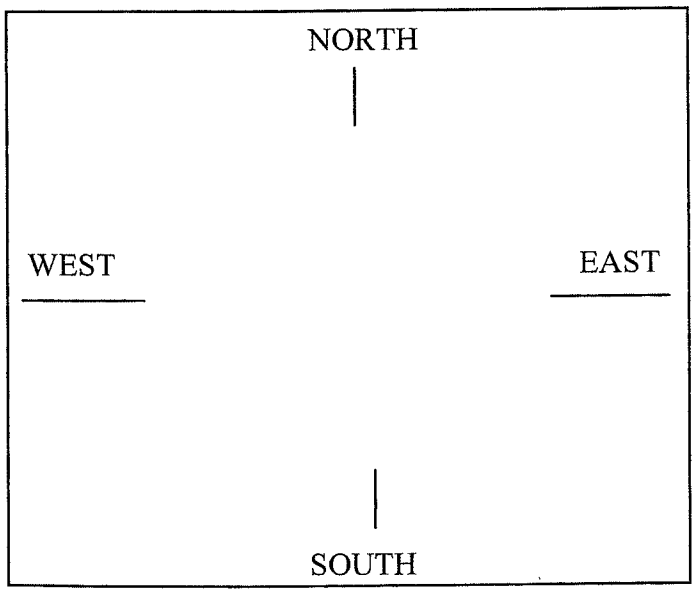
EXHIBIT K-1

# 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.**

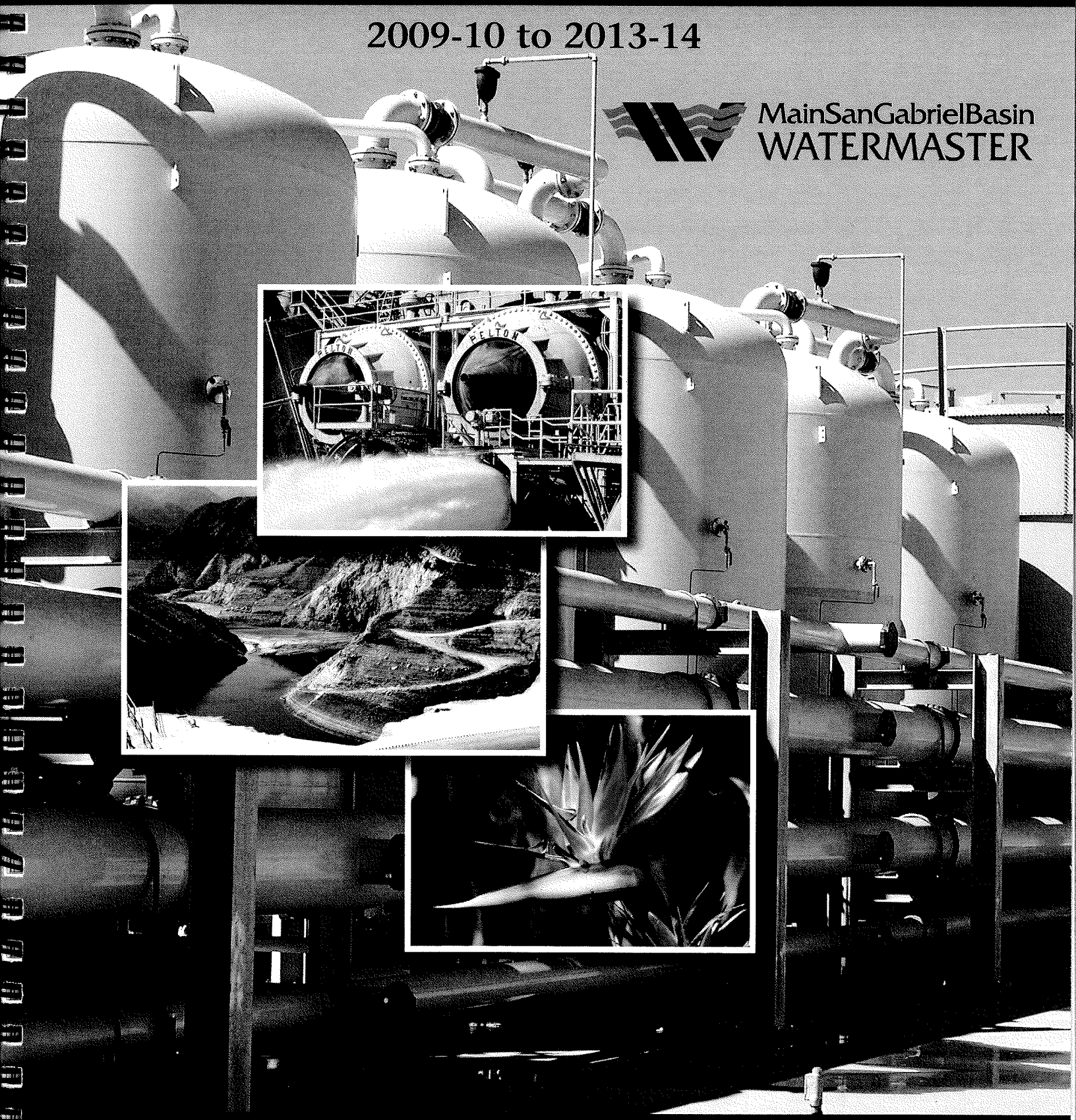
# APPENDIX H

# 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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- Appendix F. Maps Showing Wells Vulnerable to VOC, Nitrate and Perchlorate Contamination Within Five Years (Figures 8a, 8b, and 8c)
- Appendix G: Simulated Basin Groundwater Contours 2008-09 and 2013-14 (Figures 9 and 10)

# 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

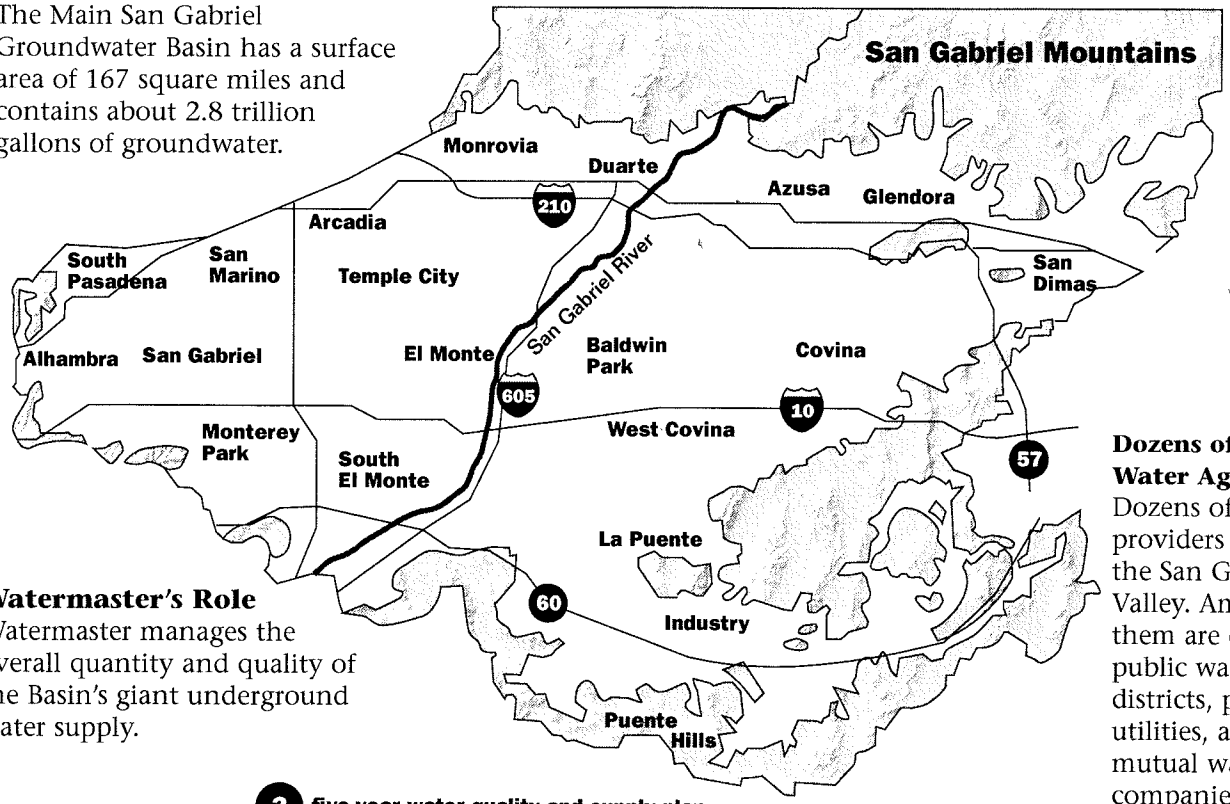
By 1989, local water agencies adopted a joint resolution regarding water quality issues that stated that Watermaster should coordinate local activities aimed at preserving and restoring the quality of groundwater in the Basin. The joint resolution also called for a cleanup plan.

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.

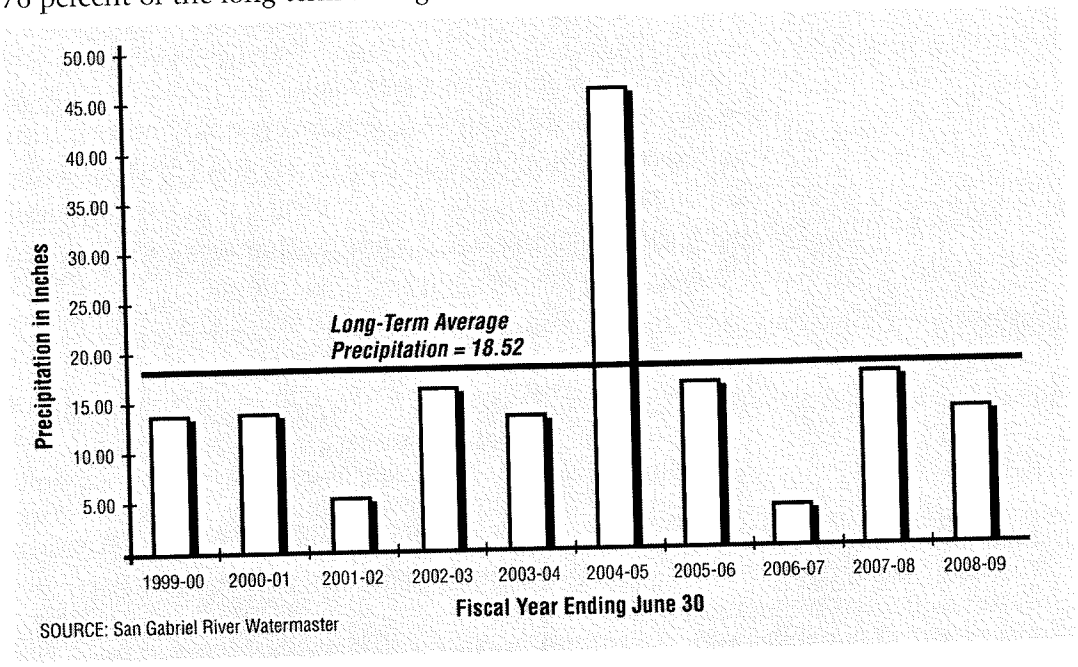



**Figure 2. AVERAGE RAINFALL DURING THE LAST TEN YEARS**
Rainfall in 2008-09 was about 14 inches. Average precipitation in the Main San Gabriel Basin for the 10-year period from 1999-00 to 2008-09 was 16.7 inches. The long-term average rainfall is 18.52 inches. The rainfall total is made up of an average 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.

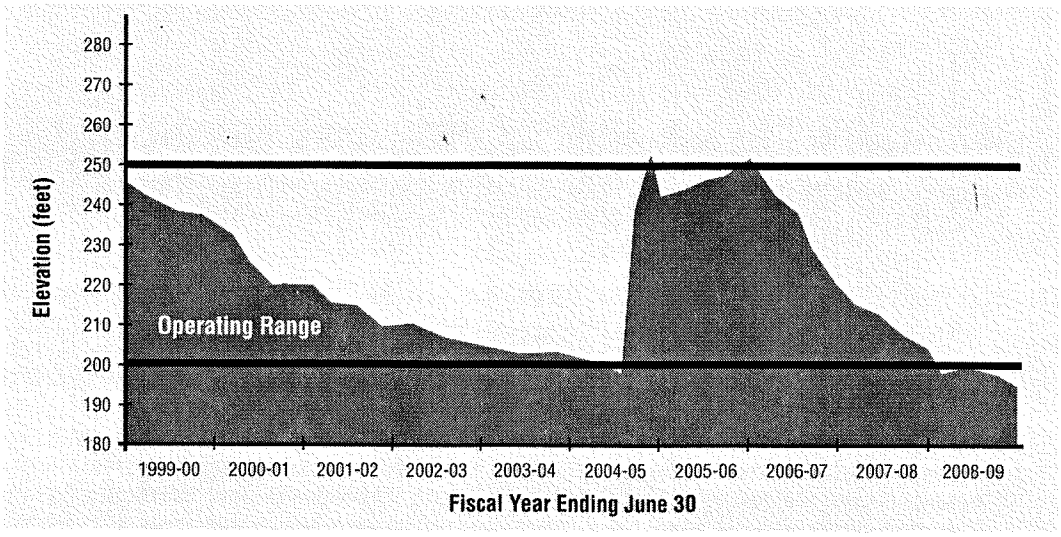


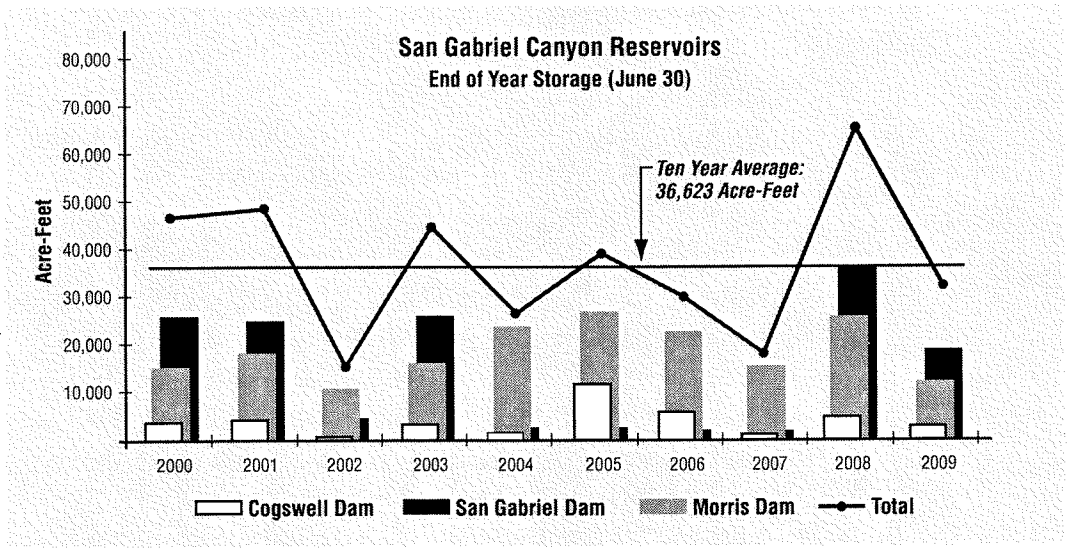

**Figure 3. KEY WELL ELEVATIONS DURING THE LAST TEN YEARS**
The groundwater elevation at the Key Well on June 30, 2009 was about 195.6 feet, which is below the bottom of the Basin's operating range of 200 to 250 feet.

## 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.

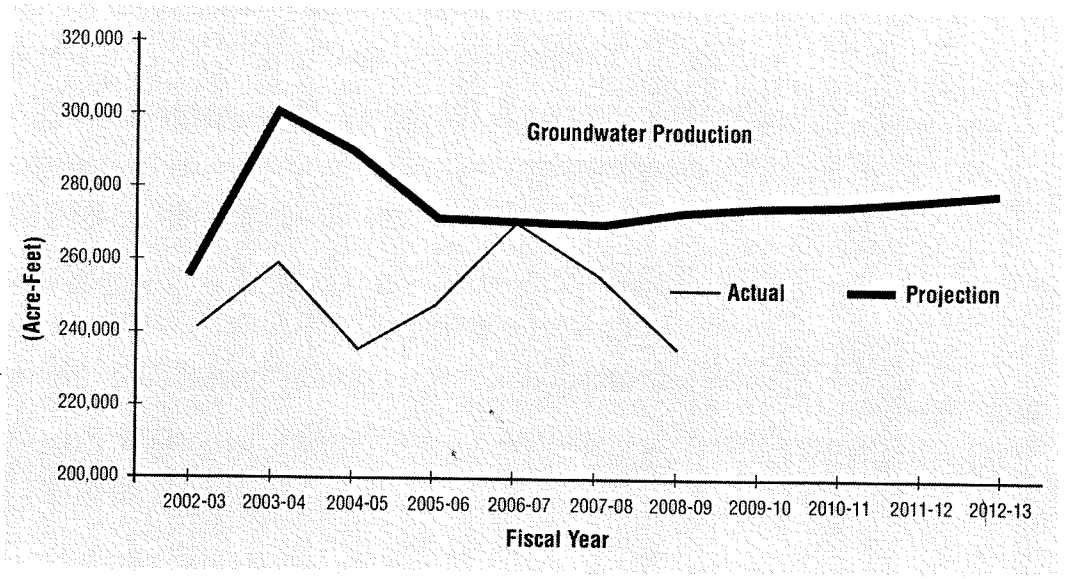



**Figure 5. PROJECTED AND HISTORICAL WATER PRODUCTION**
Total groundwater production for the 2008-09 fiscal year from the Basin was 236,800 acre-feet, which is lower than the previous year's production of 253,000 acre-feet. The decrease in groundwater production is due partially to Basin-wide water conservation.

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.

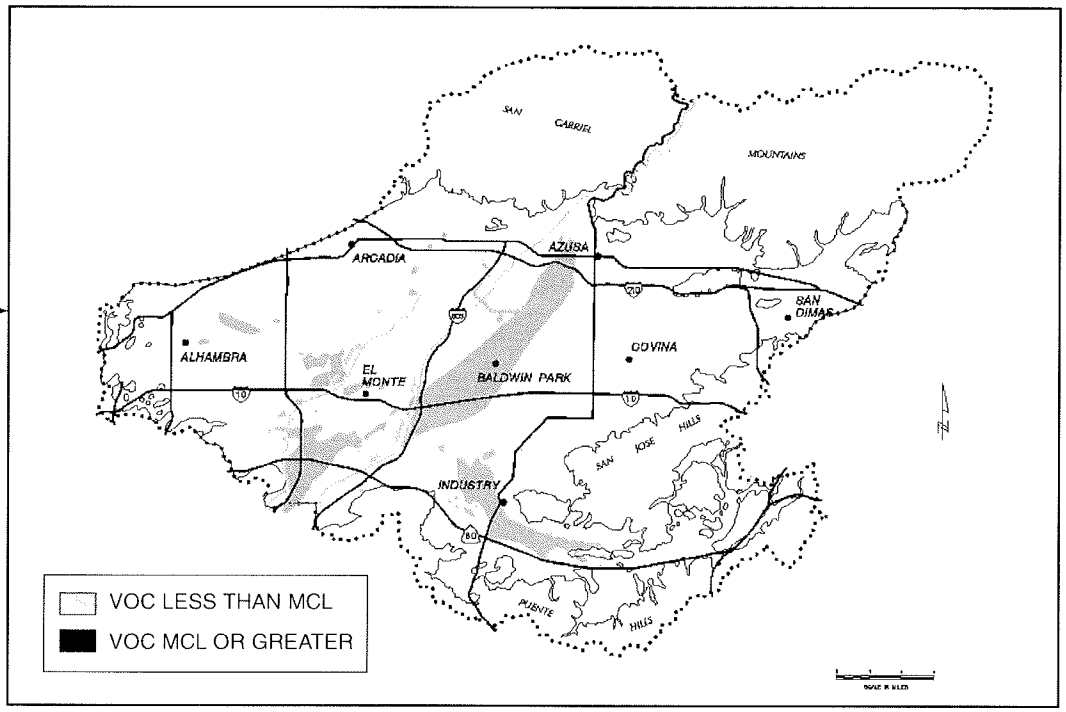
Note in Figure 6 that although VOC contamination is substantial, it is centered in just a few areas, leaving a good portion of the Basin unaffected. The same is true for nitrates, which have the highest concentrations in the eastern portion of the Basin, away from the most productive pumping areas (see 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.

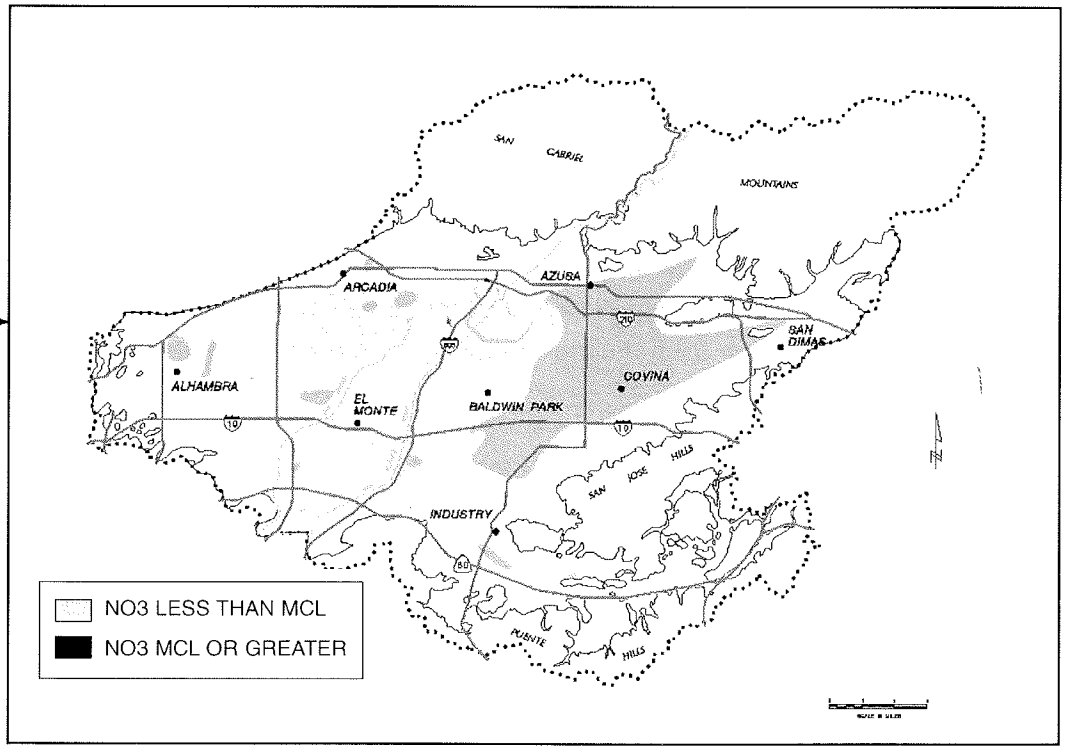
Extensive cleanup programs are underway in the areas affected by VOC contamination. Because the main plumes of contamination are centered in just a few areas, much of the Basin remains unaffected.

## 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.

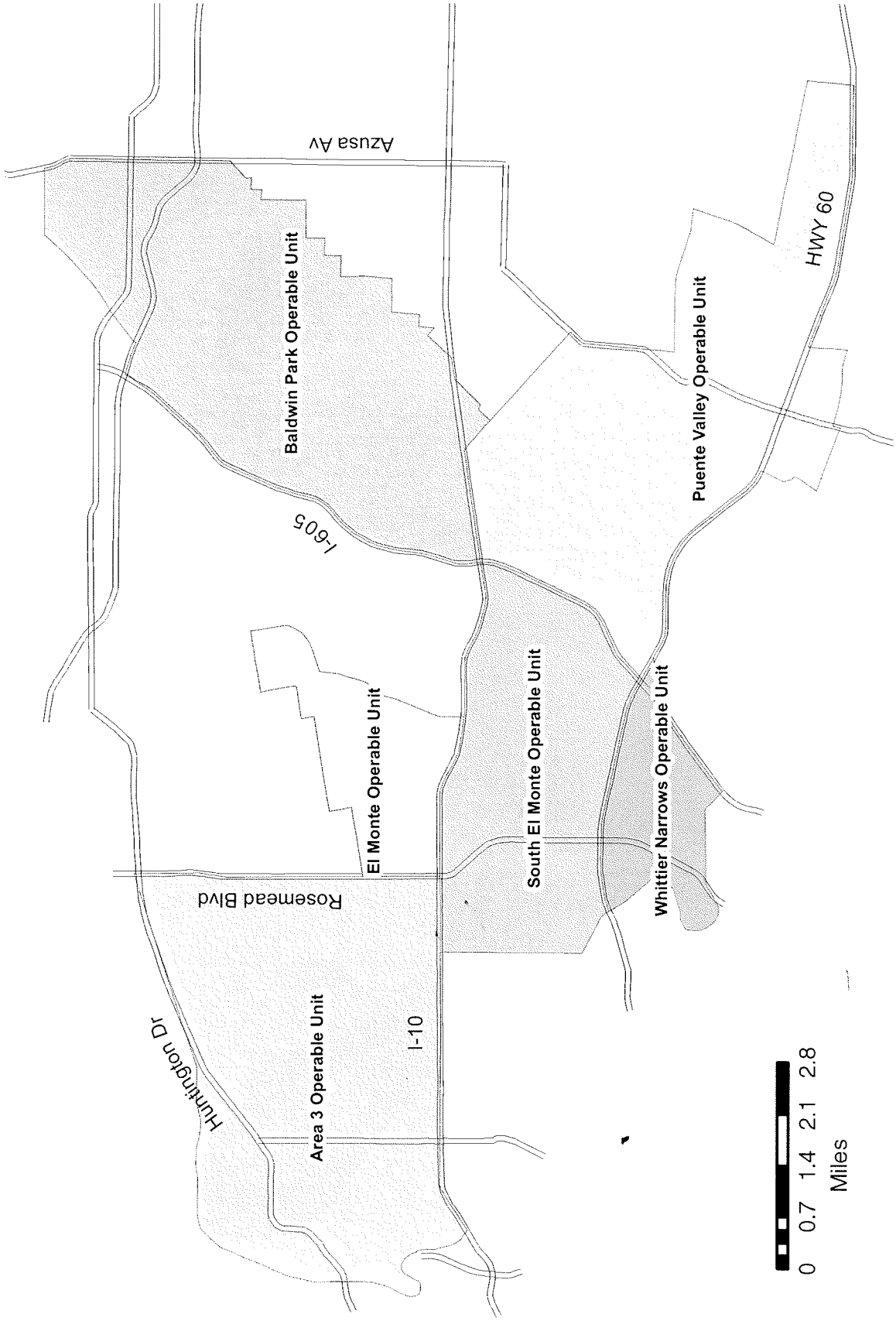
In areas where the groundwater supply has been affected by contamination, Watermaster works with affected Producers and other local water agencies to implement cleanup as quickly as possible, with or without the cooperation of the Responsible Parties. Watermaster and affected Producers continue to seek cost recovery from the Responsible Parties for any cleanup costs they incur.

### BALDWIN PARK OPERABLE UNIT (BPOU)

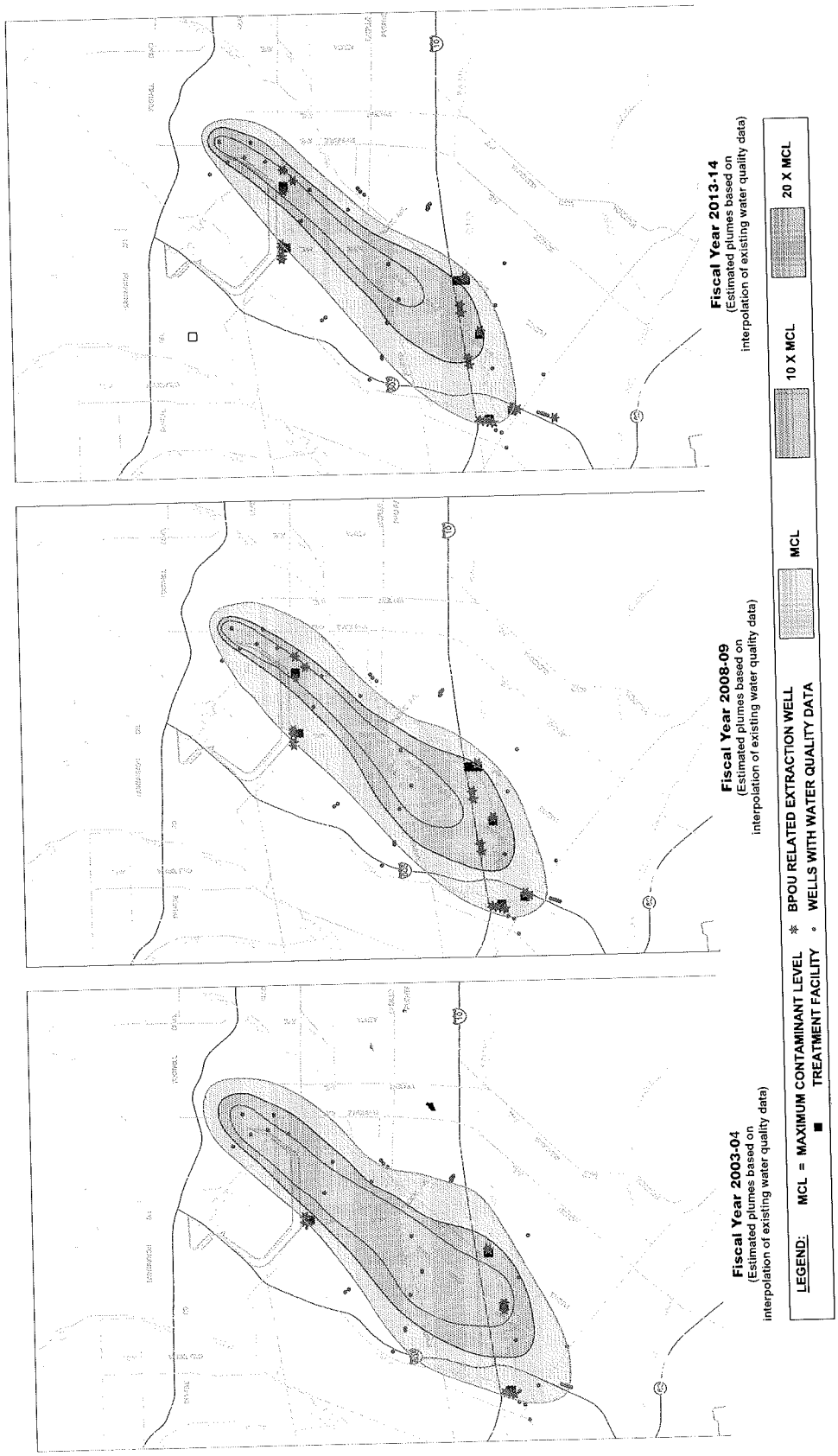
The BPOU is a seven-mile-long, one-mile-wide area of groundwater contamination that lies east of the San Gabriel River, stretching from an area north of the I-210 freeway in Azusa to south of the I-10 freeway in Baldwin Park (see Figure 12). The contamination has primarily resulted from improper use 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

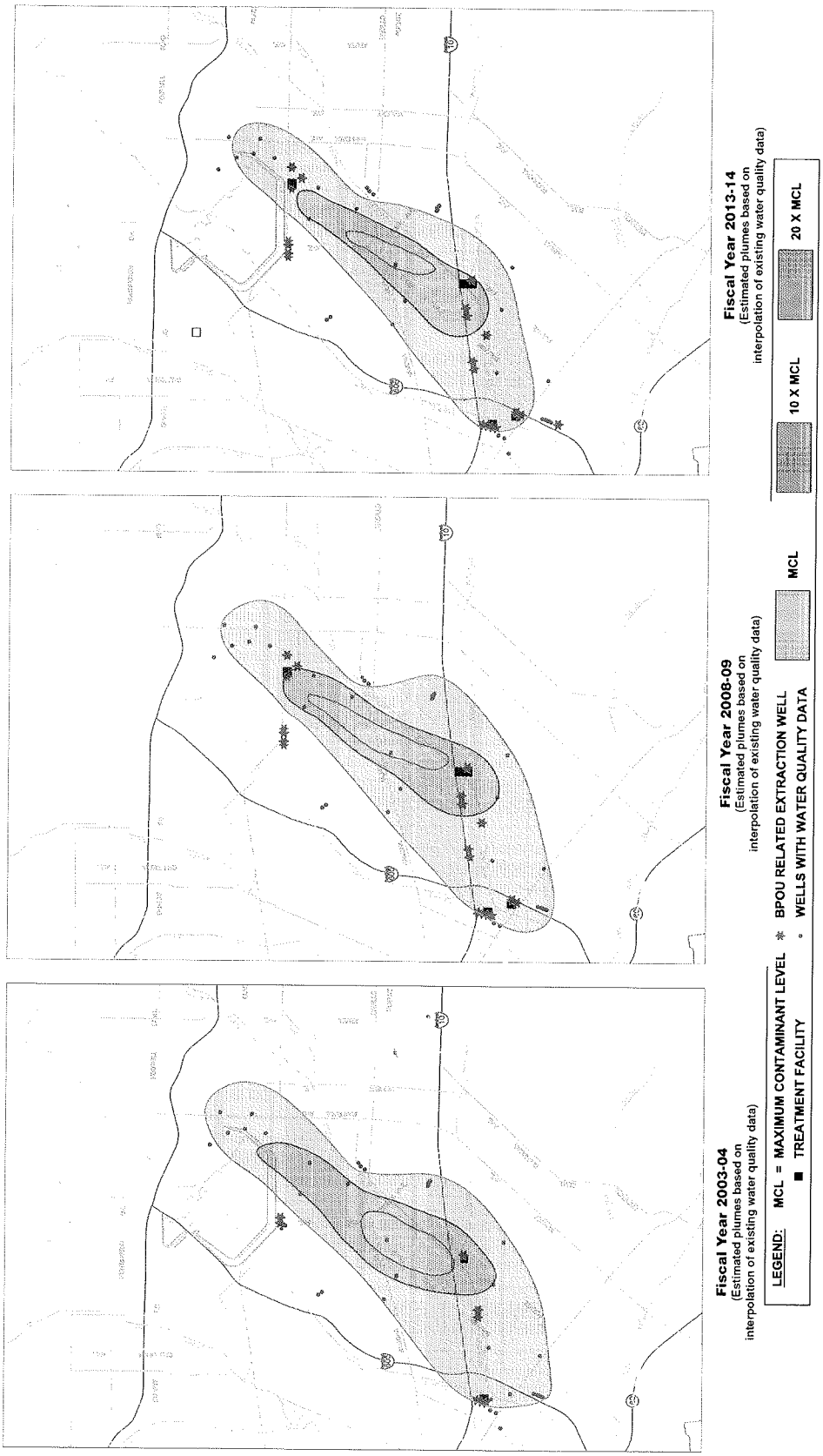


Figure 14. LOCATION MAP OF BPOU

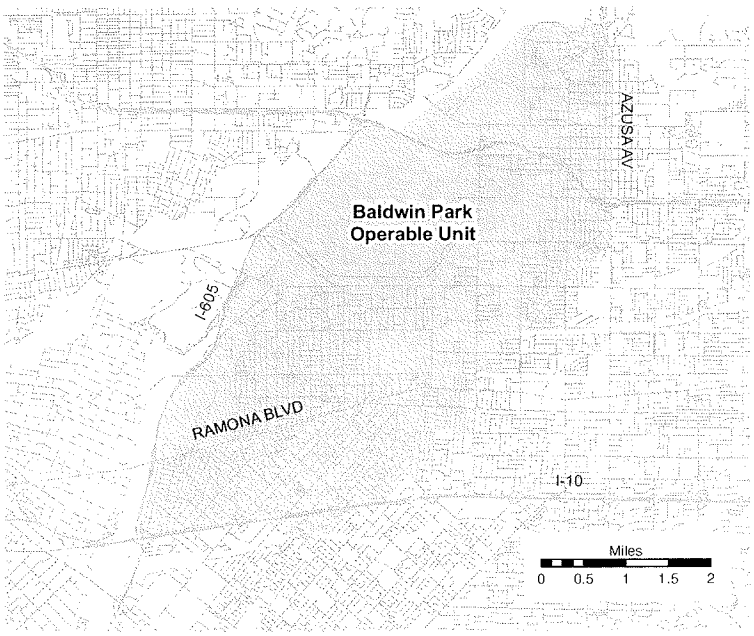



Figure 15. LOCATION MAP OF SEMOU

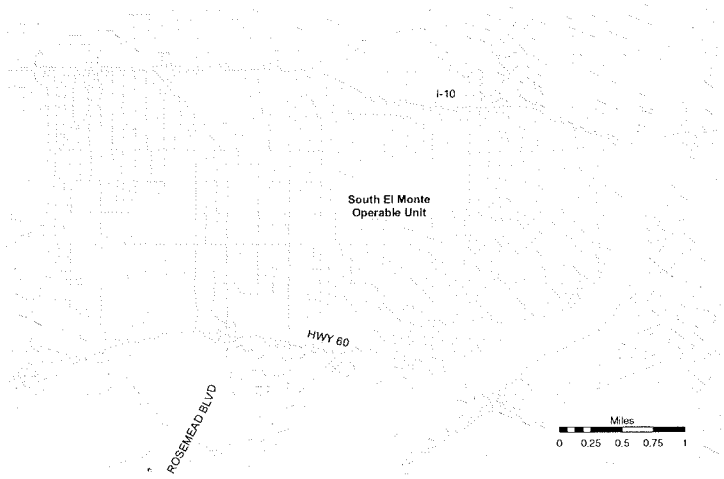



Figure 16. LOCATION MAP OF EMOU

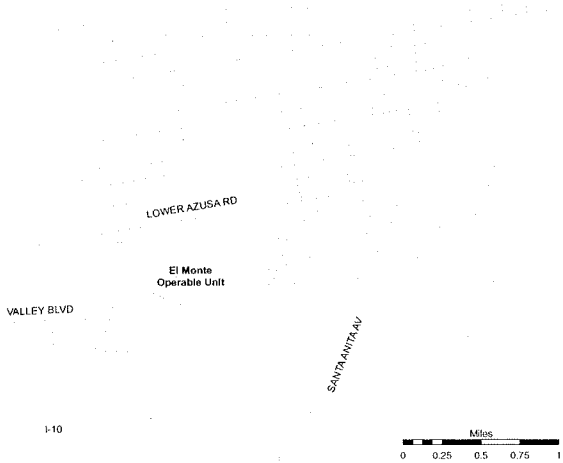


Figure 17. LOCATION MAP OF PVOU

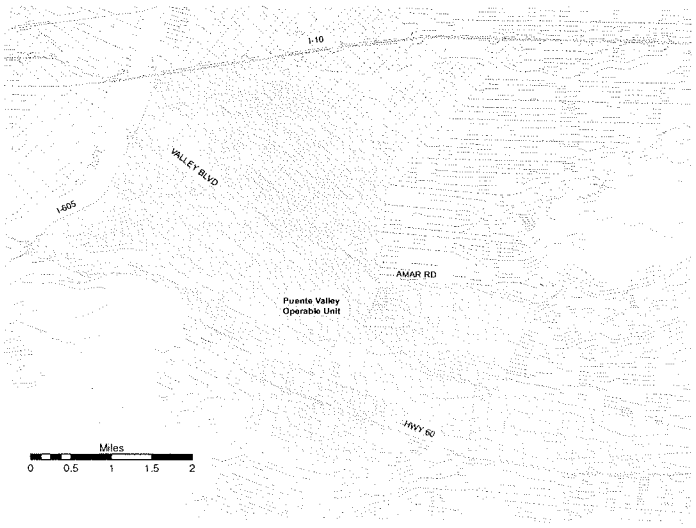



Figure 18. LOCATION MAP OF WNOU

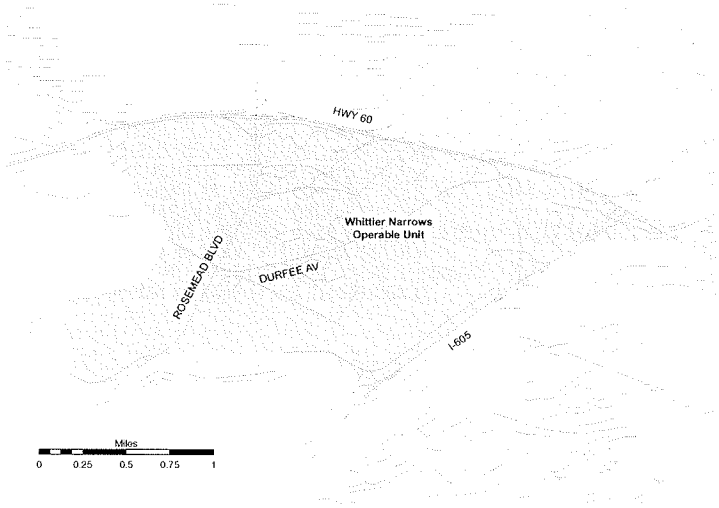
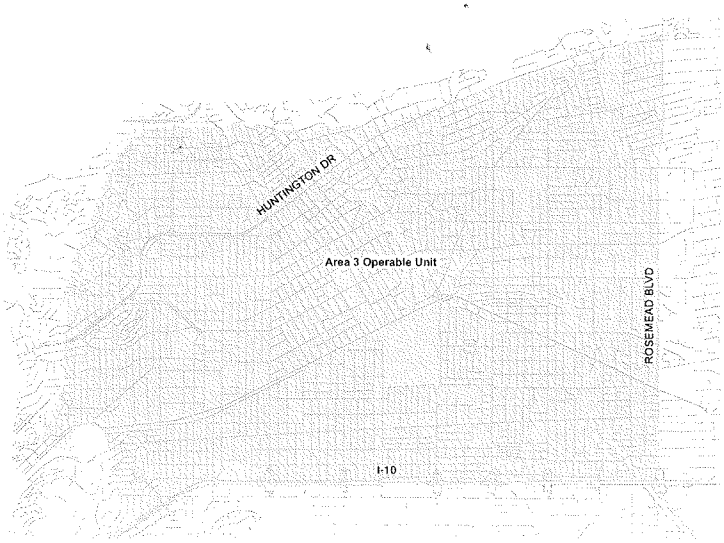



Figure 19. LOCATION MAP OF AREA 3



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 |

## 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 |
| 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 |

## 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 |
| **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 |

## 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: | | 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 |

## 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 |
| 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** | | | | | | | | | |

## 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 |
| 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 |

## 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 |
| 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 |

## 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 |
| **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 |

## 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 |
| 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 |

## 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 |
| 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<br>03 | 1902816<br>8000121 | ACTIVE<br>ACTIVE | 212.14 | 215.26 | 3.12 | IMPACT FROM SGVWC EXTRACTION |
| **VULCAN MATERIALS COMPANY (CALMAT COMPANY)** | | | | | | |
| DUR E<br>DUR W | 1902920<br>8000063 | ACTIVE<br>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<br>BAL 2 | 1900885<br>1900883 | ACTIVE<br>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<br>09-E<br>12-G | 1900829<br>1900830<br>1900827 | ACTIVE<br>ACTIVE<br>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<br>13-E | 1901523<br>8000184 | ACTIVE<br>ACTIVE | 562.55 | 562.27 | -0.28 | |
| 02-E | 1901526 | ACTIVE | 563.46 | 563.22 | -0.24 | |
| 03-G<br>04-E | 1901525<br>1901524 | INACTIVE<br>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<br>SOUTH | 1901178<br>1902806 | ACTIVE<br>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<br>201W-9 | 1901433<br>8000208 | ACTIVE<br>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<br>09 | 1900026<br>1902792 | ACTIVE<br>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<br>EW4-9 | 8000200<br>NA | REMEDIAL<br>REMEDIAL | 179.03 | 179.42 | 0.39 | WNOU EXTRACTION |
| EW4-6<br>EW4-10 | 8000201<br>NA | REMEDIAL<br>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<br>02 | 8000051<br>8000052 | ACTIVE<br>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 | |

## 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 | |
| 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 | |

## 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 | 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 | |

## 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 | |
| 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 | |

## 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 | |
| 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 | |

## 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 | |
| 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 | |

## 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 | |
| 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 | |

## 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 | |
| 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** | | | | | | | | | |

## 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 | |
| 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 | |

## 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 | |
| **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

## 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 | |
| | | | | 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 | |

## 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 | |
| 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 | |

## 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 | |
| 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 | |

## 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 | |
| | | | | 1,2-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 | |

## 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 | |
| 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 | |

## 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 | 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 |

## 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 | 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** | | | | | | | | | |

## 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 | |
| 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 | |

## 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 | |
| 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 | |

## 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 | |
| | | | | 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 | |

## 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 | |
| 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

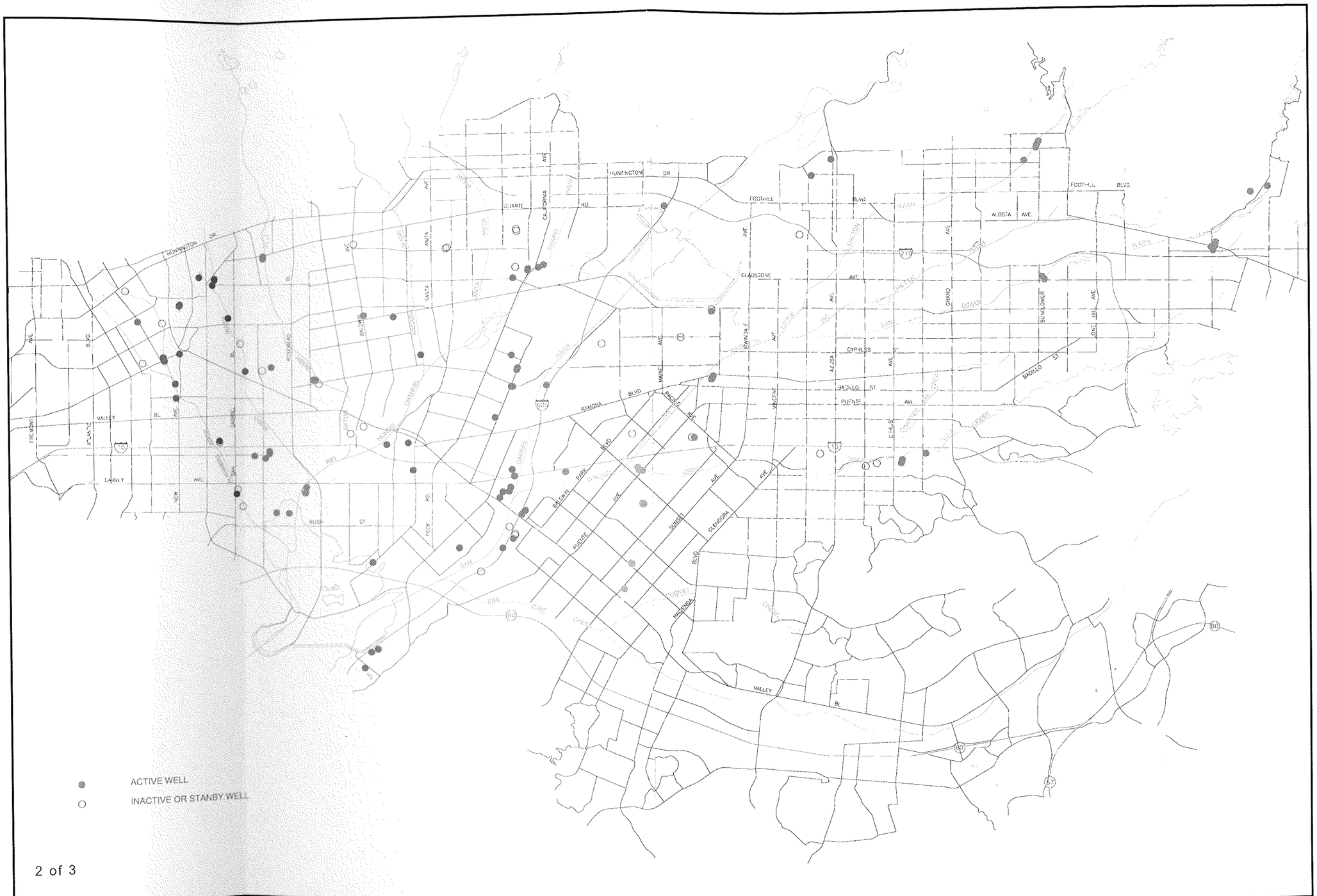

APPROXIMATE SCALE
6,000' 0 6,000'

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


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

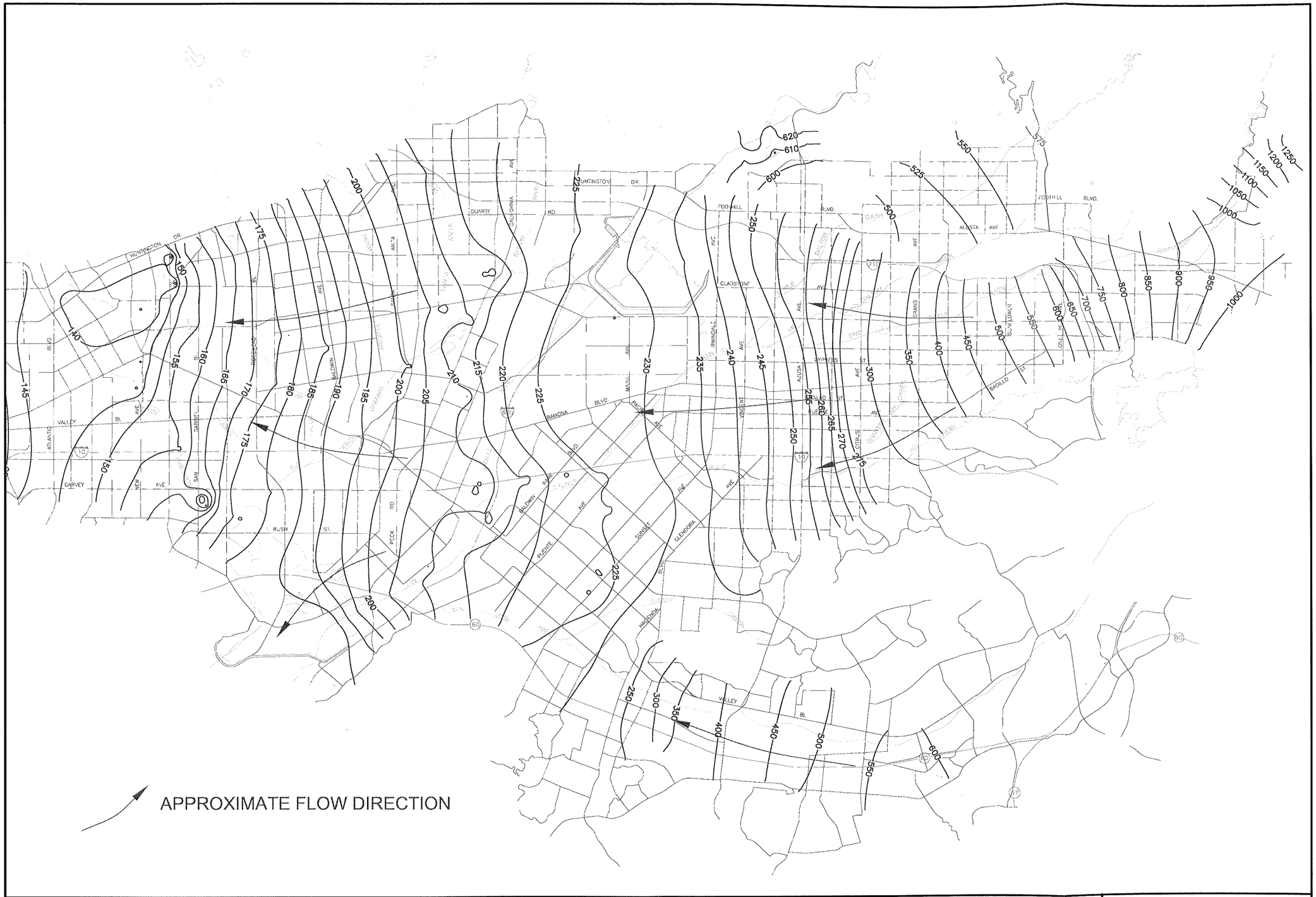
WELLS VULNERABLE TO PERCHLORATE CONTAMINATION
WITHIN THE NEXT FIVE YEARS (2009-14)

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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Mesa Arizona 85202

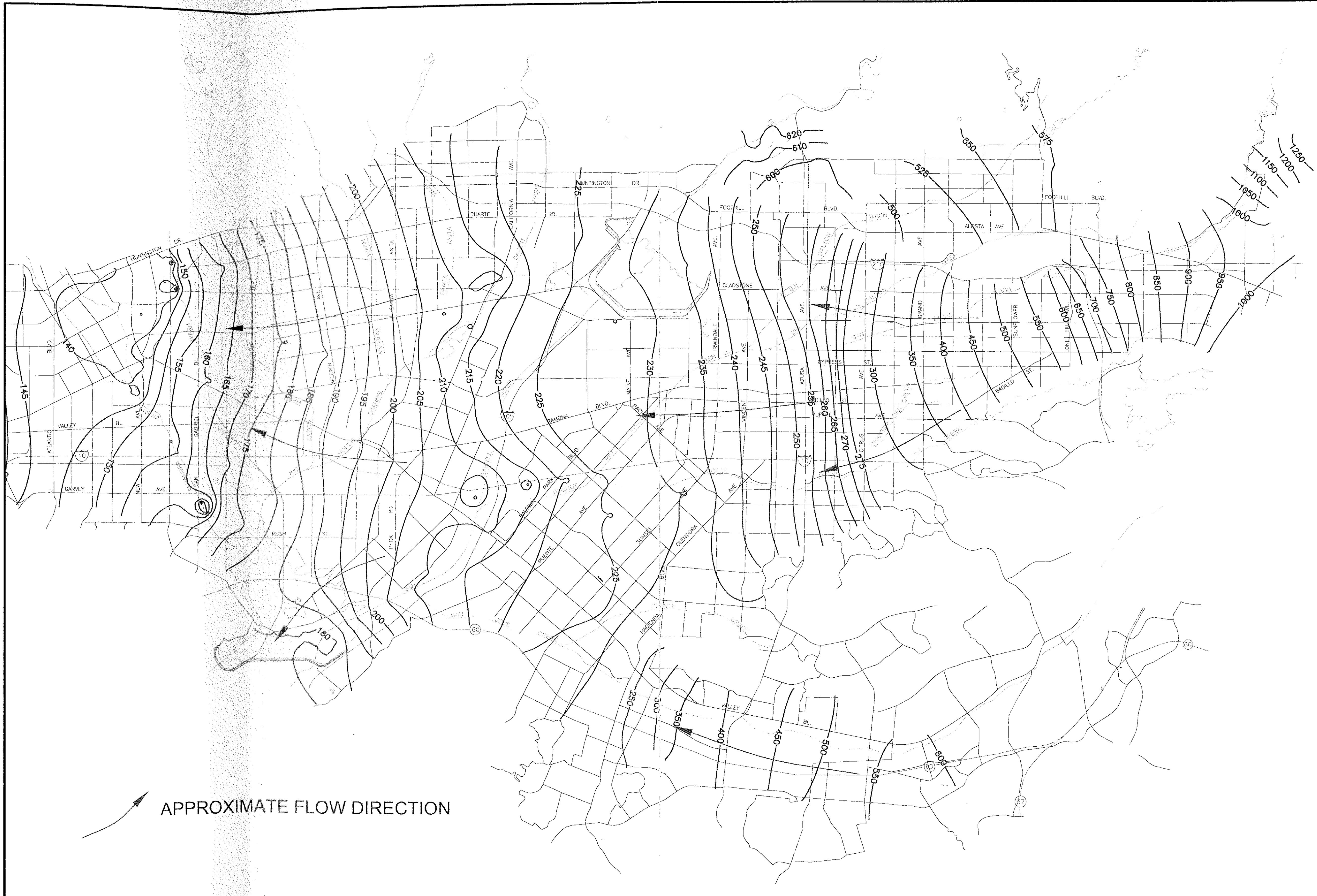

APPROXIMATE SCALE
6,000' 0 6,000'

MAIN SAN GABRIEL BASIN WATERMASTER

# SIMULATED 2008-09 BASIN GROUNDWATER CONTOURS

MainSanGabrielBasin WATERMASTER

Figure 10

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Mesa Arizona 85202

STETSON ENGINEERS INC.

APPROXIMATE SCALE
6,000' 0 6,000'

MAIN SAN GABRIEL BASIN WATERMASTER

SIMULATED 2013-14 BASIN GROUNDWATER CONTOURS

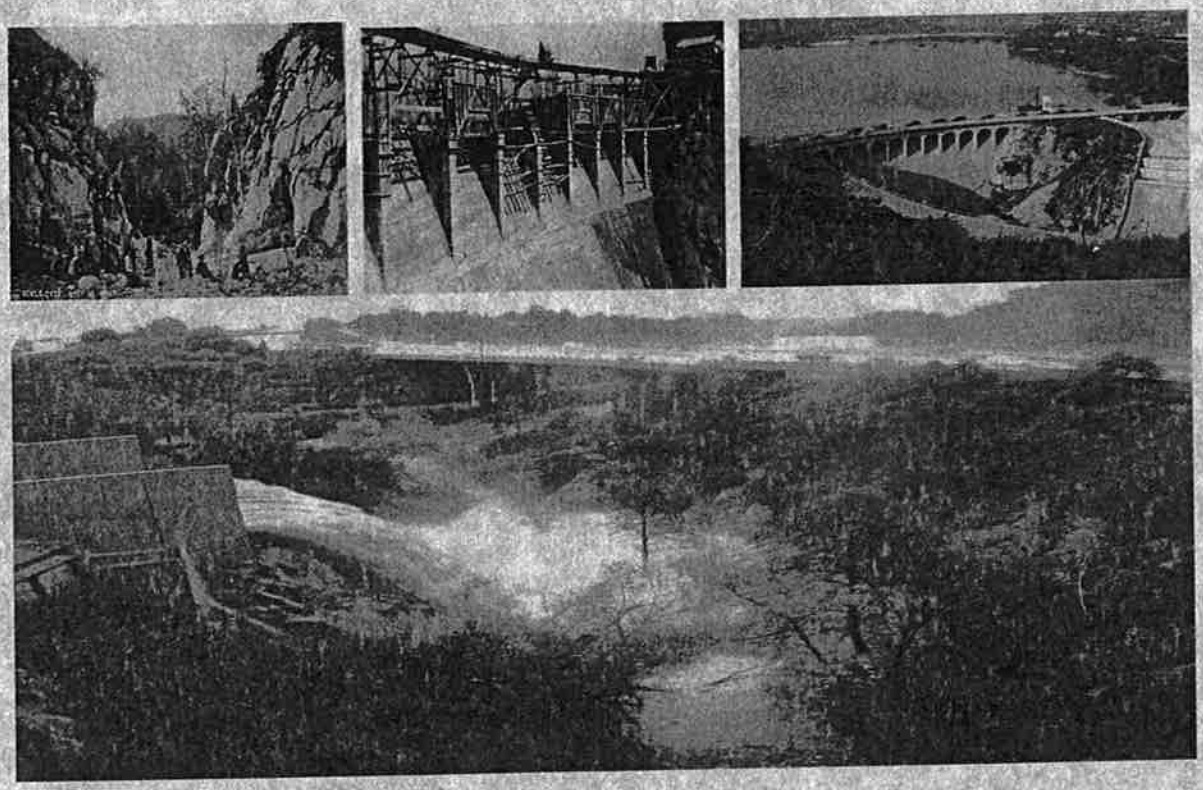
MainSanGabrielBasin WATERMASTER

# APPENDIX I

# RAYMOND BASIN ANNUAL REPORT

# RAYMOND BASIN MANAGEMENT BOARD

ANNUAL



# REPORT

## JULY 1, 2009 – JUNE 30, 2010

## SEPTEMBER 2010

RAYMOND BASIN MANAGEMENT BOARD
725 NORTH AZUSA AVENUE • AZUSA, CA 91702 • PHONE (626) 815-1300 • FAX (626) 815-1303

# WATERMASTER SERVICE IN THE RAYMOND BASIN

July 1, 2009 – June 30, 2010

September 2010

## MISSION STATEMENT

*The Raymond Basin Management Board is responsible for managing the current and future quality and quantity of water resources for the benefit of its members and the communities they serve.*

## FOREWORD

The Raymond Basin Management Board, as Watermaster, is pleased to submit this report on water supply conditions in the Raymond Basin during the 2009-10 fiscal year. It is prepared annually in accordance with the provisions of the Superior Court of California, County of Los Angeles Judgment in the City of Pasadena vs. City of Alhambra, et al., Case No. Pasadena C-1323.

The Watermaster utilizes the services of the Raymond Basin Staff, Stetson Engineers, and Geoscience Support Services Inc. to prepare the annual report. This report summarizes the Watermaster work, conditions of groundwater supply, water use, storage, groundwater replenishment, and gives a financial summary for the fiscal year.

The Raymond Basin Staff wishes to acknowledge and express appreciation for the assistance and support received from the public and private parties and the individuals whose contributions were essential to the preparation of this report.

**BOARD OF DIRECTORS**
**2009-10**

Shan Kwan, Chairman
*City of Pasadena*

Charles E. Shaw, Vice Chair
*San Gabriel County Water District*

Robert J. Hayward, Secretary
*Monk Hill Subarea*

Chris Cimino, Treasurer
*City of Sierra Madre*

Mary K. Swink
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*California-American Water Company*

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Lillian Wood
*Rubio Cañon Land & Water Association*

Ken Tcheng
*Sunny Slope Water Company*

Anthony Zampiello, Executive Officer
Assistant Secretary Treasurer

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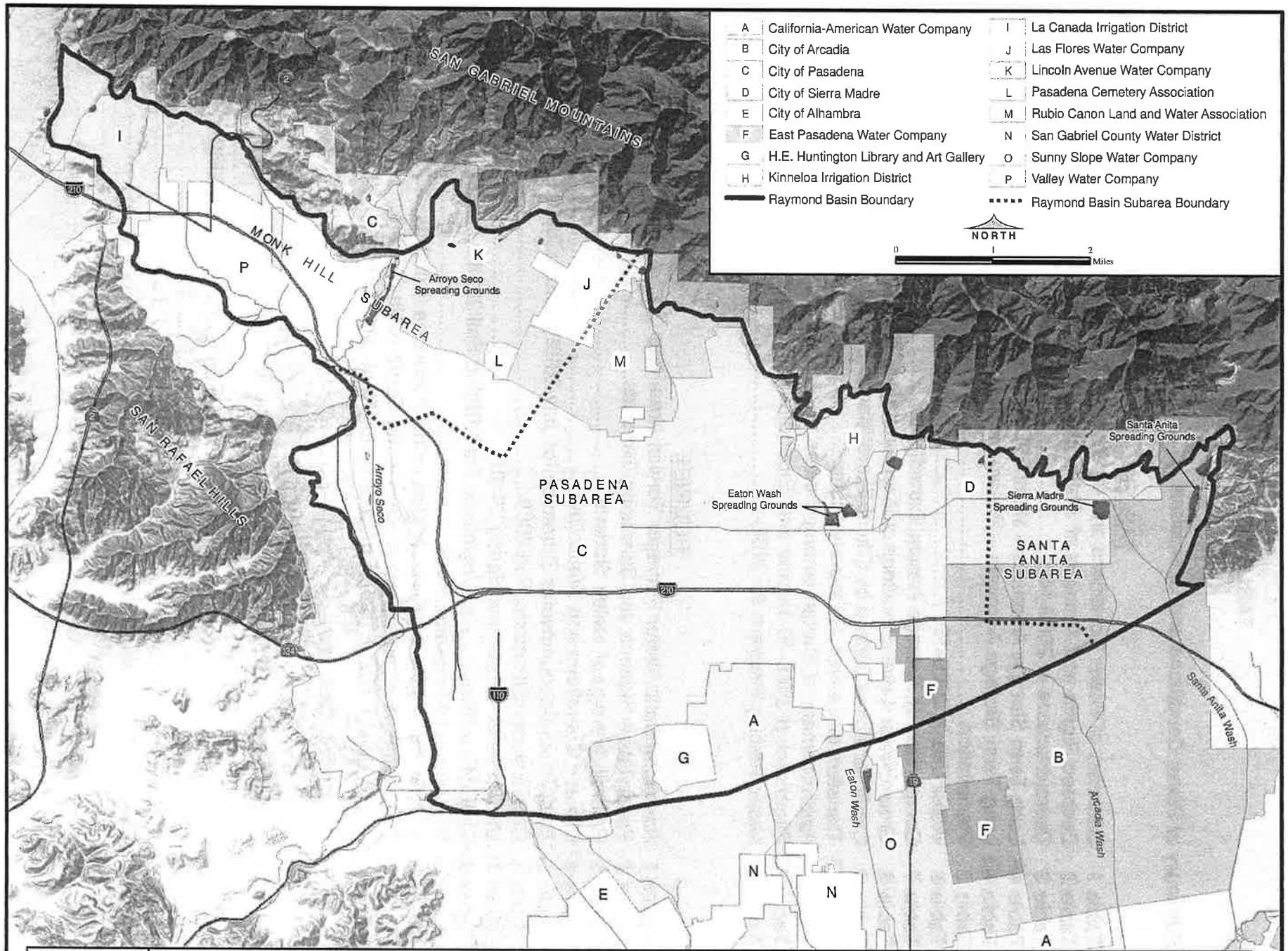



**FIGURE 1** WATER SERVICE AREAS OF PARTIES TO RAYMOND BASIN WATERMASTER SERVICE

GEOSCIENCE

## SUMMARY OF WATER CONDITIONS AND OPERATIONS

Summarized below and in Tables 1 to 4 are highlights of operations for the current fiscal year. Details of the operations and the historic and operational data follow these tables.

1. Precipitation (Tables 1 and 5; Figures 2, 3, and 4)

   Precipitation has increased significantly from the previous year (26.93 inches during 2009-10 versus 16.10 inches during 2008-09) approximately 113% percent of 50 year mean (23.76 inches).

   Water spread in the Basin increased by 37 % from last fiscal year (6,514 acre feet during 2009-10 versus 4769.4 acre feet during 2008-09)

2. Groundwater Levels Measured in October 2009 and April 2010 (Table 8; Figures 8-12)

   Although water levels have continued to fluctuate throughout the Basin, during the 2009-10 fiscal year, greater increases occurred in the Monk Hill Subarea and southern portions of the Pasadena Subarea. Although some levels in the northern part of the Pasadena and Santa Antia Subareas showed moderate decreases, the western portion of the Pasadena Subarea displayed the most significant decline in groundwater levels. (Figure 8)

3. Water Quality Monitoring Program in the Raymond Basin

   Water in the Basin continues to be of good quality in regard to most constituents except for a few sources with high fluoride concentrations in the foothills and high nitrate concentrations in the Monk Hill Subarea and Pasadena Subarea. Volatile organic compound (VOC) contaminants have been detected in several areas, particularly in the Arroyo Seco.

   In late June of 1997, perchlorate, a previously unknown contaminant, was detected in several basin wells and several monitoring wells at the JPL Superfund site.

4. Nonparty Pumpers

   There was no nonparty production.

5. JPL Superfund Clean-Up Project

Progress has been made over the past few years with respect to groundwater cleanup efforts by the National Aeronautics and Space Administration (NASA) Jet Propulsion Laboratory (JPL). NASA funded and completed the installation of a 2,000 gpm ion exchange treatment plant at Lincoln Avenue Water Company in July 2004. It is within the area known as OU-1 under a clean-up order issued by the USEPA for the removal of Perchlorate. The intent is to contain high levels of VOC's and Perchlorate that are known to be migrating from beneath the JPL property.

Additionally, NASA owns and operates a Bio-remediation treatment plant located on the JPL site intended to intercept high level contaminants at the source. A new extraction (EW-3) and injection well (IW-3) were added to the OU-1 system and began operation in October 2007. This plant extracted, treated and re-injected 431.27 acre-feet of groundwater from July 1, 2009 through June 30, 2010 (detailed production and injection data contained in Appendix G).

6. Cost Account for Water Salvaged by Sierra Madre (Table 12)

Expenditures during 2009-10 totaled $1,631.

7. Over Extractions (Table 3)

There were no over extractions.

8. Meters Tested (Table 13)

The Management Board requires annual testing of well water production meters. Meters recording more than 5% slow require adjustment to production records. Meters recording fast are the responsibility of the party to adjust.

36 production meters were tested under the program. Some production meters within the basin were not able to be tested this year because of operational and water quality issues.

9. Long Term Storage Accounts, (Table 4A and 4B)

The Management Board affirmed the previously approved 1.0 percent loss factor and $1.50 administrative charge per acre foot for the 2009-10 fiscal year. A net decrease of 485.3 acre-feet in Long Term Storage occurred between July 1, 2009 and June 30, 2010. Beginning June 30, 2009 Long Term Storage Accounts in the Pasadena Subarea will not be allowed to increase in size beyond certified 2007-2008 amounts.

## TABLE 1. SUMMARY OF WATER CONDITIONS AND OPERATIONS

| Item | 2008-09 Fiscal Year | 2009-10 Fiscal Year | Change From Previous Fiscal Year |
|---|---|---|---|
| Number of: | | | |
| Parties | 16 | 16 | 0% |
| Active pumpers | 15 | 15 | 0% |
| Active non-parties | 2 | 2 | 0% |
| Watermaster expenses | $328,545.00 | $256,806.00 | -22% |
| Valley rainfall, in inches | 16.10 | 26.93 | 67% |
| Spreading operation, in acre feet | 4,769 | 6,514 | 37% |
| "Decreed Right", in acre feet | 30,622 | 30,622 | |
| Water Use, in acre feet: | | | |
| Extractions | 29,737 | 24,696 | -17% |
| Surface water diversions | 774 | 668 | -14% |
| Imported water | 38,560 | 34,924 | -9% |
| Exported water | (1,794) | (1,077) | -40% |
| Net water use | 67,276 | 59,212 | -12% |

# TABLE 2. DECREED RIGHTS AND AMOUNTS OF WATER EXTRACTED AND EXCHANGED

(acre feet)

| Party Name | "Decreed Right, 1955" (1a) | 6% Reduction Pasadena Subarea 2009-10 (1b) | Decreed Right Carryover From 2008-09 (2) | Net Leases 1/ (3) | Prior Year Spread Credit (4) | Long Term Storage Activity 2/ (5) | Injection (6) | Adjustments (7) | Allowable Extraction 2009-10 +(1 thru 7) (8) | Amount Extracted (9) | Balance (8)-(9) (10) | Carryover into 2010-11 (11) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Monk Hill Subarea** | | | | | | | | | | | | |
| La Canada Irrigation District | 100.0 | | 10.0 | (75.0) | 0.0 | 55.4 | 0.0 | 183.1 * | 273.6 | 273.6 | 0.0 | 0.0 |
| Las Flores Water Company | 249.0 | | 0.0 | (20.0) | 72.0 | 5.8 | 0.0 | 0.0 | 306.8 | 306.8 | 0.0 | 0.0 |
| Lincoln Avenue Water Company | 567.0 | | 0.0 | 269.5 | 140.3 | 0.0 | 16.8 | 0.0 | 993.6 | 1,072.6 | (79.0) | (79.0) |
| Pasadena, City of | 4,464.0 | | 446.4 | (146.3) | 867.7 | 0.0 | 0.0 | (2,496.2) | 3,135.6 | 2.8 | 3,132.8 | 446.4 |
| Pasadena Cemetery Association | 91.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.0 | 85.9 | 5.1 | 5.1 |
| Rubio Canon Land & Water Assn. | 1,221.0 | | 26.3 | 0.0 | 38.7 | 0.0 | 0.0 | 0.0 | 1,286.0 | 1,212.4 | 73.6 | 73.6 |
| Valley Water Company | 797.0 | | 39.6 | (28.2) | 0.0 | 101.4 | 0.0 | 0.0 | 909.8 | 909.8 | 0.0 | 0.0 |
| **Subtotal** | **7,489.0** | | **522.3** | **0.0** | **1,118.7** | **162.6** | **16.8** | **(2,313.1)** | **6,996.4** | **3,863.8** | **3,132.5** | **446.2** |
| **Pasadena Subarea** | | | | | | | | | | | | |
| Alhambra, City of | 1,031.0 | (61.86) | 103.1 | 0.0 | 0.0 | (36.0) | 0.0 | 0.0 | 1,036.2 | 0.0 | 1,036.2 | 103.1 |
| Arcadia, City of | 2,118.0 | (127.08) | 211.8 | 0.0 | 0.0 | (15.9) | 0.0 | 0.0 | 2,186.8 | 1,585.5 | 601.4 | 211.8 |
| California-American Water Company | 2,299.0 | (137.94) | 229.9 | 0.0 | 0.0 | (19.5) | 0.0 | 0.0 | 2,371.5 | 1,692.1 | 679.4 | 229.9 |
| East Pasadena Water Company | 515.0 | (30.90) | 51.5 | 0.0 | 0.0 | (3.3) | 0.0 | 0.0 | 532.3 | 359.3 | 173.1 | 51.5 |
| H.E. Huntington Library & Art Gallery | 372.0 | (22.32) | 37.2 | 0.0 | 0.0 | (4.6) | 0.0 | 0.0 | 382.3 | 341.8 | 40.4 | 37.2 |
| Kinneloa Irrigation District | 516.0 | (30.96) | 46.6 | 50.0 | 95.7 | (7.9) | 0.0 | 0.0 | 669.4 | 617.8 | 51.6 | 51.6 |
| Pasadena, City of | 8,343.0 | (500.58) | 0.0 | 0.0 | 388.7 | 0.0 | 0.0 | 2,346.4 ** | 10,577.5 | 10,577.5 | 0.0 | 0.0 |
| San Gabriel County Water District | 1,091.0 | (65.46) | 109.1 | (50.0) | 0.0 | (33.0) | 0.0 | 0.0 | 1,051.6 | 0.0 | 1,051.6 | 109.1 |
| Sunny Slope Water Company | 1,558.0 | (93.48) | 155.8 | 0.0 | 0.0 | (34.3) | 0.0 | 0.0 | 1,586.0 | 686.2 | 899.8 | 155.8 |
| **Subtotal** | **17,843.0** | **(1,070.6)** | **945.0** | **0.0** | **484.4** | **(154.5)** | **0.0** | **2,346.4** | **20,393.8** | **15,860.2** | **4,533.6** | **950.0** |
| **Western Unit total** | **25,332.0** | **(1,070.6)** | **1,467.3** | **0.0** | **1,603.1** | **8.1** | **16.8** | **33.4** | **27,390.1** | **19,724.0** | **7,666.1** | **1,396.2** |
| Recapitulation for City of Pasadena | 12,807.0 | (500.6) | 446.4 | (146.3) | 1,256.4 | 0.0 | 0.0 | 0.0 | 13,713.2 | 10,580.3 | 3,132.8 | 446.4 |
| **Santa Anita Subarea** | | | | | | | | | | | | |
| Arcadia, City of | 3,526.0 | | 352.6 | 0.0 | 0.0 | N/A | 0.0 | 0.0 | 3,878.6 | 2,448.5 | 1,430.2 | 352.6 |
| Sierra Madre, City of | 1,764.0 | | 0.0 | 0.0 | 5,133.2 | N/A | 0.0 | 0.0 | 6,897.2 | 2,524.5 | 4,372.7 | 4,372.7 |
| **Subtotal** | **5,290.0** | | **352.6** | **0.0** | **5,133.2** | **0.0** | **0.0** | **0.0** | **10,775.8** | **4,972.9** | **5,802.9** | **4,725.3** |
| **RAYMOND BASIN TOTAL** | **30,622.0** | | **1,819.9** | **0.0** | **6,736.3** | **8.1** | **16.8** | **33.4** | **38,165.9** | **24,696.9** | **13,469.0** | **6,121.5** |

1/ See Table 10 for details concerning leases and sales
2/ See Table 4 for Long Term Storage accounting
* Foothill CUP adjustments
** Includes 6% reduction of 2496.2 AF of the adjustment from Monk Hill

TABLE 3. OVEREXTRACTIONS IN 2009-10
(acre feet)

| Party | "Decreed Right 1955" (1) | Allowable Carryover from 2007-08 (2) | Net Leases and Prior Year Spreading Credit (3) | Long Term Storage Program (4) | Allowable Extractions +(1 thru 4) (5) | Amount Extracted (6) | Overextraction[1/] | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Amount (6)-(5) (7) | Allowable 10% of (1) (8) | In Percent (7) / (1) (9) |
| **Monk Hill Subarea** | | | | | | | | | |
| None | | | | | | | | | |
| **Pasadena Subarea** | | | | | | | | | |
| None | | | | | | | | | |
| **Santa Anita Subarea** | | | | | | | | | |
| None | | | | | | | | | |

1/ Based on modification of Judgment dated March 26, 1984

# TABLE 4 A. LONG TERM STORAGE ACCOUNTS - MONK HILL SUBAREA
(acre feet)

| Party Name | Storage @ 6/30/09 | Added @ 6/30/10 | Loss @ 6/30/10 | Storage @ 6/30/10 | Maximum Storage | Exchanges | Adjusted Maximum Storage | Percentage of Storage Used |
|---|---|---|---|---|---|---|---|---|
| **Monk Hill Subarea** | | | | | | | | |
| La Canada ID | 632.5 | (55.4) | (5.7) | 571.4 | 2,300.0 | (1,400.0) | 900.0 | 63.5% |
| Las Flores WC | 407.5 | (5.8) | (4.0) | 397.7 | 900.0 | | 900.0 | 44.2% |
| Lincoln Avenue WC | 0.0 | 0.0 | 0.0 | 0.0 | 2,200.0 | | 2,200.0 | 0.0% |
| Pasadena Cemetery | 129.5 | 0.0 | (1.3) | 128.2 | 300.0 | | 300.0 | 42.7% |
| Pasadena, City | 18,500.0 1/ | 0.0 | (185.0) | 18,315.0 * | 13,400.0 | 3,900.0 | 17,300.0 | 105.9% * |
| Rubio Canon LW | 127.3 | 0.0 | (1.3) | 126.0 | 3,700.0 | (2,500.0) | 1,200.0 | 10.5% |
| Valley WC | 1,089.7 | (101.4) | (9.8) | 978.5 | 3,400.0 | | 3,400.0 | 28.8% |
| ***Monk Hill Total*** | ***20,886.5*** | ***(162.6)*** | ***(207.1)*** | ***20,516.8*** | ***26,200.0*** | ***0.0*** | **26,200.0** | ***78.3%*** |

1/ Pasadena, City - CSP water included in Long Term Storage Totals

| Subarea | CSP @ 6/30/09 | 1% Loss | CSP @ 6/30/10 |
|---|---|---|---|
| Monk Hill | 2,582.1 | (25.8) | **2,556.3** |

* Excess non-CSP water added to Perchlorate Treatment Pool
18,315.0 AF - 17,300 AF storage = 1,015 AF

LTS final total for 6/30/10 is 17,300 AF

# TABLE 4 B. LONG TERM STORAGE ACCOUNTS - PASADENA SUBAREA
(acre feet)

| Party Name | Capped Storage @ 6/30/09 | Added @ 6/30/10 | Loss @ 6/30/10 | Storage @ 6/30/10 | 6/30/10 Capped Storage | Percentage of Storage Used |
|---|---|---|---|---|---|---|
| **Pasadena Subarea** | | | | | | |
| Alhambra, City | 3,600.0 | 36.0 | (36.0) | 3,600.0 | 3,600.0 | 100.0% |
| Arcadia, City | 1,591.2 | 15.9 | (15.9) | 1,591.2 | 1,591.2 | 100.0% |
| Cal American WC | 1,951.9 | 19.5 | (19.5) | 1,951.9 | 1,951.9 | 100.0% |
| E. Pasadena WC | 327.1 | 3.3 | (3.3) | 327.1 | 327.1 | 100.0% |
| Huntington LAG | 461.1 * | 4.6 | (4.6) | 461.1 | 461.1 | 100.0% |
| Kinneloa ID | 790.0 | 7.9 | (7.9) | 790.0 | 790.0 | 100.0% |
| Pasadena, City 1/ | 11,562.8 | 0.0 | (115.6) | 11,447.2 | 11,447.2 | 99.0% |
| San Gabriel CWD | 3,300.0 | 33.0 | (33.0) | 3,300.0 | 3,300.0 | 100.0% |
| Sunny Slope | 3,437.0 | 34.3 | (34.3) | 3,437.0 | 3,437.0 | 100.0% |
| ***Pasadena Total*** | ***27,021.1*** | ***154.5*** | ***(270.1)*** | ***26,905.5*** | ***26,905.5*** | ***99.1%*** |

* Adjusted due to meter retest

1/ Pasadena, City - CSP water excluded in Long Term Storage Totals

| Subarea | CSP @ 6/30/09 | 1% Loss | CSP @ 6/30/10 |
|---|---|---|---|
| Pasadena | 17,281.8 | (172.8) | **17,109.0** |

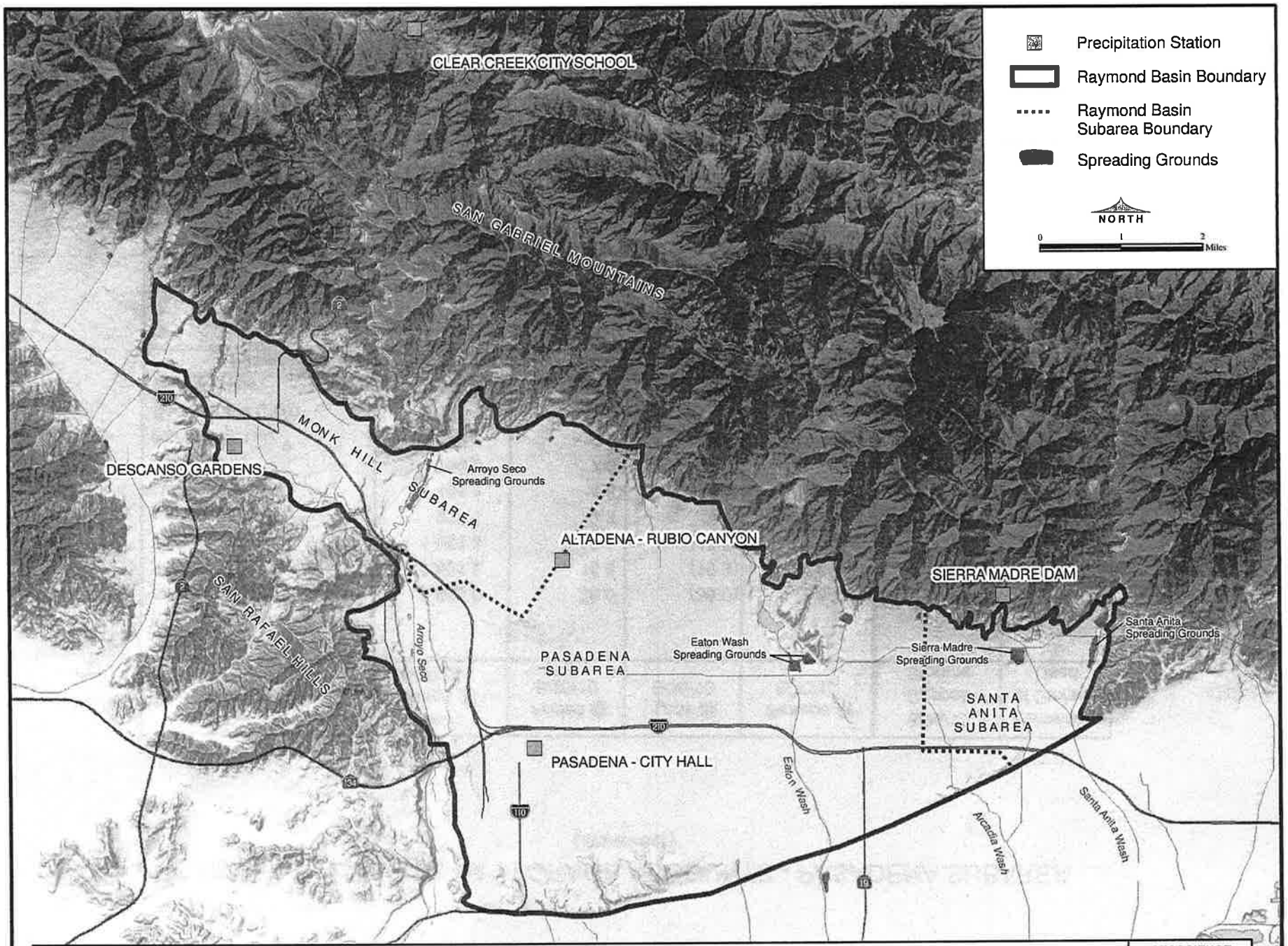



**FIGURE 2** PRECIPITATION STATIONS AND SPREADING GROUNDS

GEOSCIENCE

## TABLE 5. PRECIPITATION
(inches)

| Station 1/ | Station Location | Period of Record in Years | Precipitation 2008-09 | Precipitation 2009-10 | Precipitation 50-year Mean 2/ |
|---|---|---|---|---|---|
| Altadena-Rubio Canyon (Station 176) | Monk Hill/Pasadena | 108 | 16.42 | 24.65 | 23.08 |
| Descanso Gardens (Station 1071B) | Monk Hill | 93 | 14.04 | 28.56 | 23.18 |
| Pasadena City Hall (Station 610B) | Pasadena | N/A | 16.09 | 25.11 | N/A |
| Sierra Madre Dam (Station 144) 3/ | Santa Anita | 110 | 17.84 | 29.40 | 25.01 |
| Arithmetic Mean | | | 16.10 | 26.93 | 23.76 |

1/ Obtained from LACDPW. Station locations shown on Figure 2.
2/ 1896-97 to 1945-46
3/ Data was not available from Station 144 during March 2010 through June 2010. Therefore, Station 63C (Santa Anita Dam) was used for the months of March 2010 through June 2010.

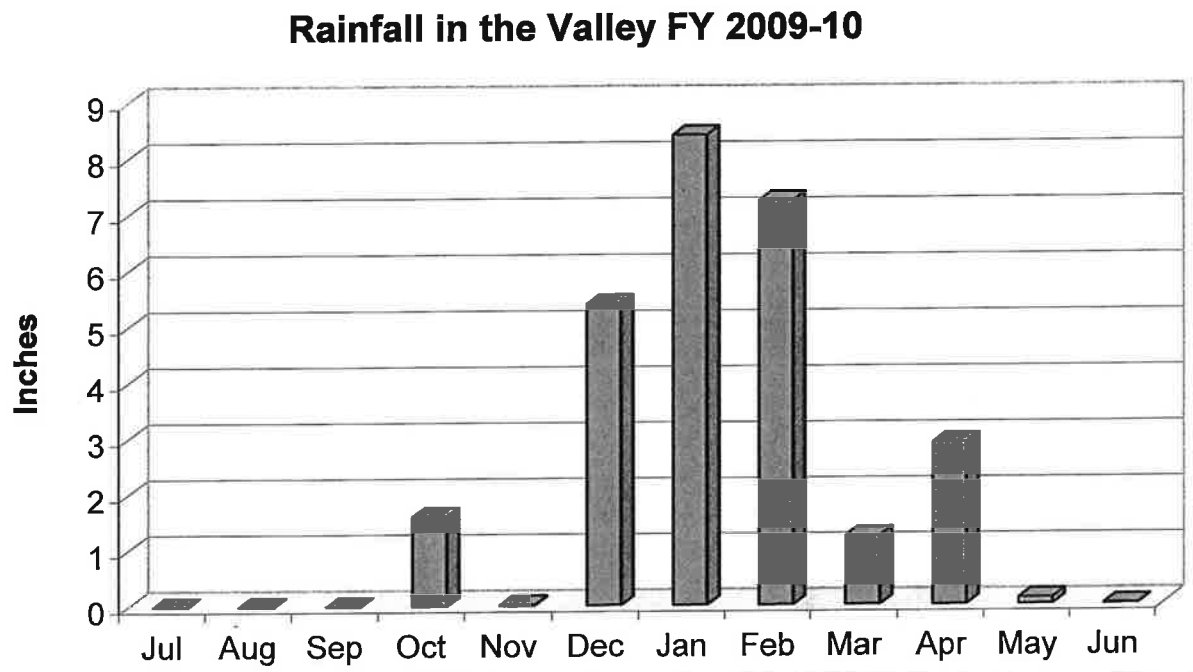



**FIGURE 3 - AVERAGE RAINFALL 4/**

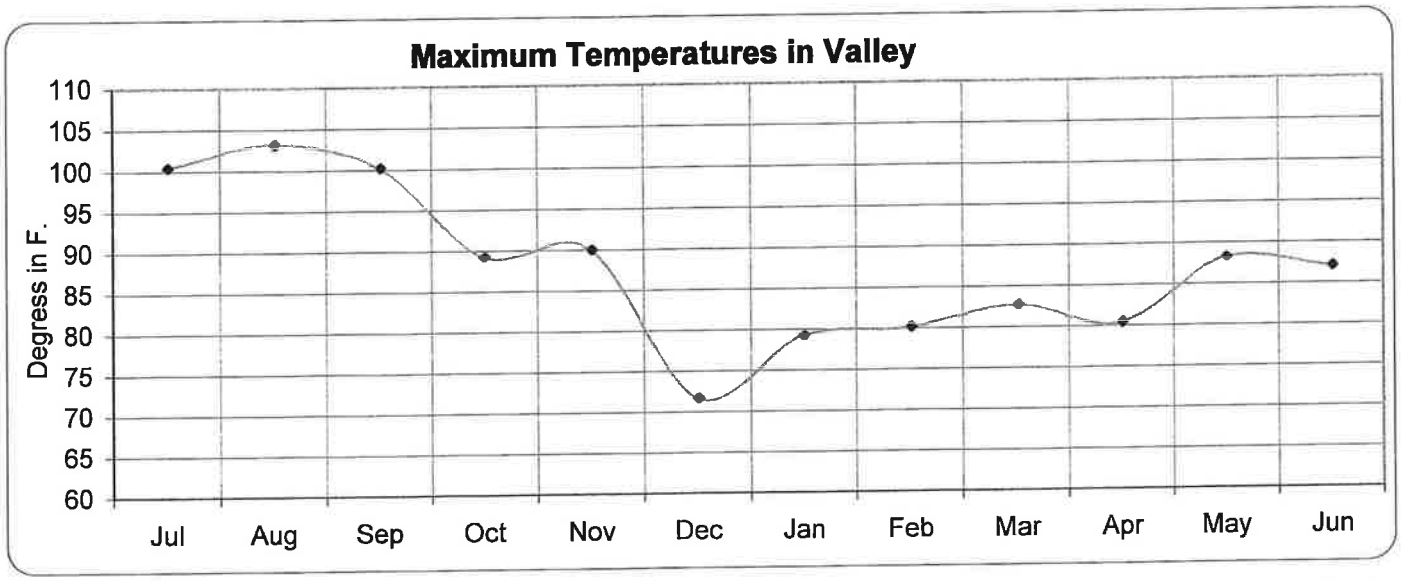
4/ Average of Stations 176, 1071B, 610B, and 144.

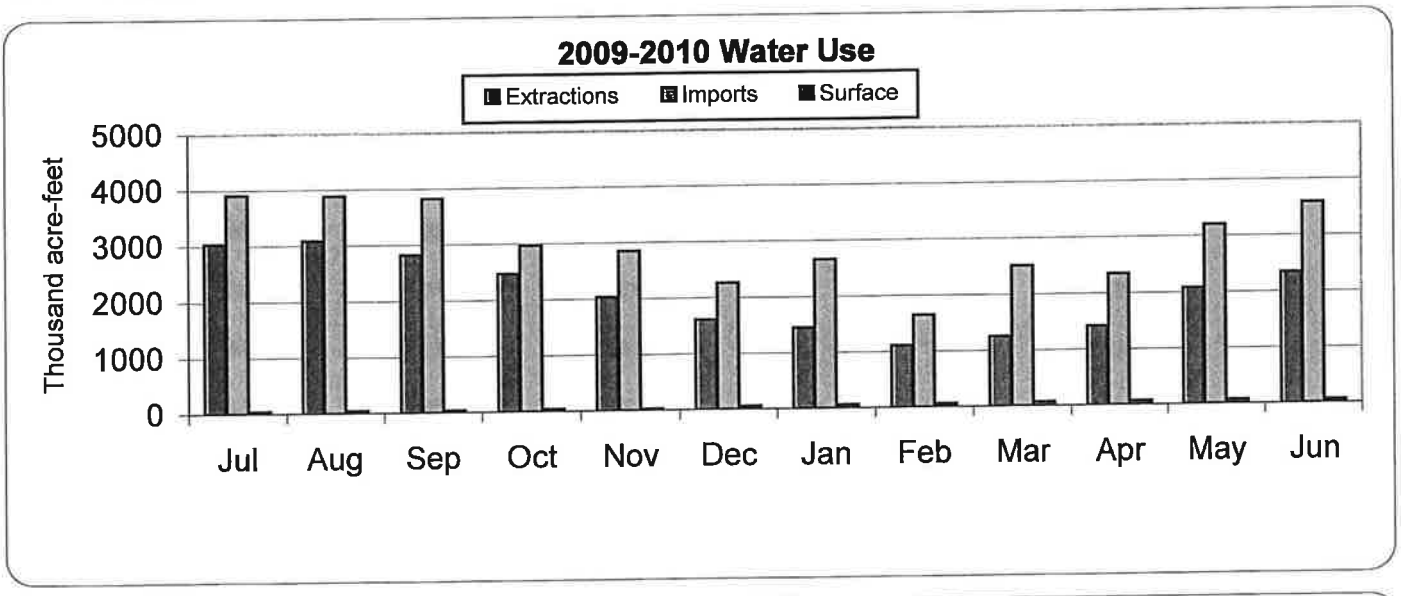
## TABLE 6. WATER USE IN 2009-10
(acre feet)

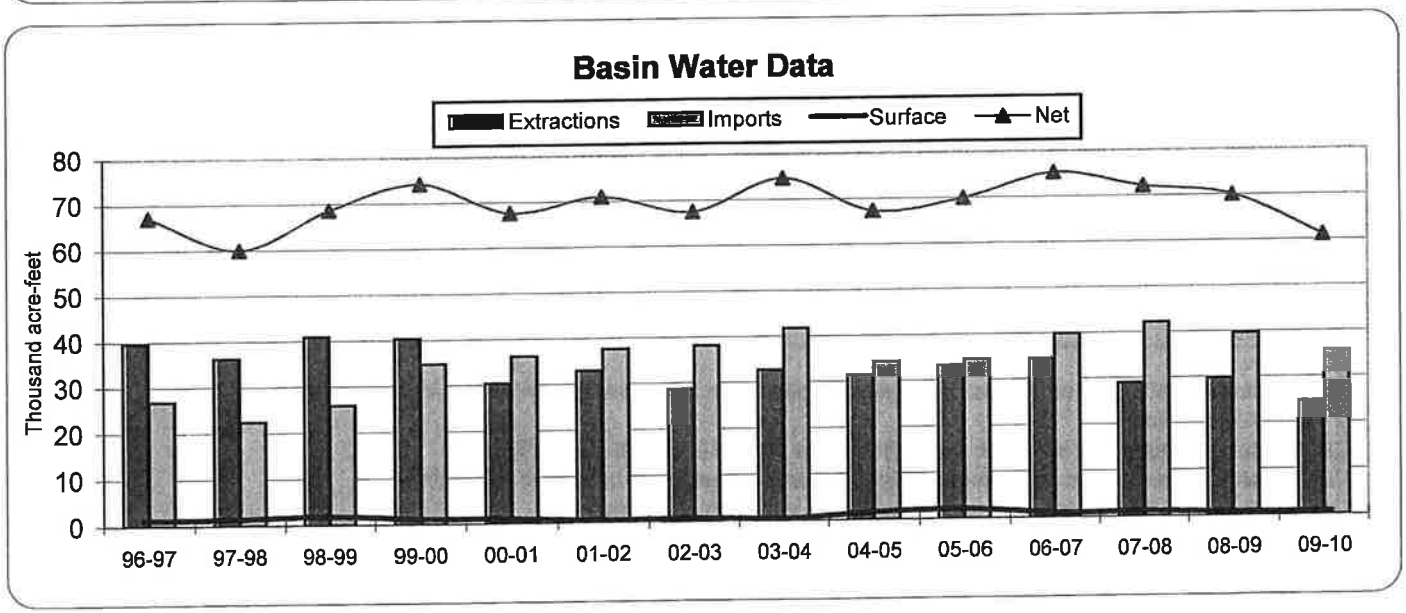
| Party | Ground Water Extractions (1) | Water Diversions To System[1/] (2) | Imported MWD/other Water (3) | Water Exported from Basin (4) | Water Imported (Exported) within Basin (5) | Total Water Use Within Basin +(1 thru 5) |
|---|---|---|---|---|---|---|
| Alhambra, City of | 0.0 | | 3,170.1 | | | 3,170.1 |
| Arcadia, City of | 4,033.9 | | 238.2 | | | 4,272.1 |
| California-American Water Company | 1,691.1 | | 555.4 | | | 2,246.5 |
| East Pasadena Water Company | 359.3 | | 384.1 [2/] | (67.7) | | 675.7 |
| H.E. Huntington Library & Art Gallery | 341.8 | | | | | 341.8 |
| Kinneloa Irrigation District | 617.8 | 215.0 | | | | 832.9 |
| La Canada Irrigation District | 273.6 | 35.8 | 2,200.9 | | | 2,510.3 |
| Las Flores Water Company | 306.8 | | 519.8 | | | 826.6 |
| Lincoln Avenue Water Company | 1,072.6 | 0.0 | 1,815.4 | | | 2,888.0 |
| Pasadena Cemetery Association | 85.9 | | | | | 85.9 |
| Pasadena, City of | 10,580.3 | | 19,715.3 | (395.7) | 738.0 | 30,637.9 |
| Rubio Canon Land & Water Association | 1,212.4 | 192.1 | 655.4 | | | 2,059.9 |
| San Gabriel County Water District | 0.0 | | | | | 0.0 |
| Sierra Madre, City of | 2,524.5 | 225.4 | | | | 2,749.9 |
| Sunny Slope Water Company | 686.2 | | 3,242.9 [2/] | (613.2) | | 3,315.9 |
| Valley Water Company | 909.8 | | 2,426.9 | | | 3,336.7 |
| **Total** | **24,695.9** | **668.4** | **34,924.4** | **(1,076.6)** | **738.0** | **59,950.1** |

1/ Does not include surface water diversions for spreading credit.
2/ San Gabriel Basin water.

FIGURE 4 - CLIMATIC CONDITIONS AND WATER USE



# TABLE 7.
## COMPARISON OF LONG-TERM AVERAGE ANNUAL EXTRACTIONS TO SAFE YIELD
(acre feet)

| July 1 through June 30 | Annual Extractions 1/ | | | | | |
|---|---|---|---|---|---|---|
| | Western Unit | | | Eastern Unit | | |
| | Monk Hill Subarea (1) | Pasadena Subarea (2) | Subtotal (1)+(2) (3) | Gross Pumped | Eastern Unit (4) | Raymond Basin Area (3)+(4) (5) |
| 1950-51 | 7,098 | 13,418 | 20,516 | 2,861 | 2,861 | 23,377 |
| 51-52 | 5,903 | 10,750 | 16,653 | 2,489 | 2,489 | 19,142 |
| 52-53 | 5,973 | 12,471 | 18,444 | 4,870 | 4,535 | 22,979 |
| 53-54 | 6,283 | 11,765 | 18,048 | 3,378 | 2,782 | 20,830 |
| 54-55 | 6,420 | 12,783 | 19,203 | 4,528 | 3,969 | 23,172 |
| Average annual extractions | 6,335 | 12,237 | 18,573 | 3,625 | 3,327 | 21,900 |
| Safe yield 1938 2/ | 6,039 | 11,621 | 17,660 | 3,791 | 3,791 | 21,451 |
| Average Over/(Under) extractions 3/ | 296 | 616 | 913 | (166) | (464) | 449 |
| 1955-60 | 35,444 | 82,043 | 117,487 | 23,484 | 23,048 | 140,535 |
| 1960-65 | 37,356 | 89,193 | 126,549 | 20,483 | 17,532 | 144,081 |
| 1965-70 | 37,557 | 90,821 | 128,378 | 23,745 | 23,312 | 151,690 |
| 1970-75 | 41,206 | 87,783 | 128,990 | 28,539 | 27,228 | 156,218 |
| 1975-80 | 40,871 | 97,733 | 138,604 | 28,836 | 24,403 | 163,007 |
| 1980-85 | 45,697 | 96,417 | 142,114 | 31,553 | 25,478 | 167,592 |
| 1985-90 | 31,058 | 101,822 | 132,880 | 33,170 | 27,113 | 159,994 |
| 1990-95 | 37,155 | 72,509 | 109,663 | 31,732 | 26,980 | 136,643 |
| 95-2000 | 54,452 | 108,960 | 163,412 | 33,482 | 25,982 | 189,394 |
| 2000-05 | 29,375 | 97,030 | 126,405 | 29,516 | 25,293 | 151,698 |
| 2005-06 | 5,043 | 21,124 | 26,167 | 7,119 | 5,481 | 31,648 |
| 06-07 | 6,247 | 20,678 | 26,925 | 7,614 | 4,961 | 31,886 |
| 07-08 | 4,784 | 18,254 | 23,038 | 5,898 | 4,502 | 27,540 |
| 08-09 | 5,836 | 17,980 | 23,816 | 5,921 | 4,732 | 28,547 |
| 09-10 | 3,864 | 15,859 | 19,723 | 4,973 | 4,213 | 23,935 |
| Average annual extractions | 7,563 | 18,513 | 26,075 | 5,747 | 4,914 | 30,989 |
| Safe yield 4/ | 7,489 | 17,843 | 25,332 | 5,290 | 5,290 | 30,622 |
| Average Over/(Under) extractions 3/ | 74 | 670 | 743 | 457 | (376) | 367 |

1/ Includes spreading water pumped in Western Unit and excludes salvage credit water pumped by City of Sierra Madre.
2/ Non-party pumping not included during the period 1944-45 through 1954-55
3/ Extractions greater than safe yield; positive; extractions less than safe yield: (negative).
4/ Effective 1955-56 through present and excludes non-party pumping.

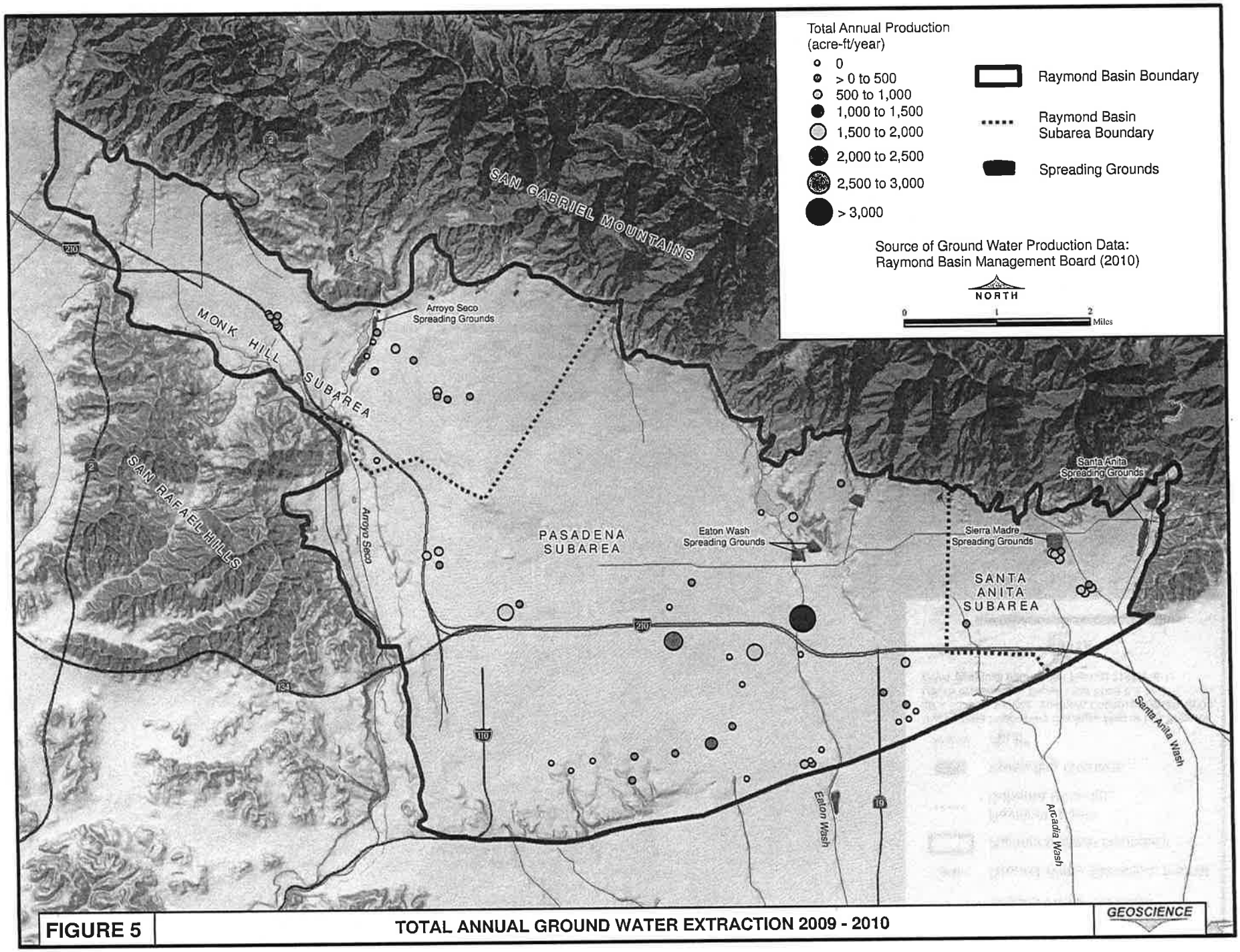



FIGURE 5 TOTAL ANNUAL GROUND WATER EXTRACTION 2009 - 2010 GEOSCIENCE

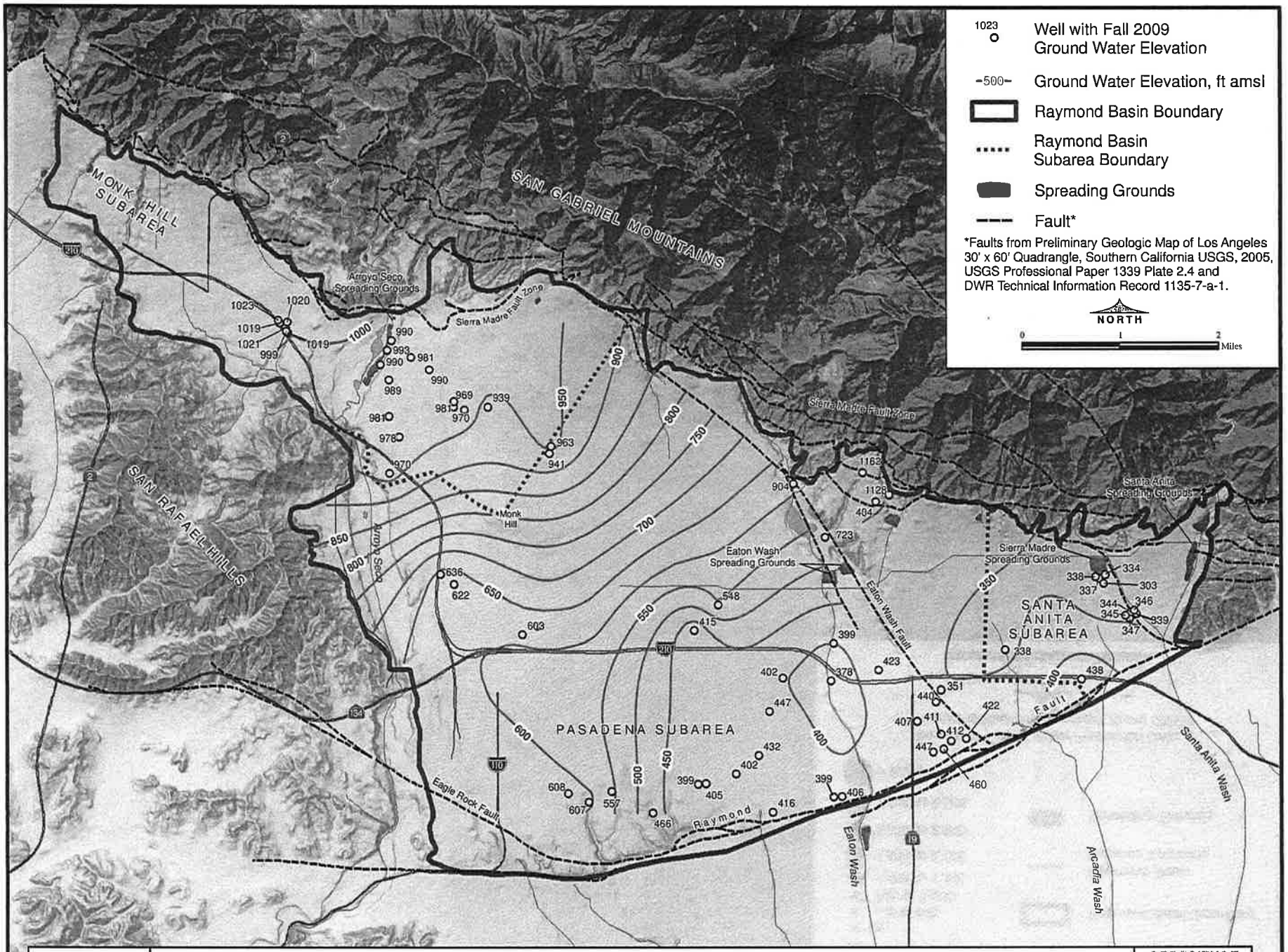



**FIGURE 6** GROUND WATER ELEVATIONS FALL 2009 GEOSCIENCE

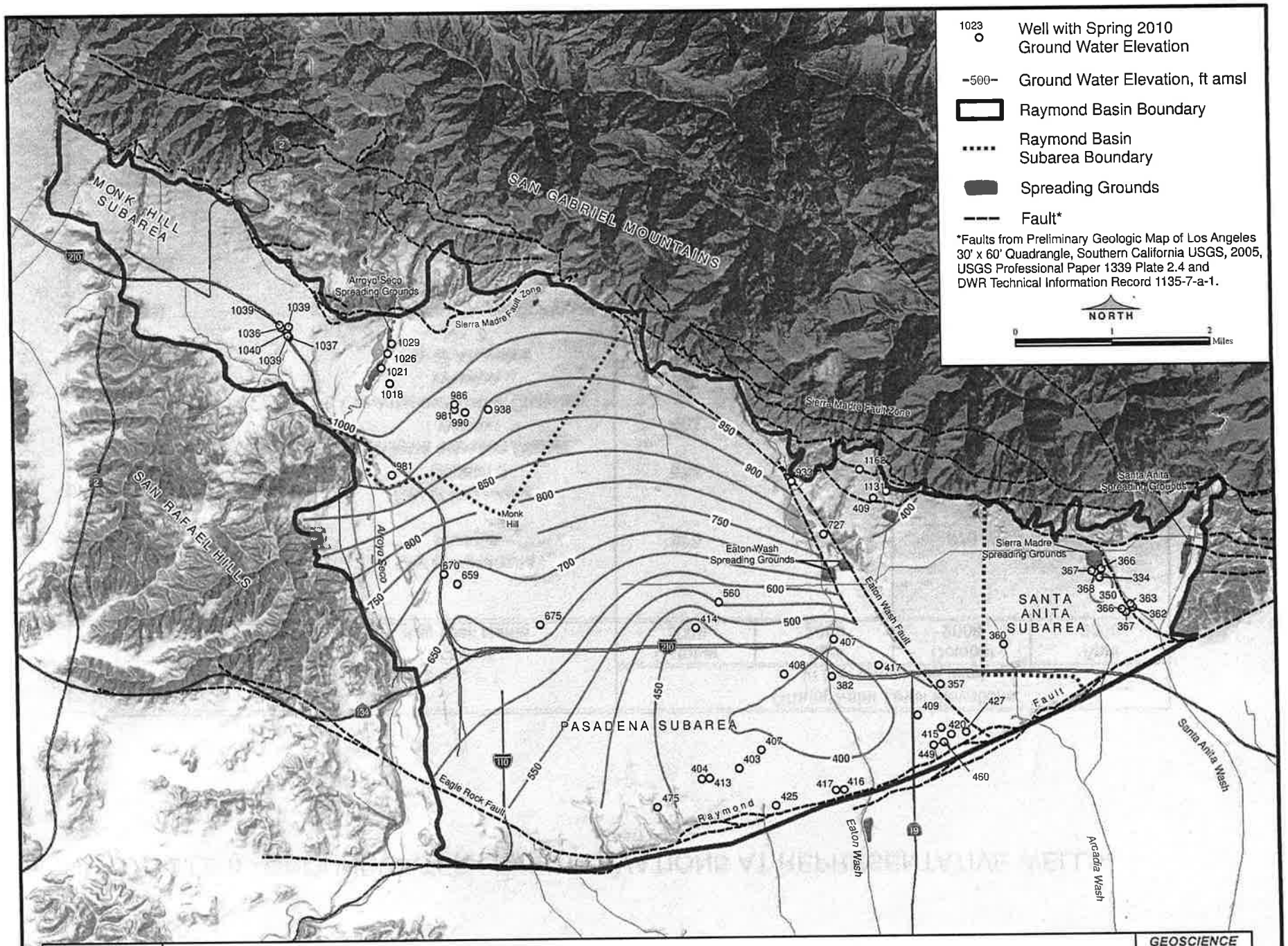



FIGURE 7 GROUND WATER ELEVATIONS SPRING 2010

# TABLE 8. GROUNDWATER LEVEL ELEVATIONS AT REPRESENTATIVE WELLS
(feet)

| Subarea | Owner<br>Key Well Name | Groundwater Level Elevations in feet above sea level | | | |
|---|---|---|---|---|---|
| | | October 2008 | April 2009 | October 2009 | April 2010 |
| **Monk Hill** | | | | | |
| | *City of Pasadena*<br>Sheldon | 970 | 976 | 970 | 981 |
| **Pasadena** | | | | | |
| West Central | *City of Pasadena*<br>Copelin 3 | 674 | 636 | 636 | 670 |
| Northeast | *Kinneloa Irrigation District*<br>Wilcox | 403 | 406 | 404 | 409 |
| East Central | *Cal-American Water Company*<br>Winston | nm | 403 | 432 | 407 |
| South Central | *City of Alhambra*<br>No. 2 | 558 | 438 | 607 | 566 |
| Southeast | *East Pasadena Water Company*<br>Well No. 7 | 395 | 413 | 411 | 419 |
| **Santa Anita** | | | | | |
| | *City of Arcadia*<br>Orange Grove No. 1A | 358 | 359 | 347 | 367 |

nm: no measurement

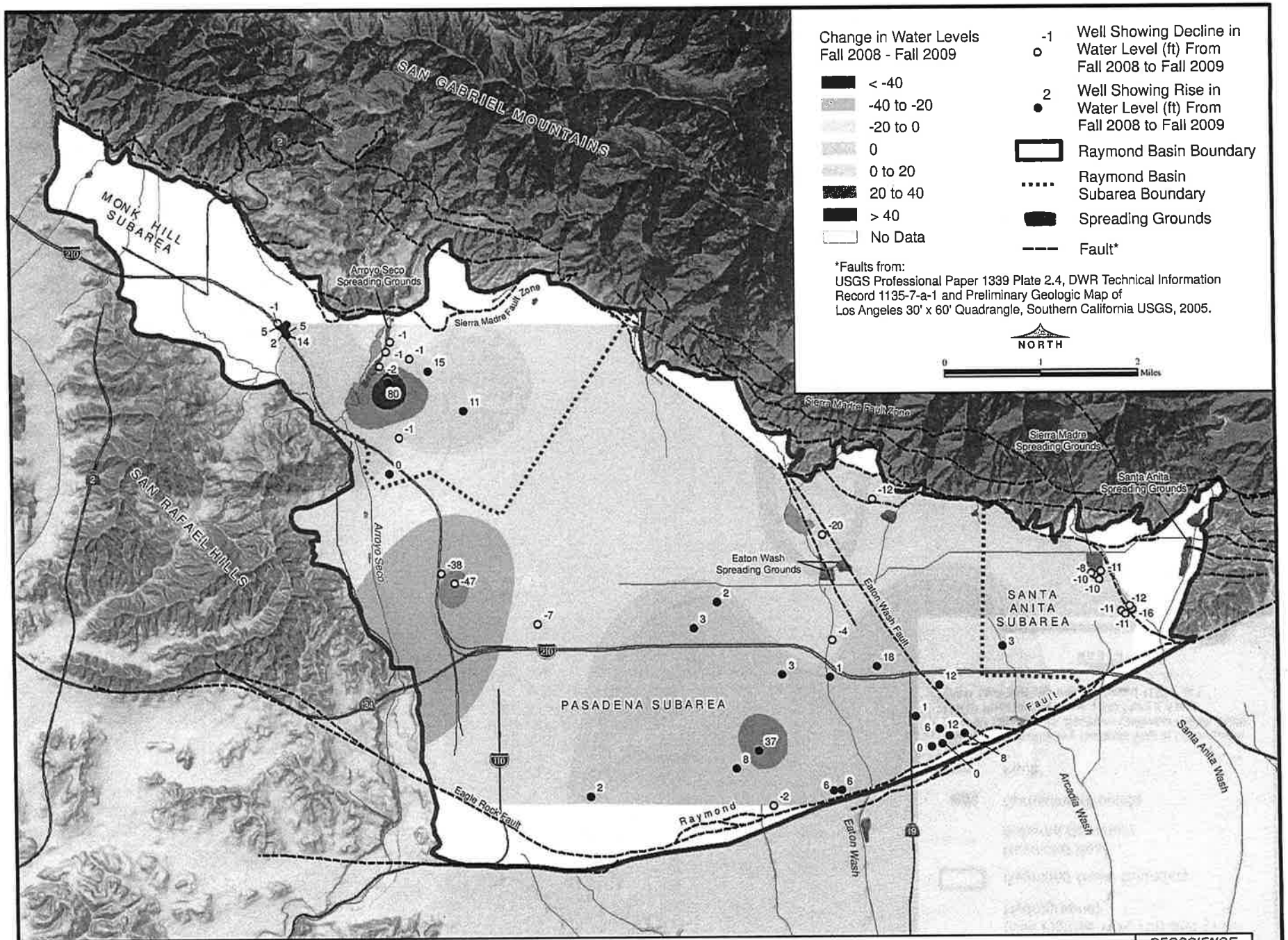



**FIGURE 8** CHANGES IN WATER LEVEL ELEVATION IN RAYMOND BASIN (FALL 2008 - FALL 2009)

GEOSCIENCE

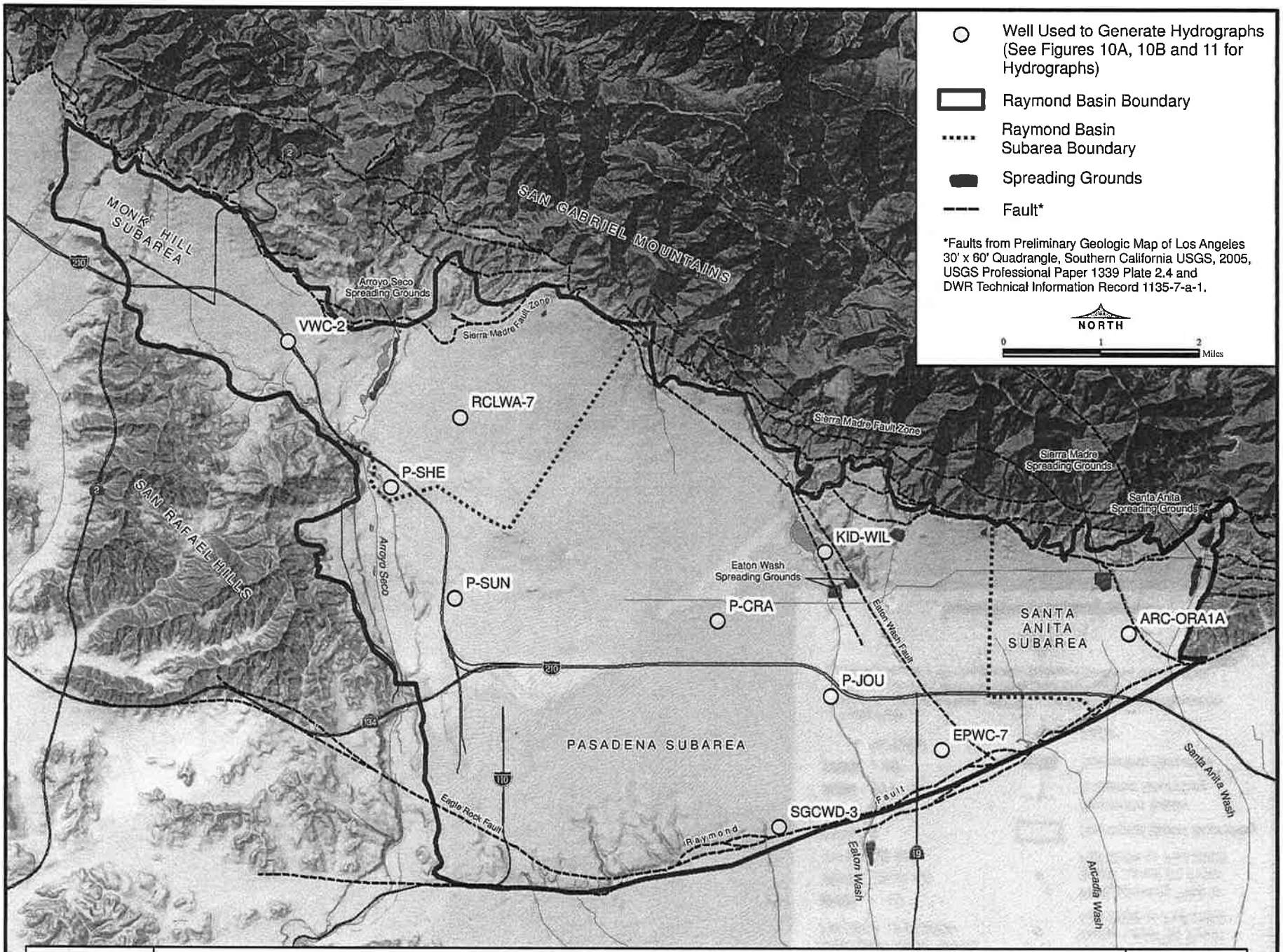



**FIGURE 9** LOCATION OF WELLS USED TO GENERATE HYDROGRAPHS

GEOSCIENCE

FIGURE 10a - FLUCTUATION OF WATER LEVELS AT WELLS IN THE PASADENA SUBAREA

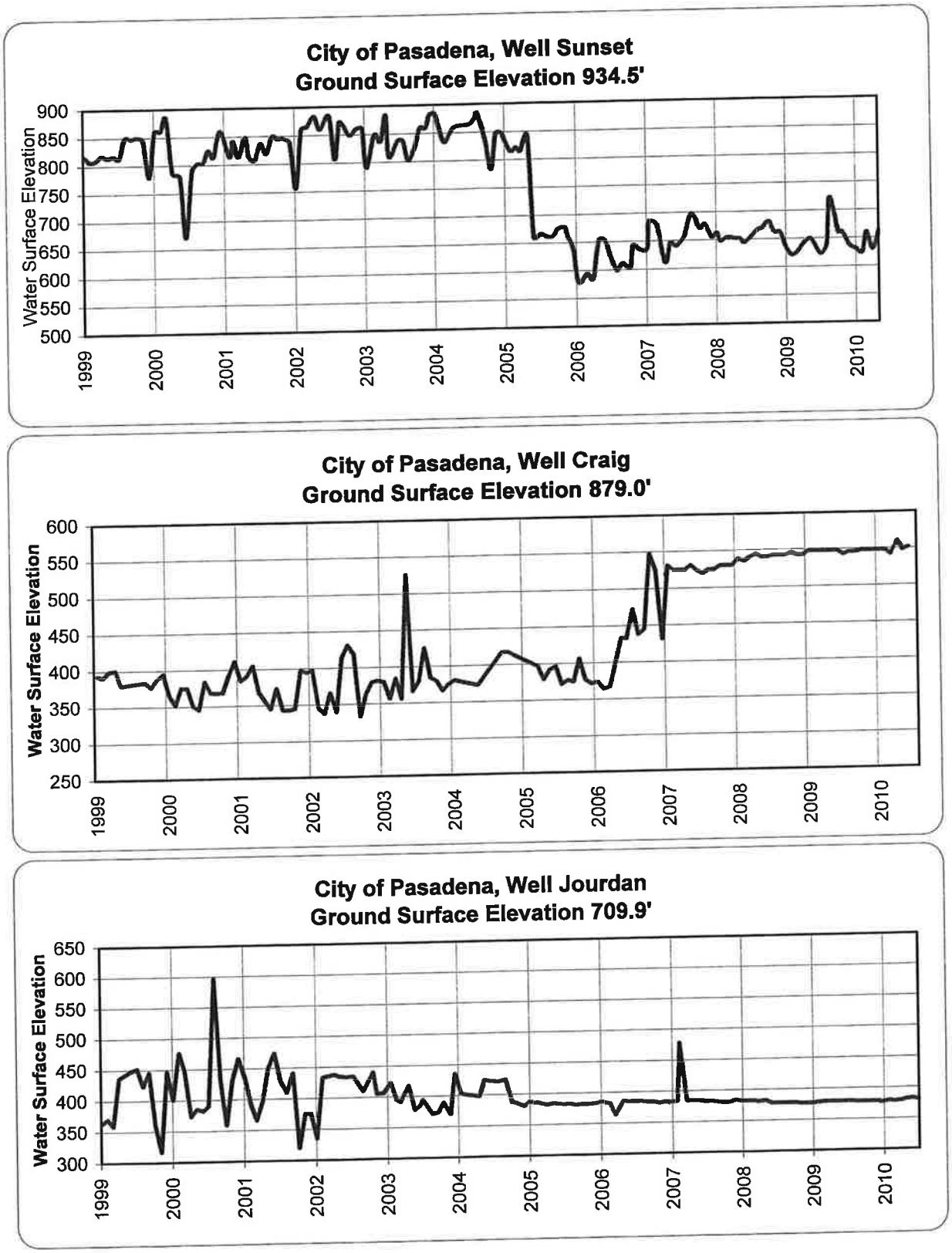
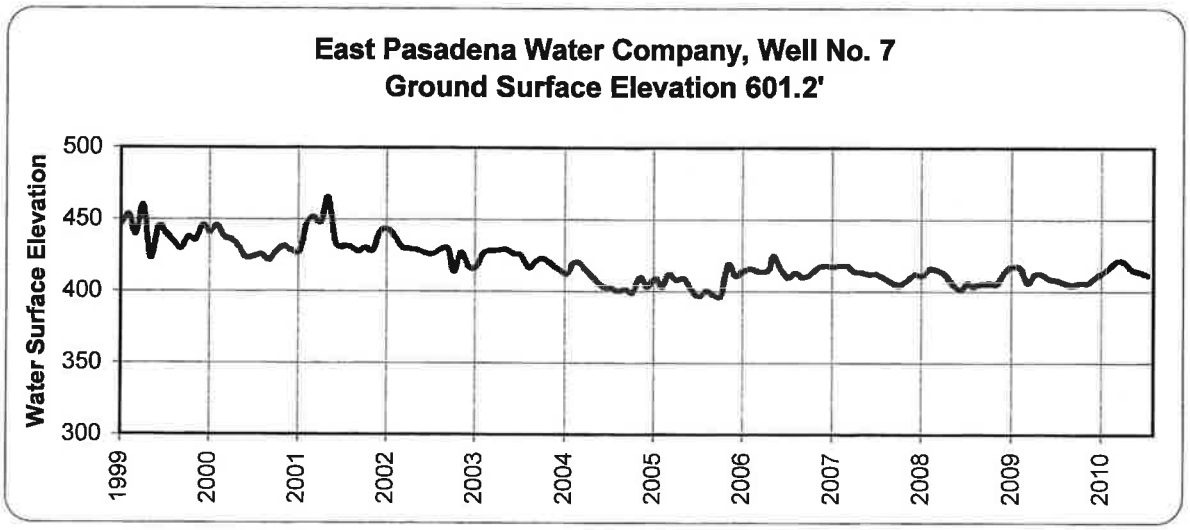
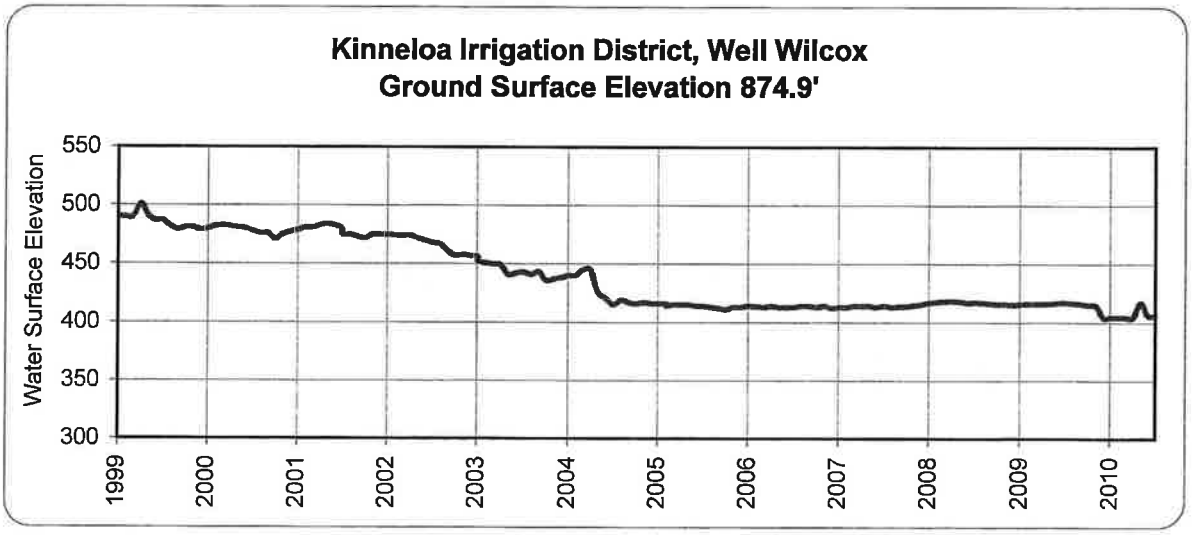


FIGURE 10b - FLUCTUATION OF WATER LEVELS AT WELLS IN THE PASADENA SUBAREA



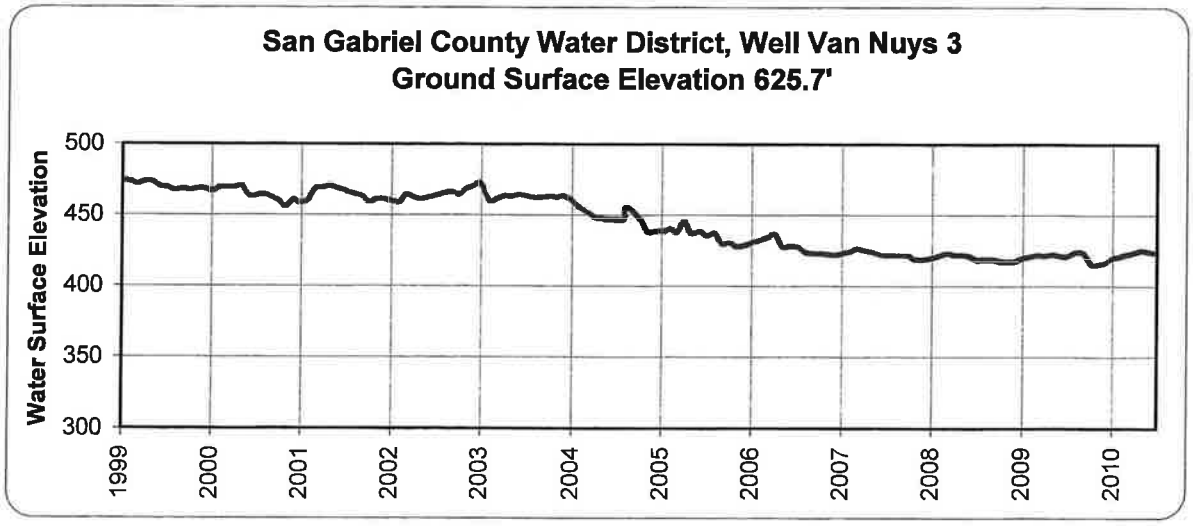



FIGURE 11 - FLUCTUATION OF WATER LEVELS AT WELLS IN THE SANTA ANITA SUBAREA

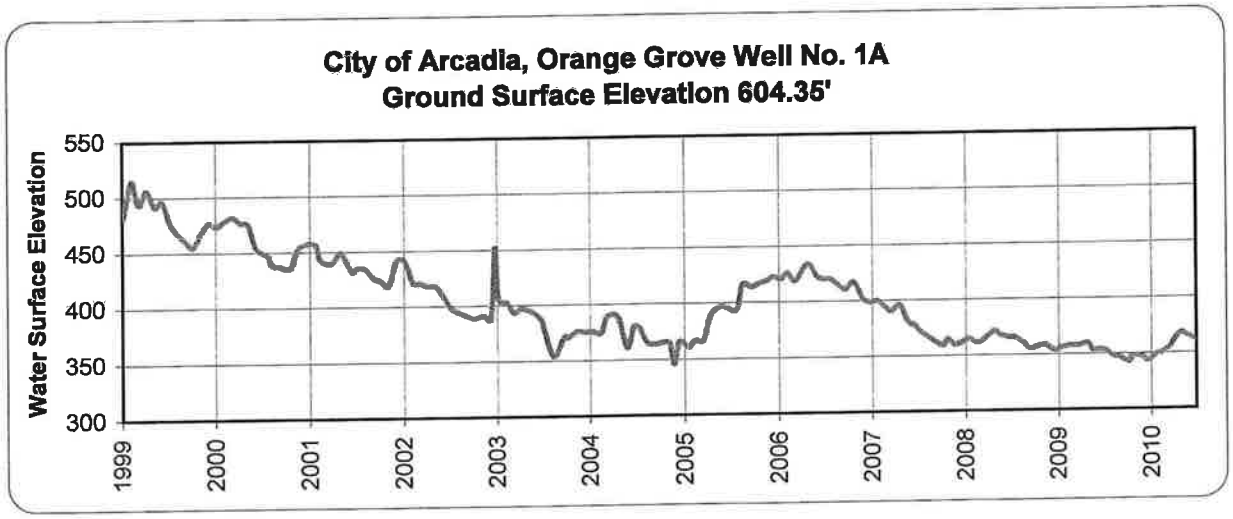


FIGURE 12 - FLUCTUATION OF WATER LEVELS AT WELLS IN THE MONK HILL SUBAREA

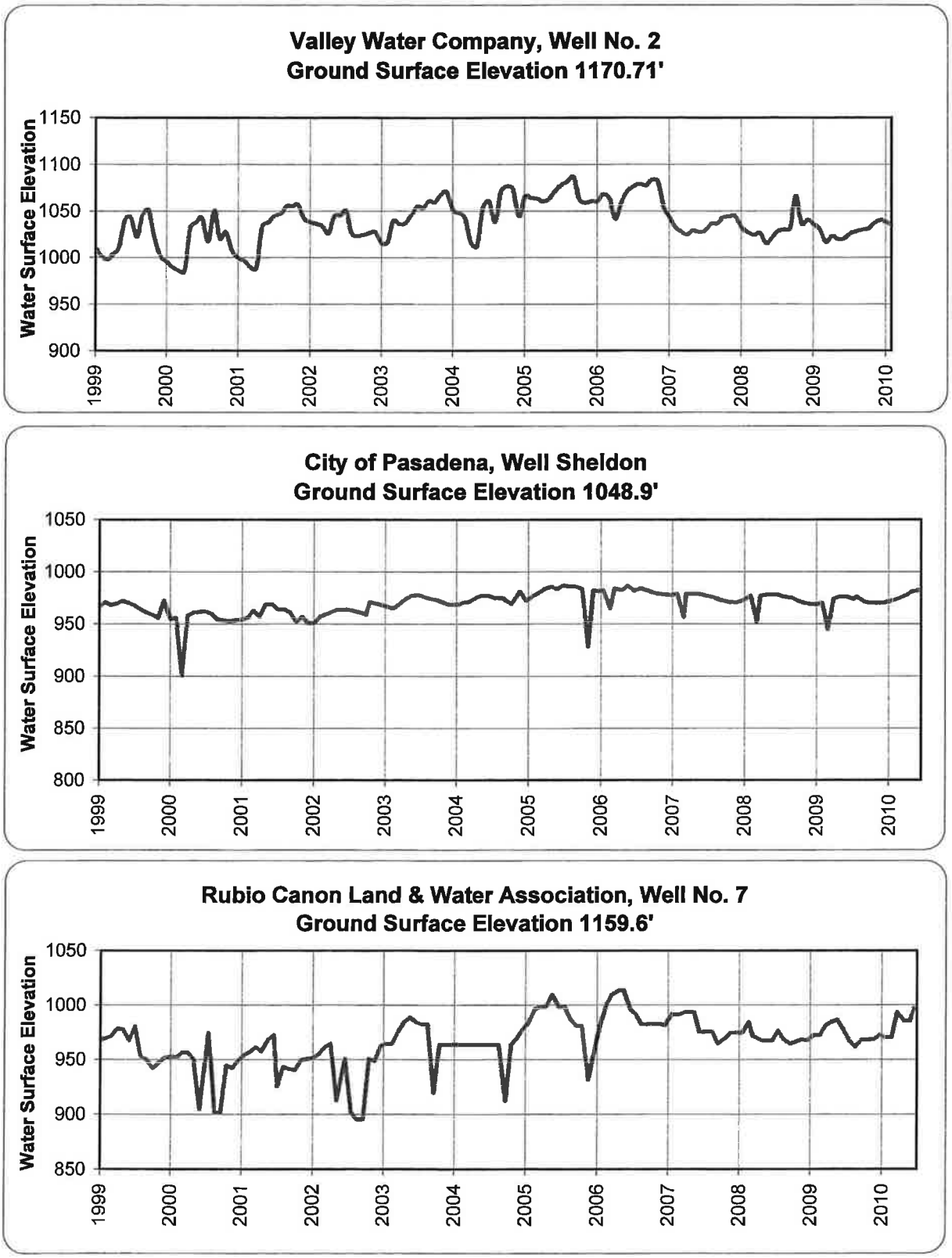


TABLE 9. CREDIT FOR WATER SPREAD CITY OF SIERRA MADRE
(acre feet)

| Season | (1) Salvage Water at Beginning of Year | Water Spread for Salvage (2) Amount | (3) Lost Through Natural Percolation | (4) Water Stored (2)-(3) | (5) Salvage Water Lost to Subsurface Outflow | (6) Salvage Water Extracted | (7) Salvage Water at End of Year (1)+(4)-(5)-(6) |
|---|---|---|---|---|---|---|---|
| 1952-53 | 836.3 | 258.0 | 94.6 | 163.4 | 243.1 | 334.9 | 421.7 |
| 53-54 | 421.7 | 580.0 | 4.6 | 575.4 | 115.4 | 596.1 | 285.6 |
| 54-55 | 285.6 | 341.0 | 21.5 | 319.5 | 15.1 | 559.1 | 30.9 |
| 55-56 | 30.9 | 429.0 | 90.9 | 338.1 | 9.6 | 128.0 | 231.4 |
| 56-57 | 231.4 | 331.0 | 167.1 | 163.9 | 42.1 | 62.0 | 291.2 |
| 57-58 | 291.2 | 3,409.0 | 811.9 | 2,597.1 | 278.8 | 0.0 | 2,609.5 |
| 58-59 | 2,609.5 | 1,308.0 | 521.0 | 787.0 | 945.1 | 37.5 | 2,413.9 |
| 59-60 | 2,413.9 | 45.0 | 10.4 | 34.6 | 705.6 | 208.2 | 1,534.7 |
| 1960-61 | 1,534.7 | 51.0 | 16.0 | 35.0 | 214.1 | 1,116.3 | 239.3 |
| 61-62 | 239.3 | 1,283.0 | 445.6 | 837.4 | 43.1 | 292.8 | 740.8 |
| 62-63 | 740.8 | 1,121.0 | 544.4 | 576.6 | 241.7 | 253.9 | 821.8 |
| 63-64 | 821.8 | 699.0 | 164.4 | 534.6 | 180.2 | 451.3 | 724.9 |
| 64-65 | 724.9 | 904.0 | 208.6 | 695.4 | 142.8 | 837.3 | 440.2 |
| 65-66 | 440.2 | 4,233.0 | 979.0 | 3,254.0 | 533.5 | 433.1 | 2,727.6 |
| 66-67 | 2,727.6 | 4,537.0 | 945.1 | 3,591.9 | 1,110.9 | 0.0 | 5,208.6 |
| 67-68 | 5,208.6 | 2,625.0 | 1,069.2 | 1,555.8 | 1,663.1 | 0.0 | 5,101.3 |
| 68-69 | 5,101.3 | 2,984.0 | 371.1 | 2,612.9 | 1,532.3 | 0.0 | 6,181.9 |
| 69-70 | 6,181.1 | 1,529.3 | 932.2 | 597.1 | 1,495.5 | 0.0 | 5,282.7 |
| 1970-71 | 5,282.7 | 1,145.3 | 369.7 | 775.6 | 1,285.7 | 0.0 | 4,772.6 |
| 71-72 | 4,772.6 | 1,014.4 | 311.5 | 702.9 | 1,518.3 | 0.0 | 3,957.2 |
| 72-73 | 3,957.2 | 3,204.0 | 824.5 | 2,379.5 | 815.1 | 84.7 | 5,436.9 |
| 73-74 | 5,436.9 | 3,029.1 | 891.9 | 2,137.2 | 1,603.7 | 64.7 | 5,905.7 |
| 74-75 | 5,905.7 | 2,244.0 | 927.8 | 1,316.2 | 1,744.1 | 1,161.0 | 4,316.8 |
| 75-76 | 4,316.8 | 1,029.8 | 387.3 | 642.5 | 1,299.5 | 784.0 | 2,875.8 |
| 76-77 | 2,875.8 | 1,106.6 | 427.4 | 679.2 | 863.9 | 124.6 | 2,566.5 |
| 77-78 | 2,566.5 | 3,974.7 | 463.8 | 3,510.9 | 937.3 | 1,033.1 | 4,107.0 |
| 78-79 | 4,107.0 | 4,473.0 | 1,475.7 | 2,997.3 | 1,541.7 | 894.7 | 4,667.9 |
| 79-80 | 4,667.9 | 3,636.3 | 717.7 | 2,918.6 | 971.8 | 1,597.2 | 5,017.5 |
| 1980-81 | 5,017.5 | 2,271.8 | 1,055.2 | 1,216.6 | 1,288.9 | 2,068.1 | 2,877.1 |
| 81-82 | 2,877.1 | 2,004.5 | 764.4 | 1,240.1 | 968.0 | 197.9 | 2,951.3 |
| 82-83 | 2,951.3 | 3,509.4 | 690.0 | 2,819.4 | 1,206.2 | 0.0 | 4,564.5 |
| 83-84 | 4,564.5 | 2,970.8 | 1,297.9 | 1,672.9 | 1,338.7 | 1,912.2 | 2,986.5 |
| 84-85 | 2,986.5 | 1,519.1 | 503.7 | 1,015.4 | 723.7 | 1,897.7 | 1,380.5 |
| 85-86 | 1,380.5 | 3,402.6 | 974.0 | 2,428.6 | 293.6 | 2,385.8 | 1,129.7 |
| 86-87 | 1,129.7 | 969.3 | 335.2 | 634.1 | 258.3 | 1,505.5 | 0.0 |
| 87-88 | 0.0 | 1,756.2 | 566.9 | 1,189.3 | 28.8 | 772.4 | 388.1 |
| 88-89 | 388.1 | 1,458.2 | 610.4 | 847.8 | 103.8 | 930.2 | 201.9 |
| 89-90 | 201.9 | 574.3 | 279.6 | 294.7 | 34.0 | 462.6 | 0.0 |
| 1990-91 | 0.0 | 1,542.1 | 575.0 | 967.1 | 0.0 | 755.4 | 211.7 |
| 91-92 | 211.7 | 3,100.7 | 680.1 | 2,420.6 | 0.0 | 247.6 | 2,384.7 |
| 92-93 | 2,384.7 | 3,150.6 | 487.9 | 2,662.7 | 473.0 | 129.3 | 4,445.1 |
| 93-94 | 4,445.1 | 2,113.2 | 747.2 | 1,366.0 | 1,262.7 | 1,919.1 | 2,629.3 |
| 94-95 | 2,629.3 | 4,221.4 | 706.6 | 3,514.8 | 532.2 | 1,700.3 | 3,911.6 |
| 95-96 | 3,911.6 | 3,697.8 | 1,252.2 | 2,445.6 | 1,482.8 | 505.0 | 4,369.4 |
| 96-97 | 4,369.4 | 2,371.7 | 735.9 | 1,635.8 | 1,010.1 | 2,489.2 | 2,505.9 |
| 97-98 | 2,505.9 | 3,424.0 | 435.1 | 2,988.9 | 214.3 | 984.3 | 4,296.2 |
| 98-99 | 4,296.2 | 2,874.9 | 922.5 | 1,952.4 | 590.5 | 2,038.1 | 3,620.0 |
| 99-00 | 3,620.0 | 1,195.0 | 304.7 | 890.3 | 740.6 | 1,483.1 | 2,286.6 |
| 2000-01 | 2,286.6 | 1,513.5 | 424.0 | 1,089.5 | 440.5 | 1,041.5 | 1,894.1 |
| 01-02 | 1,894.1 | 294.8 | 14.7 | 280.1 | 0.0 | 1,205.3 | 968.9 |
| 02-03 | 968.9 | 1,444.7 | 500.3 | 944.4 | 0.0 | 231.3 | 1,682.0 |
| 03-04 1/ | 1,682.0 | 751.7 | 124.1 | 627.6 | 0.0 | 1,465.6 | 844.0 |
| 04-05 | 844.0 | 5,612.7 | 1,070.2 | 4,542.5 | 282.2 | 279.1 | 4,825.2 |
| 05-06 | 4,825.2 | 2,932.7 | 603.1 | 2,329.6 | 385.7 | 1,637.8 | 5,131.3 |
| 06-07 | 5,131.3 | 745.5 | 211.0 | 534.4 | 0.0 | 2,653.8 | 3,011.9 |
| 07-08 | 3,011.9 | 1,761.1 | 260.6 | 1,500.5 | 0.0 | 1,395.9 | 3,116.5 |
| 08-09 | 3,116.5 | 1,585.2 | 217.7 | 1,367.5 | 0.0 | 1,189.6 | 3,294.5 |
| 09-10 | 3,294.5 | 2,535.1 | 696.4 | 1,838.7 | 0.0 | 760.4 | 4,372.8 |

1/ Adjustment to 2003-04 End of Year Salvage

## TABLE 10. TRANSFERS OR LEASES OF DECREED RIGHT
(acre-feet)

| Lease No. | Lease Date | Leasor | Leasee | Acre feet |
|---|---|---|---|---|
| SGCWD-KID-10-01 | 7/30/2009 | San Gabriel County Water | Kinneloa Irrigation Dist | 50.0 |
| LFWC-LAWC-10-01 | 11/18/2009 | Las Flores Water Compan | Lincoln Ave Water Co. | 20.0 |
| VWC-LAWC-10-01 | 12/17/2009 | Valley Water Company | Lincoln Ave Water Co. | 70.0 |
| LCID-LAWC-10-01 | 12/18/2009 | La Canada Irrigation Dist | Lincoln Ave Water Co. | 75.0 |
| PASA-VWC-10-01 | 12/21/2009 | Pasadena, City of | Valley Water Company | 41.8 |
| PASA-LAWC-10-01 | 4/8/20010 | Pasadena, City of | Lincoln Ave Water Co. | 104.5 |

**LONG TERM STORAGE SPACE EXCHANGES**
**in acre feet**

| Lease No. | Leasor | Leasee | Lease Period | Acre Feet |
|---|---|---|---|---|
| **Pasadena Subarea** | | | | |
| **Monk Hill Subarea** | | | | |
| LCID-PASA 01/10/LTS | La Canada Irrigation District | Pasadena, City of | 7/1/09 thru 6/30/10 | 1,400 |
| Allowable LTS | 2,300 | 13,400 | | |
| Current Lease | (1,400) | 1,400 | | |
| Adjusted Allowable LTS | 900 | 14,800 | | |
| RCLW-PASA 01/10/LTS | Rubio Canon Land & Water | Pasadena, City of | 7/1/09 thru 6/30/10 | 2,500 |
| Allowable LTS | 3,700 | 14,800 | | |
| Current Lease | (2,500) | 2,500 | | |
| Adjusted Allowable LTS | 1200 | 17,300 | | |

# TABLE 11. APPORTIONMENT OF BUDGET AMONG PARTIES

FISCAL YEAR ENDING JUNE 30, 2010

| Party | Part A | | | Part B | | | Part C | Total Cost |
|---|---|---|---|---|---|---|---|---|
| | Acre Feet Decreed Right 1955 | DWR Services Apportionment | | Acre Feet Diversions 2007-08 | Spreading Program Apportionment | | Other Administration | (3)+(6)+(7) |
| | (1) | % (2) | $ (3) | (4) | % (5) | $ (6) | $ (7) | (8) |
| Alhambra, City of | 1,031 | 3.4% | **$ 170** | | | | $ 20,483 | $ 20,653 |
| Arcadia, City of | 5,644 | 18.4% | **$ 920** | | | | $ 110,849 | $ 111,769 |
| California-American Water Co. | 2,299 | 7.5% | **$ 375** | | | | $ 45,183 | $ 45,558 |
| East Pasadena Water Co. | 515 | 1.7% | **$ 85** | | | | $ 10,242 | $ 10,327 |
| Huntington Libr. & Art Gallery | 372 | 1.2% | **$ 60** | | | | $ 7,229 | $ 7,289 |
| Kinneloa Irrigation District | 516 | 1.7% | **$ 85** | 123 | 2.8% | $ 140 | $ 10,242 | $ 10,467 |
| La Canada Irrigation District | 100 | 0.3% | **$ 15** | | | | $ 1,807 | $ 1,822 |
| Las Flores Water Company | 249 | 0.8% | **$ 40** | 158 | 3.6% | $ 180 | $ 4,819 | $ 5,039 |
| Lincoln Avenue Water Company | 567 | 1.8% | **$ 90** | 268 | 6.1% | $ 305 | $ 10,844 | $ 11,239 |
| Pasadena Cemetery Assoc. | 91 | 0.3% | **$ 15** | | | | $ 1,807 | $ 1,822 |
| Pasadena, City of | 12,807 | 41.8% | **$ 2,090** | 3,802 | 86.3% | $ 4,315 | $ 251,820 | $ 258,225 |
| Rubio Canon L&W Assoc. | 1,221 | 4.0% | **$ 200** | 53 | 1.2% | $ 60 | $ 24,098 | $ 24,358 |
| San Gabriel County WD | 1,091 | 3.6% | **$ 180** | | | | $ 21,688 | $ 21,868 |
| Sierra Madre, City of | 1,764 | 5.8% | **$ 290** | | | | $ 34,941 | $ 35,231 |
| Sunny Slope Water Co. | 1,558 | 5.1% | **$ 255** | | | | $ 30,724 | $ 30,979 |
| Valley Water Co. | 797 | 2.6% | **$ 130** | | | | $ 15,664 | $ 15,794 |
| | **30,622** | **100.0%** | **$ 5,000** | **4,403** | **100%** | **$ 5,000** | **$ 602,440** | **$ 612,440** |

# TABLE 12. STATEMENT OF 2009-10 INCOME AND EXPENDITURES

| | Budget | Actual | Variance |
|---|---|---|---|
| **Revenue** | | | |
| Cash--July 1, 2009 | **$ 889,057** | **$ 1,164,918** | **$ 275,861** |
| Assessments: | | | |
| DWR Service Assess - Part A | 5,000 | 5,000 | - |
| Spreading Program - Part B | 5,000 | 5,000 | - |
| Administrative Assess - Part C | 602,440 | 602,440 | - |
| Long-Term Storage Program | 2,000 | 86 | (1,914) |
| Title 22 Program | 25,000 | 27,550 | 2,550 |
| Assessment Penalties | - | 4,738 | 4,738 |
| Salvage Credit Reimbursement | 3,000 | 1,631 | (1,369) |
| PIP Income | - | 28,667 | 28,667 |
| FWC - Project Income | 50,000 | 2,749 | (47,251) |
| Interest and Other Income | 20,000 | 10,563 | (9,437) |
| **Total Revenue** | **$ 712,440** | **$ 688,424** | **$ (24,016)** |
| **Expense:** | | | |
| DWR Administration | $ 5,000 | $ 3,099 | $ 1,901 |
| MSGBW Administration | 144,025 | 144,024 | 1 |
| Office Expense | 3,000 | 2,484 | 516 |
| Professional Services | 10,000 | - | 10,000 |
| General Engineering | 40,000 | 10,082 | 29,918 |
| FWC - Basin Contribution | 10,000 | 2,749 | 7,251 |
| Monk Hill Study | 19,000 | - | 19,000 |
| Federal Grant Match | 150,000 | 55,735 | 94,265 |
| Monitoring Well Design | 10,000 | - | 10,000 |
| Monitoring Well Construction | 180,000 | - | 180,000 |
| GW Level Management Prgm | 25,000 | - | 25,000 |
| Pasadena Storage Program | 5,000 | - | 5,000 |
| Groundwater M&M Plan | 10,000 | - | 10,000 |
| Legal Fees | 15,000 | 2,728 | 12,272 |
| Legislative Advocacy | 40,000 | 36,000 | 4,000 |
| Grant Support | 10,000 | 1,966 | 8,034 |
| Meeting & Travel | 12,000 | 5,713 | 6,287 |
| Strategic Planning | 5,000 | - | 5,000 |
| Mapping/GIS/Data Management | 7,500 | - | 7,500 |
| Annual Report Expense | 6,000 | 8,251 | (2,251) |
| Audit Expense | 5,000 | 3,000 | 2,000 |
| Membership Dues | 6,500 | 1,323 | 5,177 |
| Title 22 Program Expense | 30,000 | 33,906 | (3,906) |
| Spreading Program | 5,000 | 4,521 | 479 |
| Sierra Madre Salvage Credit Expense | 3,000 | 1,631 | 1,369 |
| FWC - Project Expense | 50,000 | 191 | 49,809 |
| Contingency | 5,000 | - | 5,000 |
| **Total Expense** | **$ 811,025** | **$ 317,403** | **$ 493,622** |
| Cash -- June 30, 2010 | $ 790,472 | $ 1,535,939 | |
| Adjudicated Rights (in acre feet) | 30,622 | 30,622 | |
| Adjudicated Rights (cost per acre foot) | $ 26.49 | $ 10.37 | |

## TABLE 13. METER TESTING PROGRAM FOR 2009-10

| PARTY | OWNER DESIGNATION | TEST DATE | METER ERROR[1/] | | NOTES |
|---|---|---|---|---|---|
| Alhambra, City of | WELL NO. 2 | - | - | - | Inactive |
| Arcadia, City of | ANOAKIA | 4/28/2010 | 1.4% | Slow | |
| | CHAPMAN 6 A | - | - | - | Inactive |
| | CHAPMAN 6 B | - | - | - | Inactive |
| | CHAPMAN 7 | 4/28/2010 | 0.5% | Slow | |
| | COLORADO | 4/16/2010 | 0.4% | Fast | |
| | HUGO REID | - | - | - | Inactive |
| | ORANGE GROVE 1A | 4/28/2010 | 1.9% | Fast | |
| | ORANGE GROVE 2A | 4/16/2010 | 0.2% | Slow | |
| | ORANGE GROVE 5A | 4/28/2010 | 0.7% | Slow | |
| | ORANGE GROVE 6 | 7/7/2010 | 1.1% | Slow | |
| | RANCHO 6 | - | - | - | Inactive |
| California-American Water Company | LAMANDA PARK | - | - | - | Inactive |
| | LOMBARDY | 5/10/2010 | 0.1% | Fast | |
| | OAK KNOLL | - | - | - | Inactive |
| | OSWEGO | - | - | - | Inactive |
| | PATTON | - | - | - | Inactive |
| | WINSTON | 5/10/2010 | 1.6% | Fast | |
| East Pasadena Water Company | WELL NO. 1 | - | - | - | Inactive |
| | WELL NO. 7 | 4/19/2010 | 4.7% | Fast | |
| | WELL NO. 8 | 4/7/2010 | 1.0% | Slow | |
| | WELL NO. 9 | 4/7/2010 | 4.8% | Slow | |
| H.E. Huntington Library & Art Gallery | CANYON | 6/4/2010 | 1.5% | Slow | |
| | ORLANDO | - | - | - | Inactive |
| | ROSCOE MOSS | 6/4/2010 | 0.7% | Slow | |
| | BUDDY MOSS | 6/4/2010 | 3.5% | Fast | |
| Kinneloa Irrigation District | K-3 | 4/6/2010 | 0.0% | | |
| | WAGNER | - | - | - | Inactive |
| | WILCOX | 4/6/2010 | 2.9% | Slow | |
| La Canada Irrigation District | WELL NO. 1 | - | - | - | Inactive |
| | WELL NO. 6 | 6/29/2010 | 2.1% | Fast | |
| Las Flores Water Company | WELL NO. 2 | 5/6/2010 | 1.9% | Slow | |
| Lincoln Avenue Water Company | WELL NO. 3 | 6/25/2010 | 1.9% | Fast | |
| | WELL NO. 5 | 7/7/2010 | 0.2% | Slow | |
| Pasadena | ARROYO | - | - | - | Nonoperable |
| | BANGHAM | 5/17/2010 | 0.6% | Fast | |
| | COPELIN 3 | 5/17/2010 | 2.1% | Slow | |
| | CRAIG | - | - | - | Nonoperable |
| | EATON 51 | - | - | - | Inactive |
| | GARFIELD | - | - | - | Nonoperable |
| | GROUNDS-INJECT. | - | - | - | Nonoperable |

1/ Slow=Percent production meter is under recording
Fast=Percent production meter is over recording

TABLE 13. METER TESTING PROGRAM FOR 2009-10

| PARTY | OWNER DESIGNATION | TEST DATE | METER ERROR[1/] | | NOTES |
|---|---|---|---|---|---|
| Pasadena, City of (cont) | JOURDAN | - | - | - | Inactive |
| | MONTE VISTA | - | - | - | Inactive |
| | NEW CHAPMAN | - | - | - | Inactive |
| | PASA 52 | - | - | - | Nonoperable |
| | SHELDON 1 | - | - | - | Inactive |
| | SUNSET | 5/17/2010 | 0.1% | Slow | |
| | VENTURA | - | - | - | Nonoperable |
| | VILLA | 5/27/2009 | 8.0% | Slow | Nonoperable |
| | WELL 58 | 5/18/2010 | 80.0% | Slow | |
| | WELL 59 | 5/18/2010 | 1.1% | Slow | |
| | WINDSOR | - | - | - | Nonoperable |
| | WOODBURY | 5/17/2010 | 2.5% | Slow | |
| Pasadena Cemetery Association | WELL NO. 2-3 | 6/18/2010 | 1.0% | Fast | |
| | WELL NO. 4 | - | - | - | Inactive |
| Rubio Canon Land and Water Assoc. | WELL NO. 4 | 6/7/2010 | 0.9% | Fast | |
| | WELL NO. 7 | 6/7/2010 | 3.5% | Slow | |
| San Gabriel County Water District | VAN NUYS 3 | - | - | - | Inactive |
| Sierra Madre, City of | WELL NO. 3 | 4/13/2010 | 2.0% | Fast | |
| | WELL NO. 4 | 4/13/2010 | 1.0% | Fast | |
| | WELL NO. 5 | 3/11/2009 | 69.0% | Fast | |
| | WELL NO. 6 | 4/13/2010 | 9.1% | Slow | |
| Sunny Slope Water Company | WELL NO. 1 | - | - | - | Inactive |
| | WELL NO. 6 | - | - | - | Inactive |
| | WELL NO. 11 | 4/15/2010 | 0.6% | Slow | |
| | WELL NO. 12 | 4/15/2010 | 1.3% | Fast | |
| Valley Water Company | WELL NO. 1 | 1/7/2010 | 2.8% | Slow | |
| | WELL NO. 2 | 7/9/2010 | 1.4% | Fast | |
| | WELL NO. 3 | 1/7/2010 | 1.4% | Slow | |
| | WELL NO. 4 | 1/7/2010 | 1.3% | Fast | |

1/ Slow=Percent production meter is under recording
Fast=Percent production meter is over recording

# APPENDIX A

Significant Actions

by the

Raymond Basin Management Board

## CHRONOLOGY OF THE RAYMOND BASIN

1880 Southern California land development boom begins

1881 First wells drilled in Raymond Basin to supply water for irrigated agriculture and expanding municipalities.

1908 U.S. Geological Survey report on Raymond Basin published, showing 141 wells in operation.

1913 Overdraft of Raymond Basin begins

1914 City of Pasadena Water Department initiates a program to replenish the basin by conserving and spreading storm runoff on gravel beds at the foot of the San Gabriel Mountains. Pasadena continued the spreading program until 1924, by which time it had replenished the basin by more than 20,000 AF, using water that otherwise would have made its way to the Los Angeles River

1924 Pasadena terminates its spreading program partly because of the sharp decline in available runoff due to another dry cycle that began in 1922. Through the remainder of the 1920s, underground water levels dropped, some wells failed and longer pumping lifts raised operating costs in the others. The drop in water levels was not just seasonal; they no longer recovered in the spring.

Raymond Basin users continued to pump groundwater without fully understanding the effects of their actions on each other and on the basin. A full description of the basin's geology and underground water storage characteristics did not appear until 1934.

1928 In the meantime, Pasadena focused on acquiring a supplemental water supply. Consequently, Metropolitan Water District of Southern California was established to build and operate a Colorado River aqueduct, although this water would not be available for at least a decade.

California Division of Water Resources granted Pasadena permits to store and divert flood flows of the San Gabriel River and divert up to 4,000 AF of water per year.

1929 Pasadena voters approved a $10 million bond issue to finance the construction of Morris Dam on the San Gabriel River and a conduit to the city.

1932 San Gabriel Valley Protective Association sued to prevent Pasadena from building the dam and diverting the water. MWD helped resolve the dispute by agreeing to purchase Morris Dam from Pasadena once Colorado River water became available.

1934 California Division of Water Resources published Bulletin 45, giving a full description of the basin's geology and storage characteristics. It was not until the early 1940s that users learned the basin had been in overdraft every year since 1913, and that the annual overdraft had averaged 7,000 acre feet, or roughly 33% of the average annual safe yield.

1935 Pasadena officials called together representatives of other known Raymond Basin producers, reviewed the published reports of DWR and attempted to negotiate a pumping reduction on a cooperative rather than an adversarial basis. These efforts failed and city officials contemplated legal action.

Pasadena officials had reached the limits of their willingness to act alone. The city reduced pumping somewhat when it began to receive additional supplies from the San Gabriel River. But in order to redress the overdraft on its own, Pasadena would have to cut its production by one-half and import the expensive Colorado River water when available, while other basin users continued to meet all their needs with groundwater. Pasadena was unwilling to do so.

1937 Pasadena chose instead to defend its right as a senior Raymond Basin appropriator. On September 23, 1937, Pasadena initiated proceedings in Superior Court against Alhambra and other major Raymond Basin water users. The action sought to adjudicate and quiet title to Pasadena's rights in the basin, and to enjoin the annual overdraft. The trial court required Pasadena to amend its complaint to name as defendants all entities in the basin pumping more than 100 acre feet annually. There were 30 defendants in all. The judge also ruled that the suit was not a simple action to quiet title but was a general adjudication of water rights in the basin.

*City of Pasadena v City of Alhambra et al.*, was the first basinwide adjudication of groundwater rights in California and the first to use the Court Reference Procedure under the California Water Code. That procedure authorized the referral of cases involving the determination of water rights to the Division of Water Resources by the state Department of Public Works for investigation of the physical facts.

1939 20 parties were involved in the court reference procedure and petitioned

the court to refer the factual issues to DWR for investigation. The judge directed the referee to determine the "safe yield" of the basin and ascertain whether there was a surplus or an overdraft.

The investigation was expensive and time-consuming. Nevertheless, the referee's investigation avoided multiple concurrent investigations by several parties and provided the parties and court with a coherent, single view of the Raymond Basin and its problems.

1943 Referee's report filed in Raymond Basin litigation; this draft report described the basic geology of the Raymond Basin and specified the location of the Monk Hill Basin, and the Pasadena and Santa Anita subareas. The draft report stated the safe yield for Raymond Basin as a whole was 21,900 acre feet per year and recommended limiting withdrawals to the safe yield and using imported water to meet further demands.

As the referee's draft report circulated among the parties, most tried to work out a settlement. Litigation had changed the default condition of the negotiations. Before litigation, failure to negotiate a settlement simply continued the status quo--the pumping race. With litigation underway, if the parties failed to achieve a negotiated settlement, the case would go to trial and the court would decide the parties' water rights. Since Raymond Basin was the first groundwater basin to be adjudicated and California water rights law was very complex, the possible outcomes of a trial were highly uncertain. Waiting for the judge's decision was risky.

The parties had already spent four years and considerable sums of money on this dispute. A negotiated settlement offered the possibility of minimizing additional expenses. Negotiation was facilitated by the presence of shared counsel; one attorney was either counsel or special counsel for sixteen of the parties. This unusual communication link made it easier to reach a cooperative agreement.

Most parties agreed to appoint a committee of seven attorneys and engineers to work out a stipulated agreement that could be presented to the court. All but two parties agreed to the stipulation which provided:

1) Admission that taking of the water was adverse to the claims other parties, thus satisfying the requirements of a superior prescriptive right;
2) Allocation of the basin's safe yield among the parties;
3) Declaration and protection of each party's right to a specified proportion of the safe yield; and
4) Arrangement for the exchange of pumping rights among parties

1944 On April 5, 1944, Judge Collier designated the Division of Water Resources to serve as watermaster for the stipulation

Judge Collier signed the judgment on December 23, 1944, adopting the stipulation worked out by the parties. By mid 1944, all of the parties except the California-Michigan Land and Water Company had agreed to the stipulation. His decision is known as "mutual prescription". The judge accepted the determination of a "present unadjusted right" defined as the highest amount of water continuously produced during a five-year period prior to the filing of the lawsuit. Each party owned this right by prescription, and the rights were of equal priority. The judge then defined a "decreed right" for each party which was that party's present unadjusted right adjusted downward about one-third so that the sum of all parties' decreed rights matched the estimated safe yield.

The stipulation and judgment in *Pasadena v. Alhambra* completed the first phase of institution building in Raymond Basin. Water users had constituted a governance structure for the basin through the adjudication process. The stipulation and judgment also established a management program for the basin, within and subject to this basin governance system. The management program was a fairly simple fixed safe-yield operation. The provisions of the stipulation and judgment designated: (1) the set of authorized users of the basin and provided for their entry and exit; (2) assigned them rights to specific quantities of pumped water each year and provided for the exchange, lease or sale of those rights; and (3) limited them in the aggregate to the basin's estimated safe yield.

1945 California-Michigan Land and Water Company appealed the *Pasadena v. Alhambra* judgment and the basic governance structure and management program were quickly called into question. As the judge anticipated, his decision based on the stipulation's idea of mutual prescription was the basis for the California-Michigan Land and Water Company appeal

1947 In response to California-Michigan's appeal, the District Court of Appeal reverses and remands *Pasadena v. Alhambra*

1949 In response to an appeal filed to the District Court of Appeals decision, the California Supreme Court affirmed *Pasadena v. Alhambra* overturning the Court of Appeal and affirming the judge's original judgment. The Supreme Court also considered the interests of the various publics served by Raymond Basin water producers. Proportionate reduction by each producer would be less disruptive of the local water economy than the

complete elimination of rights for some. Without explicitly endorsing the judge's mutual-prescription reasoning, the Supreme Court sustained his result. This had the effect, intended or not, of adding a new doctrine to California water law.

Although a new doctrine had been added, the California law of water rights had not been overturned or revolutionized. *Pasadena v. Alhambra* had been decided and affirmed without overruling any previous water rights decisions. Mutual prescription was not substituted for the old scheme, but allowed to develop alongside it. *Pasadena v. Alhambra* provided an alternative capacity in which groundwater users could resolve overdraft problems. With the Supreme Court's approval of *Pasadena v. Alhambra*, a community of water users who had worked out their own settlement of an overdraft could approach a court with some assurance that the judge would recognize the settlement and place public authority behind it. *Pasadena v. Alhambra* allowed users of an overdrafted basin to constitute their own basin governance systems and management programs.

The advent of mutual prescription meant that pumpers in every nonadjudicated basin in the state faced the uncertain situation of not knowing when a basin could become overdrawn. Therefore, the decision in *Pasadena v. Alhambra* had the unintended effect of encouraging pumpers in other basins to increase pumping in order to enlarge and protect their right after a potential adjudication.

1950 City of Pasadena requested redetermination of Raymond Basin safe yield based on observed changes in basin conditions. The court granted the motion on November 17, 1950 and appointed DWR as referee to make the review.

1955 The DWR Report of Referee filed October 5, 1954 increased the estimated safe yield to a total of 30,622 acre feet. The Court issued a Modification of Judgment on April 29, 1955, increasing the decreed rights of the parties proportionally to a total of 30,622 acre feet, effective July 1, 1955.

1974 On January 17, 1974, the second modification of Raymond Basin Judgment was signed allowing parties credit for spreading of canyon diversions in spreading grounds in the vicinity of the Arroyo Seco, Eaton Wash, and Santa Anita Creek Canyon.

Source of above information: "Dividing the Waters" by William Blomquist

| | |
|---|---|
| 1984 | On March 26, 1984, the third modification of Raymond Basin Judgment was approved, reconstituting the basin governance system by assigning watermaster responsibilities to Raymond Basin Management Board, successor to the Raymond Basin Advisory Board. The Board's authority to manage storage water in the basin ushered in the era of conjunctive use and provided the mechanism for local management of the groundwater resource while retaining the safe yield concept of the original adjudication. |
| 1992-1993 | On October 7, 1992 and March 10, 1993: Long Term Storage policies were adopted and Basin storage capacity determined and allocated to parties for their use; an important step in allowing all parties to benefit from the storage potential of the Basin |
| 2001 | In July of 2001, by way of a letter to the Chief Executive Officer of Metropolitan Water District, the Raymond Basin Board affirmed their support for conjunctive use in the Basin, once potential negative impacts are identified, evaluated, and resolved.<br><br>At the same meeting, the Board approved the proposed concept of the Foothill/Monk Hill Conjunctive Use Program under the following conditions:<br><br>1) Five Monk Hill producers that were also member agencies of Foothill Municipal Water District would participate.<br>2) Storage allotted to the program would be 7,500 acre feet, which was a number equal to 10% of the 75,000 acre feet of storage deemed at that time to be set aside for conjunctive use (CH2 M Hill determined that additional available storage in the Monk Hill was approximately 12,000 acre feet).<br>3) No imported MWD water could be used for injection unless the TDS is lower than 450 ppm.<br>4) Foothill and Monk Hill Producers submit the detailed final agreement terms with MWD for the program for Board evaluation and approval prior to issuing the final approval of the program. |
| 2002 | On July 10, 2002, the Board took action to conceptually approve the MWD Lead Agency Agreement to enable preparation of environmental documentation for the Pasadena portion of the Raymond Basin Conjunctive Use Program. Additionally, the Board appointed a steering |

committee to draft a request for proposal to perform a baseline study of the Basin. The study was intended to be used to evaluate the impacts of ongoing and future storage programs in the Basin.

On August 10, 2002, the Board approved the Lead Agency Agreement for the Raymond Basin/MWD Conjunctive Use Program.

2003 The Board approved the proposed concept of the Foothill/Monk Hill Conjunctive Use Program under the following conditions:
1) Five Monk Hill producers that were also member agencies of Foothill Municipal Water District would participate and storage under the program.
2) Storage would be allotted equitably among those agencies.
3) Storage set aside for the program was increased from 7,500 acre feet to 9,000 acre feet with that amount being subtracted from the other conjunctive use program proposed by the City of Pasadena. This would leave 64, 000 acre feet of storage for future consideration as part of the Pasadena Program.
3) No imported MWD water could be used for injection unless the TDS is lower than 450 ppm.
4) Extraction of project water would only occur after Metropolitan placed a call on this stored water as set forth by the guidelines within the final agreement.

The Board engaged Geoscience to prepare the Baseline Groundwater Assessment of the Raymond Basin which included a ground water flow model of the study area.

The City of Pasadena requested that the Pumping and Storage Committee review the applied calculation for spreading credits in the Arroyo and Milliard Canyons. The City requested that the variable calculation in use at the time be replaced with a straight 80% credit for water spread. After extensive review, the Committee recommended that staff use the 80% calculation as an interim method until the impact on water spread for general benefit could be evaluated. The Board approved this approach on July 9, 2003.

During the summer of 2003, an observation well (the Bricker Well) used in calculating the City of Sierra Madre's Salvage Credit went completely dry. After inspection, it was determined that this condition was due to a combination of age and prolonged dry conditions in the Basin. In October of 2003 the Board made two determinations with regards to the Bricker Well:

1) Base calculations for Sierra Madre's Salvage Credit for that year on the assumption that there was zero outflow from the Basin.
2) Direct the City of Sierra Madre to construct a new observation well.

On December 8, 2003, Raymond Basin submitted its first application for $30 million to the Corps of Engineers Section 219 Environmental Infrastructure Program for a raw water supply pipeline, recharge enhancement and additional monitoring wells.

2004 Recognizing conditions highlighted by the ongoing Baseline Groundwater Assessment; the Board authorized staff to assemble a consulting team to seek Federal Grant funding to implement needed water resource enhancement projects for future supply reliability.

In February of 2004, the Baseline Groundwater Assessment of the Raymond Basin was completed. After initial review of the groundwater modeling for the Baseline Groundwater Assessment Geoscience was authorized to prepare partial tracking and capture zone modeling for the same scenarios used in the study. It was also determined that future additional modeling would be required to fully characterize contamination migration.

Baseline Assessment findings indicated that although proposed storage programs would have minimal impact on Basin water levels, the ability for the Basin to sustain production rates in the long-term may not be feasible without increased replenishment. The basin management strategies outlined in the assessment were used to develop projects and concepts meant to eventually stabilized groundwater levels in the Basin.

In July of 2004 the Board of Directors vote to accept a proposal by the Main San Gabriel Basin Watermaster to provide for Anthony Zampiello's continued service as Executive Officer utilizing Watermaster's staff to provide support. The Raymond Basin Management Board's offices officially move to Azusa, CA.

At their September 2004 strategic planning workshop the Board set a goal to obtain $50 Million in outside funding in matching funds for much needed water resource projects in the Basin. After a series of meetings with other local basin managers and water agencies it is determined that a local coalition should be formed to seek Federal funding.

In October of 2004 Raymond Basin Staff and Board members began to actively participate in Regional Technical meetings hosted by the Main

San Gabriel Basin Watermaster. These meetings were designed to identify regional water supply issues and possible solutions. The study area included Foothill and Valley Communities stretching from Rancho Cucamonga to La Canada/Flintridge.

Raymond Basin along with other water agencies and municipalities collaborate to develop water supply enhancement projects which are packaged together and called the Southern California Foothill Communities Water Supply Reliability Program (WSRP).
Study projects include:
1) A 14 mile imported replenishment water pipeline from Azusa into the Raymond Basin eventually terminating in northern Pasadena.
2) An inter-connection from the Metropolitan Water District Foothill Feeder to the San Gabriel Valley Municipal Water District's (SGVMWD) pipeline in the San Dimas/La Verne area.
3) Emergency interconnections from the SGVMWD pipeline to the Water Facilities Authority, Three Valleys Municipal Water District and Inland Empire Utilities Agency treatment plants in the eastern San Gabriel Valley and Inland Empire.
4) The extension of the SGVMWD water delivery system south to the Alhambra, San Gabriel and Monterey Park area to mitigate groundwater production impacts in the area of the Main San Gabriel Basin commonly referred to as the Alhambra Pumping Hole.
5) An area-wide reconnaissance and feasibility study of natural groundwater recharge enhancement opportunities using new and existing facilities within the combined watersheds. The study area includes portions of the Raymond Basin, Main San Gabriel Basin, Six Basins and Chino Basin.

2005 January 12, 2005, Raymond Basin holds a community meeting for State and local elected officials to unveil the Southern California Foothill Communities Water Supply Reliability Program (WSRP).

February 2005, the Board is informed that the Foothill Conjunctive Use Program and City of Pasadena's storage proposal will not include a State Water Project Pipeline extension from the Glendale area. MWD also informs the Board that it will no longer be the lead agency for CEQA purposes on the 64,000 acre foot Pasadena Storage Program.

In October 2005, construction on the Chelsea Well (the Bricker Well replacement) is completed.

2006 Draft Supplemental Water Quality Criteria for Raymond Basin is published in March and distributed to the all parties to the judgment.

May 17, 2006, the MWD Board approves $480,000 to reimburse the City of Pasadena for CEQA review and preliminary design work to develop a 64, 000 acre foot storage program within the Raymond Basin.

July 2006, the Board entered into an Agreement to provide in-kind services as a partner in the Arroyo Watershed Feasibility Study to identify and evaluate potential habitat an water supply restoration projects along the Arroyo Seco Corridor.

October 2006, the Board adopted criteria for supplemental water paving the way for development of replenishment and supplemental water to be stored.

2007 Raymond Basin Management Board and Main San Gabriel Basin Watermaster formed the Foothill Water Coalition (FWC). The main focus of the Coalition is to cooperatively seek Federal and State funding for regional water supply reliability projects. The charter members include the Raymond Basin Management Board, Main San Gabriel Basin Watermaster, San Gabriel Valley Municipal Water District, Upper San Gabriel Valley Municipal Water District, Three Valleys Municipal Water District, Inland Empire Utilities Agency, Six Basins and Chino Basin Watermaster.

January 2007, Monk Hill Task Force or working group is formed to review and resolve issues unique to the Monk Hill producers and their region.

April 2007, Raymond Basin staff is authorized to act as lead administrative agency for The Water Supply Reliability Coalition, which would eventually become the Foothill Water Coalition.

October 2007, as planned, the Board authorizes work to begin on (Phase I) of comprehensive Ground Water Monitoring and Management Plan , mainly focused on groundwater level and extraction management strategies in the Pasadena Subarea, of the Western Unit.

November 2007, HR 1495- The Water Resources Development Act became United States Law 110-114 on November 9, 2007. Section 5050 of that law authorizes $5 million for Raymond Basin and FWC projects.

2008 January 2008, Recognizing declining water levels and impacts on supply the Board adopted resolution 42-0109. Resolution 42-0109 puts in place self imposed pumping reductions of 30% implemented over five years in the Pasadena Subarea. This resolution was adopted with the goal of a reduction of water produced below 1955 Decreed Rights from 17,843 Acre Feet to 12,493 Acre Feet, dissolution of remaining Long-Term Storage accounts and increased groundwater levels. In order to meet this goal, water production reductions were implemented incrementally at a rate of 1,070 Acre Feet per year for five years until a 30% reduction is achieved. Implementation set to begin July 1, 2009.

July 2008, as Lead Agency for the Foothill Water Coalition, the Raymond Basin Management Board enters into a planning agreement with the Army Corps of Engineers to prepare the project implementation plan for the feasibility and implementation of the Coalition and Raymond Basin suite of water reliability projects.

2009 January 2009, the Board approved Resolution 43-0409 creating the Monk Hill Perchlorate Pool. The Resolution established a temporary storage pool for clean-up of un-produced water in the area of the Raymond Basin, Western Unit, known as the Monk Hill Subarea. The goal is to help mitigate Perchlorate contamination in the Monk Hill Subarea and retaining water production historically transferred to the area of the Raymond Basin, Western Unit, known as the Pasadena Subarea as Long Term Storage. By establishing the Clean-up Pool (Clean-up Pool) this Resolution is intended as a means to improve water quality and supply conditions in order to avoid disputes between impacted parties

# APPENDIX C

Program for Spreading

Credit Certification

by
Los Angeles County Department of Public Works
and
Raymond Basin Management Board

**PRELIMINARY**

## SUMMARY OF WATER DIVERSIONS, SPREAD AND PUMPING CREDIT 1/

(acre feet)

| | Eaton Canyon Area | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Kinneloa Irrigation District | | | | | | | | | | | Las Flores Water Company | | | City of Pasadena Eaton Wash | | | Rubio Canon Land & Water Association | | |
| | Eaton Wash | | Pasadena Glen | | | Brown Reservoir | | | Total | | | | | | | | | | | |
| Month/Year | Diverted | Spread | Diverted | Outflow | Spread | Diverted | Outflow | Spread | Diverted | Spread | Credit 2/ | Diverted | Spread | Credit 2/ | Diverted | Spread | Credit 2/ | Diverted | Spread | Credit 2/ |
| Jul-09 | 1.7 | 1.7 | 5.8 | 0.0 | 5.8 | 0.0 | 0.0 | 0.0 | 7.5 | 7.5 | **6.0** | 6.5 | 6.5 | **5.2** | 3.8 | 3.8 | **3.0** | 4.5 | 4.5 | **3.6** |
| Aug-09 | 1.6 | 1.6 | 5.8 | 0.0 | 5.8 | 0.0 | 0.0 | 0.0 | 7.4 | 7.4 | **5.9** | 6.6 | 6.6 | **5.3** | 5.8 | 5.8 | **4.6** | 3.1 | 3.1 | **2.5** |
| Sep-09 | 1.5 | 1.5 | 5.5 | 0.0 | 5.5 | 0.0 | 0.0 | 0.0 | 7.0 | 7.0 | **5.6** | 6.1 | 6.1 | **4.9** | 9.9 | 9.9 | **7.9** | 2.4 | 2.4 | **1.9** |
| Oct-09 | 1.6 | 1.5 | 5.9 | 0.0 | 5.9 | 0.0 | 0.0 | 0.0 | 7.5 | 7.4 | **5.9** | 6.3 | 6.0 | **4.8** | 54.1 | 51.1 | **40.9** | 1.9 | 1.8 | **1.4** |
| Nov-09 | 1.5 | 1.5 | 6.0 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 7.5 | 7.5 | **6.0** | 5.8 | 5.8 | **4.6** | 17.0 | 17.0 | **13.6** | 4.6 | 4.6 | **3.7** |
| Dec-09 | 1.6 | 0.9 | 6.8 | 0.0 | 6.8 | 0.0 | 0.0 | 0.0 | 8.4 | 7.7 | **6.2** | 5.7 | 3.2 | **2.6** | 44.1 | 24.6 | **19.7** | 2.5 | 1.4 | **1.1** |
| Jan-10 | 1.6 | 1.1 | 8.2 | 0.0 | 8.2 | 0.0 | 0.0 | 0.0 | 9.8 | 9.3 | **7.4** | 20.6 | 14.9 | **11.9** | 233.1 | 168.4 | **134.7** | 20.7 | 15.0 | **12.0** |
| Feb-10 | 1.7 | 1.4 | 8.9 | 0.0 | 8.9 | 0.0 | 0.0 | 0.0 | 10.6 | 10.3 | **8.2** | 21.8 | 17.6 | **14.1** | 307.8 | 248.6 | **198.9** | 56.4 | 45.5 | **36.4** |
| Mar-10 | 2.2 | 1.7 | 8.5 | 0.0 | 8.5 | 0.0 | 0.0 | 0.0 | 10.7 | 10.2 | **8.2** | 13.2 | 10.6 | **8.5** | 254.5 | 204.5 | **163.6** | 28.8 | 23.1 | **18.5** |
| Apr-10 | 2.1 | 1.5 | 6.8 | 0.0 | 6.8 | 0.0 | 0.0 | 0.0 | 8.9 | 8.3 | **6.6** | 14.8 | 10.9 | **8.7** | 190.1 | 139.7 | **111.8** | 9.7 | 7.1 | **5.7** |
| May-10 | 2.2 | 1.8 | 6.7 | 0.0 | 6.7 | 0.0 | 0.0 | 0.0 | 8.9 | 8.5 | **6.8** | 10.9 | 8.8 | **7.0** | 133.7 | 108.3 | **86.6** | 2.0 | 1.6 | **1.3** |
| Jun-10 | 2.1 | 2.0 | 5.9 | 0.0 | 5.9 | 0.0 | 0.0 | 0.0 | 8.0 | 7.9 | **6.3** | 7.0 | 6.8 | **5.4** | 66.6 | 64.1 | **51.3** | 2.2 | 2.1 | **1.7** |
| | 21.4 | 18.2 | 80.8 | 0.0 | 80.8 | 0.0 | 0.0 | 0.0 | 102.2 | 99.0 | **79.1** | 125.3 | 103.8 | **83.0** | 1,320.5 | 1,045.8 | **836.6** | 138.8 | 112.2 | **89.8** |

1/ Raymond Basin Management Board computed the diversions and pumping credit; Los Angeles County Department of Public Works determined the spreading amounts.
2/ Based on 80% times amount Spread for all Parties

## SUMMARY OF WATER DIVERSIONS, SPREAD AND PUMPING CREDIT [3/]

(acre feet)

| | Arroyo Seco Area | | | | | | | | | | | | | | | TOTAL EATON CANYON AND ARROYO SECO | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Lincoln Avenue Water Company[4/] | | | City of Pasadena | | | | | | | | | | | | | | |
| | | | | Arroyo Seco | | | Millard Canyon | | | PWP Ponds | | | Total | | | | | |
| Month/Year | Diverted | Spread | **Credit [5/]** | Diverted | Spread | **Credit [5/]** | Diverted | Spread | **Credit [5/]** | Diverted | Spread | **Credit [6/]** | Diverted | Spread | **Credit** | Diverted | Spread | **Credit** |
| Jul-09 | 20.0 | 20.0 | **12.0** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.6 | 20.6 | 16.5 | 20.6 | 20.6 | **16.5** | 62.9 | 62.9 | **46.3** |
| Aug-09 | 15.4 | 15.4 | **9.2** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.8 | 11.8 | 9.4 | 11.8 | 11.8 | **9.4** | 50.1 | 50.1 | **36.9** |
| Sep-09 | 17.5 | 17.5 | **10.5** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.1 | 12.1 | 9.7 | 12.1 | 12.1 | **9.7** | 55.0 | 55.0 | **40.5** |
| Oct-09 | 19.1 | 19.1 | **11.5** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.3 | 12.3 | 9.8 | 12.3 | 12.3 | **9.8** | 101.2 | 97.7 | **74.3** |
| Nov-09 | 12.5 | 12.5 | **7.5** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 4.1 | 3.3 | 4.1 | 4.1 | **3.3** | 51.5 | 51.5 | **38.7** |
| Dec-09 | 41.1 | 41.1 | **24.7** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **0.0** | 101.8 | 78.0 | **54.3** |
| Jan-10 | 66.3 | 66.3 | **39.8** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **0.0** | 350.5 | 273.9 | **205.8** |
| Feb-10 | 75.8 | 75.8 | **45.5** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **0.0** | 472.4 | 397.8 | **303.1** |
| Mar-10 | 72.7 | 72.7 | **43.6** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **0.0** | 379.9 | 321.1 | **242.4** |
| Apr-10 | 70.1 | 70.1 | **42.1** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **0.0** | 293.6 | 236.1 | **174.9** |
| May-10 | 54.5 | 54.5 | **32.7** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **0.0** | 210.0 | 181.7 | **134.4** |
| Jun-10 | 43.4 | 43.4 | **26.0** | 16.4 | 16.4 | 9.8 | 0.0 | 0.0 | 0.0 | 40.3 | 40.3 | 32.2 | 56.7 | 56.7 | **42.0** | 183.9 | 181.0 | **132.7** |
| | 508.4 | 508.4 | **305.1** | 16.4 | 16.4 | 9.8 | 0.0 | 0.0 | 0.0 | 101.2 | 101.2 | 80.9 | 117.6 | 117.6 | **90.7** | 2,312.8 | 1,986.8 | **1,484.3** |

3/ Arroyo Seco and Millard Canyon spreading calculated in accordance with procedures in Attachment A to July 9, 2003 meeting minutes and Raymond Basin Area Spreading Methodology.
4/ Includes La Vina Canyon weir spreading.
5/ Based on 60% times amount diverted for Lincoln Avenue Water Company and City of Pasadena (Arroyo Seco & Millard Canyon). Remaining 40% spread for general benefit of basin, as shown on page C-3
6/ Based on 80% times amount spread for City of Pasadena (PWP Ponds)

SUMMARY OF WATER DIVERSIONS, SPREAD AND PUMPING CREDIT [7/]
(acre feet)

| Month/Year | Other Spread | | | | Total Raymond Basin Spread |
|---|---|---|---|---|---|
| | Los Angeles County Department of Public Works | | Lincoln Avenue Water Company and City of Pasadena | City of Sierra Madre | |
| | Eaton Wash | Santa Anita | Arroyo Seco Area General Benefit [8/] | Little Santa Anita Canyon and street runoff | |
| Jul-09 | 0.0 | 6.0 | 8.0 | 28.4 | 105.3 |
| Aug-09 | 0.0 | 0.0 | 6.2 | 15.5 | 71.8 |
| Sep-09 | 0.0 | 0.0 | 7.0 | 15.0 | 77.0 |
| Oct-09 | 0.0 | 0.0 | 7.6 | 15.5 | 120.8 |
| Nov-09 | 0.0 | 22.0 | 5.0 | 51.3 | 129.8 |
| Dec-09 | 156.0 | 47.0 | 16.4 | 174.7 | 472.1 |
| Jan-10 | 148.0 | 143.0 | 26.5 | 344.6 | 936.0 |
| Feb-10 | 253.0 | 205.0 | 30.3 | 601.1 | 1,487.2 |
| Mar-10 | 339.0 | 126.0 | 29.1 | 655.7 | 1,470.9 |
| Apr-10 | 135.0 | 113.0 | 28.0 | 238.5 | 750.6 |
| May-10 | 0.0 | 51.0 | 21.8 | 217.0 | 471.5 |
| Jun-10 | 0.0 | 38.0 | 23.9 | 177.7 | 420.6 |
| | 1,031.0 | 751.0 | 209.8 | 2,535.1 | 6,513.7 |

7/ Raymond Basin Management Board computed the diversions and pumping credit.
8/ Based on 40% times amount Lincoln Avenue Water Company and City of Pasadena diverted in Arroyo Seco Area, as shown on page C-2.

# APPENDIX D

RAYMOND BASIN GROUNDWATER PRODUCTION SUMMARY
JULY 2009-JUNE 2010
(in acre-feet)

| PARTY NAME | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | YTD AF TOTALS | ANNUAL [1/] ALLOWABLE | BALANCE | YTD % PUMPED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Monk Hill Basin** | | | | | | | | | | | | | | | | |
| La Canada Irrigation District* | 72.84 | 60.69 | 39.89 | 9.71 | 0.09 | 0.03 | 0.00 | 0.09 | 0.14 | 0.00 | 44.25 | 45.83 | 273.56 | 110.00 | -163.56 | 248.7% |
| Las Flores Water Company | 37.27 | 38.19 | 35.69 | 28.51 | 28.89 | 21.67 | 19.48 | 14.12 | 20.22 | 20.26 | 27.14 | 15.37 | 306.81 | 321.00 | 14.19 | 95.6% |
| Lincoln Avenue Water Company | 231.23 | 208.04 | 95.07 | 101.80 | 89.90 | 107.28 | 103.74 | 97.34 | 38.13 | 0.00 | 0.00 | 0.03 | 1,072.56 | 707.30 | -365.26 | 151.6% |
| Pasadena, City of | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.33 | 0.51 | 1.06 | 0.64 | 2.78 | 5,778.10 | 5,775.32 | 0.0% |
| Pasadena Cemetery Association | 15.83 | 15.10 | 15.93 | 4.92 | 8.43 | 2.57 | 1.41 | 0.46 | 1.16 | 5.14 | 5.14 | 9.81 | 85.90 | 91.00 | 5.10 | 94.4% |
| Rubio Canon Land & Water Assoc. | 235.53 | 238.75 | 219.78 | 170.86 | 19.09 | 0.35 | 0.32 | 1.37 | 0.88 | 0.62 | 152.86 | 171.95 | 1,212.36 | 1,286.00 | 73.64 | 94.3% |
| Valley Water Company | 141.52 | 229.98 | 187.23 | 115.89 | 90.77 | 0.00 | 0.32 | 0.51 | 0.52 | 1.08 | 2.32 | 139.65 | 909.79 | 836.60 | -73.19 | 108.7% |
| **Subtotals** | **734.22** | **790.75** | **593.59** | **431.69** | **237.17** | **131.90** | **125.27** | **114.13** | **61.38** | **27.61** | **232.77** | **383.28** | **3,863.76** | 9,130.00 | 5,266.24 | 42.3% |
| *Prior Year* | *789.54* | *798.79* | *723.52* | *717.49* | *556.86* | *340.21* | *302.60* | *178.01* | *182.78* | *237.76* | *461.43* | *547.45* | *5,836.44* | | | |
| **Pasadena Subarea with 6% Reduction** | | | | | | | | | | | | | | | | |
| Alhambra, City of | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,072.24 | 1,072.24 | 0.0% |
| Arcadia, City of | 161.89 | 150.24 | 122.68 | 147.50 | 142.07 | 159.96 | 130.14 | 18.40 | 35.03 | 131.74 | 194.41 | 191.40 | 1,585.46 | 2,202.72 | 617.26 | 72.0% |
| California-American Water Co. | 169.63 | 159.57 | 197.69 | 122.70 | 141.15 | 163.01 | 137.42 | 97.59 | 128.90 | 116.06 | 137.04 | 120.30 | 1,691.06 | 2,390.97 | 699.91 | 70.7% |
| East Pasadena Water Company | 52.53 | 46.94 | 47.90 | 39.37 | 36.08 | 25.40 | 23.51 | 20.46 | 15.73 | 12.62 | 17.36 | 21.36 | 359.26 | 535.60 | 176.34 | 67.1% |
| Huntington Library & Art Gallery | 75.85 | 62.96 | 58.47 | 27.93 | 19.37 | 4.47 | 5.16 | 1.56 | 6.08 | 9.59 | 26.19 | 44.21 | 341.84 | 386.88 | 45.04 | 88.4% |
| Kinneloa Irrigation District | 70.86 | 74.14 | 76.05 | 56.07 | 47.88 | 24.93 | 19.99 | 25.47 | 29.83 | 43.97 | 76.04 | 72.61 | 617.84 | 627.74 | 9.90 | 98.4% |
| Pasadena, City of | 1,151.43 | 1,133.91 | 1,100.49 | 1,107.71 | 948.17 | 751.92 | 709.15 | 587.56 | 665.53 | 712.78 | 871.21 | 837.67 | 10,577.53 | 8,231.12 | -2,346.41 | 128.5% |
| San Gabriel County Water Dist. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,134.64 | 1,134.64 | 0.0% |
| Sunny Slope Water Company | 120.67 | 100.03 | 102.29 | 64.70 | 42.08 | 0.00 | 0.00 | 0.00 | 4.28 | 44.84 | 83.11 | 124.20 | 686.20 | 1,620.32 | 934.12 | 42.3% |
| **Subtotals** | **1,802.86** | **1,727.79** | **1,705.57** | **1,565.98** | **1,376.80** | **1,129.69** | **1,025.37** | **751.04** | **885.38** | **1,071.60** | **1,405.36** | **1,411.75** | **15,859.19** | 18,202.23 | 2,343.04 | 87.1% |
| *Prior Year* | *1,727.03* | *1,673.51* | *1,598.51* | *1,579.13* | *1,476.84* | *1,296.85* | *1,325.10* | *1,135.57* | *1,370.67* | *1,454.52* | *1,649.71* | *1,692.10* | *17,979.54* | | | |
| **Western Unit Totals** | **2,537.08** | **2,518.54** | **2,299.16** | **1,997.67** | **1,613.97** | **1,261.59** | **1,150.64** | **865.17** | **946.76** | **1,099.21** | **1,638.13** | **1,796.03** | **19,722.95** | | | |
| *Prior Year* | *2,516.57* | *2,472.30* | *2,322.03* | *2,296.62* | *2,033.70* | *1,637.06* | *1,627.70* | *1,313.58* | *1,553.45* | *1,692.28* | *2,111.14* | *2,239.55* | *23,815.98* | | | |
| **Santa Anita Subarea** | | | | | | | | | | | | | | | | |
| Arcadia, City of | 201.55 | 235.76 | 221.67 | 216.73 | 189.59 | 189.03 | 157.53 | 155.78 | 179.87 | 180.09 | 227.78 | 293.07 | 2,448.45 | 3,878.60 | 1,430.15 | 63.1% |
| Sierra Madre, City of | 296.16 | 332.36 | 306.32 | 253.60 | 228.02 | 154.08 | 138.60 | 87.34 | 126.21 | 136.18 | 209.75 | 255.87 | 2,524.49 | 5,058.40 | 2,533.91 | 49.9% |
| **Subtotals** | **497.71** | **568.12** | **527.99** | **470.33** | **417.61** | **343.11** | **296.13** | **243.12** | **306.08** | **316.27** | **437.53** | **548.94** | **4,972.94** | 8,937.00 | 3,964.06 | 55.6% |
| *Prior Year* | *612.64* | *632.76* | *580.64* | *577.80* | *501.47* | *413.03* | *443.68* | *377.58* | *402.24* | *447.75* | *468.38* | *463.13* | *5,921.10* | | | |
| **RAYMOND BASIN TOTALS** | **3,034.79** | **3,086.66** | **2,827.15** | **2,468.00** | **2,031.58** | **1,604.70** | **1,446.77** | **1,108.29** | **1,252.84** | **1,415.48** | **2,075.66** | **2,343.97** | **24,695.89** | 36,269.23 | 11,573.34 | 68.1% |
| *Prior Year* | *3,129.21* | *3,105.06* | *2,902.67* | *2,874.42* | *2,535.17* | *2,050.09* | *2,071.38* | *1,691.16* | *1,955.69* | *2,140.03* | *2,579.52* | *2,702.68* | *29,737.08* | | | |

[1/] Annual Allowable: Decreed Right, Carryover Right, Prior year spreading credit, and 6% Reduction in the Pasadena Subarea. Does not reflect any Leased amounts

* **FHCUP STORAGE EXTRACTIONS (July '09 to June '10) certified by Foothill Municipal Water District**

| | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | **TOTAL** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| La Canada Irrigation District | 72.80 | 60.70 | 40.00 | 9.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | **183.20** |

# APPENDIX E

Change in Well Status

# APPENDIX E

## 2009-10 CHANGE IN WELL STATUS

| Party | Owner Designation | Recordation Number |
|---|---|---|
| New Wells | | |
| H.E. Huntington Library & Art Gallery | Buddy Moss | |
| City of Arcadia | Colorado | |
| Destroyed Wells | | |
| None | | |

# APPENDIX F

Foothill Conjunctive Use Program

# APPENDIX F

FOOTHILL CONJUNCTIVE USE PROGRAM
Fiscal Year 2009-10

| Party | Storage @ 6/30/2009 1/ | Added 2/ Transferred | Loss (1%) | Extracted | Storage @ 6/30/2010 |
|---|---|---|---|---|---|
| Alhambra, City of | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Arcadia, City of | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cal-American Water Co. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| East Pasadena Water Co. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Huntington Library | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kinneloa Irrigation District | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| La Canada Irrigation District | 149.5 | 33.7 | 0.0 | (183.2) | 0.0 |
| Las Flores Water Co. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lincoln Avenue Water Co. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pasadena Cemetery | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Rubio Canon Land & Water | 49.4 | 0.0 | (0.5) | 0.0 | 48.9 |
| San Gabriel County Water District | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sierra Madre, City of | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sunny Slope Water Co. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Valley Water Co. | 512.2 | (33.7) | (4.7) | 0.0 | 473.8 |
| **TOTAL** | **710.9** | **0.0** | **(5.2)** | **(183.2)** | **522.5** |

1/ 1,971 AF of CSP was converted into FHCUP as of July 1, 2005.
2/ FHCUP Storage Amounts based on individual agreements with FMWD.
FHCUP Storage may vary according to Annual Operating Plan.

**Fiscal Year 2009-10**

**Annual Report for the Foothill Area Conjunctive Use Program Operating Committee**

The following presents the Annual Report for the Foothill Area Conjunctive Use Program (Foothill CUP) Operating Committee for period July 1, 2009 to June 30, 2010. This document is submitted in accordance with the Operating Committee provisions outlined in Section VI.4 of "Agreement No. 49961 Groundwater Storage Program Funding Agreement by and between Metropolitan and Foothill Municipal Water District" dated February 11, 2003.

## Operating Committee Members

In accordance with Section VI.A.1 of the Foothill CUP Agreement, the operating committee consists of two members selected by Foothill MWD and the Raymond Basin Management Board and two members selected by Metropolitan. The members for the reporting period were:

- Nina Jazmadarian, Foothill MWD
- Tony Zampiello, Raymond Basin Management Board
- Matthew Hacker, Metropolitan
- Barbara Witt, Metropolitan

## Activities during the Reporting Period

- The Operating Committee did not meet during this fiscal year.

## Amounts of Water Stored and Extracted during Fiscal Year 2009/10

Metropolitan made a call under the terms of the agreement for 1,200 acre-ft for the 12-month reporting period from November 1, 2008 to October 31, 2009. A total of 1,032.1 AF of groundwater extraction was certified under this call as of October 31, 2009. During fiscal year 2009/10, 183.2 acre-ft of water was certified. Data are summarized in **Table 1** and **Table 2**.

**Table 1**
**Monthly Certified Storage and Extraction for Report Period**

| Category | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Storage** | | | | | | | | | | | | | |
| In-lieu | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Injection | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Total** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** | **0.0** |
| **Extraction** | | | | | | | | | | | | | |
| Pumping | 72.8 | 60.7 | 40 | 9.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | **183.2** |

In accordance with the agreement, the 1 percent program losses of 5.3 acre-ft were assessed on June 30, 2010 as shown in **Table 2**. As of June 30, 2010, the program balance was 522.2 acre-ft.

**Table 2**
**Summary Water Stored and Extracted During Report Period**

| **Category** | **Actual (AF)** |
|---|---|
| **Balance (7/1/2009)** | 710.7 |
| **Storage** | |
| In-lieu | 0.0 |
| Injection | 0.0 |
| **Total Storage** | **0.0** |
| **Extraction** | -183.2 |
| Losses | **-5.3** |
| **Balance (6/30/2010)** | **522.2** |

## Annual Operating Plan for Fiscal Year 20010-11

Metropolitan is not planning to store or extract water during the 2010/11 fiscal year, an operating plan is not submitted at this time. If conditions change, the Operating Committee will meet to discuss preparing an Operating Plan.

# APPENDIX G

Jet Propulsion Laboratories
OU-1 System

# APPENDIX G

Jet Propulsion Laboratories OU-1 System Operational Summary FY 2009-10

| STATE WELL NO./ OWNER DESIGNATION | DATE MONTH/YR | ACRE-FEET | METER READING | UNITS/ NOTES |
|---|---|---|---|---|
| | Jun-09 | -BEGINNING- | 44901612 | GALLONS |
| **EXTRACTION WELL NO. 1** | Jul-09 | 0.00 | 44901612 | |
| | Aug-09 | 0.00 | 44901612 | |
| RECORDATION NO: | Sep-09 | 0.00 | 44901612 | |
| | Oct-09 | 0.00 | 44901612 | |
| | Nov-09 | 0.00 | 44901612 | |
| ESTIMATED FLOW: | Dec-09 | 0.00 | 44901612 | |
| X GPM OR X CFS | Jan-10 | 0.00 | 44901612 | |
| | Feb-10 | 0.00 | 44901612 | |
| REFERENCE ELEV.: | Mar-10 | 0.00 | 44901612 | |
| X FEET | Apr-10 | 0.00 | 44901612 | |
| | May-10 | 0.00 | 44901612 | |
| FLOW CAPAC.: X GPM | Jun-10 | 0.00 | 44901612 | |
| | TOTAL ACRE FEET | 0.00 | | |

| STATE WELL NO./ OWNER DESIGNATION | DATE MONTH/YR | ACRE-FEET | METER READING | UNITS/ NOTES |
|---|---|---|---|---|
| | Jun-09 | -BEGINNING- | 160474655 | GALLONS |
| **INJECTION WELL NO. 1** | Jul-09 | 16.99 | 166010183 | |
| | Aug-09 | 12.24 | 169999511 | |
| RECORDATION NO: | Sep-09 | 15.97 | 175202330 | |
| | Oct-09 | 11.01 | 178788758 | |
| | Nov-09 | 8.89 | 181685728 | |
| ESTIMATED FLOW: | Dec-09 | 5.09 | 183344631 | |
| X GPM OR X CFS | Jan-10 | 4.62 | 184850355 | |
| | Feb-10 | 2.07 | 185524524 | |
| REFERENCE ELEV.: | Mar-10 | 12.36 | 189550944 | |
| X FEET | Apr-10 | 10.96 | 193121500 | |
| | May-10 | 0.00 | 193121500 | |
| FLOW CAPAC.: X GPM | Jun-10 | 20.38 | 199762408 | |
| | TOTAL ACRE FEET | 120.58 | | |

| STATE WELL NO./ OWNER DESIGNATION | DATE MONTH/YR | ACRE-FEET | METER READING | UNITS/ NOTES |
|---|---|---|---|---|
| | Jun-09 | -BEGINNING- | 180927131 | GALLONS |
| **EXTRACTION WELL NO. 2** | Jul-09 | 12.38 | 184962120 | |
| | Aug-09 | 9.18 | 187953670 | |
| RECORDATION NO: | Sep-09 | 10.64 | 191420637 | |
| | Oct-09 | 10.35 | 194791920 | |
| | Nov-09 | 11.87 | 198660846 | |
| ESTIMATED FLOW: | Dec-09 | 8.07 | 201290398 | |
| X GPM OR X CFS | Jan-10 | 5.41 | 203054474 | |
| | Feb-10 | 0.00 | 203054474 | |
| REFERENCE ELEV.: | Mar-10 | 8.02 | 205669150 | |
| X FEET | Apr-10 | 8.17 | 208330696 | |
| | May-10 | 7.53 | 210784507 | |
| FLOW CAPAC.: X GPM | Jun-10 | 11.57 | 214554157 | |
| | TOTAL ACRE FEET | 103.19 | | |

| STATE WELL NO./ OWNER DESIGNATION | DATE MONTH/YR | ACRE-FEET | METER READING | UNITS/ NOTES |
|---|---|---|---|---|
| | Jun-09 | -BEGINNING- | 143342577 | GALLONS |
| **INJECTION WELL NO. 2** | Jul-09 | 11.39 | 147054560 | |
| | Aug-09 | 6.72 | 149243655 | |
| RECORDATION NO: | Sep-09 | 10.57 | 152688285 | |
| | Oct-09 | 8.73 | 155533137 | |
| | Nov-09 | 6.70 | 157717592 | |
| ESTIMATED FLOW: | Dec-09 | 4.20 | 159086147 | |
| X GPM OR X CFS | Jan-10 | 1.80 | 159673461 | |
| | Feb-10 | 5.89 | 161592005 | |
| REFERENCE ELEV.: | Mar-10 | 7.95 | 164181322 | |
| X FEET | Apr-10 | 6.61 | 166334381 | |
| | May-10 | 6.29 | 168385029 | |
| FLOW CAPAC.: X GPM | Jun-10 | 6.64 | 170548996 | |
| | TOTAL ACRE FEET | 83.49 | | |

| STATE WELL NO./ OWNER DESIGNATION | DATE MONTH/YR | ACRE-FEET | METER READING | UNITS/ NOTES |
|---|---|---|---|---|
| | Jun-09 | -BEGINNING- | 155596317 | GALLONS |
| **EXTRACTION WELL NO.3** | Jul-09 | 26.66 | 164283298 | |
| | Aug-09 | 23.01 | 171781107 | |
| RECORDATION NO: | Sep-09 | 28.52 | 181073069 | |
| | Oct-09 | 26.30 | 189642827 | |
| | Nov-09 | 28.16 | 198819422 | |
| ESTIMATED FLOW: | Dec-09 | 24.99 | 206963081 | |
| X GPM OR X CFS | Jan-10 | 28.97 | 216401362 | |
| | Feb-10 | 27.30 | 225297870 | |
| REFERENCE ELEV.: | Mar-10 | 29.88 | 235032852 | |
| X FEET | Apr-10 | 26.51 | 243671724 | |
| | May-10 | 25.84 | 252092421 | |
| FLOW CAPAC.: X GPM | Jun-10 | 31.94 | 262499128 | |
| | TOTAL ACRE FEET | 328.08 | | |

| STATE WELL NO./ OWNER DESIGNATION | DATE MONTH/YR | ACRE-FEET | METER READING | UNITS/ NOTES |
|---|---|---|---|---|
| | Jun-09 | -BEGINNING- | 88051065 | GALLONS |
| **INJECTION WELL NO. 3** | Jul-09 | 11.43 | 91774266 | |
| | Aug-09 | 14.65 | 96548125 | |
| RECORDATION NO: | Sep-09 | 14.09 | 101139050 | |
| | Oct-09 | 17.58 | 106868126 | |
| | Nov-09 | 24.17 | 114742576 | |
| ESTIMATED FLOW: | Dec-09 | 25.76 | 123137239 | |
| X GPM OR X CFS | Jan-10 | 28.14 | 132307849 | |
| | Feb-10 | 19.89 | 138789921 | |
| REFERENCE ELEV.: | Mar-10 | 19.32 | 145085622 | |
| X FEET | Apr-10 | 18.72 | 151186785 | |
| | May-10 | 19.78 | 157631100 | |
| FLOW CAPAC.: X GPM | Jun-10 | 27.80 | 166689042 | |
| | TOTAL ACRE FEET | 241.33 | | |

**NOTES: 1.**

IW-3* Discharge to Sewer Sys:

| Meter Reading: Jun 09 = 1724799 g | Acre Feet | Date: | Gallons: | Acre Feet |
|---|---|---|---|---|
| 1762547 | 0.12 | Jul-09 | 0 | 0.00 |
| 1787620 | 0.08 | Aug-09 | 12,000 | 0.04 |
| 1806184 | 0.06 | Sep-09 | 12,000 | 0.04 |
| 1818838 | 0.04 | Oct-09 | 12,000 | 0.04 |
| 1843233 | 0.07 | Nov-09 | 0 | 0.00 |
| 1894752 | 0.16 | Dec-09 | 0 | 0.00 |
| 1947581 | 0.16 | Jan-10 | 0 | 0.00 |
| 1947581 | 0.00 | Feb-10 | 0 | 0.00 |
| 2074576 | 0.39 | Mar-10 | 0 | 0.00 |
| 2074576 | 0.00 | Apr-10 | 12,000 | 0.04 |
| 2086704 | 0.04 | May-10 | 0 | 0.00 |
| 2137762 | 0.16 | Jun-10 | 12,000 | 0.04 |
| | 1.16 | | 60,000 | 0.18 |

*Water removed for well maintenance

| Extractions and Injection Summary FY 2009-10 | | | | | |
|---|---|---|---|---|---|
| **Parameter** | **Units** | **EW/IW-1** | **EW/IW-2** | **EW/IW-3** | **Total** |
| Total Volume of Groundwater Extracted | Acre Feet | 0.00 | 103.19 | 328.08 | 431.27 |
| Total Volume of Groundwater Sent to Sewer | Acre Feet | - | - | - | 0.40 |
| Total Volume of Groundwater Reinjected | Acre Feet | 120.58 | 83.49 | 241.33 | 445.40 |
| Mass of Perchlorate Removed | lbs. | 0 | 11 | 140 | 151.00 |
| Mass of Carbon Tetrachloride (CCl4) Removed | lbs. | 0 | 0.9 | 1.5 | 2.40 |
| Mass of Trichloroethene (TCE) Removed | lbs. | 0 | 0 | 0.2 | 0.20 |

**All Numbers provided by JPL.**

# APPENDIX H

Monk Hill Subarea Perchlorate Treatment Pool

# APPENDIX H - MONK HILL SUBAREA PERCHLORATE TREATMENT POOL

(acre feet)

| Party Name | Storage @ 6/30/09 | Added @ 6/30/10 | Loss @ 6/30/10 | Storage @ 6/30/10 | 12,000 AF Maximum Pool | Available Pool Storage (July 10 - July 14) |
|---|---|---|---|---|---|---|
| **Monk Hill Subarea** | | | | | **12,000.0** | **4,251.9** |
| La Canada Irrigation District | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Las Flores Water Company | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Lincoln Avenue Water Company | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Pasadena Cemetery | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Pasadena, City 1/ | 4,087.5 | 3,701.4 | (40.9) | 7,748.1 | (7,748.1) | |
| Rubio Canon Land & Water | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Valley Water Company | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| ***Monk Hill Total*** | ***4,087.5*** | ***3,701.4*** | ***(40.9)*** | ***7,748.1*** | ***4,251.9*** | ***4,251.9*** |

1/ Note (6/30/09): Consists of under production of 2292.5 AF and excess non-CSP water (1,795.0 AF) above maximum adjusted storage.
Note (6/30/10): Consists of under production of 2686.43 AF and excess non-CSP water (1,015.0 AF) above maximum adjusted storage.

# APPENDIX J

# SAN GABRIEL COUNTY WATER DISTRICT METERING RATES

**SAN GABRIEL COUNTY WTER DISTRICT** **Rates, Fees and Charges**

## RECONNECTION CHARGE

| | |
|---|---|
| Regular Hours | $10.00 |
| After Regular Hours/Holidays | 20.00 |
| Customer or occupant removes lock | 100.00 |

## ADMINISTRATIVE CHARGE

| | |
|---|---|
| Returned check for non-payment | $10.00 |

## RATES AND CHARGES

### CAPACITY CHARGES:

| Meter Size | Bi-Monthly Meter Charge |
|---|---|
| 5/8" , 3/4" | $16.80 |
| 1' | 23.44 |
| 1-1/2" | 33.60 |
| 2" | 67.11 |
| 3" | 100.70 |
| 4" | 134.14 |
| 6" and 8" | 337.11 |

**Effective 05/01/2010**

### COMMODITY CHARGE

| | |
|---|---|
| 0-30 units per billing period | $1.65/HCF |
| 31 and greater per billing period | $1.75/HCF |

**Effective 05/01/2010**

### FIRE SERVICE METER CHARGE

| Meter Size | Bi-Monthly Charge |
|---|---|
| 2" | $18.00 |
| 3" | 27.00 |
| 4" | 36.00 |
| 6" | 54.00 |
| 8" | 72.00 |
| 10" | 90.00 |
| 12" | 108.00 |

**Effective 05/01/2010**

### RESERVOIR FEE

| Meter Size | Bi-Monthly Reservoir Fee |
|---|---|
| 5/8", 3/4" | 9.89 |
| 1" | 16.81 |
| 1 1/2" | 32.64 |
| 2" | 52.42 |
| 3" | 105.83 |
| 4" | 165.17 |
| 6" and 8" | 329.36 |

Effective 04/15/1995

# APPENDIX K

# URBAN WATER SHORTAGE CONTINGENCY PLAN

# SAN GABRIEL COUNTY WATER DISTRICT'S

# Urban Water Shortage Contingency Plan

## INTRODUCTION

San Gabriel County Water District (District) is a public agency formed under the County Water District Act of 1913 of the State Water Code. The District was officially formed by voter approval on December 2, 1921. Today it has 8,800 service connections, which serve approximately 45,000 customers in the San Gabriel Valley, specifically portions of the City of San Gabriel, the City of Rosemead and select unincorporated areas in Los Angeles County (unincorporated portions of the City of Temple City). The District relies solely on groundwater to meet supply requirements. Seven of the District's nine wells are located in the Main San Gabriel Groundwater Basin (one is inactive). The remaining well is located in the Raymond Groundwater Basin which is also inactive.

San Gabriel County Water District falls in the jurisdiction of two adjudicated groundwater basins. As a result, the quantity of available water each year depends on the prescriptive pumping rights established by the Watermaster of each basin. Each year the Raymond basin allocates 1,091 acre feet of water to the District. This number fluctuates only if the District accumulates carry-over rights. In the Main San Gabriel Basin, the prescriptive pumping rights are based on a percentage of the total Operating Safe Yield for the year. This District receives 2.73019% of the Operating Safe Yield each year, plus any carry-over and cyclical storage rights.

For the past fifteen years the District has closely followed the status of California's drought. Since this District relies on groundwater to provide an adequate supply, it has been particularly sensitive to the effects of the drought. In June, 1988 the District adopted Resolution 6-88-255 which enacted a voluntary conservation program, asking for a reduction of 10%. This Resolution also urged customers to discontinue wasteful watering practices. In 1991, as California entered a fifth year of drought, the District adopted Ordinance 91-35 effective March 1, 1991. This Ordinance established a mandatory 15% reduction in consumption compared to the base year period of fiscal year 1988/89. It also requires customers to discontinue wasteful practices.

In compliance with Assembly Bill 11, the District presents its Urban Water Shortage Contingency Plan. This Plan proposes to: identify water demand; identify water supply; outline

an extensive water conservation plan; impose consumption limits; identify penalties for excess water use; analyze the impact on expenditures and revenues; implement the aforementioned items; and develop a mechanism to evaluate the results of the Urban Water Shortage Contingency Plan.

PREDICTED WATER DEMAND

In estimating the water use for the District, the period of 1982-1990 is examined. Production figures from 1982-1986 are considered average usage, as they are pre-drought. In order to estimate the drought demand, the years 1987-1990 are considered. San Gabriel County Water District has a three percent (3%) difference between drought demand and average five year demand. Our Production figures indicate a 3% average decline in water use during the drought, compared to average water use. Consumption figures show a 3% average increase during drought years, compared to the pre-drought average figures.

During the nine year period of 1982-1990, the highest water use occurred during calendar year 1988. In this year the District produced 6,956 acre feet to meet the demand of 6,447.5 acre feet. The system experienced a 7% loss. According to the drought demand calculations, the average production during drought years is 6,819 acre feet per year. In preparing the estimated water demand, this figure of 6,819 acre feet will be used.

Effective March 1, 1991 the Board of Directors of this District implemented the second phase of a Conservation Plan requiring a mandatory 15% reduction in water consumption compared to the base year of fiscal year 1988-89 (our highest water use year). In compliance with this directive, the customers of this District have successfully reduced water consumption in 1991 by an average of 20%. It is estimated that by year end, the District will have produced 5,665 acre feet to meet a consumption demand of 5,425 acre feet. This accounts for a 17% decrease in usage compared to the average drought production demand.

This District serves an area in which the community is fully developed. Most of the new construction consists of demolition of existing structures and re-building high density structures. Although an increase in water use is generally experienced with each new building, this results from the additional people able to occupy the facility. Therefore water demand is not expected to increase dramatically. The following are the 12 month, 24 month and 36 month projections for water demand in San Gabriel County Water District. These figures are based on the average drought demand, including projected growth within the District.

WATER SUPPLY

San Gabriel County Water District has nine wells which supply water to its system. One of these wells are within the boundaries of the Raymond Groundwater Basin. The remaining wells are located within the Main San Gabriel Groundwater Basin. Each year the District is allocated 1,091 acre feet of water rights in the Raymond Basin, plus any carry-over rights from the previous year. The amount of supply in the Main San Gabriel Basin is determined by a percentage of the Operating Safe Yield for the year, plus any carry-over rights from the previous year. This District's annual prescriptive pumping right is 2.73019% of the Operating Safe Yield. The following are the Operating Safe Yields for the past fifteen years starting with the first year of mandatory conservation:

| Fiscal Year | Operating Safe Yield | District's Pumping Right |
|---|---|---|
| 1990-91 | 180,000 acre feet | 3,870.80 acre feet |
| 1991-92 | 140,000 acre feet | 3,315.35 acre feet |
| 1992-93 | 180,000 acre feet | 4,262.59 acre feet |
| 1993-94 | 220,000 acre feet | 5,209.84 acre feet |
| 1994-95 | 200,000 acre feet | 4,736.22 acre feet |
| 1995-96 | 220,000 acre feet | 6,006.42 acre feet |
| 1996-97 | 210,000 acre feet | 5,733.40 acre feet |
| 1997-98 | 220,000 acre feet | 6,006.42 acre feet |
| 1998-99 | 230,000 acre feet | 6,279.44 acre feet |
| 1999-00 | 220,000 acre feet | 6,006.42 acre feet |
| 2000-01 | 220,000 acre feet | 6,006.42 acre feet |
| 2001-02 | 210,000 acre feet | 5,733.40 acre feet |
| 2002-03 | 190,000 acre feet | 5,187.36 acre feet |
| 2003-04 | 170,000 acre feet | 4,641.32 acre feet |
| 2004-05 | 170,000 acre feet | 4,641.32 acre feet |

The average Operating Safe Yield in pre-drought years is 208,000 acre feet. The average during drought years is 187,500 acre feet. As a result, the District's average prescriptive pumping right during drought years is 4,032 acre feet. Historically, the lowest Operating Safe Yield since the adjudication of the basin is fiscal year 1991-92. In this year it was established at 140,000 acre feet, which establishes a base pumping right of 3,315.35 acre feet for San Gabriel County Water District. During the drought in 1976-77, the Watermaster established an Operating Safe Yield of 150,000 acre feet. Based on these records, it is expected that the Operating Safe Yield for the next 12, 24 and 36 months will not fall below 140,000 acre feet. In May, 1991 when the 1991-92 Operating Safe Yield was established, the Watermaster set the Operating Safe Yield for the next four years, all of which are 140,000 acre feet. As history indicates, the operating safe yield

has not been set below 180,000 acre feet since the 1992/93 fiscal year and has averaged around 200,000 over fifteen years.

The following shows the worst case prescriptive pumping rights for San Gabriel County Water District over the next three years if the operating safe yield were to be set at a level established during the drought years. It consists of the total rights in the Main San Gabriel Basin and the Raymond Basin.

| Year | Total Prescriptive Pumping Right |
|---|---|
| 2006 | 4,913.27 acre feet |
| 2007 | 4,913.27 acre feet |
| 2008 | 4,913.27 acre feet |

The above rights do not include carry-over rights, cyclical storage rights, transfer rights or leased rights. If our demand exceeds the total water right for a year, it is this District's responsibility to make up for the additional water need. This can be accomplished through: purchase of replacement water (from Metropolitan Water District via Upper San Gabriel Valley Municipal Water District via Watermaster); transferred rights; or leased rights. With these options available, the District has successfully met the demand and expects to continue meeting the demands in the future.

## STAGES OF ACTION

Implementation of a conservation plan is most effective when several stages, or levels of reduction are established. Accordingly, San Gabriel County Water District has four phases which impose water rationing. These phases establish reduction in consumption from 10% to 50% compared to a base year of water use.

| PHASES | PERCENTAGE REDUCTION | DROUGHT CONDITION |
|---|---|---|
| I | Voluntary 10% | Minimum |
| II | Mandatory 15% | Moderate |
| III | Mandatory 35% | Severe |
| IV | Mandatory 50% | Critical |

In addition to the percentage of reduction, various provisions for reducing water use are associated with each phase. The purpose of these prohibitions is to assist in achieving the conservation goal, as well as eliminating wasteful watering practices. The following identifies the prohibitions associated with each phase of reduction.

Phase I - Prohibitions

1. San Gabriel County Water District shall impose the following measures on itself during this phase of reduction:

    a. Audit its landscape irrigation systems to maximize irrigation efficiency; adjust sprinklers and irrigation systems to avoid overspray , runoff and waste.

    b. Not irrigate its landscape during the hot hours of the day and/or during the morning and evening peak hours, and avoid watering on windy days.

    c. Minimize water used to flush sewers or hydrants.

    d. Shut off decorative fountains unless a water recycling system is used.

    e. Not hose down driveways, sidewalks and other paved surfaces, except for health or sanitary reasons.

    f. Retrofit plumbing fixtures with low-flow devices except for those fixtures that require high-flow fixtures for health or sanitary reasons.

    g. Check faucets, toilets, and pipes, both indoor and outdoor, for leaks and repair them immediately.

2. The District shall encourage its customers to observe the following conservation practices during Phase I:

    a. Adjust sprinklers and irrigation systems to avoid overspray, runoff and waste.

    b. Avoid watering in the hot part of the day and/or during morning and evening peak hours, and avoid watering on windy days.

    c. Install new landscaping, low water using trees and plants and efficient irrigation systems.

    d. Shut off decorative fountains unless a water recycling system is used.

    e. Not hose down driveways, sidewalks and other paved surfaces, except for health or sanitary reasons.

    f. Where possible, install pool and spa covers to minimize water loss due to evaporation.

    g. Not allow the hose to run while washing the car, and to use a bucket or a hose with an automatic cutoff valve.

h. Retrofit indoor plumbing fixtures with low-flow devices.

i. Check faucets, toilets, and pipes, both indoor and outdoor, for leaks and repair immediately.

Phase II - Prohibitions

1. During Phase II of the Conservation Plan, the District shall impose the following restrictions upon itself:

   a. Continue all of the items of Phase I.

   b. Limit irrigation of District facilities to once weekly.

   c. Continue with system audits to decrease the amount of water loss of the system.

2. During Phase II, the following restrictions shall be imposed on all customers:

   a. Except as provided below, lawn watering and landscape irrigation with potable water is permitted only between the hours of 6:00 p.m. and 6:00 a.m. Agricultural users, commercial nurseries/landscape contractors and irrigation of livestock and irrigation of propagation beds may continue to irrigate with potable water as management practices dictate, but are required to curtail all non-essential water use.

   b. Irrigation with reclaimed water is permitted on any day.

   c. No water will be delivered for irrigation of landscaping installed on commercial or multi-family residential properties after the date of this ordinance. Single-family accounts will not be given increases in water allowances to establish new landscaping.

   d. Watering is permitted if a hand-held hose equipped with a positive shut-off nozzle is used, a hand-held faucet-filled bucket of five gallons or less is used, or a drip irrigation system is used.

   e. Washing of buildings, facilities, equipment, autos, trucks, trailers, boats airplanes, and other types of mobile equipment is prohibited except where a hand-held hose equipped with a positive shut-off nozzle for quick rinses is used. Whenever possible, such as when washing vehicles, a bucket wash is encouraged.

   f. Washing is permitted at any time on the immediate premises of a commercial car wash.

g. Washings are exempted from these regulations where the health, safety and welfare of the public is contingent upon frequent vehicle or other facility or equipment cleaning, such as garbage trucks and vehicles used to transport food and perishables.

h. Water shall not be used to wash down sidewalks, driveways, parking areas, tennis courts, patios or other paved areas, except to alleviate immediate fire, sanitation or health hazards.

i. Draining and refilling of swimming pools and spas is prohibited. Adding make-up water to swimming pools and spas is permitted.

j. Filling and refilling of decorative ponds, fountains, and artificial lakes is prohibited.

k. Water from fire hydrants shall be used only for fire fighting and public welfare activities.

l. Flushing of water mains will not be permitted except as necessary to protect the public health.

m. Restaurants shall not serve water to their customers unless specifically requested.

n. Potable water shall not be used for earth work, grading or road construction purposes when reclaimed water is available.

o. Leaks must be repaired as soon as discovered and shall not be allowed to continue for more than 48 hours.

p. No property shall be annexed to the District.

Phase III - Prohibitions

1. All of the prohibitions listed in Phase I and II shall remain effective, with the exception that landscape watering shall be limited to once weekly.

2. Commercial nurseries, golf courses and other water dependent industries shall be permitted to water lawn, landscape or other turf areas only during the hours of 6:00 p.m. to 6:00 a.m.

Phase IV - Prohibitions

1. All of the prohibitions listed in Phase I, II and III shall remain effective during Phase IV.

## TRIGGERS

As mentioned previously, this District is subject to the rules and regulations associated with the adjudication of two groundwater basins. As a result, the quantity of available water is directly associated with the prescriptive pumping rights established each year. In the Raymond Groundwater Basin, the pumping right is established at 1,091 acre feet annually. The Main San Gabriel Groundwater Basin establishes the pumping right as a percent of the Operating Safe Yield. The Operating Safe Yield is based on various factors, including weather, basin water levels, rainfall, historical information, and restrictions imposed by Upper San Gabriel Valley Municipal Water District (water wholesaler).

The triggers for the imposition of the Conservation Plan in San Gabriel County Water District shall be dependent upon the direction received from the Watermasters and indirectly, Metropolitan Water District of Southern California. It may be established by this Board of Directors which Phase will best accomplish the required reduction in water use as dictated by the Watermasters. Public hearings shall be held at the time of the initiation of each phase, so that the public may continue to be informed of the status of the Conservation Plan.

## CONSUMPTION LIMITS

In addition to prohibitions of water use, it is necessary to establish consumption limits to reduce water use. Accordingly, each Phase of the Conservation Plan has a percentage of reduction required to meet the cut back in consumption. The San Gabriel County Water District establishes a percentage reduction in water allotment based on consumption figures of a base year period. Penalties for excessive water use above the established base water allotments are assessed. The purpose of the penalties is to enforce the District's required reduction, assist in the funding of the Conservation Plan, and to pay any penalties assessed on the District by outside agencies.

The water allotment is based on an established "base year". The percent reduction is taken from each billing period's actual use in the base year, thus establishing a target for consumption in the current billing period. At the initiation of each Phase, the Board of Directors will establish the base year period. The following is a list of the Phases, the percent reduction required and the penalty associated with excess water use during each Phase.

| Phase | Percent Reduction | Penalty |
|---|---|---|
| I | 10% - Voluntary | None |
| II | 15% - Mandatory | 2X then current billing rate |
| III | 35% - Mandatory | 3X then current billing rate |
| IV | 50% - Mandatory | 4X then current billing rate |

The District recognizes that circumstances often change among water users. Therefore a Conservation Committee is also established to review customer requests for adjustments to water allocations. This Committee has the authority to adjust water allotments when a customer provides adequate information and justification for such adjustment. The Committee may also alleviate further restrictions on customers who have previously conserved.

## MONITORING

Compliance with the Conservation Plan shall be monitored monthly by the Conservation Committee. This shall be achieved as follows:

1. The Committee shall create a monthly report identifying: the water consumption and production during the month; the penalties assessed; the number of requests received and responded to for adjustments; and any additional information which proves useful in assessing the effectiveness of the Conservation Plan.

2. Each water bill shall identify the current billing period's target, the current billing period's water use, and the upcoming billing period's target. This shall provide the customer with information regarding their water underuse and overuse. It is also a means for the customer to identify their success or failure in achieving the required reductions.

## REVENUE AND EXPENDITURES

During drought years, water use is generally lower than the projected non-drought year water use. Water use has a direct impact on the revenue earned from water sales. As a result the revenues anticipated for a year also are lower. To prepare for such an impact, the District may boost its revenue through assessment of excess use fees for water use abusers. Also, the District may consider a rate increase to make-up for the shortfall in revenue.

The priority and main interest of this District is to provide quality water to its customers at the lowest possible cost. Therefore, prior to any rate adjustments, a thorough review of expenditures shall be conducted. If any projects can be postponed, they may be, and the appropriated monies may be transferred to the necessary account to off-set the revenue short-fall.

If deemed necessary by the Board of Directors, a rate stabilization fund may be established to offset the cost during drought years to the customers. Ideally, this fund should be created prior to the onset of the drought, to assist the District in its operations during drought years.

End of Plan.

# APPENDIX L

# 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 Chapter 5 |
| 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 5.4.4.1 pp. 5-7 to 5-8 |
| 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 pp. 5-1 to 5-2 |
| 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 p. 5-2 |
| 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 p. 5-2 |
| 40 | Indicated penalties or charges for excessive use, where applicable. | 10632(f) | | See Section: 5.2.4; pp. 5-2 to 5-3 |
| 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 p. 5-3 |
| 42 | Provide a draft water shortage contingency resolution or ordinance. | 10632(h) | | See Section: 5.2.7; p. 5-4 |
| 43 | Indicate a mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis. | 10632(i) | | See Section: 5.4.4.1 pp. 5-7 to 5-8 |
| 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. | Chapter 6 |

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| 27 | Describe the methods the supplier uses to evaluate the effectiveness of DMMs implemented or described in the UWMP. | 10631(f)(3) | | Chapter 6 |
| 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) | | Chapter 6 |
| 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. | Chapter 6 |
| 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: 1.1 |
| 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: 1.1 |
| 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: 1.2 |
| 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: 1.2 |
| 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: 1.1.4 p. 1-3 |
| 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: 1.1 pp. 1-2 to 1-3 |

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| | 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: 1.2.2 p. 1-3 |
| 58 | Provide supporting documentation as to how the water supplier plans to implement its plan. | 10643 | | See Section: 1.2.3 pp. 1-4 |
| 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: 1.2.4 p. 1-4 |
| 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: 1.2.5 p. 1-4 |
| 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: 4.8.1 p. 4-17 |
| 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: 4.8.1 pp. 4-17 to 4-18 |
| 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: 4.8.1 pp. 4-17 to 4-18 |
| 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: 4.8.3 p.4-18 |
| 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: 4.8.4 pp. 4-18 |

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| 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: 4.8.5 p. 4-19 |
| 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: 4.8.6 p. 4-19 |
| 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: 4.8.7 p. 4-19 |
| 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: 5.1 p. 5-1 |
| 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 p. 5-1 |
| 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 pp. 5-8 to 5-9 |
| SERVICE AREA | | | | |
| 8 | Describe the water supplier service area. | 10631(a) | | See Section: 2.1; p. 2-2 |
| 9 | Describe the climate and other demographic factors of the service area of the supplier | 10631(a) | | See Section: 2.2.2 pp. 2-2 to 2-3 |
| 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: 2.2.1 p. 2-3 |

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| | | | "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: 2.2.2 p. 2-4 |
| 12 | Describe other demographic factors affecting the supplier's water management planning. | 10631(a) | | See Section: 2.2.3 p. 2-4 |
| 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 Sections: 3.2 and 3.3 pp. 3-2 to 3-7 |
| | 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 p. 3-7 |
| 3 | Report progress in meeting urban water use targets using the standardized form. | 10608.40 | | See p. 3-8 |
| 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: 3.1 pp. 3-1 to 3-2 |
| 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: 3.1 pp. 3-1 to 3-2 |
| 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 p. 5-1 |
| 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 pp. 4-1 to 4-2 |

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| | | | 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 pp. 4-1 to 4-2 |
| 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 pp. 4-2 to 4-8 |
| 16 | Describe the groundwater basin. | 10631(b)(2) | | See Section: 4.3; pp. 4-8 to 4-14 |
| 17 | Indicate whether the groundwater basin is adjudicated? Include a copy of the court order or decree. | 10631(b)(2) | | See Section: 4.2 pp. 4-2 to 4-8 |
| 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 pp. 4-2 to 4-8 |
| 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: 4.4 pp. 4-14 to 4-15 |
| 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: 4.4 pp. 4-14 to 4-15 |
| 24 | Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis. | 10631(d) | | See Section: 4.6 p. 4-16 |
| 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: 4.9 p. 4-20 |

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| | 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: 4.7 pp. 4-17 |
| 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: 3.1.7 p. 3-2 |
| 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 p. 5-4 |

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.