

Combined 7th and 8th Annual Report Of the Beaumont Basin Watermaster

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Prepared for:

Beaumont Basin Watermaster

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Acronyms, Abbreviations, and Initialisms

acre-ft	acre-feet
acre-ft/yr	acre-feet per year
Banning	City of Banning
Basin	Beaumont Basin
BCVWD	Beaumont-Cherry Valley Water District
Beaumont	City of Beaumont
du	dwelling unit
FY	fiscal year
IRWMP	Integrated Regional Water Management Program
Pass Agency	San Gorgonio Pass Water Agency
SMWC	South Mesa Water Company
STWMA	San Timoteo Watershed Management Authority
STWMP	San Timoteo Watershed Management Program
SWP	State Water Project
Watermaster	Beaumont Basin Watermaster
WEI	Wildermuth Environmental, Inc.
YVWD	Yucaipa Valley Water District



Section 1 – Overview of the Judgment and the Watermaster

This Combined Seventh and Eighth Annual Report of the Beaumont Basin Watermaster (Watermaster) summarizes the activities and operations of Watermaster for fiscal year¹ (FY) 2009/10 and FY 2010/11.

1.1 Background

In January 2001, based on a common interest in the San Timoteo Watershed, the Beaumont-Cherry Valley Water District (BCVWD), the City of Beaumont (Beaumont), the South Mesa Water Company (SMWC), and the Yucaipa Valley Water District (YVWD) formed the San Timoteo Watershed Management Authority (STWMA). Once formed, the STWMA began a watershed-wide, multi-phase effort to develop and implement a comprehensive San Timoteo Watershed Management Program (STWMP). Phase 1 of the STWMP included developing a description of the area's water resources, establishing goals to protect and enhance these resources, and affirming a management plan to accomplish said goals. This work is documented in the *San Timoteo Watershed Management Program, Phase 1 Report* (WEI, 2002) and its successor, the updated and re-titled *Integrated Regional Water Management Program for the San Timoteo Watershed* (IRWMP) (WEI, 2005). The goals established in Phase I include:

- Enhancing Basin water supplies
- Protecting and enhancing water quality
- Optimizing the management of STWMA area groundwater basins
- Protecting riparian habitat in San Timoteo Creek and protecting/enhancing habitat in the STWMA area
- Equitably distributing the benefits and costs of developing the IRWMP for the San Timoteo Watershed

The Phase 1 report also identified the initiatives and program elements necessary to achieve these goals. Program Element 5 called for the STWMA members to establish a groundwater management entity for the Beaumont Basin (Basin). The Basin encompasses approximately 26 square miles, has a safe yield of approximately 8,650 acre-feet (acre-ft), and a total storage capacity of over a million acre-ft. Two groups, representing Appropriator and Overlying interests in the Basin, began negotiations in May 2002 to implement this program element.

A Stipulated Agreement was developed and submitted to the Court as a result of the negotiations. Honorable Judge Gary Tranbarger of the Superior Court of the State of California for the County of Riverside signed the Judgment, titled "*San Timoteo Watershed Management Authority, vs. City of Banning, et al.*" (Case No. RIC 389197), on February 4, 2004. Pursuant to the Judgment, the Court appointed a five-member Watermaster committee, consisting of representatives from each of the Appropriator parties: the City of Banning

¹ The Watermaster fiscal year is July 1 through June 30.



(Banning), Beaumont, the BCVWD, the SMWC, and the YVWD. The effective date of the Judgment for accounting purposes is July 1, 2003.

The Court gave the responsibility of managing the Basin to Watermaster by approving the Stipulated Agreement but retained continuing jurisdiction should there be any future need to resolve difficult questions among the Parties.

1.2 Watermaster Responsibilities

Watermaster, in carrying out its duties, is responsible for providing a legal and practical means of ensuring that the waters of the Basin are put to maximum beneficial use by facilitating the conjunctive use of surface, ground, and supplemental waters. Watermaster's specific responsibilities are summarized below.

Administer the Beaumont Basin Judgment. Watermaster operates under the Judgment and a formal set of Rules and Regulations (and any revisions thereto), which were adopted on June 8, 2004. Together, the Judgment and the Rules and Regulations establish the procedures by which Watermaster accounts for the water resources of the Basin. To fund its operations, Watermaster collects both administrative and replenishment assessments from the Appropriator Parties. Each year, Watermaster publishes an Annual Report on its activities, which includes an accounting of production and recharge in the Basin.

Maintain and Improve Water Supply. Watermaster determines the amount of groundwater that each producer is entitled to pump annually without incurring a replenishment obligation. As needed, Watermaster facilitates the acquisition, recharge, and storage of supplemental water for replenishment and conjunctive-use purposes.

Approve Producer Activities. Producer Parties must notify and obtain approval, as necessary, from Watermaster for activities, such as recharging water, transferring or exchanging water, storing local water, and storing or recovering supplemental water.

Develop and Administer a Well Policy. Watermaster is responsible for developing a policy on the proper construction and abandonment of wells in the Basin. The Well Policy that is currently in effect was adopted as Resolution 2004-04, *A Resolution of the Beaumont Basin Watermaster Adopting Minimum Standards for the Construction, Reconstruction, Abandonment and Destruction of Groundwater Extraction Wells*, on July 20, 2004. With Resolution 2004-04, the Watermaster Committee adopted existing Riverside County Ordinance No. 682.3 and expanded it by requiring the installation of a "sounding tube" to facilitate the measurement of water levels on all wells constructed in the Basin after July 20, 2004.

Monitor and Understand the Basin. Watermaster collects data from the Appropriator Parties, and other cooperating agencies to expand its knowledge of how the Basin works in order to manage it more effectively. The Appropriator parties provide Watermaster with production, water level, and water quality data for their wells. Beaumont provides Watermaster with additional water level and water quality data collected at wells throughout the region as part of their Maximum Benefit Monitoring Program (see WEI, 2010). Watermaster also conducts a periodic ground surface survey to determine if land subsidence is occurring in the Basin, the last of which was conducted in March 2009 and was reported to



Watermaster in July 2009 (WEI, 2009). All of these data are periodically compiled into an Engineer's Report on the state of the Basin's water resources.

Maintain and Improve Water Quality. Watermaster coordinates and participates in local efforts to preserve the quality of groundwater in the Basin. It assists and encourages regulatory agencies to enforce water quality regulations that affect the Basin and its surrounding resources. Watermaster supports the Maximum Benefit Monitoring efforts in the Beaumont Management Zone and utilizes the results of these efforts when reporting regional water quality conditions in its Engineer's Report.

Develop Contracts for Beneficial Programs and Services. Watermaster is responsible for developing and entering into contracts for programs and services that are beneficial to the Basin on behalf of the Parties to the Judgment. This includes programs for conjunctively utilizing the Basin for the storage of supplemental water with other entities, such as the San Geronio Pass Water Agency (Pass Agency), and programs for the direct and/or indirect use of recycled water.

Provide Cooperative Leadership. Watermaster helps develop and implement regional scale programs for the management of the Basin and its surrounding resources.

1.3 Watermaster Address

For the purposes of conducting Watermaster business and maintaining records, Watermaster's official address remains as follows:

Office of the Watermaster Secretary
C/O Beaumont-Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223

1.4 Watermaster Website

Watermaster maintains a website to communicate its activities to the Parties and the public. The website contains copies of the Judgment, the Rules and Regulations, Annual Reports, Engineer's Reports, meeting minutes, meeting agendas, and other relevant documents. The website address is www.beaumontbasinwatermaster.org. The YVWD manages the site.

1.5 Mission Statement

Watermaster adopted the following mission statement in October 2004:

“Watermaster's mission is to manage the yield of and storage within the Beaumont Basin to provide maximum benefit to the people dependent on it.”



Section 2 – Watermaster Activities

Watermaster continued to administer and implement the Judgment during its seventh and eighth years of operation. Watermaster’s activities are discussed in more detail below by subject matter.

2.1 Watermaster Committee Representatives and Staff

The Committee Representatives serving each Appropriator Party during FY 2009/10 and FY 2010/11 were as follows:

Banning, City of	Duane Burk, Director of Public Works
Beaumont, City of	Dave Dillon, Economic Development Director
Beaumont-Cherry Valley Water District	Anthony Lara, Interim General Manager
South Mesa Water Company	George Jorritsma, General Manager
Yucaipa Valley Water District	Joseph B. Zoba, General Manager

The Representatives listed below served as the Officers to the Watermaster Committee in FY 2009/10 and FY 2010/11:

Chairman	George Jorritsma
Vice Chairman	Dave Dillon
Secretary	Anthony Lara
Treasurer	Joseph B. Zoba

Mr. J. Andrew Schlange continued to serve as the Chief of Watermaster Services until his resignation from the position effective November 30, 2009. After Mr. Schlange’s resignation, the Watermaster Committee elected not to seek out a new Chief of Watermaster Services. All Watermaster activities after November 30, 2009 were initiated and coordinated by the Committee members themselves.

Mr. Joseph S. Aklufi continued to serve as the Watermaster’s Legal Counsel, and Mr. Mark J. Wildermuth of Wildermuth Environmental, Inc. (WEI) continued to serve as the Watermaster Engineer in FY 2009/10 and FY 2010/11.

2.2 Watermaster Meetings

Meetings of the Watermaster Committee were held on the following dates:

September 15, 2009
April 14, 2010
May 11, 2010
September 14, 2010
April 7, 2011



Copies of the agendas and approved minutes from each of the above meetings can be viewed at Watermaster’s website or by making a request to the Watermaster Secretary. Pursuant to Resolution 2009-001, all of Watermaster’s public records are open for inspection during office hours, provided that a written request to inspect said records has been submitted.

2.3 Resolutions

No resolutions were adopted by Watermaster during FY 2009/10 or FY 2010/11.

2.4 Storage Applications and Agreements

The first applications and agreements to store unused appropriator production rights and supplemental water recharge were approved in FY 2005/06. During that year, Watermaster approved applications and agreements with Banning, BCVWD, SMWC, and YVWD to store up to 135,000 acre-ft of water in the Basin. Beaumont’s first application and agreement to store water was approved by Watermaster in FY 2007/08, bringing the total approved storage allocation to 157,000 acre-ft. During FY 2009/10, Watermaster received four applications to increase the total storage allowed under the existing Storage Agreements with Banning, the BCVWD, Beaumont, and the YVWD, as summarized below. All of the applications to increase storage were approved, increasing the total storage allocation to 260,000 acre-ft. Watermaster has not yet executed amended Storage Agreements with the Parties to reflect the changes to their accounts. No applications to store water were received in FY 2010/11; however, the Pass Agency notified Watermaster of its interest in submitting an application for a storage agreement likely in FY 2011/12.

Appropriator	Authorized Storage Account as of July 1, 2009 (acre-ft)	Date of Application to Increase Storage Account	Requested Storage Account Increase (acre-ft)	Date of Application Approval	Authorized Storage Account as of July 1, 2011
Banning	40,000	April 16, 2010	40,000	Sept. 14, 2010	80,000
BCVWD	70,000	Sept. 15, 2009	10,000	May 11, 2010	80,000
Beaumont	22,000	April 19, 2010	8,000	Sept. 14, 2010	30,000
SMWC	20,000	n/a	n/a	n/a	20,000
YVWD	5,000	April 15, 2010	45,000	May 11, 2010	50,000
Total	157,000		103,000		260,000

2.5 Rules and Regulations

Watermaster adopted its original Rules and Regulations of the Watermaster on June 8, 2004. The rules were adopted with an understanding that modifications would be considered as necessary. No changes to the Rules and Regulations were made in FY 2009/10 or FY 2010/11.



2.6 Annual Audit

Under Part VI, Paragraph 6(b) of the Judgment, Watermaster’s annual report of operations shall include an accounting and audit of all assessments and expenditures. Copies of the FY 2009/10 and FY 2010/11 Audit Reports have been included with this annual report as Appendix A.

2.7 Active Party List

Under Part VII, Paragraph 1 of the Judgment, “[T]he Watermaster shall maintain, at all times, a current list of Parties to whom notices are to be sent and their addresses for the purposes of service. Watermaster shall also maintain a full current list of names and addresses of all Parties or their successors, as filed herein. Copies of such lists shall be available to any Person.” These lists are commonly referred to as Watermaster’s “Active Party List.” A copy of the list has been included with this annual report as Appendix B. Under the Judgment, any Party that desires to be relieved of receiving notices regarding Watermaster activities can complete the Waiver of Notice and Designation of Address for Notice and Service portion of the form adopted by Watermaster.



Section 3 – Administration of the Judgment: Accounting for Production, Recharge, Transfers, and Storage

One of Watermaster’s primary responsibilities is to account for the production, recharge, transfer, and storage activities of the Parties to the Judgment. The following sections detail the accounting of these activities for FY 2009/10 and FY 2010/11.

3.1 Production

Watermaster is responsible for the tracking and accounting of groundwater production by all Appropriator and Overlying Parties named in the Judgment. Beaumont Basin producers who pump less than 10 acre-ft per year (acre-ft/yr), otherwise known as minimal producers, are exempt from the provisions of the Judgment unless otherwise ordered by the Court (Judgment Part III, Paragraph 4). Accordingly, Watermaster does not collect production information from minimal producers other than those participating in the Judgment. Figure 1 shows the locations of all wells that belong to the Appropriator and Overlying Parties of the Judgment.

3.1.1 Appropriator Party Production

There are five Appropriator Parties: Banning, Beaumont, the BCVWD, the SMWC, and the YVWD. As stated in the Judgment, an Appropriator’s annual production right consists of:

- “[T]he Appropriator’s share of operating safe yield, plus
- (1) any water acquired by an Appropriator from an Overlying Producer or other Appropriator pursuant to the Judgment,
 - (2) any water withdrawn from the Appropriator’s storage account, and
 - (3) New Yield created by the Appropriator” (Part I, Paragraph 3B).

An Appropriator’s annual production right represents the maximum quantity of water an Appropriator can produce from the Basin each year without incurring a replenishment obligation. It includes the Appropriator’s share of the temporary surplus (Part I, Paragraph 3M), defined in the Judgment as “the amount of groundwater that can be pumped annually in excess of safe yield from a groundwater basin necessary to create enough additional storage capacity to prevent the waste of water” (Part I, Paragraph 3BB). The temporary surplus in the Basin was decreed to be 160,000 acre-ft, was allocated over the first ten years of the physical solution at 16,000 acre-ft/yr, and was split among the Appropriators in accordance with their respective percentage shares of the unused safe yield.

Table 1a shows monthly and annual production, the share of operating safe yield, and the amount of unused water that is eligible for storage by each Appropriator for FY 2009/10. Table 1b shows the same data for FY 2010/11. During FY 2009/10, the Appropriators pumped a total of 12,537 acre-ft of water. Production was down in FY 2009/10 by about eight percent compared to FY 2008/09. During FY 2010/11, the Appropriators pumped a total of 11,115 acre-ft of water. Production in FY 2010/11 was down by about 11 percent compared to FY 2009/10 and 18 percent compared to FY 2008/09. All metered groundwater



production data for FY 2003/04 through 2010/11 is contained in an Access database that has been included with this report as Appendix C.

3.1.2 Overlying Party Production

Producers who pump groundwater for overlying uses and are Parties to the Judgment are defined as Overlying Producers. Overlying Producers are assigned a share of the Basin's safe yield and may not use more than five times their share of the safe yield in any five-year period (Part II, Paragraph 1A).

During FY 2005/06, the Watermaster Engineer reported that several Overlying Producers' wells were not metered or that their meters may not have been working properly. The Watermaster Engineer recommended using a water duty method that is routinely used to estimate production in the absence of metered production. The water duty method estimates production based on the type of use (indoor, outdoor, and industrial). Watermaster accepted the water duty method and the subsequent production estimates made in FY 2005/06, subject to the receipt of more accurate information from the affected Overlying Producers. During FY 2007/08, an updated water duty method, developed by the Watermaster Engineer, was used to estimate production for Overlying Producers with unmetered wells.

During FY 2009/10 and 2010/11, only 5 of the 17 Overlying Parties to the Judgment metered and reported their monthly or annual groundwater production. The water duty method developed in FY 2007/08 was used to estimate production for each unmetered Overlying Producer in FY 2009/10 and 2010/11.² A detailed description of the water duty method has been included with this report as Appendix D.

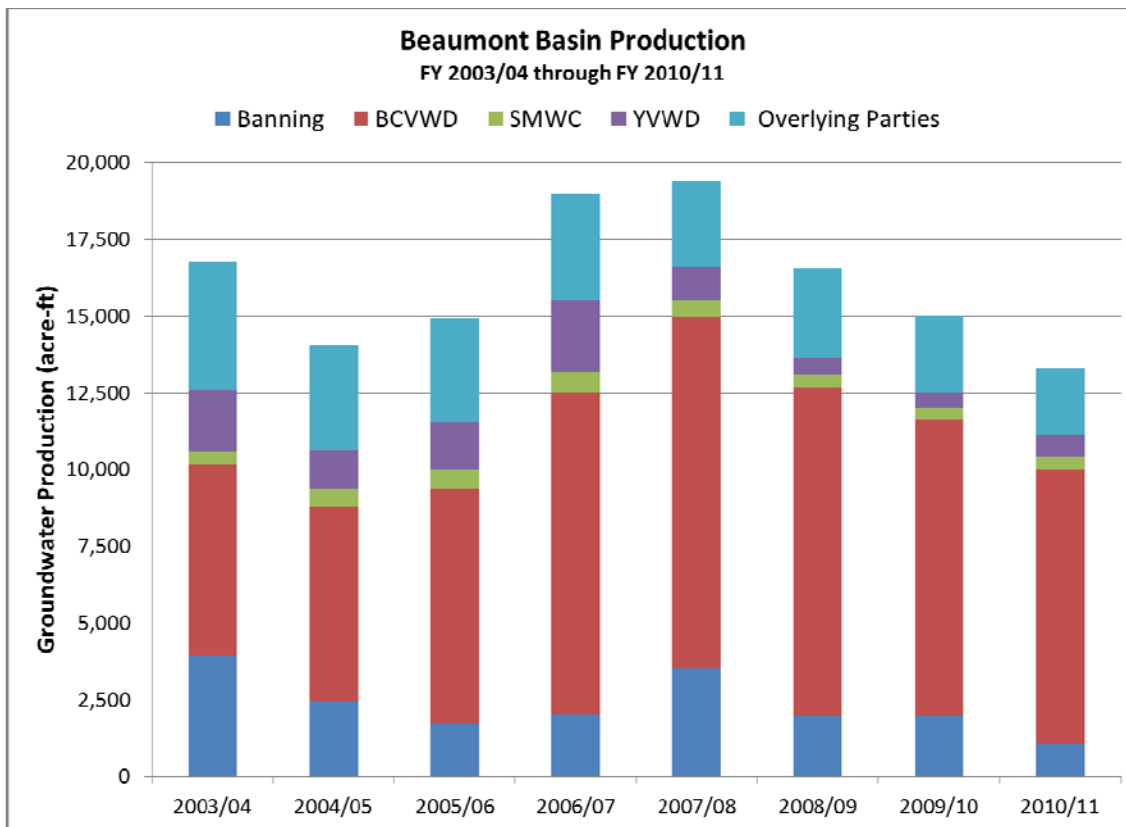
Table 2a shows a summary of annual production, the share of operating safe yield, and the amount of unused water for each Overlying Producer for FY 2009/10. Table 2b shows the same data for FY 2010/11. During FY 2009/10, the Overlying Producers pumped an estimated 2,500 acre-ft of water. Estimated production was down in FY 2009/10 by about 14 percent compared to FY 2008/09. During FY 2010/11, the Overlying Producers pumped an estimated 2,183 acre-ft of water. Estimated production in FY 2010/11 was down by about 13 percent compared to FY 2009/10 and 25 percent compared to FY 2008/09. All metered and estimated groundwater production data for FY 2003/04 through 2010/11 is contained in an Access database that has been included with this report as Appendix C.

² Production values were not reported by Oak Valley Partners (OVP) for either FY 2009/10 or FY 2010/11. This was the first time the OVP did not report production to Watermaster, which typically included meter reads for one well and estimates of production for two additional wells (the estimates by OVP were previously deemed appropriate for use by the Watermaster in lieu of the water duty method used for other overlying parties). For this draft report, the average production reported by OVP for FY 2006/07 through FY2008/09 was used for FY2009/10 and FY 2010/11. Watermaster does not have sufficient information to apply the water duty method described in Appendix D for the OVP given the large area of land owned and varied water uses (domestic, commercial, and agricultural).



3.1.3 Eight-Year Production Summary

Table 3 shows the annual production summary for each Party since FY 2003/04. During the eight years since the adjudication of the Basin, a total of 129,037 acre-ft of water has been pumped. Of this, 104,150 acre-ft (81 percent) was pumped by Appropriator Producers, and 24,887 acre-ft (19 percent) was pumped by Overlying Producers. The minimum annual production during the eight-year period was 13,299 acre-ft in FY 2010/11, and the maximum production was 19,405 acre-ft in FY 2007/08. Total production in the Basin has steadily decreased each year since the maximum production value in FY 2007/08. The average production across all eight years is 16,130 acre-ft.



3.2 Recharge

Pursuant to Section 5 of the Watermaster Rules and Regulations, all groundwater recharge activities in the Basin shall be subject to Watermaster’s review and approval. There are three types of water being recharged in the Basin: supplemental imported State Water Project (SWP) water, supplemental recycled water, and new yield stormwater. Table 4 summarizes the annual groundwater recharge from all supplemental and new yield sources in the Basin since FY 2003/04. Daily groundwater recharge data for FY 2003/04 through FY 2010/11 is contained in an Access database that has been included with this report as Appendix C.



3.2.1 State Water Project (SWP) Water Recharge

Currently, there is one facility in operation that recharges SWP water imported by the Pass Agency to the Basin: the BCVWD's Noble Creek facility, located east of Beaumont Avenue between Brookside Avenue and Cherry Valley Boulevard. The location of the recharge facility is shown in Figure 1.

The BCVWD began recharging SWP water in September 2006, and has since recharged about 24,664 acre-ft pursuant to the storage and recharge agreements on file with Watermaster. A total of 4,918 acre-ft was recharged in FY 2009/10 and 7,254 acre-ft was recharged in FY 2010/11.

The City of Banning began recharging SWP water at the BCVWD's Noble Creek facility in July 2008 and has since recharged 3,600 acre-ft of water pursuant to the storage agreement on file with Watermaster. As of June 30, 2011, Banning has not submitted an application for recharge with Watermaster. A total of 1,200 acre-ft was recharged in FY 2009/10, and 1,200 acre-ft was recharged in FY 2010/11.

SWP water is also recharged at the Little San Gorgonio Creek Spreading Ponds, which are located immediately to the north and outside of the northeastern boundary of the adjudicated Basin boundary (along the Banning Fault-see Figure 1). The Little San Gorgonio Creek Spreading Ponds are operated by the Pass Agency. Water recharged at this facility may be a source of supplemental yield to the Basin. However, Watermaster has not adopted a finding as such; therefore, this water cannot be exploited by Watermaster or any individual Party as water in the Basin until an investigation has been conducted to determine if some or all of this water recharges the Beaumont Basin and a formal finding has been made. The Pass Agency began recharging SWP water in August 2003 and has since recharged about 6,700 acre-ft at the Little San Gorgonio Creek Spreading Ponds. A total of 829 acre-ft was recharged in FY 2009/10, and 1,683 acre-ft was recharged in FY 2010/11.

3.2.2 Recycled Water Recharge

In March 2010, pursuant to its Waste Discharge permit with the Regional Board (R8-2009-0002), Beaumont began discharging recycled water from Wastewater Treatment Plant No. 1 to Discharge Point (DP) 007 located on an unnamed tributary of Marshall Creek (see Figure 1). A portion of the recycled water discharged at DP-007 flows into and recharges the Basin. Prior to March 2010, all of Beaumont's recycled water was discharged at DP-001 in Cooper's Creek where it infiltrates into the San Timoteo Management Zone, which is outside of the Basin. Thus, recycled water discharged to DP-007 that flows into and infiltrates the Basin is considered a new recharge source for which the City may obtain credit pursuant to the storage agreement on file with Watermaster. A technical demonstration of the amount of recharge to the Basin will need to be prepared and accepted by Watermaster for the City to obtain credit for the recharge. Watermaster has yet to approve a methodology for the required technical demonstration. Once a technical demonstration has been made and approved, the City will retroactively receive credit for all recharge to the Basin since March 2010.



3.2.3 New Yield Stormwater Recharge

Pursuant to Part VI Paragraph 5.V of the Judgment, recharge of new, locally generated water shall be accounted for by Watermaster and credited to the Party that creates the new recharge for all projects constructed after February 20, 2003. The City of Beaumont continues to recharge local waters to the Basin; however, Watermaster has yet to develop rules and regulations regarding the methodology to quantify and credit the New Yield. Upon the development of the New Yield rules, Watermaster will compute and credit all New Yield dating back to February 20, 2003 if applicable.

3.3 Water Transfers and Adjustments of Rights

Pursuant to Section 7 of the Watermaster Rules and Regulations, Watermaster shall maintain an accounting of all water transfers and adjustments of rights by and between the Appropriator and Overlying Parties. Watermaster accounts for three types of transfers: the transfer of water rights and/or water in storage between Appropriators, the transfer of water rights from Overlying Producers in exchange for water service by an Appropriator Party, and the allocation of unused Overlying Water.

3.3.1 Transfers between Appropriators

An Appropriator may transfer to another Appropriator all or any portion of its production right or water in storage that is surplus to its needs. On January 8, 2008, the SMWC and the BCVWD entered into a water transfer agreement, providing the BCVWD with the option to purchase all SMWC water, or a portion thereof, that is not pumped or designated for storage by the SMWC, termed “available water.” Each year the SMWC will compute the amount of “available water” and offer it to the BCVWD for purchase prior to offering it to any other party. This agreement is effective through February 4, 2014. During FY 2010/11, the BCVWD purchased 3,500 acre-ft of “available water” in storage from the SMWC. The purchase agreement and records of transfer are on file with Watermaster.

3.3.2 Transfers of Overlying Rights for Service by an Appropriator

The Judgment (Part III, Paragraph 3) provides that to the extent any Overlying Party requests and uses its adjudicated water rights to obtain water service (potable or non-potable) from an Appropriator Party, an equivalent volume of groundwater shall be earmarked for use by the Appropriator Party, which will serve the Overlying Party, up to the volume of the Overlying Water Right as reflected in Exhibit B of the Judgment. Section 7.1 of the Watermaster Rules and Regulations requires that the Overlying Pumper and Appropriator complete and file a Notice of Adjustment of Rights (Watermaster Form 5) with Watermaster. As of June 30, 2011, Watermaster has not received any notices for the adjustment of water rights.

The BCVWD verbally notified Watermaster that it is serving water to Overlying Parties and will be submitting the documentation necessary to compute the appropriate transfer amount, retroactive to the time that service to each Overlying Party commenced. Once this transfer is complete, Watermaster will need to recompute the allocation of unused Overlying Water to



the Parties (see Section 3.3.3).

3.3.3 Allocation of Unused Overlying Water

On September 9, 2009, Watermaster adopted Rule & Regulation 7.8, entitled *Availability of Unused Overlying Production and Allocation to the Appropriator Parties*. The objective of Rule & Regulation 7.8 is to define the process for allocating, to the Appropriator Parties, the volume of water that was not produced by the Overlying Parties pursuant to their production rights. So long as an Overlying Party's groundwater production does not exceed five times their share of the safe yield in any five-year period, the amount of groundwater not produced by that Overlying Party becomes available for allocation to the Appropriator Parties. The aggregate unused Overlying production rights will be based on each appropriator's share of the operating safe yield, as shown in Exhibit C of the Judgment, and will have no impact on the legal water right held by the Overlying Parties in subsequent years. Table 5 summarizes the volume of unused Overlying water for FY 2003/04 through FY 2010/11. Table 6 shows the allocation of unused Overlying water to each Appropriator per their shares of the safe yield and the schedule of allocation outlined in the Rules and Regulations.

In FY 2009/10, a total of 5,235 acre-ft of unproduced Overlying water from FY 2004/05 was allocated to the Appropriator Parties. The 6,150 acre-ft of unproduced Overlying water for the FY 2009/10 period will be allocated to the Appropriator Parties in FY 2014/15.

In FY 2010/11, a total of 5,278 acre-ft of unproduced Overlying water from FY 2005/06 was allocated to the Appropriator Parties. The 6,467 acre-ft of unproduced Overlying water for the FY 2010/11 period will be allocated to the Appropriator Parties in FY 2015/16.

3.4 Storage Accounting

Pursuant to Section 6.7 of the Watermaster Rules and Regulations, Watermaster shall calculate additions, extractions, and losses of all water stored, and any losses of water supplies or safe yield that result from such water stored, and keep and maintain an annual accounting thereof for public record. As of June 30, 2011, Watermaster has not developed a methodology to estimate losses of water in storage.

Table 7 is a reconciliation of each Appropriator's storage account from FY 2003/04 through FY 2010/11. The groundwater pumping, supplemental water recharge, local water recharge, allocation of unused Overlying water, and other transfer activities discussed in the preceding sections of this report are included in the storage accounting contained in Table 7. At the beginning of FY 2009/10, the total volume of water in all storage accounts was 33,666 acre-ft. As of June 30, 2011, the volume of water in all storage accounts is 67,098 acre-ft. No Party incurred a replenishment obligation in either FY 2009/10 or FY 2010/11.

3.5 Change in Groundwater Levels in the Beaumont Basin

Figure 2 shows the change in groundwater levels observed at 8 wells in the Basin compared against annual production and recharge for the July 1, 2003 through June 30, 2011 period. In



general, water levels have declined across the Basin. A slight rebound in groundwater elevations was observed at a few wells during FY 2010/11 and may be the result of decreasing production, increasing recharge, or both. A more detailed assessment of the changes in groundwater elevations and storage will be contained in Watermaster's next Basin Condition Report (Engineer's Report).

3.6 Recommendations

Watermaster should prioritize the following activities to ensure the accurate accounting of production, transfers, recharge, and storage:

- Develop a policy to account for the recharge of waters to the Basin, including supplemental imported water and recycled water and new-yield stormwater. At a minimum, this policy should address who is responsible for preparing the technical demonstration of the amount of recharge to the Basin (e.g. Watermaster or the Party seeking credit for recharge), the process by which Watermaster will review and approve the recharge credit, and the schedule for completing the necessary documentation to ensure that recharge credits are reflected in Watermaster's annual reporting for the year the recharge activities occurred. Some guidelines are already included in Section 5 of the Watermaster Rules and Regulations but should be amended to provide more clarity to the process.
- Develop a policy to account for transfers of water that result from an Appropriator Party providing water service to an Overlying Party. At a minimum, this policy should address the data needed to compute the transfer amount, the process by which Watermaster will review and approve the transfer, and the schedule for completing the necessary documentation to ensure that such transfers are reflected in Watermaster's annual reporting for the year the transfer activities occurred. Some guidelines are already included in Section 7 of the Watermaster Rules and Regulations but should be amended to provide more clarity to the process.

Secondary to the two activities prioritized above, Watermaster should revisit the Rules and Regulations to ensure that the document is consistent with the requirements of the Judgment and with the practical aspects of accounting for production, recharge, transfers, and storage. Watermaster adopted its original Rules and Regulations in June 2004, and they were developed as a guiding document to administer the Judgment and to outline the protocols to be followed by the Parties to assist Watermaster and its staff in the accounting of production, recharge, transfers, and storage. The Rules and Regulations were developed with an understanding that modifications would be considered as necessary—as was done in 2009. In the preparation of this Combined Seventh and Eighth Annual Report, several circumstances were identified where the Rules and Regulations were not being followed as originally envisioned. The following is a summary of such inconsistencies:

- Watermaster has not prepared a Basin Condition report per the prescribed bi-annual frequency (Rules and Regulations, Section 2.13).



- Watermaster has not performed a meter maintenance program to ensure accurate reporting of groundwater production (Rules and Regulations, Sections 3.1b and 3.1c).
- All Producers are not regularly reporting production to Watermaster (Rules and Regulations, Section 3.2). WEI recommends that Producers who pump in excess of 10 acre-ft per year report their production on a monthly or quarterly basis to the Watermaster Secretary. All Parties who pump less than 10 acre-ft per year should report their production annually. Recharge should also be reported to the Watermaster Secretary on a monthly or quarterly basis.
- Watermaster has yet to develop a methodology for estimating New Yield (stormwater) recharges to the Basin (Rules and Regulations, Section 4.2).
- Watermaster has yet to develop a methodology for estimating losses of water in storage (Rules and Regulations, Section 4.3).
- Watermaster has not enforced the submittal of applications to recharge supplemental or new yield water in the Basin prior to accounting for said recharges (Rules and Regulations, Sections 5.0, 5.1, 5.2, and 5.3, and Form 3).
- Watermaster has not developed and executed Groundwater Storage Agreements per the criteria defined in the Rules and Regulations (Rules and Regulations, Section 6.4 and Forms 1 and 2).
- Watermaster has not enforced the submittal of applications for the recapture of water in storage by Appropriators as a means of precluding a replenishment obligation (Rules and Regulations, Section 6.1 and Form 4).
- Watermaster has not enforced the submittal of notices of transfers prior to accounting for said transfers. (Rules and Regulations, Sections 7.1, 7.2, 7.3, and 7.4, and Forms 5, 7, and 8)

Finally, Watermaster has not filed its annual reports with the Court; this is typically done in adjudicated basins where the Court maintains continuing jurisdiction, as is the case for the Beaumont Judgment. The Watermaster Board should make a formal determination whether or not it should file the annual reports with the Court.



Section 4 – References

Superior Court of the State of California for the County of Riverside. (2004). *Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin*. Gary Tranbarger, Judge of the Superior Court. Case No. RIC 389197, February 4, 2004.

Wildermuth Environmental, Inc. (2002). *San Timoteo Watershed Management Program, Final Phase 1 Report*.

Wildermuth Environmental, Inc. (2005). *Integrated Regional Water Management Program for the San Timoteo Watershed*.

Wildermuth Environmental, Inc. (2009). *Land Subsidence Monitoring Program, Spring 2009*.

Wildermuth Environmental, Inc. (2011). *Maximum Benefit Monitoring Program 2010 Annual Report*.



Table 1a
Appropriator Producer Production Summary for Fiscal Year 2009/10
(acre-ft)

Well Name	Water Production Reported by Appropriator Producers ¹												Total Production	Share of Operating Safe Yield	Water Eligible for Storage	
	July	August	September	October	November	December	January	February	March	April	May	June				
Banning, City of																
Well C2-A	31.3	3.0	36.8	0.5	0.7	1.7	0.5	0.0	2.6	0.3	0.4	0.3	78.0			
Well C3	107.4	90.7	66.0	51.8	61.0	41.6	35.4	12.7	8.9	49.4	119.2	107.0	751.1			
Well C4	156.1	156.2	96.4	9.3	1.5	6.4	3.4	0.4	2.9	0.6	0.5	0.6	434.2			
Well M3	10.5	73.5	77.0	2.0	2.7	3.3	1.1	0.2	7.3	0.3	0.2	11.4	189.6			
Production from BCVWD ²	61.6	66.2	64.1	66.8	63.7	66.6	65.8	59.3	17.3	0.0	0.0	0.0	531.5			
Subtotal	366.9	389.7	340.2	130.3	129.6	119.6	106.3	72.6	39.0	50.6	120.2	119.3	1,984.3	5,029	3,044.7	
Beaumont-Cherry Valley Water District																
Well 1	123.8	105.8	93.6	68.1	45.5	29.9	36.7	50.6	53.3	48.2	73.9	98.7	828.0			
Well 3	165.7	159.5	133.4	94.0	59.6	38.1	44.3	60.7	57.3	57.2	91.1	116.5	1,077.5			
Well 16	103.9	103.2	100.8	59.8	18.7	0.0	0.3	1.2	0.5	2.6	0.0	0.6	391.4			
Well 21	253.2	208.7	200.5	163.2	113.8	88.4	0.0	0.0	0.0	0.0	0.0	0.0	1,027.8			
Well 22	0.0	0.0	0.0	13.9	50.3	62.2	52.4	43.0	41.6	20.0	6.4	11.3	301.1			
Well 23	0.1	0.0	0.0	0.0	21.6	88.8	96.5	45.7	106.0	156.3	182.2	203.0	900.2			
Well 24	228.5	233.0	221.4	190.4	178.5	127.2	110.2	293.4	148.8	166.2	226.2	219.2	2,343.0			
Well 25	249.1	32.6	17.5	217.5	217.2	25.2	12.5	0.0	25.2	44.1	155.0	191.8	1,187.6			
Well 26	171.9	168.2	162.4	126.2	135.0	20.7	85.9	59.3	69.7	97.2	150.6	144.3	1,391.4			
Well 29	126.8	132.3	117.2	97.1	92.6	51.5	39.1	0.0	0.0	0.0	0.5	89.6	746.6			
Production for Banning ²	-61.6	-66.2	-64.1	-66.8	-63.7	-66.6	-65.8	-59.3	-17.3	0.0	0.0	0.0	-531.5			
Subtotal	1,361.4	1,076.9	982.8	963.4	869.0	465.3	412.0	494.6	485.1	591.8	885.9	1,075.0	9,663.2	6,802	0.0	
South Mesa Water Company																
3rd No. 4 Well	36.8	39.2	46.4	42.6	28.8	20.4	18.1	14.9	16.6	23.0	32.1	52.4	371.2			
Subtotal	36.8	39.2	46.4	42.6	28.8	20.4	18.1	14.9	16.6	23.0	32.1	52.4	371.2	1,996	1,624.8	
Yucaipa Valley Water District																
Well 35	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			
Well 48	89.3	67.3	76.0	50.6	34.5	10.1	6.4	0.9	21.5	18.0	59.6	84.2	518.3			
Subtotal	89.3	67.3	76.0	50.6	34.5	10.1	6.4	0.9	21.5	18.0	59.6	84.2	518.3	2,173	1,654.8	
Total	1,854.3	1,573.1	1,445.4	1,186.9	1,061.9	615.4	542.7	583.0	562.1	683.3	1,097.9	1,331.0	12,537.0	16,000.0	6,324.2	

1 -- All values are rounded and subject to revision based on the receipt of more accurate information.

2 -- Pursuant to Part I, Paragraph 3B of the Judgment, and a separate agreement (a copy of which is on file with the Watermaster)

Table 1b
Appropriator Producer Production Summary for Fiscal Year 2010/11
(acre-ft)

Well Name	Water Production Reported by Appropriator Producers ¹												Total Production	Share of Operating Safe Yield	Water Eligible for Storage	
	July	August	September	October	November	December	January	February	March	April	May	June				
Banning, City of																
Well C2-A	1.6	1.3	9.6	8.4	0.9	1.0	0.4	0.6	1.2	0.3	0.3	12.5	38.0			
Well C3	113.8	120.6	114.8	47.1	76.1	38.1	24.5	24.7	41.9	59.0	107.5	111.8	879.9			
Well C4	3.5	22.3	14.3	0.3	1.6	1.1	0.9	0.9	1.4	1.2	1.0	3.5	51.9			
Well M3	30.5	21.4	1.9	3.5	0.4	1.8	0.5	0.3	0.4	0.3	0.6	10.7	72.2			
Production from BCVWD ²	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			
Subtotal	149.3	165.6	140.5	59.3	78.9	42.0	26.3	26.5	45.0	60.7	109.5	138.4	1,042.0	5,029	3,987.0	
Beaumont-Cherry Valley Water District																
Well 1	115.0	87.5	116.1	68.5	46.3	14.3	7.1	0.5	20.5	20.8	66.4	75.7	638.7			
Well 3	155.6	119.1	73.7	0.0	0.0	0.0	0.0	6.6	19.6	12.0	70.0	83.6	540.1			
Well 16	2.5	0.5	0.7	1.5	0.7	0.9	1.7	0.0	0.0	0.0	1.3	1.7	11.4			
Well 21	0.0	0.0	7.2	0.0	1.5	0.0	0.0	0.0	0.0	0.0	105.7	159.8	274.2			
Well 22	69.1	42.5	80.4	9.0	4.6	1.4	2.8	0.0	0.0	2.8	5.8	0.0	218.3			
Well 23	271.3	217.3	296.4	146.1	101.6	108.1	84.6	78.2	43.8	6.1	130.7	172.0	1,656.1			
Well 24	243.5	178.7	255.7	88.3	128.1	141.4	206.4	161.6	116.5	167.6	139.2	163.7	1,990.7			
Well 25	250.0	209.1	196.7	138.3	66.8	11.0	0.3	2.7	10.0	116.2	136.1	30.8	1,167.8			
Well 26	159.9	124.0	167.1	66.6	96.8	90.8	127.4	113.1	77.8	108.8	119.7	111.9	1,363.8			
Well 29	165.8	131.7	177.9	92.7	86.9	50.2	0.0	6.8	65.8	91.0	109.9	132.6	1,111.1			
Production for Banning ²	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			
Subtotal	1,432.7	1,110.3	1,371.8	611.0	533.1	418.1	430.1	369.5	354.0	525.2	884.7	931.7	8,972.1	6,802	0.0	
South Mesa Water Company																
3rd No. 4 Well	53.8	58.2	56.5	32.5	32.4	14.5	18.3	16.8	19.9	20.7	30.2	42.5	396.4			
Subtotal	53.8	58.2	56.5	32.5	32.4	14.5	18.3	16.8	19.9	20.7	30.2	42.5	396.4	1,996	1,599.6	
Yucaipa Valley Water District																
Well 35	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			
Well 48	127.4	115.6	137.3	43.3	33.6	23.6	27.4	23.4	22.3	33.7	50.2	67.0	704.8			
Subtotal	127.4	115.6	137.3	43.3	33.6	23.6	27.4	23.4	22.3	33.7	50.2	67.0	704.8	2,173	1,468.2	
Total	1,763.2	1,449.8	1,706.1	746.1	678.0	498.2	502.1	436.2	441.2	640.3	1,074.6	1,179.7	11,115.3	16,000.0	7,054.8	

1 -- All values are rounded and subject to revision based on the receipt of more accurate information.

2 -- Pursuant to Part I, Paragraph 3B of the Judgment, and a separate agreement (a copy of which is on file with the Watermaster)

Table 2a
Overlying Producer Production Summary for Fiscal Year 2009/10
(acre-ft)

Well Name	Metered	Water Production by Overlying Producers ¹												Total Production ²	Overlying Water Right	Unused Overlying Allocation in 09/10 ³	Five-Year Production Right	Five-Year Total Production
		July	August	September	October	November	December	January	February	March	April	May	June					
Beckman, Walter M.	Yes	1.8	2.2	1.9	0.8	0.8	0.1	0.5	0.1	0.3	0.2	0.9	0.6	10.2	75.0	64.8	375.0	57.9
California Oak Valley Golf and Resort LLC																		
Oak Valley #1	Yes	0.0	0.0	76.8	9.6	49.4	0.0	5.2	7.8	9.5	6.1	57.3	24.6	246.2				
Oak Valley #2 ⁴	Yes	108.1	104.7	42.7	43.9	8.1	8.4	13.5	0.0	24.0	15.3	36.5	26.9	432.2				
Subtotal		108.1	104.7	119.5	53.5	57.4	8.4	18.7	7.8	33.5	21.4	93.8	51.5	678.3	950.0	271.7	4,750.0	3,855.7
Merlin Properties	No													1.6	550.0	548.4	2,750.0	8.0
Oak Valley Partners, LP⁵																		
Singleton Ranch #5	No													300.0				
Singleton Ranch #7	Yes													1.0				
Irrigation Stokes	No													10.0				
Subtotal														311.0	1,806.0	1,495.0	9,030.0	1,720.3
Plantation on the Lake LLC⁶	Yes	36.8	34.0	34.0	34.0	34.0	34.0	34.0	12.4	12.4	24.3	25.6	33.2	348.6	581.0	232.4	2,905.0	1,738.3
Rancho Calimesa Mobile Home Park	No													69.3	150.0	80.7	750.0	345.5
Roman Catholic Bishop of San Bernardino⁷	No													0.0	154.0	154.0	770.0	58.3
Sharondale Mesa Owners Association																		
Well No.1	Yes	8.8	10.2	9.7	8.4	7.0	1.7	0.1	1.5	3.0	3.1	7.4	9.8	70.7				
Well No.2	Yes	7.8	8.3	8.5	7.4	6.0	4.6	5.1	1.5	2.9	4.9	6.3	7.8	71.0				
Subtotal		16.5	18.5	18.2	15.7	13.0	6.3	5.3	3.1	5.8	8.0	13.7	17.6	141.7	200.0	58.3	1,000.0	883.2
East Valley Golf Club⁸																		
Well A	Yes	13.0	45.0	32.0	24.0	6.0	2.0	23.0	7.0	1.0	3.0	3.0	16.0	175.0				
Well C	Yes	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				
Well D	Yes	83.0	155.0	110.0	125.0	69.0	56.0	7.0	16.0	14.0	59.0	55.0	6.0	755.0				
Subtotal		96.0	200.0	142.0	149.0	75.0	58.0	30.0	23.0	15.0	62.0	58.0	22.0	930.0	2,200.0	1,270.0	11,000.0	6,383.1
Stearns, Leonard M. and Dorothy D.	No													0.7	200.0	199.3	1,000.0	5.1
Sunny-Cal Egg and Poultry Company	No													2.6	1,439.5	1,436.9	7,197.5	13.1
Albor Properties III, LP⁹	No													2.3	300.0	297.8	1,500.0	21.9
Nikodinov, Nick	No													0.7	20.0	19.3	100.0	3.6
McAmis, Ronald L.	No													0.5	5.0	4.5	25.0	2.7
Aldama, Nicolas and Amalia	No													0.8	7.0	6.2	35.0	4.0
Gutierrez, Hector and Luis and Sebastian Monroy	No													1.4	10.0	8.6	50.0	6.9
Darmont, Boris and Miriam	No													0.4	2.5	2.2	12.5	1.8
Total														2,500.0	8,650.0	6,150.0	43,250.0	15,109.1

1 -- All values are rounded and subject to revision based on the receipt of more accurate information.

2 -- Total production was estimated for Overliers with un-metered wells. Please see Appendix E for a detailed demonstration of the water duty method.

3 -- The unused overlying allocation in 09/10 will be distributed to the Appropriators' storage accounts in fiscal 2014/15, according to their shares of the unused safe yield.

4 -- Data for Oak Valley #2 was formerly reported as the OVGC Comfort Stn. Well. OVGC Comfort Stn. has not been in use since the beginning of the adjudication and all data should have been assigned to Oak Valley #2.

5 -- Production values were not reported by Oak Valley Partners for 2009/10. For this draft report, the average production for FY 2006/07 through FY2008/09 used for the FY2009/10 and FY 2010/11 values. Information about OVP is not sufficient for performing the water duty method in Appendix D.

6 -- Plantation on the Lake only reported one meter read for the period covering August 2009 through January 2010. The reported production was divided evenly across this six-month period.

7 -- All structures on the land parcels owned by the Roman Catholic Bishop of San Bernardino have been demolished and the property is vacant.

8 -- Formerly the Southern California Section of the PGA of America

9 -- Formerly Sunny Cal North - Manheim, Manheim & Berman

**Table 2b
Overlying Producer Production Summary for Fiscal Year 2010/11
(acre-ft)**

Well Name	Metered	Water Production by Overlying Producers ¹												Total Production ²	Overlying Water Right	Unused Overlying Allocation in 10/11 ³	Five-Year Production Right	Five-Year Total Production
		July	August	September	October	November	December	January	February	March	April	May	June					
Beckman, Walter M. ⁴	Yes	1.1	0.8	1.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.4	5.2	75.0	69.8	375.0	48.9
California Oak Valley Golf and Resort LLC																		
Oak Valley #1	Yes	45.6	24.6	94.3	25.3	4.0	0.0	10.7	1.0	0.2	0.0	0.0	0.0	205.6				
Oak Valley #2 ⁵	Yes	41.4	59.1	4.4	0.1	30.4	9.2	0.3	9.6	0.6	15.4	72.2	12.6	255.1				
Subtotal		87.0	83.7	98.7	25.4	34.3	9.2	11.0	10.6	0.8	15.4	72.2	12.6	460.7	950.0	489.3	4,750.0	3,477.5
Merlin Properties	No													1.6	550.0	548.4	2,750.0	7.9
Oak Valley Partners, LP ⁶																		
Singleton Ranch #5	No													300.0				
Singleton Ranch #7	Yes													1.0				
Irrigation Stokes	No													10.0				
Subtotal														311.0	1,806.0	1,495.0	9,030.0	1,555.5
Plantation on the Lake LLC	Yes	33.2	39.5	20.3	49.9	28.9	23.5	16.1	23.4	15.9	20.7	24.1	34.3	329.7	581.0	251.3	2,905.0	1,741.2
Rancho Calimesa Mobile Home Park	No													69.3	150.0	80.7	750.0	346.5
Roman Catholic Bishop of San Bernardino ⁷	No													0.0	154.0	154.0	770.0	2.1
Sharondale Mesa Owners Association																		
Well No.1	Yes	9.1	10.4	9.7	5.2	4.8	3.6	3.4	2.7	2.8	4.1	5.7	8.0	69.5				
Well No.2	Yes	7.8	8.6	8.1	4.3	4.5	2.8	3.3	2.6	2.5	4.1	6.2	6.5	61.2				
Subtotal		16.9	19.0	17.8	9.5	9.3	6.4	6.6	5.3	5.3	8.3	11.9	14.5	130.7	200.0	69.3	1,000.0	828.1
East Valley Golf Club ⁸																		
Well A	Yes	20.0	14.0	28.0	12.0	11.0	3.0	3.0	4.0	0.0	17.0	5.0	20.0	137.0				
Well C	Yes	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				
Well D	Yes	222.0	72.0	98.0	112.0	32.0	25.0	23.0	40.0	18.0	26.0	45.0	16.0	729.0				
Subtotal		242.0	86.0	126.0	124.0	43.0	28.0	26.0	44.0	18.0	43.0	50.0	36.0	866.0	2,200.0	1,334.0	11,000.0	5,864.1
Stearns, Leonard M. and Dorothy D.	No													0.7	200.0	199.3	1,000.0	4.7
Sunny-Cal Egg and Poultry Company	No													2.6	1,439.5	1,437.0	7,197.5	13.2
Albor Properties III, LP ⁹	No													2.2	300.0	297.8	1,500.0	11.5
Nikodinov, Nick	No													0.7	20.0	19.3	100.0	3.6
McAmis, Ronald L.	No													0.5	5.0	4.5	25.0	2.8
Aldama, Nicolas and Amalia	No													0.8	7.0	6.2	35.0	4.0
Gutierrez, Hector and Luis and Sebastian Monroy	No													1.4	10.0	8.7	50.0	6.9
Darmont, Boris and Miriam	No													0.4	2.5	2.2	12.5	1.8
Total														2,183.4	8,650.0	6,466.6	43,250.0	13,920.2

1 -- All values are rounded and subject to revision based on the receipt of more accurate information.

2 -- Total production was estimated for Overliers with un-metered wells. Please see Appendix E for a detailed demonstration of the water duty method.

3 -- The unused overlying allocation in 10/11 will be distributed to the Appropriators' storage accounts in fiscal 2015/16, according to their shares of the unused safe yield.

4 -- Only one meter read for the period covering Dec 2010 through Feb 2011 was reported; production was divided evenly across this three-month period. Only one meter read for the period covering Mar 2011 through May 2011 was reported; production was divided evenly across this three-month period. No meter read was reported for June 2011. A value of 0.4 acre-ft, which is the average production value for the July through May period, was entered as an estimated value.

5 -- Data for Oak Valley #2 was formerly reported as the OVGC Comfort Stn. Well. OVGC Comfort Stn. has not been in use since the beginning of the adjudication and all data should have been assigned to Oak Valley #2.

6 -- Production values were not reported by Oak Valley Partners for 2009/10. For this draft report, the average production for FY 2006/07 through FY2008/09 used for the FY2009/10 and FY 2010/11 values. Information about OVP is not sufficient for performing the water duty method in Appendix D.

7 -- All structures on the land parcels owned by the Roman Catholic Bishop of San Bernardino have been demolished and the property is vacant.

8 -- Formerly the Southern California Section of the PGA of America

9 -- Formerly Sunny Cal North - Manheim, Manheim & Berman

Table 3
Production Summary for Appropriator and Overlying Producers in the Beaumont Basin
Fiscal Years 2003/04 through 2010/11
(acre-ft)

	Annual Production								Total Production
	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	
Appropriator Parties									
Banning, City of	3,951.2	2,420.3	1,767.8	2,046.1	3,524.4	1,985.1	1,984.3	1,042.0	18,721.2
Beaumont-Cherry Valley Water District	6,204.3	6,386.0	7,624.9	10,455.5	11,429.5	10,711.8	9,663.2	8,972.1	71,447.2
South Mesa Water Company	419.8	558.0	632.4	691.4	576.9	410.9	371.2	396.4	4,057.1
Yucaipa Valley Water District	2,005.1	1,284.5	1,529.7	2,308.7	1,046.6	527.1	518.3	704.8	9,924.7
Subtotal	12,580.4	10,648.8	11,554.8	15,501.7	16,577.4	13,634.8	12,537.0	11,115.3	104,150.2
Overlying Parties									
Beckman, Walter M. ¹	22.0	21.3	14.2	9.3	11.1	13.2	10.2	5.2	106.4
California Oak Valley Golf and Resort LLC	1,227.4	635.0	839.0	767.9	778.0	792.5	678.3	460.7	6,178.9
Merlin Properties ²	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	12.7
Oak Valley Partners, LP ³	502.7	399.8	475.7	311.2	311.8	310.5	311.0	311.0	2,933.8
Plantation on the Lake LLC	321.4	312.7	326.8	372.2	332.3	358.4	348.6	329.7	2,702.1
Rancho Calimesa Mobile Home Park ²	68.3	68.3	68.3	69.3	69.3	69.3	69.3	69.3	551.4
Roman Catholic Bishop of San Bernardino ²	59.2	56.0	56.2	0.7	0.7	0.7	0.0	0.0	173.5
Sharondale Mesa Owners Association	169.1	162.8	185.8	194.8	171.0	189.9	141.7	130.7	1,345.9
East Valley Golf Club ⁴	1,401.0	1,369.0	1,385.0	1,764.1	1,142.1	1,161.9	930.0	866.0	10,019.1
Stearns, Leonard M. and Dorothy D. ²	1.1	1.1	1.1	1.1	1.1	1.1	0.7	0.7	8.0
Sunny-Cal Egg and Poultry Company ²	405.0	387.6	2.5	2.7	2.7	2.6	2.6	2.6	808.3
Albor Properties III, LP ^{2,5}	--	--	12.6	2.4	2.3	2.3	2.3	2.2	24.1
Nikodinov, Nick ²	--	--	0.7	0.8	0.7	0.7	0.7	0.7	4.3
McAmis, Ronald L. ²	--	--	0.5	0.6	0.6	0.5	0.5	0.5	3.2
Aldama, Nicolas and Amalia ²	--	--	0.8	0.9	0.8	0.8	0.8	0.8	4.8
Gutierrez, Hector, Luis Gutierrez and Sebastian Monroy ²	--	--	1.3	1.4	1.4	1.4	1.4	1.4	8.2
Darmont, Boris and Miriam ²	--	--	0.4	0.4	0.4	0.4	0.4	0.4	2.1
Subtotal	4,178.9	3,415.2	3,372.3	3,501.3	2,827.9	2,907.6	2,500.0	2,183.4	24,886.6
Total	16,759.3	14,064.0	14,927.2	19,002.9	19,405.3	16,542.5	15,037.0	13,298.7	129,036.8

1 -- Production estimated in 03/04, 04/05, and part of 05/06. Please see Appendix E for a detailed demonstration of the water duty method.

2 -- Production estimated in all years. Please see Appendix E for a detailed demonstration of the water duty method.

3 -- Production estimated in FY 209/10 and FY 2010/11. The average production for FY 2006/07 through FY2008/09 was used for the FY2009/10 and FY 2010/11 values. Information about OVP is not sufficient for performing water duty method.

4 -- Formerly the Southern California Section of the PGA of America

5 -- Formerly Sunny Cal North - Manheim, Manheim & Berman

Table 4
Annual Supplemental Recharge to the Beaumont Basin
Fiscal Years 2003/04 through 2010/11

Year	Supplemental Recharge (acre-ft)			
	Banning ¹	Beaumont ²	BCVWD ¹	Total
2003/04	0	0	0	0
2004/05	0	0	0	0
2005/06	0	0	0	0
2006/07	0	0	6,462	6,462
2007/08	0	0	3,248	3,248
2008/09	1,200	0	2,783	3,983
2009/10	1,200	0	4,918	6,118
2010/11	1,200	0	7,254	8,454
Totals	3,600	0	24,664	13,692

1--SWP water recharged in the BCVWD Noble Creek Recharge Facility

2--The City of Beaumont is seeking credit for recycled water recharged in the Basin from DP-007 in the unnamed tributary to Marshall Creek. A technical demonstration of the amount of recharge in the Basin is pending.

Table 5
Summary of Unused Overlying Water
Fiscal Years 2003/04 through 2010/11
(acre-ft)

Watermaster Accounting Year	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Annual Overlying Water Right	8,650	8,650	8,650	8,650	8,650	8,650	8,650	8,650
Annual Overlying Production	4,179	3,415	3,372	3,501	2,828	2,908	2,500	2,183
Unused Overlying Water	4,471	5,235	5,278	5,149	5,822	5,742	6,150	6,467

Table 6
Allocation of Unused Overlying Water
Fiscal Years 2008/09 through 2015/16
(acre-ft)

Appropriator Party	Share of Safe Yield	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16
Banning, City of	31.43%	1,405	1,645	1,659	1,618	1,830	1,805	1,933	2,032
Beaumont, City of	0.00%	0	0	0	0	0	0	0	0
Beaumont Cherry Valley Water District	42.51%	1,901	2,225	2,244	2,189	2,475	2,441	2,614	2,749
South Mesa Water Company	12.48%	558	653	659	643	727	717	768	807
Yucaipa Valley Water District	13.58%	607	711	717	699	791	780	835	878
Total	100.00%	4,471	5,235	5,278	5,149	5,822	5,742	6,150	6,467

Table 7
Reconciliation of Appropriator Production and Storage Accounts -- Fiscal Years 2003/04 through 2010/11
(acre-ft)

Fiscal Year	Storage Account Balance at Beginning of Fiscal Year	Operating Yield	Groundwater Production for Fiscal Year	Additions to Storage Account							Ending Account Balance	Authorized Storage Account as of June 30, 2011	
				Under Production ¹	Unused Overlying Production Allocation	Transfers Among Appropriators	Supplemental Water		Local Recharge	Total Additions to Storage Account			
							SWP Water Recharge	Recycled Water Recharge					
Beaumont Cherry Valley Water District													
2003/04	0	6,802	6,204	598	0	0	0	0	0	0	598	598	
2004/05	598	6,802	6,386	416	0	0	0	0	0	0	416	1,014	
2005/06	1,014	6,802	7,625	-823	0	0	0	0	0	0	-823	191	
2006/07 ²	191	6,802	10,455	-3,653	0	1,500	6,462	0	0	0	4,308	4,499	
2007/08 ³	4,499	6,802	11,429	-4,627	0	2,500	3,248	0	0	0	1,120	5,620	
2008/09 ³	5,620	6,802	10,712	-3,910	1,901	2,000	2,783	0	0	0	2,774	8,393	
2009/10	8,393	6,802	9,663	-2,861	2,225	0	4,918	0	0	0	4,283	12,676	
2010/11 ³	12,676	6,802	8,972	-2,170	2,244	3,500	7,254	0	0	0	10,827	23,503	80,000
City of Banning													
2003/04	0	5,029	3,951	1,078	0	0	0	0	0	0	1,078	1,078	
2004/05	1,078	5,029	2,420	2,609	0	0	0	0	0	0	2,609	3,686	
2005/06	3,686	5,029	1,768	3,261	0	0	0	0	0	0	3,261	6,948	
2006/07 ²	6,948	5,029	2,046	2,983	0	1,500	0	0	0	0	4,483	11,431	
2007/08	11,431	5,029	3,524	1,505	0	0	0	0	0	0	1,505	12,935	
2008/09	12,935	5,029	1,985	3,044	1,405	0	1,200	0	0	0	5,649	18,584	
2009/10	18,584	5,029	1,984	3,045	1,645	0	1,200	0	0	0	5,890	24,474	
2010/11	24,474	5,029	1,042	3,987	1,659	0	1,200	0	0	0	6,846	31,320	80,000
City of Beaumont													
2003/04	0	0	0	0	0	0	0	0	0	0	0	0	
2004/05	0	0	0	0	0	0	0	0	0	0	0	0	
2005/06	0	0	0	0	0	0	0	0	0	0	0	0	
2006/07	0	0	0	0	0	0	0	0	0	0	0	0	
2007/08	0	0	0	0	0	0	0	0	0	0	0	0	
2008/09	0	0	0	0	0	0	0	0	0	0	0	0	
2009/10	0	0	0	0	0	0	0	0	0	0	0	0	
2010/11	0	0	0	0	0	0	0	0	0	0	0	0	30,000
South Mesa Water Company													
2003/04	0	1,996	420	1,576	0	0	0	0	0	0	1,576	1,576	
2004/05	1,576	1,996	558	1,438	0	0	0	0	0	0	1,438	3,014	
2005/06	3,014	1,996	632	1,364	0	0	0	0	0	0	1,364	4,378	
2006/07 ²	4,378	1,996	691	1,305	0	-3,000	0	0	0	0	-1,695	2,682	
2007/08 ³	2,682	1,996	577	1,419	0	-2,500	0	0	0	0	-1,081	1,601	
2008/09 ³	1,601	1,996	411	1,585	558	-2,000	0	0	0	0	143	1,745	
2009/10	1,745	1,996	371	1,625	653	0	0	0	0	0	2,278	4,023	
2010/11	4,023	1,996	396	1,600	659	-3,500	0	0	0	0	-1,242	2,781	20,000

Table 7
Reconciliation of Appropriator Production and Storage Accounts -- Fiscal Years 2003/04 through 2010/11
(acre-ft)

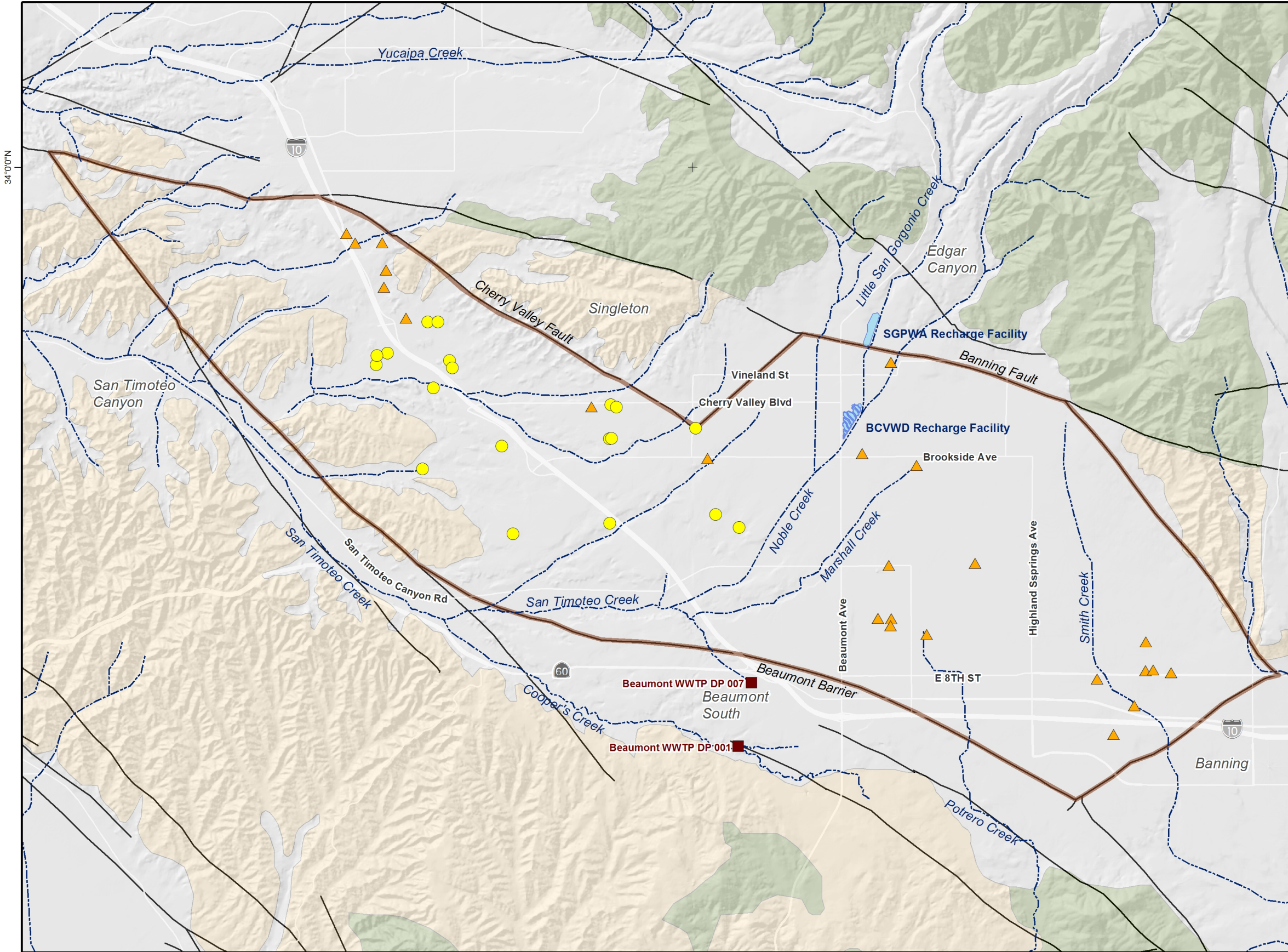
Fiscal Year	Storage Account Balance at Beginning of Fiscal Year	Operating Yield	Groundwater Production for Fiscal Year	Additions to Storage Account							Ending Account Balance	Authorized Storage Account as of June 30, 2011	
				Under Production ¹	Unused Overlying Production Allocation	Transfers Among Appropriators	Supplemental Water		Local Recharge	Total Additions to Storage Account			
							SWP Water Recharge	Recycled Water Recharge					
Yucaipa Valley Water District													
2003/04	0	2,173	2,005	168	0	0	0	0	0	0	168	168	
2004/05	168	2,173	1,284	889	0	0	0	0	0	0	889	1,056	
2005/06	1,056	2,173	1,530	643	0	0	0	0	0	0	643	1,700	
2006/07	1,700	2,173	2,309	-136	0	0	0	0	0	0	-136	1,564	
2007/08	1,564	2,173	1,047	1,126	0	0	0	0	0	0	1,126	2,691	
2008/09	2,691	2,173	527	1,646	607	0	0	0	0	0	2,253	4,944	
2009/10	4,944	2,173	518	1,655	711	0	0	0	0	0	2,366	7,309	
2010/11	7,309	2,173	705	1,468	717	0	0	0	0	0	2,185	9,494	50,000
Totals													
2003/04	0	16,000	12,580	3,420	0	0	0	0	0	0	3,420	3,420	
2004/05	3,420	16,000	10,649	5,351	0	0	0	0	0	0	5,351	8,771	
2005/06	8,771	16,000	11,555	4,445	0	0	0	0	0	0	4,445	13,216	
2006/07	13,216	16,000	15,502	498	0	0	6,462	0	0	0	6,960	20,176	
2007/08	20,176	16,000	16,577	-577	0	0	3,248	0	0	0	2,671	22,847	
2008/09	22,847	16,000	13,635	2,365	4,471	0	3,983	0	0	0	10,819	33,666	
2009/10	33,666	16,000	12,537	3,463	5,235	0	6,118	0	0	0	14,816	48,482	
2010/11	48,482	16,000	11,115	4,885	5,278	0	8,454	0	0	0	18,616	67,098	260,000

1 -- Negative values of under production indicate that the appropriator pumped more than its share of the operating yield.
2 -- Water in the SMWC storage account was sold to Banning and the BCVWD. The transfer agreement is on file with the Watermaster.
3 -- Water in the SMWC storage account was sold to the BCVWD. The transfer agreement is on file with the Watermaster.

117°0'0"W

34°0'0"N

117°0'0"W



Beaumont Basin Wells

- ▲ Appropriator Party Wells
- Overlying Party Wells

Other Features

- Streams, Rivers, and Channels
- Beaumont Basin Adjudicated Boundary
- Imported Water Recharge Facility
- Recycled Water Discharge Location

Geology

Water-Bearing Sediments

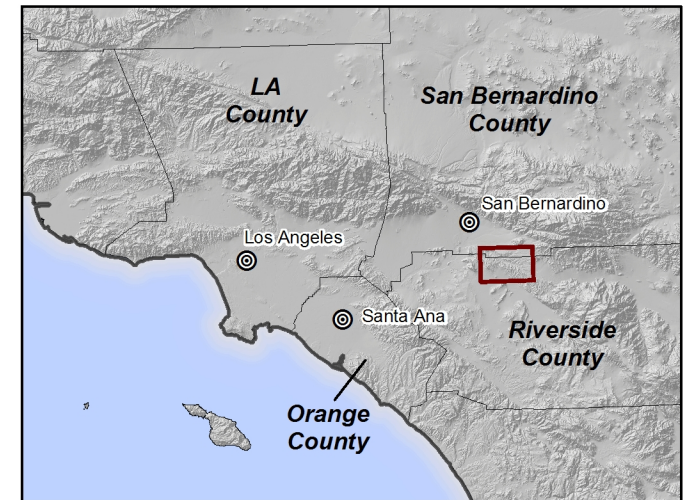
- Unconsolidated to Semi-consolidated Quaternary Alluvium
- Semi-consolidated San Timoteo Formation

Consolidated Bedrock

- Undifferentiated Pre-Tertiary Igneous and Metamorphic Crystalline Rocks

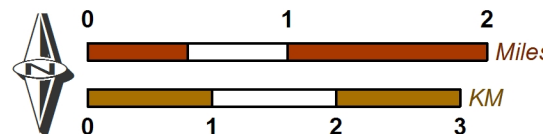
Faults

- Location Certain
- Location Uncertain
- Location Approximate
- Location Concealed



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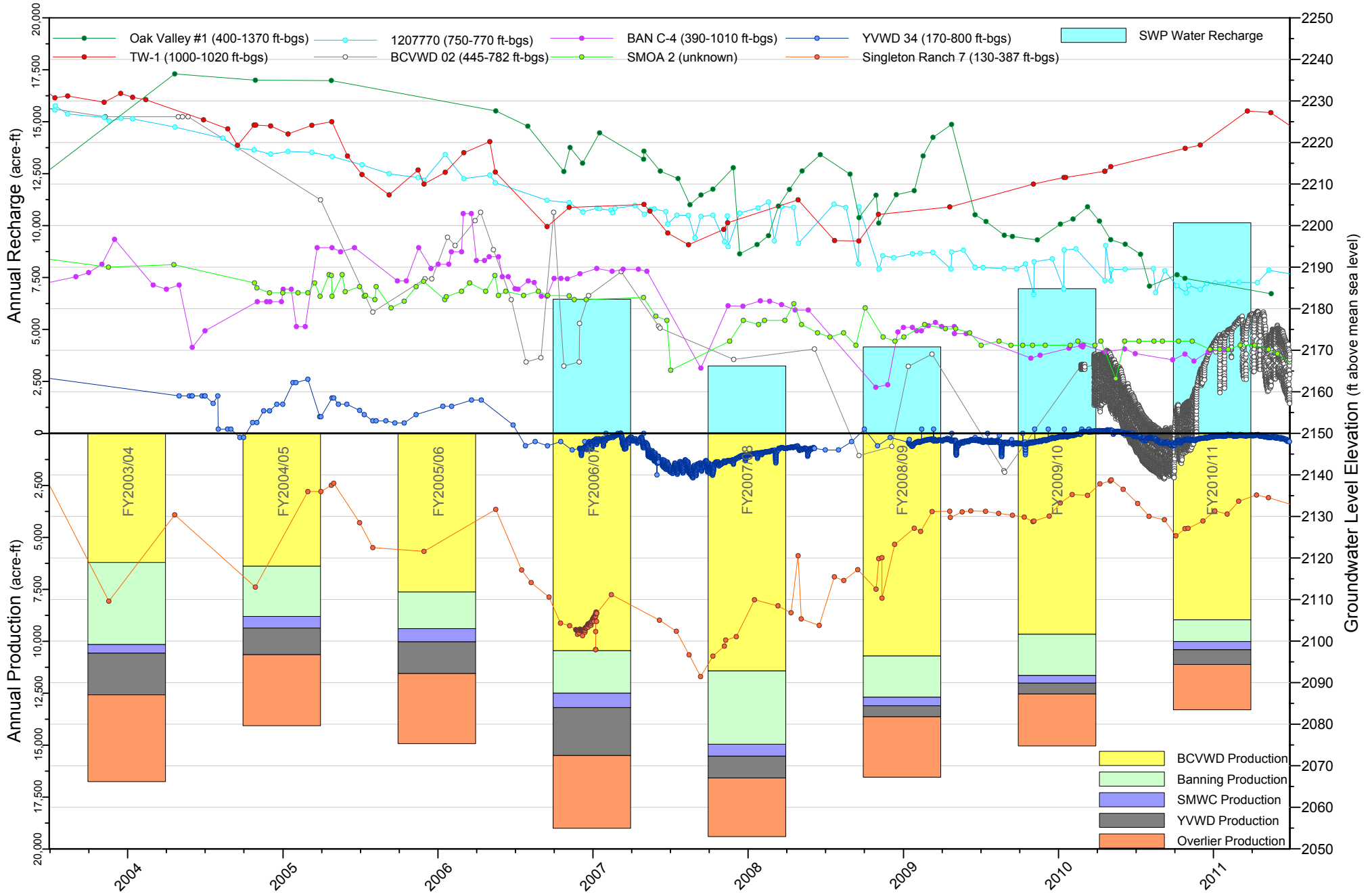


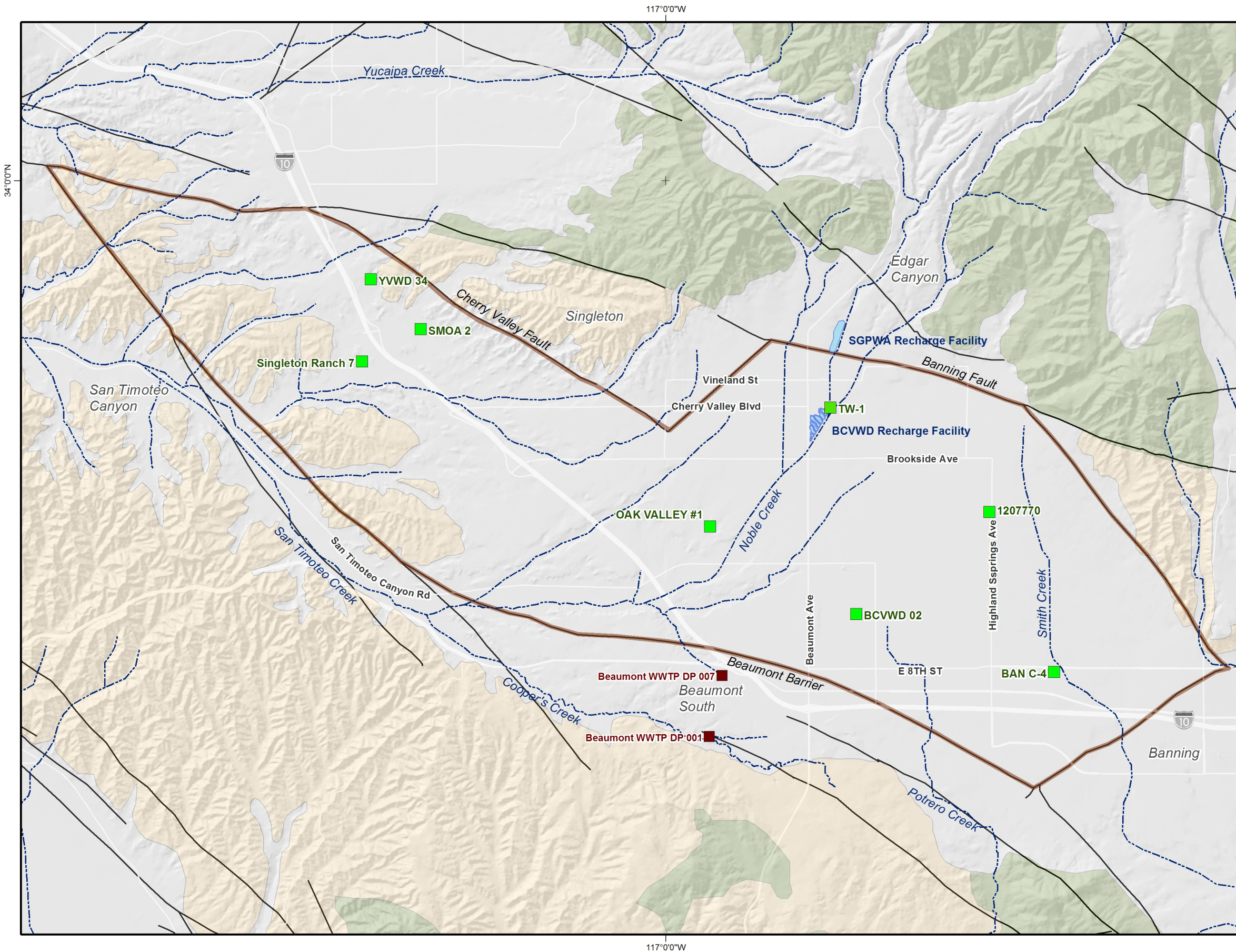
Beaumont Basin Watermaster
 7th & 8th Annual Report
 FY 2009/10 & FY 2010/11

Locations of Wells in the Beaumont Basin

Figure 1

Figure 2
Groundwater Levels, Production, and Recharge in the Beaumont Basin - FY2003/04 to FY2010/11





Beaumont Basin Wells

■ Wells with Water Level Data
FY 2003/04 - 2010/11

Other Features

- ~ Streams, Rivers, and Channels
- ▭ Beaumont Basin Adjudicated Boundary
- ▭ Imported Water Recharge Facility
- Recycled Water Discharge Location

Geology

Water-Bearing Sediments

- ▭ Unconsolidated to Semi-consolidated Quaternary Alluvium
- ▭ Semi-consolidated San Timoteo Formation

Consolidated Bedrock

- ▭ Undifferentiated Pre-Tertiary Igneous and Metamorphic Crystalline Rocks

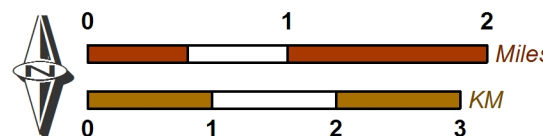
Faults

- Location Certain
- - - Location Uncertain
- · - Location Approximate
- · · · Location Concealed



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 Date: 20111101
 File: Figure_3.mxd



Beaumont Basin Watermaster
 7th & 8th Annual Report
 FY 2009/10 & FY 2010/11

Locations of Wells used for the Water Level Change Analysis

Figure 3

Appendix A

FY 2009/10 Audit Letter

FY 2010/11 Audit Letter

BEAUMONT BASIN WATERMASTER

Auditors' Report And Financial Statements

*For the Year Ended
June 30, 2010*

SIEBERT BOTKIN HICKEY & ASSOCIATES, LLP
Certified Public Accountants



***Siebert Botkin Hickey
& Associates, LLP***

**Watermaster Committee
Beaumont Basin Watermaster
Yucaipa, CA 92399**

Independent Auditors' Report

We have audited the accompanying basic financial statements of the Beaumont Basin Watermaster, as of and for the year ended June 30, 2010. These financial statements are the responsibility of the management of Beaumont Basin Watermaster. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Beaumont Basin Watermaster, as of June 30, 2010, and the changes in financial position and cash flows for the year then ended in conformity with accounting principles generally accepted in the United States of America.

The Beaumont Basin Watermaster has not presented the management's discussion and analysis that accounting principles generally accepted in the United States of America require to supplement, although not to be a part of, the basic financial statements.

Siebert Botkin Hickey & Associates, LLP

July 16, 2010

Beaumont Basin Watermaster

Statement of Net Assets

As of June 30, 2010

ASSETS

CURRENT ASSETS

Cash and Cash Equivalents

\$ 25,152

LIABILITIES and NET ASSETS

CURRENT LIABILITIES

Accounts Payable

10,493

NET ASSETS

Unrestricted

\$ 14,659

See Auditors' Report

The Notes to Financial Statements Are An Integral Part of This Statement

Beaumont Basin Watermaster

Statement of Activities

For the Year Ended June 30, 2010

REVENUES

San Timoteo Watershed Management Authority Special Project Funds	\$	33,339
Interest Revenue		6
Total Revenues		<u>33,345</u>

EXPENSES

Administrative Expenses		
Chief of Watermaster Services		21,500
Meetings and Miscellaneous		6,815
Acquisition and Computation of Production Data/Annual Report		16,900
General Engineering		10,667
Groundwater Level Water Monitoring Program		9,840
Legal and Professional		6,063
Bank Charges and Miscellaneous		611
Total Expenses		<u>72,396</u>
Change in Net Assets		(39,051)

NET ASSETS

Unrestricted Net Assets, Beginning of Year		53,710
Unrestricted Net Assets, End of Year	\$	<u>14,659</u>

See Auditors' Report

The Notes to Financial Statements Are An Integral Part of This Statement

Beaumont Basin Watermaster

Statement of Cash Flows

For the Year Ended June 30, 2010

Cash Flows From Operating Activities:

Cash Received from San Timoteo Watershed Management Authority	\$ 33,339
Cash Paid to Vendors for Services and Supplies	(79,894)
Net Cash Used By Operations	<u>(46,555)</u>

Cash Flows From Investing Activities:

Interest Earned on Operating Funds	<u>6</u>
Net Cash Provided by Investing Activities	<u>6</u>

Net Decrease in Cash	(46,549)
Cash and Cash Equivalents at Beginning of Year	<u>71,701</u>
Cash and Cash Equivalents at End of Year	<u>\$ 25,152</u>

See Auditors' Report

The Notes to Financial Statements Are An Integral Part of This Statement

Beaumont Basin Watermaster

Notes to Financial Statements

For the Year Ended June 30, 2010

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

Description of Operations:

The Beaumont Basin Watermaster is the entity charged with administering adjudicated water rights and managing groundwater resources within the Beaumont Groundwater Basin. It was created on February 4, 2004 by a Judgment entered in the Superior Court of the State of California for the County of Riverside (Case No. RIC 389197). Pursuant to the Judgment, the Watermaster Committee is comprised of representatives from the City of Banning, the City of Beaumont, the Beaumont-Cherry Valley Water District, the South Mesa Mutual Water Company, and the Yucaipa Valley Water District.

The Watermaster's area of jurisdiction, which is also known as the adjudicated boundary, overlies a portion of the Santa Ana River Watershed. San Timoteo Creek, which is a tributary to the Santa Ana River, is one of the major surface streams traversing the area as well as portions of Little San Gorgonio Creek and Noble Creek.

Basis of Presentation:

The Beaumont Basin Watermaster's financial statements have been prepared in accordance with Accounting Principles Generally Accepted in the United States of America (GAAP) as applied to governmental units. The Governmental Accounting Standards Board (GASB) is the accepted standard setting body for establishing governmental accounting and financial reporting principles.

The Watermaster is considered a single activity special-purpose government. A single proprietary fund is used to report all of the Watermaster's financial activities.

Financial reporting is based upon all Governmental Accounting Standards Board (GASB) pronouncements, as well as the Financial Accounting Standards Board Statements and Interpretations, Accounting Principles Board Opinions, and Accounting Research Bulletins that were issued on or before November 30, 1989 that do not conflict with or contradict GASB pronouncements. FASB pronouncements issued after November 30, 1989 are not followed in the preparation of the accompanying financial statements.

Basis of Accounting:

The Beaumont Basin Watermaster uses the accrual method of accounting for financial statement reporting purposes. Under the accrual method revenues are recognized when they are earned, and expenses are recognized when they are incurred.

Reporting Entity:

The Watermaster has defined its reporting entity in accordance with GASB Statement No. 14, "The Financial Reporting Entity," which provides guidance for determining which governmental activities, organizations, and functions should be included in its reporting entity. The Watermaster's reporting entity includes all significant operation and revenue sources for which the Watermaster Committee exercises oversight responsibility as determined under the criteria established by the National Council on Governmental Accounting Statement No. 3, as adopted by FASB. Oversight responsibility is determined on the basis of selection of the governing board, designation of management, ability to significantly influence operations, accountability for fiscal matters, and the scope of public service.

Income Taxes

The Watermaster is exempt from federal income and state franchise taxes.

Cash and Cash Equivalents:

For purposes of the statement of cash flows, cash equivalents includes time deposits, certificates of deposit, and all highly liquid debt instruments with original maturities of three months or less. The Watermaster maintains bank accounts at financial institutions located within the State of California.

Beaumont Basin Watermaster

Notes to Financial Statements

For the Year Ended June 30, 2010

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued):

Net Assets/Fund Equity

The financial statements are presented using the net asset method. Net assets are categorized as invested capital assets (net of related debt), restricted and unrestricted. The Watermaster reports only unrestricted net assets.

- Unrestricted Net Assets – This category represents net assets of the Watermaster not restricted for any project or other purpose.

NOTE 2 – CASH AND INVESTMENTS:

California law requires banks and savings and loan institutions to pledge government securities with a market value of 110% of the Watermaster's cash on deposits or first trust deed mortgage notes with a value of 150% of the deposit as collateral for all public agency deposits. Under California law this collateral remains with the institution but is held in the Watermaster's name and places the Watermaster ahead of general creditors of the institution.

The Watermaster's cash balances of \$25,152 at June 30, 2010 are held in FDIC insured demand deposit accounts.

The Watermaster's Investment Policy and the California Government Code allow the District to invest in a variety of investment types, provided the credit ratings of the issuers are acceptable to the Watermaster Committee. The following also identifies certain provisions of the Watermaster's Investment Policy and California Government Code that address interest rate risk, credit risk, and concentration of credit risk.

<u>Authorized Investment Type</u>	<u>Maximum Maturity</u>	<u>Minimum Credit Quality</u>	<u>Maximum Percentage of Portfolio</u>	<u>Maximum Investment In One Issuer</u>
U.S. Treasury Obligation	5 years	N/A	100%	No Limit
U.S. Agency Securities	5 years	N/A	100%	No Limit
Bankers Acceptances	180 days	N/A	40%	30%
Commercial Paper	270 days	A-I	25%	10%
Negotiable Certificates of Deposit	5 years	N/A	30%	No Limit
Repurchase Agreements	1 year	N/A	100%	No Limit
Reverse Repurchase Agreements	92 days	N/A	20%	No Limit
Demand Deposits	N/A	Highest Category	20%	10%
Medium Term Notes	5 years	A	30%	No Limit
Money Market Mutual Funds	N/A	Highest Category	20%	10%
Asset-Backed Securities	5 years	AA	20%	No Limit
State of California Obligations	5 years	N/A	100%	No Limit
Local Agency Investment Fund	N/A	N/A	\$40 million account	No Limit

Interest Rate Risk, Credit Risk, and Concentration of Credit Risk

Interest rate risk is the risk that changes in market rates will adversely affect the fair value of an investment. Generally, the longer the maturity the more sensitive the investment is to market fluctuations. Credit risk is measured by nationally recognized statistical agencies such as Standard & Poor's. Credit risk is simply the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. Concentration of credit risk measures the extent to which the Watermaster's investments are invested in a single issuer. Since the Watermaster's does not have investments and the cash balances are fully insured, the Watermaster is not exposed to interest rate risk, credit risk, or concentration of credit risk.

See Auditors' Report

Page 6 of 6

BEAUMONT BASIN WATERMASTER
INDEPENDENT ACCOUNTANT'S REPORT ON APPLYING
AGREED-UPON PROCEDURES
ON THE BEAUMONT BASIN WATERMASTER SCHEDULES

OCTOBER 11, 2011



**INDEPENDENT ACCOUNTANTS' REPORT ON APPLYING
AGREED-UPON PROCEDURES**

Yucaipa Valley Water District as treasurer
of the Beaumont Basin Watermaster
Yucaipa, California

We have performed the procedures enumerated below, which were agreed to by the Yucaipa Valley Water District (District), as treasurer of the Beaumont Basin Watermaster (Watermaster), solely to assist the District in evaluating certain amounts reported in the Watermaster Schedules (Schedules), attached as Exhibit A and Exhibit B, on the full accrual basis of accounting. The District and Watermaster is responsible for the accuracy of the Schedules. This agreed-upon procedures engagement was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. The sufficiency of the procedures is solely the responsibility of those parties specified in the report. Consequently, we make no representations regarding the sufficiency of the procedures described below, either for the purpose for which this report has been requested or for any other purpose.

Our procedures and findings are as follows:

1. Procedure

Agree the opening equity on Exhibit B to the ending equity noted on the trial balance for the fiscal year ended June 30, 2010.

Finding

No exceptions were noted as a result of applying the procedure.

2. Procedure

Agree the cash balance reported on Exhibit A to the bank reconciliation, bank statement and trial balance. Select all of the deposits in transit and outstanding checks and trace their clearing to the subsequent month's bank statement.

Finding

No exceptions were noted as a result of applying the procedure.

3. Procedure

Trace all member agency assessments recorded in the schedule to invoices and the bank statements.

Finding

No exceptions were noted as a result of applying the procedure.

4. Procedure

Compare the ending check number for the fiscal year ended June 30, 2010 to the beginning check number for the period beginning on July 1, 2010. Note any breaks in check sequence for the period of July 1, 2010 through June 30, 2011.

Finding

No exceptions were noted as a result of applying the procedure. No breaks in check sequence were noted during the period of July 1, 2010 through June 30, 2011.

5. Procedure

Based on the population of checks issued during July 1, 2010 through June 30, 2011, select all payments and trace the check to supporting invoice noting whether the activity pertains to the Watermaster. Agree the dollar amount and vendor on the invoice to the check for accuracy.

Finding

No exceptions were noted as a result of applying the procedure.

6. Procedure

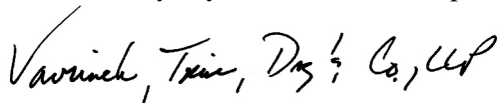
Obtain the general ledger detail for the period of July 1, 2010 to June 30, 2011. Select all journal entries and trace the transaction to an approved journal entry and documentation supporting the nature and rationale of the journal entry.

Finding

No exceptions were noted as a result of applying the procedure.

We were not engaged to, and did not conduct an audit, the objective of which would be the expression of an opinion on the schedules of assets, liabilities and equity (Exhibit A) and assessments and expenses (Exhibit B) or the related internal control structure. Accordingly, we do not express such an opinion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you.

This report is intended solely for the use of the Beaumont Basin Watermaster and the District and is not intended to be and should not be used by anyone other than the specified party.



Rancho Cucamonga, California
October 11, 2011

BEAUMONT BASIN WATERMASTER
SCHEDULE OF ASSETS, LIABILITIES AND NET ASSETS
(UNAUDITED)
JUNE 30, 2011

ASSETS	
Cash and Cash Equivalents	<u>\$ 40,430</u>
LIABILITIES	
Accounts Payable	<u>-</u>
NET ASSETS	
Unrestricted	<u><u>\$ 40,430</u></u>

See Independent Accountant's Agreed Upon Procedures Report.

BEAUMONT BASIN WATERMASTER
SCHEDULE OF ASSESSMENTS AND EXPENSES
(UNAUDITED)
FOR THE FISCAL YEAR ENDED JUNE 30, 2011

REVENUES	
Assessments	\$ 30,000
Interest Revenue	4
	<u>30,004</u>
Total Revenues	
	<u>30,004</u>
EXPENSES	
Administrative Expenses:	
Meetings and Miscellaneous	1,297
Legal and Professional	2,525
Bank Charges and Miscellaneous	411
	<u>4,233</u>
Total Expenses	
	<u>4,233</u>
Change in Net Assets	25,771
NET ASSETS	
Unrestricted Net Assets, Beginning of Year	14,659
	<u>14,659</u>
Unrestricted Net Assets, End of Year	\$ 40,430
	<u>40,430</u>

See Independent Accountant's Agreed Upon Procedures Report.

Appendix B

Active and Interested Party List

**2011 Active &
Interested Party
List**

Duane Burk
City of Banning
Post Office Box 998
Banning, CA 92220

Mr. Joseph Zoba
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Mr. William Wood
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Mr. Dee Moorjani
Urban Logic Consultants
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Mr. Robert Reiter
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Appendix C

Compact Disc: Groundwater Production and Recharge Database

Appendix D

Production Estimation Methods for Unmetered Overlying Producers

Appendix D – Production Estimation Methods for Un-metered Overlying Producers

Introduction

During FY 2005/06, the Watermaster engineer reported that several of the Overlying Producer's wells were not metered or that their meters may not have been working properly. The Watermaster engineer recommended using a water duty method that is routinely used to estimate production in the absence of metered production. Watermaster accepted the water duty method and the subsequent production estimates that were made in FY 2005/06. This appendix details the updated water duty method used to estimate production for the following un-metered Overlying Parties for FY 2003/04 through FY 2010/11:

- Merlin Properties
- Rancho Calimesa Mobile Home Park
- Roman Catholic Bishop of San Bernardino County
- Leonard M. and Dorothy D. Stearns
- Sunny-Cal Egg and Poultry Company
- Albor Properties III, LP
- Nick Nikodinov
- Ronald L. McAmis
- Nicolas and Amalia Aldama
- Hector Gutierrez, Luis Gutierrez, and Sebastian Monroy
- Boris and Miriam Darmont

Water Duty Method

With the water duty method, the groundwater production of a producer is estimated by estimating the water use volume for each of said producer's water use activities. In the Beaumont Basin, Overlying Producers pump water for indoor, outdoor, and agricultural uses. Information about the water use activities of each producer was obtained during field investigations conducted in 2006, 2008, 2011 and through the examination of springtime air photos of the Beaumont Basin from 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, and 2011. The methods used to estimate groundwater pumping for each water use activity is outlined below.

Indoor Water Use

Indoor water use is estimated based on the number of dwelling units (du) on each producer's property.

For a recent study of the impacts of septic system use in the Cherry Valley area, Wildermuth Environmental, Inc. analyzed water sales data in the Beaumont Cherry Valley Water District's service area for the 2000 to 2005 period. In the study, indoor water use for single family dwellings was estimated to be 0.35 acre-ft/du/yr (WEI, 2007).

Accordingly, the indoor water use of each Overlying Producer was calculated by multiplying



the number of dwelling units on each Overlying Producer's property by 0.35 acre-ft. This is an update to the indoor water use component of the water duty method developed in fiscal 2005/06, which applied an indoor water use component of 0.30 acre-ft/du/yr.

Outdoor Water Use

Outdoor water use is estimated based on the acreage of irrigated landscape on each producer's property. The volume of water pumped for irrigation use is estimated using the Crop Water Requirements approach. This approach uses local climate parameters and crop type to determine the amount of water required by a landscape such that:

$$ET_o \times K_c = ET_c$$

Where,

ET_o = Reference Evapotranspiration: A climate specific parameter based on locally measured meteorological data such as wind speed, humidity, and solar radiation. ET_o represents the evapotranspiration of a standardized vegetated surface under localized conditions.

K_c = Crop Coefficient: A coefficient used to convert reference evapotranspiration into an estimate of evapotranspiration, based on the type of crop irrigated.

ET_c = Crop Water Requirement: The amount of water required for irrigating a specific type of crop under known climate conditions.

Reference Evapotranspiration (ET_o) data were obtained from the California Irrigation Management Information System (CIMIS). Monthly ET_o measured at CIMIS Station UC Riverside #44 was used as an approximation of the climate in the Beaumont Basin. Field investigations indicated that all irrigation activity was for standard grass landscapes. To estimate the crop water requirements of these standard grass landscapes, a mid-range crop coefficient ($K_c = 0.70$) for warm season grasses was applied (University of Arizona Cooperative Extension, 2000).

The final factor in determining outdoor water use is irrigation efficiency. It is assumed that the efficiency with which an irrigation system delivers water to a landscape is imperfect (less than 100% efficient). For this analysis, an irrigation efficiency of 70% was applied such that (Department of Water Resources, 2008):

$$\text{Outdoor Water Use} = \frac{ET_c}{0.70}$$

Agricultural Water Use

The only known agricultural water use by un-metered Overlying Producers is for the operations of the former Sunny-Cal Egg and Poultry Company. Water pumped by Sunny-Cal was used for the water consumption of chickens and for washing ranch facilities.

According to the National Research Council Subcommittee on Poultry Nutrition (1994), for hens kept at 21 degrees Celsius, approximately 40 to 80 gallons of water are required per 1,000 birds to meet daily nutritional requirements. For this water duty method, a value in the middle of this range was applied to estimate the daily pumping necessary to meet the nutritional requirements of the chickens at Sunny-Cal. Thus, the volume of water pumped was calculated as follows:



$$\text{Daily Consumptive Water Use} = \frac{\text{Total \# Chickens}}{1,000} \times 60 \text{ gal / day}$$

The volume of water needed to wash the chicken ranch facilities is unknown. Because Sunny-Cal was able to store wash water onsite after use, for this water duty method, it was assumed that the amount of groundwater pumped for washing was equal to the amount of water needed to satisfy the irrigation needs of the property. Accordingly, the groundwater pumped to meet this water use was estimated based on the Crop Water Requirements approach described above.

Applying the Water Duty Method to Un-metered Overlying Producers

To apply the water duty method to each Overlying Producer, it was necessary to obtain the following information about each property:

- Number of dwelling units
- Total area of irrigated land

Initial field investigations were performed in fiscal 2005/06 when the first version of the water duty method was used to estimate the production of Overlying Producers. The information obtained in the FY 2005/06 investigations was verified and/or updated with information obtained from the FY 2010/11 field investigation and through the use of annual springtime aerial photographs from spring 2003 through spring 2011. The aerial photography allowed for an accurate accounting of the number of dwelling units on large properties. The aerial photographs were also used to delineate and calculate the acreage of irrigated land on each property.

A worksheet that details the estimated indoor, outdoor, and agricultural water use of each Overlying Producer is provided in Exhibits D-1 through D-11.

References

- Department of Water Resources. (2008). *Draft White Paper: Evapotranspiration Adjustment Factor*. Available at <http://www.owue.water.ca.gov/docs/etWhitePaper.pdf>
- National Research Council Subcommittee on Poultry Nutrition. (1994). *Nutrient requirements of Poultry*. (9th revised ed.). Washington, D.C.: National Academy Press. Available at www.nap.edu/catalog.php?record_id=2114
- University of Arizona Cooperative Extension. (2000). *Converting Reference Evapotranspiration into Turf Water Use*. Turf Irrigation Management Series No. 2. Retrieved from <http://ag.arizona.edu/pubs/water/az1195.pdf>
- Wildermuth Environmental, Inc. (2007). *Water Quality Impacts from On-Site Waste Disposal Systems in the Cherry Valley Community of Interest*.



Exhibit D1
Estimated Pumping by Merlin Properties -- FY 2003/04 through FY 2010/11

Year	Parcel Size (acres)	Dwelling Units	Indoor Water Use (acre-ft)	Irrigated Area (acres)	Outdoor Water Use (acre-ft)	Total Use (acre-ft)
2003/04	48	3	1.05	0.11	0.53	1.58
2004/05	48	3	1.05	0.11	0.50	1.55
2005/06	48	3	1.05	0.11	0.50	1.55
2006/07	48	3	1.05	0.11	0.55	1.60
2007/08	48	3	1.05	0.11	0.54	1.59
2008/09	48	3	1.05	0.11	0.53	1.58
2009/10	48	3	1.05	0.11	0.52	1.57
2010/11	48	3	1.05	0.11	0.51	1.56
Total			6.30		3.17	9.47

Indoor Water Use **0.35 af/du/year**

Dwelling Units	#DU	Indoor Water Use
FY 2003/04	3	1.05
FY 2004/05	3	1.05
FY 2005/06	3	1.05
FY 2006/07	3	1.05
FY 2007/08	3	1.05
FY 2008/09	3	1.05
FY 2009/10	3	1.05
FY 2010/11	3	1.05

Irrigated Area (Acres)	
FY 2003/04	0.11
FY 2004/05	0.11
FY 2005/06	0.11
FY 2006/07	0.11
FY 2007/08	0.11
FY 2008/09	0.11
FY 2009/10	0.11
FY 2010/11	0.11

Crop Coefficient (Warm Season Bermuda Grass)

Kc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

ET(o)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)
FY 2003/04	7.05	7.46	5.54	4.08	2.23	2.07	2.49	2.76	4.81	5.90	7.10	6.50	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.30	2.02	2.21	3.93	5.41	6.47	6.49	54.85
FY 2005/06	7.28	6.68	5.32	3.65	2.84	2.15	2.92	3.35	3.42	4.26	6.02	7.16	55.05
FY 2006/07	7.74	7.20	5.70	3.95	3.14	2.94	3.28	2.91	5.02	5.04	6.47	7.16	60.55
FY 2007/08	7.57	7.09	5.44	4.34	2.81	2.24	1.69	2.31	5.30	6.04	6.28	7.59	58.70
FY 2008/09	7.53	7.23	5.79	5.02	3.12	1.89	3.32	2.41	4.62	5.58	6.32	5.37	58.20
FY 2009/10	7.60	6.68	5.89	4.40	3.18	2.08	2.35	2.44	4.67	5.11	6.18	6.25	56.83
FY 2010/11	6.57	6.99	5.45	2.10	3.22	1.78	2.91	2.91	4.22	5.57	6.67	6.95	55.34

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.90	5.20	3.90	2.90	1.60	1.40	1.70	1.90	3.40	4.10	5.00	4.60	40.60	0.37
FY 2004/05	5.30	4.80	4.10	2.40	1.70	1.60	1.40	1.50	2.80	3.80	4.50	4.50	38.40	0.35
FY 2005/06	5.10	4.70	3.70	2.60	2.00	1.50	2.00	2.30	2.40	3.00	4.20	5.00	38.50	0.35
FY 2006/07	5.40	5.00	4.00	2.80	2.20	2.10	2.30	2.00	3.50	3.50	4.50	5.00	42.30	0.39
FY 2007/08	5.30	5.00	3.80	3.00	2.00	1.60	1.20	1.60	3.70	4.20	4.40	5.30	41.10	0.38
FY 2008/09	5.30	5.10	4.10	3.50	2.20	1.30	2.30	1.70	3.20	3.90	4.40	3.80	40.80	0.37
FY 2009/10	5.30	4.70	4.10	3.10	2.20	1.50	1.60	1.70	3.30	3.60	4.30	4.40	39.80	0.36
FY 2010/11	4.60	4.90	3.80	1.50	2.30	1.20	2.00	2.00	3.00	3.90	4.70	4.90	38.80	0.36

Irr Efficiency **0.7**

Outdoor Water Use (Acre Feet)	
FY 2003/04	0.53
FY 2004/05	0.50
FY 2005/06	0.50
FY 2006/07	0.55
FY 2007/08	0.54
FY 2008/09	0.53
FY 2009/10	0.52
FY 2010/11	0.51

Exhibit D2
Estimated Pumping by Rancho Calimesa -- FY 2003/04 through FY 2010/11

Year	Parcel Size (acres)	Dwelling Units	Indoor Water Use (acre-ft)	Irrigated Area (acres)	Outdoor Water Use (acre-ft)	Total Use (acre-ft)
2003/04	29	195	68.25	0	0.00	68.25
2004/05	29	195	68.25	0	0.00	68.25
2005/06	29	195	68.25	0	0.00	68.25
2006/07	29	198	69.30	0	0.00	69.30
2007/08	29	198	69.30	0	0.00	69.30
2008/09	29	198	69.30	0	0.00	69.30
2009/10	29	198	69.30	0	0.00	69.30
2010/11	29	198	69.30	0	0.00	69.30
Total			412.65		0.00	412.65

Indoor Water Use **0.35 af/du/year**

Dwelling Units	#DU	Indoor Water Use
FY 2003/04	195	68.25
FY 2004/05	195	68.25
FY 2005/06	195	68.25
FY 2006/07	198	69.3
FY 2007/08	198	69.3
FY 2008/09	198	69.3
FY 2009/10	198	69.3
FY 2010/11	198	69.3

Irrigated Area (Acres)	
FY 2003/04	0
FY 2004/05	0
FY 2005/06	0
FY 2006/07	0
FY 2007/08	0
FY 2008/09	0
FY 2009/10	0
FY 2010/11	0

Crop Coefficient (Warm Season Bermuda Grass)

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Kc	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

ET(o)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)
FY 2003/04	7.05	7.46	5.54	4.08	2.23	2.07	2.49	2.76	4.81	5.90	7.10	6.50	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.30	2.02	2.21	3.93	5.41	6.47	6.49	54.85
FY 2005/06	7.28	6.68	5.32	3.65	2.84	2.15	2.92	3.35	3.42	4.26	6.02	7.16	55.05
FY 2006/07	7.74	7.20	5.70	3.95	3.14	2.94	3.28	2.91	5.02	5.04	6.47	7.16	60.55
FY 2007/08	7.57	7.09	5.44	4.34	2.81	2.24	1.69	2.31	5.30	6.04	6.28	7.59	58.70
FY 2008/09	7.53	7.23	5.79	5.02	3.12	1.89	3.32	2.41	4.62	5.58	6.32	5.37	58.20
FY 2009/10	7.60	6.68	5.89	4.40	3.18	2.08	2.35	2.44	4.67	5.11	6.18	6.25	56.83
FY 2010/11	6.57	6.99	5.45	2.10	3.22	1.78	2.91	2.91	4.22	5.57	6.67	6.95	55.34

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.90	5.20	3.90	2.90	1.60	1.40	1.70	1.90	3.40	4.10	5.00	4.60	40.60	0.00
FY 2004/05	5.30	4.80	4.10	2.40	1.70	1.60	1.40	1.50	2.80	3.80	4.50	4.50	38.40	0.00
FY 2005/06	5.10	4.70	3.70	2.60	2.00	1.50	2.00	2.30	2.40	3.00	4.20	5.00	38.50	0.00
FY 2006/07	5.40	5.00	4.00	2.80	2.20	2.10	2.30	2.00	3.50	3.50	4.50	5.00	42.30	0.00
FY 2007/08	5.30	5.00	3.80	3.00	2.00	1.60	1.20	1.60	3.70	4.20	4.40	5.30	41.10	0.00
FY 2008/09	5.30	5.10	4.10	3.50	2.20	1.30	2.30	1.70	3.20	3.90	4.40	3.80	40.80	0.00
FY 2009/10	5.30	4.70	4.10	3.10	2.20	1.50	1.60	1.70	3.30	3.60	4.30	4.40	39.80	0.00
FY 2010/11	4.60	4.90	3.80	1.50	2.30	1.20	2.00	2.00	3.00	3.90	4.70	4.90	38.80	0.00

Irr Efficiency **0.7**

Outdoor Water Use (Acre Feet)	
FY 2003/04	0.00
FY 2004/05	0.00
FY 2005/06	0.00
FY 2006/07	0.00
FY 2007/08	0.00
FY 2008/09	0.00
FY 2009/10	0.00
FY 2010/11	0.00

Exhibit D3

Estimated Pumping by the Roman Catholic Bishop of San Bernardino – FY 2003/04 through FY 2010/11

Year	Parcel Size (acres)	Dwelling Units	Indoor Water Use (acre-ft)	Irrigated Area (acres)	Outdoor Water Use (acre-ft)	Total Use (acre-ft)
2003/04	34	2	0.70	12.1	58.48	59.18
2004/05	34	2	0.70	12.1	55.31	56.01
2005/06	34	2	0.70	12.1	55.46	56.16
2006/07	34	2	0.70	0	0.00	0.70
2007/08	34	2	0.70	0	0.00	0.70
2008/09	34	2	0.70	0	0.00	0.70
2009/10	34	0	0.00	0	0.00	0.00
2010/11	34	0	0.00	0	0.00	0.00
Total			4.20		169.26	173.46

Indoor Water Use 0.35 af/du/year

Dwelling Units	#DU	Indoor Water Use
FY 2003/04	2	0.7
FY 2004/05	2	0.7
FY 2005/06	2	0.7
FY 2006/07	2	0.7
FY 2007/08	2	0.7
FY 2008/09	2	0.7
FY 2009/10	0	0
FY 2010/11	0	0

Irrigated Area (Acres)	
FY 2003/04	12.1
FY 2004/05	12.1
FY 2005/06	12.1
FY 2006/07	0
FY 2007/08	0
FY 2008/09	0
FY 2009/10	0
FY 2010/11	0

Crop Coefficient (Warm Season Bermuda Grass)

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Kc	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

ET(o)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)
FY 2003/04	7.05	7.46	5.54	4.08	2.23	2.07	2.49	2.76	4.81	5.90	7.10	6.50	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.30	2.02	2.21	3.93	5.41	6.47	6.49	54.85
FY 2005/06	7.28	6.68	5.32	3.65	2.84	2.15	2.92	3.35	3.42	4.26	6.02	7.16	55.05
FY 2006/07	7.74	7.20	5.70	3.95	3.14	2.94	3.28	2.91	5.02	5.04	6.47	7.16	60.55
FY 2007/08	7.57	7.09	5.44	4.34	2.81	2.24	1.69	2.31	5.30	6.04	6.28	7.59	58.70
FY 2008/09	7.53	7.23	5.79	5.02	3.12	1.89	3.32	2.41	4.62	5.58	6.32	5.37	58.20
FY 2009/10	7.60	6.68	5.89	4.40	3.18	2.08	2.35	2.44	4.67	5.11	6.18	6.25	56.83
FY 2010/11	6.57	6.99	5.45	2.10	3.22	1.78	2.91	2.91	4.22	5.57	6.67	6.95	55.34

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.90	5.20	3.90	2.90	1.60	1.40	1.70	1.90	3.40	4.10	5.00	4.60	40.60	40.94
FY 2004/05	5.30	4.80	4.10	2.40	1.70	1.60	1.40	1.50	2.80	3.80	4.50	4.50	38.40	38.72
FY 2005/06	5.10	4.70	3.70	2.60	2.00	1.50	2.00	2.30	2.40	3.00	4.20	5.00	38.50	38.82
FY 2006/07	5.40	5.00	4.00	2.80	2.20	2.10	2.30	2.00	3.50	3.50	4.50	5.00	42.30	0.00
FY 2007/08	5.30	5.00	3.80	3.00	2.00	1.60	1.20	1.60	3.70	4.20	4.40	5.30	41.10	0.00
FY 2008/09	5.30	5.10	4.10	3.50	2.20	1.30	2.30	1.70	3.20	3.90	4.40	3.80	40.80	0.00
FY 2009/10	5.30	4.70	4.10	3.10	2.20	1.50	1.60	1.70	3.30	3.60	4.30	4.40	39.80	0.00
FY 2010/11	4.60	4.90	3.80	1.50	2.30	1.20	2.00	2.00	3.00	3.90	4.70	4.90	38.80	0.00

Irr Efficiency 0.7

Outdoor Water Use (Acre Feet)	
FY 2003/04	58.48
FY 2004/05	55.31
FY 2005/06	55.46
FY 2006/07	0.00
FY 2007/08	0.00
FY 2008/09	0.00
FY 2009/10	0.00
FY 2010/11	0.00

Exhibit D4
Estimated Pumping by Leonard Stearns -- FY 2003/04 through FY 2010/11

Year	Parcel Size (acres)	Dwelling Units	Indoor Water Use (acre-ft)	Irrigated Area (acres)	Outdoor Water Use (acre-ft)	Total Use (acre-ft)
2003/04	91	3	1.05	0	0.00	1.05
2004/05	91	3	1.05	0	0.00	1.05
2005/06	91	3	1.05	0	0.00	1.05
2006/07	91	3	1.05	0	0.00	1.05
2007/08	91	3	1.05	0	0.00	1.05
2008/09	91	3	1.05	0	0.00	1.05
2009/10	91	2	0.70	0	0.00	0.70
2010/11	91	2	0.70	0	0.00	0.70
Total			6.30		0.00	6.30

Indoor Water Use **0.35 af/du/year**

Dwelling Units	#DU	Indoor Water Use
FY 2003/04	3	1.05
FY 2004/05	3	1.05
FY 2005/06	3	1.05
FY 2006/07	3	1.05
FY 2007/08	3	1.05
FY 2008/09	3	1.05
FY 2009/10	2	0.7
FY 2010/11	2	0.7

Irrigated Area (Acres)	
FY 2003/04	0
FY 2004/05	0
FY 2005/06	0
FY 2006/07	0
FY 2007/08	0
FY 2008/09	0
FY 2009/10	0
FY 2010/11	0

Crop Coefficient (Warm Season Bermuda Grass)

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Kc	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

ET(o)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)
FY 2003/04	7.05	7.46	5.54	4.08	2.23	2.07	2.49	2.76	4.81	5.90	7.10	6.50	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.30	2.02	2.21	3.93	5.41	6.47	6.49	54.85
FY 2005/06	7.28	6.68	5.32	3.65	2.84	2.15	2.92	3.35	3.42	4.26	6.02	7.16	55.05
FY 2006/07	7.74	7.20	5.70	3.95	3.14	2.94	3.28	2.91	5.02	5.04	6.47	7.16	60.55
FY 2007/08	7.57	7.09	5.44	4.34	2.81	2.24	1.69	2.31	5.30	6.04	6.28	7.59	58.70
FY 2008/09	7.53	7.23	5.79	5.02	3.12	1.89	3.32	2.41	4.62	5.58	6.32	5.37	58.20
FY 2009/10	7.60	6.68	5.89	4.40	3.18	2.08	2.35	2.44	4.67	5.11	6.18	6.25	56.83
FY 2010/11	6.57	6.99	5.45	2.10	3.22	1.78	2.91	2.91	4.22	5.57	6.67	6.95	55.34

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.90	5.20	3.90	2.90	1.60	1.40	1.70	1.90	3.40	4.10	5.00	4.60	40.60	0.00
FY 2004/05	5.30	4.80	4.10	2.40	1.70	1.60	1.40	1.50	2.80	3.80	4.50	4.50	38.40	0.00
FY 2005/06	5.10	4.70	3.70	2.60	2.00	1.50	2.00	2.30	2.40	3.00	4.20	5.00	38.50	0.00
FY 2006/07	5.40	5.00	4.00	2.80	2.20	2.10	2.30	2.00	3.50	3.50	4.50	5.00	42.30	0.00
FY 2007/08	5.30	5.00	3.80	3.00	2.00	1.60	1.20	1.60	3.70	4.20	4.40	5.30	41.10	0.00
FY 2008/09	5.30	5.10	4.10	3.50	2.20	1.30	2.30	1.70	3.20	3.90	4.40	3.80	40.80	0.00
FY 2009/10	5.30	4.70	4.10	3.10	2.20	1.50	1.60	1.70	3.30	3.60	4.30	4.40	39.80	0.00
FY 2010/11	4.60	4.90	3.80	1.50	2.30	1.20	2.00	2.00	3.00	3.90	4.70	4.90	38.80	0.00

Irr Efficiency **0.7**

Outdoor Water Use (Acre Feet)	
FY 2003/04	0.00
FY 2004/05	0.00
FY 2005/06	0.00
FY 2006/07	0.00
FY 2007/08	0.00
FY 2008/09	0.00
FY 2009/10	0.00
FY 2010/11	0.00

Exhibit D5
Estimated Pumping by Sunny Cal -- FY 2003/04 through FY 2010/11

Year	Parcel Size (acres)	Dwelling Units	Indoor Water Use (acre-ft)	Number of Chickens	Chicken Water Use (acre-ft)	Irrigated Area (acres)	Outdoor Water Use (acre-ft)	Total Use (acre-ft)
2003/04	200	10	3.50	1,200,000	81	66.40	320.9	405.03
2004/05	200	10	3.50	1,200,000	81	66.40	303.5	387.64
2005/06	185	2	0.70	0	0	0.40	1.83	2.53
2006/07	185	2	0.70	0	0	0.40	2.01	2.71
2007/08	185	2	0.70	0	0	0.70	1.96	2.66
2008/09	185	2	0.70	0	0	0.70	1.94	2.64
2009/10	185	2	0.70	0	0	0.70	1.90	2.60
2010/11	185	2	0.70	0	0	0.70	1.85	2.55
Total			9.80		161.20	171.00	630	800.6

Indoor Water Use **0.35 af/du/year**

Dwelling Units	#DU	Indoor Water Use
FY 2003/04	10	3.5
FY 2004/05	10	3.5
FY 2005/06	2	0.7
FY 2006/07	2	0.7
FY 2007/08	2	0.7
FY 2008/09	2	0.7
FY 2009/10	2	0.7
FY 2010/11	2	0.7

Irrigated Area (Acres)	
FY 2003/04	66.4
FY 2004/05	66.4
FY 2005/06	0.4
FY 2006/07	0.4
FY 2007/08	0.4
FY 2008/09	0.4
FY 2009/10	0.4
FY 2010/11	0.4

Chicken Water use **6 gal/100 chickens**

Chicken Water Use	Chickens	Water Use
FY 2003/04	1200000	80.6
FY 2004/05	1200000	80.6
FY 2005/06	0	0
FY 2006/07	0	0
FY 2007/08	0	0
FY 2008/09	0	0
FY 2009/10	0	0
FY 2010/11	0	0

Crop Coefficient (Warm Season Bermuda Grass)

Kc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

ET(o)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)
FY 2003/04	7.05	7.46	5.54	4.08	2.23	2.07	2.49	2.76	4.81	5.90	7.10	6.50	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.30	2.02	2.21	3.93	5.41	6.47	6.49	54.85
FY 2005/06	7.28	6.68	5.32	3.65	2.84	2.15	2.92	3.35	3.42	4.26	6.02	7.16	55.05
FY 2006/07	7.74	7.20	5.70	3.95	3.14	2.94	3.28	2.91	5.02	5.04	6.47	7.16	60.55
FY 2007/08	7.57	7.09	5.44	4.34	2.81	2.24	1.69	2.31	5.30	6.04	6.28	7.59	58.70
FY 2008/09	7.53	7.23	5.79	5.02	3.12	1.89	3.32	2.41	4.62	5.58	6.32	5.37	58.20
FY 2009/10	7.60	6.68	5.89	4.40	3.18	2.08	2.35	2.44	4.67	5.11	6.18	6.25	56.83
FY 2010/11	6.57	6.99	5.45	2.10	3.22	1.78	2.91	2.91	4.22	5.57	6.67	6.95	55.34

Etc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.90	5.20	3.90	2.90	1.60	1.40	1.70	1.90	3.40	4.10	5.00	4.60	40.60	224.65
FY 2004/05	5.30	4.80	4.10	2.40	1.70	1.60	1.40	1.50	2.80	3.80	4.50	4.50	38.40	212.48
FY 2005/06	5.10	4.70	3.70	2.60	2.00	1.50	2.00	2.30	2.40	3.00	4.20	5.00	38.50	1.28
FY 2006/07	5.40	5.00	4.00	2.80	2.20	2.10	2.30	2.00	3.50	3.50	4.50	5.00	42.30	1.41
FY 2007/08	5.30	5.00	3.80	3.00	2.00	1.60	1.20	1.60	3.70	4.20	4.40	5.30	41.10	1.37
FY 2008/09	5.30	5.10	4.10	3.50	2.20	1.30	2.30	1.70	3.20	3.90	4.40	3.80	40.80	1.36
FY 2009/10	5.30	4.70	4.10	3.10	2.20	1.50	1.60	1.70	3.30	3.60	4.30	4.40	39.80	1.33
FY 2010/11	4.60	4.90	3.80	1.50	2.30	1.20	2.00	2.00	3.00	3.90	4.70	4.90	38.80	1.29

Irr Efficiency **0.7**

Outdoor Water Use (Acre Feet)	Irrigation Requirement
FY 2003/04	320.93
FY 2004/05	303.54
FY 2005/06	1.83
FY 2006/07	2.01
FY 2007/08	1.96
FY 2008/09	1.94
FY 2009/10	1.90
FY 2010/11	1.85

Exhibit D6
Estimated Pumping by Albor Properties -- FY 2003/04 through FY 2010/11

Year	Parcel Size (acres)	Dwelling Units	Indoor Water Use (acre-ft)	Irrigated Area (acres)	Outdoor Water Use (acre-ft)	Total Use (acre-ft)
2003/04	0	0	0.00	0	0.00	0.00
2004/05	0	0	0.00	0	0.00	0.00
2005/06	122	2	0.70	2.6	11.92	12.62
2006/07	122	1	0.35	0.4	2.01	2.36
2007/08	122	1	0.35	0.4	1.96	2.31
2008/09	122	1	0.35	0.4	1.94	2.29
2009/10	122	1	0.35	0.4	1.90	2.25
2010/11	122	1	0.35	0.4	1.85	2.20
Total			1.75		17.83	19.58

Indoor Water Use **0.35 af/du/year**

Dwelling Units	#DU	Indoor Water Use
FY 2003/04	0	0
FY 2004/05	0	0
FY 2005/06	2	0.7
FY 2006/07	1	0.35
FY 2007/08	1	0.35
FY 2008/09	1	0.35
FY 2009/10	1	0.35
FY 2010/11	1	0.35

Irrigated Area (Acres)	
FY 2003/04	0
FY 2004/05	0
FY 2005/06	2.6
FY 2006/07	0.4
FY 2007/08	0.4
FY 2008/09	0.4
FY 2009/10	0.4
FY 2010/11	0.4

Crop Coefficient (Warm Season Bermuda Grass)

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Kc	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

ET(o)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)
FY 2003/04	7.05	7.46	5.54	4.08	2.23	2.07	2.49	2.76	4.81	5.90	7.10	6.50	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.30	2.02	2.21	3.93	5.41	6.47	6.49	54.85
FY 2005/06	7.28	6.68	5.32	3.65	2.84	2.15	2.92	3.35	3.42	4.26	6.02	7.16	55.05
FY 2006/07	7.74	7.20	5.70	3.95	3.14	2.94	3.28	2.91	5.02	5.04	6.47	7.16	60.55
FY 2007/08	7.57	7.09	5.44	4.34	2.81	2.24	1.69	2.31	5.30	6.04	6.28	7.59	58.70
FY 2008/09	7.53	7.23	5.79	5.02	3.12	1.89	3.32	2.41	4.62	5.58	6.32	5.37	58.20
FY 2009/10	7.60	6.68	5.89	4.40	3.18	2.08	2.35	2.44	4.67	5.11	6.18	6.25	56.83
FY 2010/11	6.57	6.99	5.45	2.10	3.22	1.78	2.91	2.91	4.22	5.57	6.67	6.95	55.34

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.90	5.20	3.90	2.90	1.60	1.40	1.70	1.90	3.40	4.10	5.00	4.60	40.60	0.00
FY 2004/05	5.30	4.80	4.10	2.40	1.70	1.60	1.40	1.50	2.80	3.80	4.50	4.50	38.40	0.00
FY 2005/06	5.10	4.70	3.70	2.60	2.00	1.50	2.00	2.30	2.40	3.00	4.20	5.00	38.50	8.34
FY 2006/07	5.40	5.00	4.00	2.80	2.20	2.10	2.30	2.00	3.50	3.50	4.50	5.00	42.30	1.41
FY 2007/08	5.30	5.00	3.80	3.00	2.00	1.60	1.20	1.60	3.70	4.20	4.40	5.30	41.10	1.37
FY 2008/09	5.30	5.10	4.10	3.50	2.20	1.30	2.30	1.70	3.20	3.90	4.40	3.80	40.80	1.36
FY 2009/10	5.30	4.70	4.10	3.10	2.20	1.50	1.60	1.70	3.30	3.60	4.30	4.40	39.80	1.33
FY 2010/11	4.60	4.90	3.80	1.50	2.30	1.20	2.00	2.00	3.00	3.90	4.70	4.90	38.80	1.29

Irr Efficiency **0.7**

Outdoor Water Use (Acre Feet)	
FY 2003/04	0.00
FY 2004/05	0.00
FY 2005/06	11.92
FY 2006/07	2.01
FY 2007/08	1.96
FY 2008/09	1.94
FY 2009/10	1.90
FY 2010/11	1.85

Exhibit D7
Estimated Pumping by Nikodinov -- FY 2003/04 through FY 2010/11

Year	Parcel Size (acres)	Dwelling Units	Indoor Water Use (acre-ft)	Irrigated Area (acres)	Outdoor Water Use (acre-ft)	Total Use (acre-ft)
2003/04	0	0	0.00	0	0	0.00
2004/05	0	0	0.00	0	0	0.00
2005/06	10	1	0.35	0.08	0.37	0.72
2006/07	10	1	0.35	0.08	0.40	0.75
2007/08	10	1	0.35	0.08	0.39	0.74
2008/09	10	1	0.35	0.08	0.39	0.74
2009/10	10	1	0.35	0.08	0.38	0.73
2010/11	10	1	0.35	0.08	0.37	0.72
Total			1.40		1.55	2.95

Indoor Water Use **0.35 af/du/year**

Dwelling Units	#DU	Indoor Water Use
FY 2003/04	0	0
FY 2004/05	0	0
FY 2005/06	1	0.35
FY 2006/07	1	0.35
FY 2007/08	1	0.35
FY 2008/09	1	0.35
FY 2009/10	1	0.35
FY 2010/11	1	0.35

Irrigated Area (Acres)	
FY 2003/04	0
FY 2004/05	0
FY 2005/06	0.08
FY 2006/07	0.08
FY 2007/08	0.08
FY 2008/09	0.08
FY 2009/10	0.08
FY 2010/11	0.08

Crop Coefficient (Warm Season Bermuda Grass)

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Kc	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

ET(o)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)
FY 2003/04	7.05	7.46	5.54	4.08	2.23	2.07	2.49	2.76	4.81	5.90	7.10	6.50	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.30	2.02	2.21	3.93	5.41	6.47	6.49	54.85
FY 2005/06	7.28	6.68	5.32	3.65	2.84	2.15	2.92	3.35	3.42	4.26	6.02	7.16	55.05
FY 2006/07	7.74	7.20	5.70	3.95	3.14	2.94	3.28	2.91	5.02	5.04	6.47	7.16	60.55
FY 2007/08	7.57	7.09	5.44	4.34	2.81	2.24	1.69	2.31	5.30	6.04	6.28	7.59	58.70
FY 2008/09	7.53	7.23	5.79	5.02	3.12	1.89	3.32	2.41	4.62	5.58	6.32	5.37	58.20
FY 2009/10	7.60	6.68	5.89	4.40	3.18	2.08	2.35	2.44	4.67	5.11	6.18	6.25	56.83
FY 2010/11	6.57	6.99	5.45	2.10	3.22	1.78	2.91	2.91	4.22	5.57	6.67	6.95	55.34

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.90	5.20	3.90	2.90	1.60	1.40	1.70	1.90	3.40	4.10	5.00	4.60	40.60	0.00
FY 2004/05	5.30	4.80	4.10	2.40	1.70	1.60	1.40	1.50	2.80	3.80	4.50	4.50	38.40	0.00
FY 2005/06	5.10	4.70	3.70	2.60	2.00	1.50	2.00	2.30	2.40	3.00	4.20	5.00	38.50	0.26
FY 2006/07	5.40	5.00	4.00	2.80	2.20	2.10	2.30	2.00	3.50	3.50	4.50	5.00	42.30	0.28
FY 2007/08	5.30	5.00	3.80	3.00	2.00	1.60	1.20	1.60	3.70	4.20	4.40	5.30	41.10	0.27
FY 2008/09	5.30	5.10	4.10	3.50	2.20	1.30	2.30	1.70	3.20	3.90	4.40	3.80	40.80	0.27
FY 2009/10	5.30	4.70	4.10	3.10	2.20	1.50	1.60	1.70	3.30	3.60	4.30	4.40	39.80	0.27
FY 2010/11	4.60	4.90	3.80	1.50	2.30	1.20	2.00	2.00	3.00	3.90	4.70	4.90	38.80	0.26

Irr Efficiency **0.7**

Outdoor Water Use (Acre Feet)	
FY 2003/04	0.00
FY 2004/05	0.00
FY 2005/06	0.37
FY 2006/07	0.40
FY 2007/08	0.39
FY 2008/09	0.39
FY 2009/10	0.38
FY 2010/11	0.37

Exhibit D8
Estimated Pumping by McAmis -- FY 2003/04 through FY 2010/11

Year	Parcel Size (acres)	Dwelling Units	Indoor Water Use (acre-ft)	Irrigated Area (acres)	Outdoor Water Use (acre-ft)	Total Use (acre-ft)
2003/04	0	0	0.00	0	0	0.00
2004/05	0	0	0.00	0	0	0.00
2005/06	0.9	1	0.35	0.04	0.18	0.53
2006/07	0.9	1	0.35	0.04	0.20	0.55
2007/08	0.9	1	0.35	0.04	0.20	0.55
2008/09	0.9	1	0.35	0.04	0.19	0.54
2009/10	0.9	1	0.35	0.04	0.19	0.54
2010/11	0.9	1	0.35	0.04	0.18	0.53
Total			1.40		0.77	2.17

Indoor Water Use **0.35 af/du/year**

Dwelling Units	#DU	Indoor Water Use
FY 2003/04	0	0
FY 2004/05	0	0
FY 2005/06	1	0.35
FY 2006/07	1	0.35
FY 2007/08	1	0.35
FY 2008/09	1	0.35
FY 2009/10	1	0.35
FY 2010/11	1	0.35

Irrigated Area (Acres)	
FY 2003/04	0
FY 2004/05	0
FY 2005/06	0.04
FY 2006/07	0.04
FY 2007/08	0.04
FY 2008/09	0.04
FY 2009/10	0.04
FY 2010/11	0.04

Crop Coefficient (Warm Season Bermuda Grass)

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Kc	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

ET(o)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)
FY 2003/04	7.05	7.46	5.54	4.08	2.23	2.07	2.49	2.76	4.81	5.90	7.10	6.50	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.30	2.02	2.21	3.93	5.41	6.47	6.49	54.85
FY 2005/06	7.28	6.68	5.32	3.65	2.84	2.15	2.92	3.35	3.42	4.26	6.02	7.16	55.05
FY 2006/07	7.74	7.20	5.70	3.95	3.14	2.94	3.28	2.91	5.02	5.04	6.47	7.16	60.55
FY 2007/08	7.57	7.09	5.44	4.34	2.81	2.24	1.69	2.31	5.30	6.04	6.28	7.59	58.70
FY 2008/09	7.53	7.23	5.79	5.02	3.12	1.89	3.32	2.41	4.62	5.58	6.32	5.37	58.20
FY 2009/10	7.60	6.68	5.89	4.40	3.18	2.08	2.35	2.44	4.67	5.11	6.18	6.25	56.83
FY 2010/11	6.57	6.99	5.45	2.10	3.22	1.78	2.91	2.91	4.22	5.57	6.67	6.95	55.34

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.90	5.20	3.90	2.90	1.60	1.40	1.70	1.90	3.40	4.10	5.00	4.60	40.60	0.00
FY 2004/05	5.30	4.80	4.10	2.40	1.70	1.60	1.40	1.50	2.80	3.80	4.50	4.50	38.40	0.00
FY 2005/06	5.10	4.70	3.70	2.60	2.00	1.50	2.00	2.30	2.40	3.00	4.20	5.00	38.50	0.13
FY 2006/07	5.40	5.00	4.00	2.80	2.20	2.10	2.30	2.00	3.50	3.50	4.50	5.00	42.30	0.14
FY 2007/08	5.30	5.00	3.80	3.00	2.00	1.60	1.20	1.60	3.70	4.20	4.40	5.30	41.10	0.14
FY 2008/09	5.30	5.10	4.10	3.50	2.20	1.30	2.30	1.70	3.20	3.90	4.40	3.80	40.80	0.14
FY 2009/10	5.30	4.70	4.10	3.10	2.20	1.50	1.60	1.70	3.30	3.60	4.30	4.40	39.80	0.13
FY 2010/11	4.60	4.90	3.80	1.50	2.30	1.20	2.00	2.00	3.00	3.90	4.70	4.90	38.80	0.13

Irr Efficiency **0.7**

Outdoor Water Use (Acre Feet)	
FY 2003/04	0.00
FY 2004/05	0.00
FY 2005/06	0.18
FY 2006/07	0.20
FY 2007/08	0.20
FY 2008/09	0.19
FY 2009/10	0.19
FY 2010/11	0.18

Exhibit D9
Estimated Pumping by Aldama -- FY 2003/04 through FY 2010/11

Year	Parcel Size (acres)	Dwelling Units	Indoor Water Use (acre-ft)	Irrigated Area (acres)	Outdoor Water Use (acre-ft)	Total Use (acre-ft)
2003/04	0	0	0.00	0	0	0.00
2004/05	0	0	0.00	0	0	0.00
2005/06	1.4	1	0.35	0.1	0.46	0.81
2006/07	1.4	1	0.35	0.1	0.50	0.85
2007/08	1.4	1	0.35	0.1	0.49	0.84
2008/09	1.4	1	0.35	0.1	0.49	0.84
2009/10	1.4	1	0.35	0.1	0.47	0.82
2010/11	1.4	1	0.35	0.1	0.46	0.81
Total			1.40		1.94	3.34

Indoor Water Use **0.35 at/du/year**

Dwelling Units	#DU	Indoor Water Use
FY 2003/04	0	0
FY 2004/05	0	0
FY 2005/06	1	0.35
FY 2006/07	1	0.35
FY 2007/08	1	0.35
FY 2008/09	1	0.35
FY 2009/10	1	0.35
FY 2010/11	1	0.35

Irrigated Area (Acres)	
FY 2003/04	0
FY 2004/05	0
FY 2005/06	0.1
FY 2006/07	0.1
FY 2007/08	0.1
FY 2008/09	0.1
FY 2009/10	0.1
FY 2010/11	0.1

Crop Coefficient (Warm Season Bermuda Grass)

Kc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

ET(o)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)
FY 2003/04	7.05	7.46	5.54	4.08	2.23	2.07	2.49	2.76	4.81	5.90	7.10	6.50	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.30	2.02	2.21	3.93	5.41	6.47	6.49	54.85
FY 2005/06	7.28	6.68	5.32	3.65	2.84	2.15	2.92	3.35	3.42	4.26	6.02	7.16	55.05
FY 2006/07	7.74	7.20	5.70	3.95	3.14	2.94	3.28	2.91	5.02	5.04	6.47	7.16	60.55
FY 2007/08	7.57	7.09	5.44	4.34	2.81	2.24	1.69	2.31	5.30	6.04	6.28	7.59	58.70
FY 2008/09	7.53	7.23	5.79	5.02	3.12	1.89	3.32	2.41	4.62	5.58	6.32	5.37	58.20
FY 2009/10	7.60	6.68	5.89	4.40	3.18	2.08	2.35	2.44	4.67	5.11	6.18	6.25	56.83
FY 2010/11	6.57	6.99	5.45	2.10	3.22	1.78	2.91	2.91	4.22	5.57	6.67	6.95	55.34

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.90	5.20	3.90	2.90	1.60	1.40	1.70	1.90	3.40	4.10	5.00	4.60	40.60	0.00
FY 2004/05	5.30	4.80	4.10	2.40	1.70	1.60	1.40	1.50	2.80	3.80	4.50	4.50	38.40	0.00
FY 2005/06	5.10	4.70	3.70	2.60	2.00	1.50	2.00	2.30	2.40	3.00	4.20	5.00	38.50	0.32
FY 2006/07	5.40	5.00	4.00	2.80	2.20	2.10	2.30	2.00	3.50	3.50	4.50	5.00	42.30	0.35
FY 2007/08	5.30	5.00	3.80	3.00	2.00	1.60	1.20	1.60	3.70	4.20	4.40	5.30	41.10	0.34
FY 2008/09	5.30	5.10	4.10	3.50	2.20	1.30	2.30	1.70	3.20	3.90	4.40	3.80	40.80	0.34
FY 2009/10	5.30	4.70	4.10	3.10	2.20	1.50	1.60	1.70	3.30	3.60	4.30	4.40	39.80	0.33
FY 2010/11	4.60	4.90	3.80	1.50	2.30	1.20	2.00	2.00	3.00	3.90	4.70	4.90	38.80	0.32

Irr Efficiency **0.7**

Outdoor Water Use (Acre Feet)	
FY 2003/04	0.00
FY 2004/05	0.00
FY 2005/06	0.46
FY 2006/07	0.50
FY 2007/08	0.49
FY 2008/09	0.49
FY 2009/10	0.47
FY 2010/11	0.46

Exhibit D10
Estimated Pumping by Gutierrez -- FY 2003/04 through FY 2010/11

Year	Parcel Size (acres)	Dwelling Units	Indoor Water Use (acre-ft)	Irrigated Area (acres)	Outdoor Water Use (acre-ft)	Total Use (acre-ft)
2003/04	0	0	0.00	0	0	0.00
2004/05	0	0	0.00	0	0	0.00
2005/06	2	2	0.70	0.14	0.64	1.34
2006/07	2	2	0.70	0.14	0.71	1.41
2007/08	2	2	0.70	0.14	0.69	1.39
2008/09	2	2	0.70	0.14	0.68	1.38
2009/10	2	2	0.70	0.14	0.66	1.36
2010/11	2	2	0.70	0.14	0.65	1.35
Total			2.80		2.71	5.51

Indoor Water Use **0.35 af/du/year**

Dwelling Units	#DU	Indoor Water Use
FY 2003/04	0	0
FY 2004/05	0	0
FY 2005/06	2	0.7
FY 2006/07	2	0.7
FY 2007/08	2	0.7
FY 2008/09	2	0.7
FY 2009/10	2	0.7
FY 2010/11	2	0.7

Irrigated Area (Acres)	
FY 2003/04	0
FY 2004/05	0
FY 2005/06	0.14
FY 2006/07	0.14
FY 2007/08	0.14
FY 2008/09	0.14
FY 2009/10	0.14
FY 2010/11	0.14

Crop Coefficient (Warm Season Bermuda Grass)

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Kc	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

ET(o)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)
FY 2003/04	7.05	7.46	5.54	4.08	2.23	2.07	2.49	2.76	4.81	5.90	7.10	6.50	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.30	2.02	2.21	3.93	5.41	6.47	6.49	54.85
FY 2005/06	7.28	6.68	5.32	3.65	2.84	2.15	2.92	3.35	3.42	4.26	6.02	7.16	55.05
FY 2006/07	7.74	7.20	5.70	3.95	3.14	2.94	3.28	2.91	5.02	5.04	6.47	7.16	60.55
FY 2007/08	7.57	7.09	5.44	4.34	2.81	2.24	1.69	2.31	5.30	6.04	6.28	7.59	58.70
FY 2008/09	7.53	7.23	5.79	5.02	3.12	1.89	3.32	2.41	4.62	5.58	6.32	5.37	58.20
FY 2009/10	7.60	6.68	5.89	4.40	3.18	2.08	2.35	2.44	4.67	5.11	6.18	6.25	56.83
FY 2010/11	6.57	6.99	5.45	2.10	3.22	1.78	2.91	2.91	4.22	5.57	6.67	6.95	55.34

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.90	5.20	3.90	2.90	1.60	1.40	1.70	1.90	3.40	4.10	5.00	4.60	40.60	0.00
FY 2004/05	5.30	4.80	4.10	2.40	1.70	1.60	1.40	1.50	2.80	3.80	4.50	4.50	38.40	0.00
FY 2005/06	5.10	4.70	3.70	2.60	2.00	1.50	2.00	2.30	2.40	3.00	4.20	5.00	38.50	0.45
FY 2006/07	5.40	5.00	4.00	2.80	2.20	2.10	2.30	2.00	3.50	3.50	4.50	5.00	42.30	0.49
FY 2007/08	5.30	5.00	3.80	3.00	2.00	1.60	1.20	1.60	3.70	4.20	4.40	5.30	41.10	0.48
FY 2008/09	5.30	5.10	4.10	3.50	2.20	1.30	2.30	1.70	3.20	3.90	4.40	3.80	40.80	0.48
FY 2009/10	5.30	4.70	4.10	3.10	2.20	1.50	1.60	1.70	3.30	3.60	4.30	4.40	39.80	0.46
FY 2010/11	4.60	4.90	3.80	1.50	2.30	1.20	2.00	2.00	3.00	3.90	4.70	4.90	38.80	0.45

Irr Efficiency **0.7**

Outdoor Water Use (Acre Feet)	
FY 2003/04	0.00
FY 2004/05	0.00
FY 2005/06	0.64
FY 2006/07	0.71
FY 2007/08	0.69
FY 2008/09	0.68
FY 2009/10	0.66
FY 2010/11	0.65

Exhibit D11
Estimated Pumping by Darmont -- FY 2003/04 through FY 2010/11

Year	Parcel Size (acres)	Dwelling Units	Indoor Water Use (acre-ft)	Irrigated Area (acres)	Outdoor Water Use (acre-ft)	Total Use (acre-ft)
2003/04	0	0	0.00	0	0	0.00
2004/05	0	0	0.00	0	0	0.00
2005/06	0.5	1	0.35	0	0.00	0.35
2006/07	0.5	1	0.35	0	0.00	0.35
2007/08	0.5	1	0.35	0	0.00	0.35
2008/09	0.5	1	0.35	0	0.00	0.35
2009/10	0.5	1	0.35	0	0.00	0.35
2010/11	0.5	1	0.35	0	0.00	0.35
Total			1.40		0.00	1.40

Indoor Water Use 0.35 af/du/year

Dwelling Units	#DU	Indoor Water Use
FY 2003/04	0	0
FY 2004/05	0	0
FY 2005/06	1	0.35
FY 2006/07	1	0.35
FY 2007/08	1	0.35
FY 2008/09	1	0.35
FY 2009/10	1	0.35
FY 2010/11	1	0.35

Irrigated Area (Acres)	
FY 2003/04	0
FY 2004/05	0
FY 2005/06	0
FY 2006/07	0
FY 2007/08	0
FY 2008/09	0
FY 2009/10	0
FY 2010/11	0

Crop Coefficient (Warm Season Bermuda Grass)

Kc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

ET(o)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)
FY 2003/04	7.05	7.46	5.54	4.08	2.23	2.07	2.49	2.76	4.81	5.90	7.10	6.50	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.30	2.02	2.21	3.93	5.41	6.47	6.49	54.85
FY 2005/06	7.28	6.68	5.32	3.65	2.84	2.15	2.92	3.35	3.42	4.26	6.02	7.16	55.05
FY 2006/07	7.74	7.20	5.70	3.95	3.14	2.94	3.28	2.91	5.02	5.04	6.47	7.16	60.55
FY 2007/08	7.57	7.09	5.44	4.34	2.81	2.24	1.69	2.31	5.30	6.04	6.28	7.59	58.70
FY 2008/09	7.53	7.23	5.79	5.02	3.12	1.89	3.32	2.41	4.62	5.58	6.32	5.37	58.20
FY 2009/10	7.60	6.68	5.89	4.40	3.18	2.08	2.35	2.44	4.67	5.11	6.18	6.25	56.83
FY 2010/11	6.57	6.99	5.45	2.10	3.22	1.78	2.91	2.91	4.22	5.57	6.67	6.95	55.34

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.90	5.20	3.90	2.90	1.60	1.40	1.70	1.90	3.40	4.10	5.00	4.60	40.60	0.00
FY 2004/05	5.30	4.80	4.10	2.40	1.70	1.60	1.40	1.50	2.80	3.80	4.50	4.50	38.40	0.00
FY 2005/06	5.10	4.70	3.70	2.60	2.00	1.50	2.00	2.30	2.40	3.00	4.20	5.00	38.50	0.00
FY 2006/07	5.40	5.00	4.00	2.80	2.20	2.10	2.30	2.00	3.50	3.50	4.50	5.00	42.30	0.00
FY 2007/08	5.30	5.00	3.80	3.00	2.00	1.60	1.20	1.60	3.70	4.20	4.40	5.30	41.10	0.00
FY 2008/09	5.30	5.10	4.10	3.50	2.20	1.30	2.30	1.70	3.20	3.90	4.40	3.80	40.80	0.00
FY 2009/10	5.30	4.70	4.10	3.10	2.20	1.50	1.60	1.70	3.30	3.60	4.30	4.40	39.80	0.00
FY 2010/11	4.60	4.90	3.80	1.50	2.30	1.20	2.00	2.00	3.00	3.90	4.70	4.90	38.80	0.00

Irr Efficiency 0.7

Outdoor Water Use (Acre Feet)	
FY 2003/04	0.00
FY 2004/05	0.00
FY 2005/06	0.00
FY 2006/07	0.00
FY 2007/08	0.00
FY 2008/09	0.00
FY 2009/10	0.00
FY 2010/11	0.00