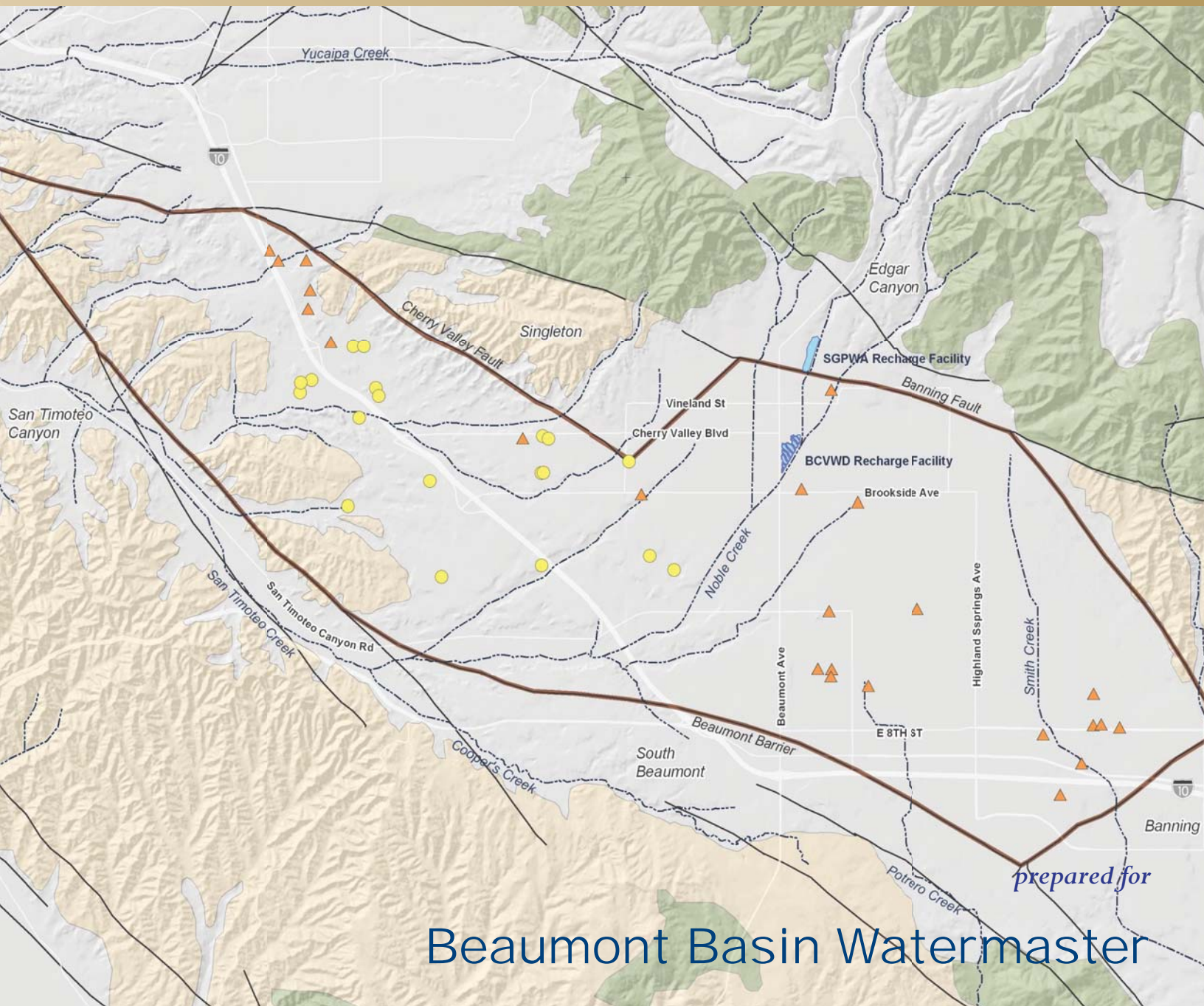


Sixth Annual Report of the Beaumont Basin Watermaster



April 2010



WILDERMUTH™
ENVIRONMENTAL INC.

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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
IRWMP	Integrated Regional Water Management Program
Pass Agency	San Geronio 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

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), which encompasses approximately 26 square miles and has a safe yield of approximately 8,650 acre-feet (acre-ft), a total storage capacity of over a million acre-ft, and up to 200,000 acre-ft of storage capacity available for conjunctive use. 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 entities: the City of Banning (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 the 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

The 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, and by satisfying the requirements of water users that have rights in the Basin or that are dependent upon the Basin. The specific responsibilities of the Watermaster are summarized below.

Administer the Beaumont Basin Judgment. The 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 the Watermaster accounts for the water resources of the Basin. To fund its operations, the Watermaster collects both administrative and replenishment assessments from the Parties to the Judgment.

Maintain and Improve Water Supply. The Watermaster determines the amount of groundwater that each producer is entitled to pump annually without incurring a replenishment obligation. As needed, the Watermaster facilitates the acquisition and storage of replenishment water. In this reporting period, Watermaster was involved in discussions to acquire additional water supplies with numerous regional water management and state water contractors, including the San Geronio Pass Water Agency (Pass Agency).

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

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 Department of Water Resources or the Pass Agency, and programs for the direct and/or indirect use of recycled water.

Monitor and Understand the Basin. The 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 the 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, 2009). Additionally, the Watermaster has a program to install integrated data loggers (transducers) in wells throughout the Basin. These transducers record groundwater levels every fifteen minutes. All water level and water quality data are compiled in a relational database that is used to assess Basin conditions. The Watermaster also conducts a triennial ground surface survey



to determine if land subsidence is occurring in the Basin. Each year, production and recharge data are compiled into an annual report of Watermaster activities. An engineering report on the state of the Basin's water resources, including changes in groundwater elevation, storage, and quality, is produced biennially.

Maintain and Improve Water Quality. The Watermaster coordinates and participates in local efforts to preserve and restore 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. The Watermaster supports the Maximum Benefit Monitoring efforts of Beaumont and utilizes the results of these efforts when reporting regional water quality conditions to the Parties in its Biennial Engineer's Report.

Provide Cooperative Leadership. The 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, the 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 Mission Statement

The 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

The Watermaster continued to administer and implement the Judgment during its sixth year of operation. Watermaster activities are discussed in more detail below by subject matter.

2.1 Watermaster Committee Representatives

The Committee Representatives, who are all employees or consultants of their nominating agencies, are 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 Watermaster Committee in fiscal 2008/09:

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, 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.

2.2 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. The 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 A. 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.

2.3 Watermaster Meetings

The Watermaster meets quarterly to transact Watermaster business. In addition to the formal Watermaster Committee meetings, informal workshops and joint managers' meetings of the STWMA, STWMA Project Committee No. 1, and the Watermaster were held in fiscal



2008/09. Meetings of the Watermaster Committee were held on the following dates:

September 9, 2008
January 13, 2009
January 28, 2009
February 11, 2009
April 28, 2009
May 26, 2009
June 23, 2009

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

2.4 Annual Administrative Budget, Assessments and Expenditures

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. In fiscal 2008/09, the YVWD continued to serve as the Watermaster Treasurer. A copy of the fiscal 2008/09 *Auditor's Report and Financial Statements* of the Watermaster has been included with this annual report as Appendix B. This year end report contains an itemized list of the Watermaster's budget, assessments, and expenditures for fiscal 2008/09.

2.5 Resolutions

The Watermaster adopted the following resolution during fiscal 2008/09

- Resolution 2009-001, entitled *A Resolution of the Beaumont Basin Watermaster Establishing a Public Records Act Policy*

By passing 2009-001, the previous public records act policy—Resolution 2008-001—was repealed. A copy of the adopted resolution has been included with this report as Appendix C.

2.6 Rules and Regulations

The original Rules and Regulations of the Watermaster were adopted on June 8, 2004. The rules were adopted with an understanding that modifications would be considered as necessary. On September 9, 2009, the 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 unused Overlying production to the Appropriator Parties. 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 unused water will be reallocated based on each Appropriator's



percent 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. The percentage share of safe yield allocated to each Appropriator Party is shown below.

Appropriator Party	Share of Unused Safe Yield
Banning	31.43 %
BCVWD	42.51 %
Beaumont	0 %
SMWC	12.48 %
YVWD	13.58 %

Under Rule & Regulation 7.8, the unused Overlying production will be allocated according to the following schedule:

Available Unused Overlying Production in Fiscal	Will be Allocated to the Appropriator Parties in Fiscal
2003/04	2008/09
2004/05	2009/10
2005/06	2010/11
2006/07	2011/12
2007/08	2012/13
2008/09	2013/14
2009/10	2014/15
2010/11	2015/16
2011/12	2016/17
2012/13	2017/18

The first allocation of unused Overlying water occurred in fiscal 2008/09 and is discussed further in Section 3.3 of this report.

2.7 Wells and Standards

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.



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, water transfer, and water storage activities of the Parties to the Judgment. The following sections detail the accounting of these activities for fiscal 2008/09.

3.1 Production

Watermaster is responsible for the tracking and accounting the groundwater production of 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 Production

There are five Appropriative producers participating in the Judgment: 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 said 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 per year, and was split among the Appropriators in accordance with their respective percentage shares of the unused safe yield (see Section 2.6).

Table 1 shows total 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 fiscal 2008/09. Note that pursuant to the Judgment (Part I, Paragraph 3B) and a separate agreement on file with the Watermaster, the BCVWD continued to pump water for Banning during fiscal 2008/09. The amount of water pumped and delivered to Banning is also accounted for in Table 1. During fiscal 2008/09, the Appropriators pumped a total of 13,635 acre-ft of water,



which accounts for about 83 percent of the total production from the Basin. All metered groundwater production data for fiscal 2003/04 through 2008/09 is contained in an Access database that has been included with this report as Appendix D.

3.1.2 Overlying 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 fiscal 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 each Overlying Party's production based on the type of use (indoor, outdoor, and industrial). Watermaster accepted the water duty method and the subsequent production estimates made in fiscal 2005/06, subject to the receipt of more accurate information from the affected Overlying Producers.

As of July 1, 2009, only 6 of the 17 Overlying Parties to the Judgment metered and reported their monthly or annual groundwater production. During fiscal 2007/08, an updated water duty method, developed by the Watermaster Engineer, was used to estimate production for Overlying Producers with un-metered wells. This method was also used to estimate production for each un-metered Overlying Producer in fiscal 2008/09. A detailed description of the water duty method has been included with this report as Appendix E.

Table 2 shows a summary of annual production, the share of operating safe yield, and the amount of unused water for each Overlying Producer for fiscal 2008/09. During the reporting period, Overlying Producers pumped an estimated 2,908 acre-ft of water. This accounts for about 17 percent of the total production from the Basin. All metered groundwater production data for fiscal 2003/04 through 2008/09 is contained in an Access database that has been included with this report as Appendix D.

3.1.3 Six-Year Production Summary

Table 3 shows the annual production summary for each Party since fiscal 2003/04. During the six years since the adjudication of the Basin, a total of 100,701 acre-ft of water has been pumped. Of this, 80,498 acre-ft was pumped by Appropriators, and 20,203 acre-ft was pumped by Overlying Producers. The minimum production during the six-year period was 14,064 acre-ft in fiscal 2004/05, and the maximum production was 19,405 acre-ft in fiscal 2007/08. The average production across all six years is 16,784 acre-ft.



3.2 Allocation of Unused Overlying Water

Table 4 summarizes unused Overlying water rights for fiscal 2003/04 through fiscal 2008/09. Table 5 shows the allocation of unused Overlying water to each Appropriator Party per their percentage share of the unused safe yield and the schedule of allocation outlined in Rule and Regulation 7.8 (refer to Section 2.6). In fiscal 2008/09, a total of 4,471 acre-ft of un-produced Overlying water rights from fiscal 2003/04 was allocated to the storage accounts of the Appropriator Parties. The 5,742 acre-ft of un-produced Overlying water rights during this reporting period will be allocated to the Appropriator Parties in fiscal 2013/14.

3.3 Recharge

Pursuant to Section 5 of the Watermaster Rules and Regulations, all groundwater recharge activities in the Basin shall be subject to the approval of the Watermaster. Currently, there are two facilities in operation that recharge supplemental water to the Basin: (1) the Little San Geronio Creek Spreading Ponds, operated by the Pass Agency and located on the northwest corner of Orchard Street and Avenida Miravilla; and (2) the BCVWD's Noble Creek facility, located east of Beaumont Avenue between Brookside Avenue and Cherry Valley Boulevard. The recharge facilities are shown in Figure 1. Both facilities are used to recharge State Water Project (SWP) water imported by the Pass Agency. The Pass Agency began recharging in August 2003 and the BCVWD began recharging in September 2006. At this time, the Pass Agency does not have a storage account with the Watermaster.

During fiscal 2008/09, three agencies recharged SWP water into the Basin: the BCVWD, the Pass Agency, and Banning. The BCVWD recharged 2,965 acre-ft at the Noble Creek facility, the Pass Agency recharged 923 acre-ft at the Little San Geronio Creek facility, and Banning recharged 1,200 acre-ft at BCVWD's Noble Creek facility. Table 6 summarizes the annual groundwater recharge in the Basin since fiscal 2003/04. Daily groundwater recharge data for fiscal 2003/04 through 2008/09 is contained in an Access database that has been included with this report as Appendix D.

Although the City of Beaumont continues to recharge local waters to the Basin, no demonstrations of the amount of said recharge were provided to the Watermaster during fiscal 2008/09. In fiscal 2009/10, the Watermaster may develop rules and regulations regarding the methods required to quantify and credit new local water recharge and new returns from use. Both of these recharge components are included as water supply sources in the Appropriators' Urban Water Management Plans and in the Watermaster's annual report of water demands and supplies.

3.4 Water Transfers

Pursuant to Section 7.3 of the Watermaster Rules and Regulations, any Appropriator may transfer all or any portion of its Production Right or Operating Yield that is surplus to its needs to another Appropriator. On January 8, 2008, the SMWC and the BCVWD entered into a long-term water transfer agreement that allows the BCVWD the option to purchase from the SMWC all or any portion of water that is not pumped or designated for storage, termed as



“available water.” This agreement is effective through February 4, 2014. During fiscal 2008/09, the BCVWD purchased 2,000 acre-ft of available water from the SMWC. The purchase agreement is on file with the Watermaster.

3.5 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.

The first applications and agreements to store unused Appropriator production rights were approved in fiscal 2005/06. During that year, Watermaster approved applications and agreements to store unused rights from the first two years of operations for Banning, the BCVWD, the SMWC, and the YVWD. Beaumont obtained a storage account with the Watermaster in fiscal 2007/08. To date, the total amount of storage authorized by Watermaster is 157,000 acre-ft.

Table 7 is a reconciliation of each Appropriator’s storage account from fiscal 2003/04 through fiscal 2008/09. The groundwater pumping, supplemental water recharge, local water recharge, allocation of unused Overlying water rights, and transfer activities discussed in the preceding sections of this report are included in the storage accounting contained in Table 7. At the beginning of fiscal 2008/09, the total volume of water in all storage accounts was 22,847 acre-ft. As of July 1, 2009, the volume of water in all storage accounts was 33,848 acre-ft. No Appropriator or Overlying Party incurred a replenishment obligation in fiscal 2008/09.

3.6 Change in Groundwater Levels in the Beaumont Basin

Figure 2 shows the change in groundwater levels observed at 11 wells in the Basin since the Beaumont Basin physical solution was implemented. Figure 3 shows the locations of these wells. During the six years since the adjudication, groundwater levels declined an average of about 22 feet across the Basin. Water level declines in the western end of the Basin averaged about 16 feet, while declines in the eastern end averaged about 31 feet. The greatest groundwater level decline was observed at BCVWD Well 02; since fall 2003, water levels at BCVWD Well 02 have declined by about 60 feet.



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). *Maximum Benefit Monitoring Program 2008 Annual Report*.



Table 1
Appropriator Producer Production Summary for Fiscal Year 2008/09
(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	26.6	63.5	64.9	54.1	4.4	0.4	0.5	0.7	0.7	1.0	24.2	18.7	259.7		
Well C3	36.6	2.7	4.0	50.3	63.3	10.4	30.6	4.0	31.1	69.1	106.3	73.5	481.8		
Well C4	148.6	160.2	150.1	43.0	0.4	0.6	1.0	1.1	1.0	1.2	1.5	41.0	549.7		
Well M3	35.2	12.8	3.0	39.4	1.3	0.3	0.3	0.9	1.0	0.9	90.4	32.4	217.8		
Well M9	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		
Production from BCVWD ²	69.2	72.2	65.9	63.0	59.0	61.0	24.2	0.0	0.0	0.0	0.0	61.6	476.1		
Subtotal	316.2	311.3	287.9	249.7	128.4	72.8	56.6	6.6	33.8	72.1	222.5	227.2	1,985.1	5,029	3,043.9
Beaumont-Cherry Valley Water District															
Well 1	123.3	80.8	113.9	95.1	98.9	61.1	49.5	46.6	66.1	98.8	73.5	93.1	1,000.6		
Well 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		
Well 3	94.3	177.8	156.9	133.2	136.0	78.3	57.9	53.6	71.8	111.6	81.4	112.9	1,265.7		
Well 16	78.5	80.4	58.2	15.2	2.6	4.2	4.7	1.8	7.5	21.8	1.9	27.9	304.8		
Well 21	287.5	266.5	221.9	177.9	196.9	97.4	127.4	90.1	76.5	112.1	158.6	191.6	2,004.4		
Well 22	128.2	119.0	111.7	94.2	113.4	64.4	40.9	6.9	25.8	48.7	16.5	0.0	769.7		
Well 23	415.0	367.0	305.2	224.4	141.5	103.0	149.6	63.9	142.1	246.8	182.6	87.3	2,428.3		
Well 24	241.4	243.3	226.2	195.8	70.1	62.8	137.3	105.8	119.9	152.2	176.5	174.6	1,905.9		
Well 25	0.0	0.0	0.0	41.0	76.7	9.9	0.0	0.0	0.0	11.8	90.1	199.9	429.4		
Well 26	0.0	0.0	143.1	139.5	138.2	75.1	20.2	3.6	53.2	68.6	130.1	127.8	899.4		
Well 29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	89.0	89.5	179.7		
Production for Banning ²	-69.2	-72.2	-65.9	-63.0	-59.0	-61.0	-24.2	0.0	0.0	0.0	0.0	-61.6	-476.1		
Subtotal	1,298.9	1,262.7	1,271.3	1,053.2	915.2	495.2	563.3	373.5	562.9	872.4	1,000.1	1,043.0	10,711.8	6,802	0.0
South Mesa Water Company															
3rd No. 4 Well	56.0	58.7	49.7	38.8	26.0	13.6	9.7	11.3	34.8	51.8	40.6	19.8	410.9		
Subtotal	56.0	58.7	49.7	38.8	26.0	13.6	9.7	11.3	34.8	51.8	40.6	19.8	410.9	1,996	1,585.1
Yucaipa Valley Water District															
Well 35	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4		
Well 48	126.8	59.7	57.7	60.0	26.9	16.9	42.6	1.3	3.1	18.5	68.3	43.0	524.7		
Subtotal	129.2	59.7	57.7	60.0	26.9	16.9	42.6	1.3	3.1	18.5	68.3	43.0	527.1	2,173	1,645.9
Total	1,800	1,692	1,667	1,402	1,097	599	672	393	635	1,015	1,331	1,333	13,635	16,000	6,275

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 2
Overlying Producer Production Summary for Fiscal Year 2008/09
(acre-ft)

Well Name	Metered	Water Production by Overlying Producers ¹												Total Production ²	Overlying Water Right	Unused Overlying Allocation in 08/09 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	1.9	1.7	1.7	0.9	1.3	0.4	0.7	0.3	0.3	1.3	1.3	1.4	13.2	75.0	61.8	375.0	69.0
California Oak Valley Golf and Resort LLC																		
Oak Valley #1	Yes	117.5	68.4	77.0	31.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	293.9				
Oak Valley #2 ⁴	Yes	0.2	30.3	27.0	58.8	54.5	12.7	32.5	25.7	27.5	86.1	77.0	66.3	498.6				
Subtotal		117.7	98.7	104.0	89.9	54.5	12.7	32.5	25.7	27.5	86.1	77.0	66.3	792.5	950.0	157.5	4,750.0	3,812.4
Merlin Properties	No													1.6	550.0	548.4	2,750.0	8.0
Oak Valley Partners, LP ⁵																		
Singleton Ranch #5	No													300.0				
Singleton Ranch #7	Yes	0.06	0.04	0.03	0.06	0.05	0.05	0.01	0.02	0.03	0.02	0.04	0.10	0.5				
Irrigation Stokes	No													10.0				
Subtotal														310.5	1,806.0	1,495.5	9,030.0	1,809.1
Plantation on the Lake LLC	Yes	38.7	43.5	40.78	34.89	32.07	22.8	15.51	17.41	13.52	26.58	37.84	34.79	358.4	581.0	222.6	2,905.0	1,702.4
Rancho Calimesa Mobile Home Park	No													69.3	150.0	80.7	750.0	344.5
Roman Catholic Bishop of San Bernardino	No													0.7	154.0	153.3	770.0	114.3
Sharondale Mesa Owners Association																		
Well No.1	Yes	12.59	12.16	17.59	9.61	7.9	4.62	4.46	2.73	5.04	6.76	7.75	7.73	98.9				
Well No.2	Yes	14.4	10.29	15.03	7.94	7.41	4.32	4.11	2.77	4.81	6.21	6.84	6.81	90.9				
Subtotal		27.0	22.5	32.6	17.6	15.3	8.9	8.6	5.5	9.9	13.0	14.6	14.5	189.9	200.0	10.1	1,000.0	904.3
East Valley Golf Club ⁶																		
Well A	Yes	2.0	0.6	0.4	0.4	1.0	0.0	2.0	19.0	3.0	9.0	16.0	8.0	61.4				
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	220.2	181.6	59.3	85.3	117.0	70.0	18.0	49.0	15.0	81.0	90.0	114.0	1,100.5				
Subtotal		222.1	182.3	59.8	85.7	118.0	70.0	20.0	68.0	18.0	90.0	106.0	122.0	1,161.9	2,200.0	1,038.1	11,000.0	6,822.1
Stearns, Leonard M. and Dorothy D.	No													1.1	200.0	198.9	1,000.0	5.5
Sunny-Cal Egg and Poultry Company	No													2.6	1,439.5	1,436.9	7,197.5	398.1
Albor Properties III, LP ⁷	No													2.3	300.0	297.7	1,500.0	19.6
Nikodinov, Nick	No													0.7	20.0	19.3	100.0	2.9
McAmis, Ronald L.	No													0.5	5.0	4.5	25.0	2.2
Aldama, Nicolas and Amalia	No													0.8	7.0	6.3	35.0	3.2
Gutierrez, Hector and Luis and Sebastian Monroy	No													1.4	10.0	8.6	50.0	5.5
Darmont, Boris and Miriam	No													0.4	2.5	2.2	12.5	1.4
Total														2,907.6	8,650.0	5,742.4	43,250.0	16,024.3

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 08/09 will be distributed to the Appropriators' storage accounts in fiscal 2013/14, 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 for the Singleton Ranch #5 and the Irrigation Stokes wells are estimated by Oak Valley Partners.
6 -- Formerly the Southern California Section of the PGA of America
7 -- Formerly Sunny Cal North - Manheim, Manheim & Berman

Table 3
Production Summary for all Beaumont Basin Parties
Fiscal Years 2003/04 through 2008/09
(acre-ft)

	Annual Production						Total Production
	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	
Appropriator Parties							
Banning, City of	3,951.2	2,420.3	1,767.8	2,046.1	3,524.4	1,985.1	15,694.9
Beaumont-Cherry Valley Water District	6,204.3	6,386.0	7,624.9	10,455.5	11,429.5	10,711.8	52,812.0
South Mesa Water Company	419.8	558.0	632.4	691.4	576.9	410.9	3,289.5
Yucaipa Valley Water District	2,005.1	1,284.5	1,529.7	2,308.7	1,046.6	527.1	8,701.6
Subtotal	12,580.4	10,648.8	11,554.8	15,501.7	16,577.4	13,634.8	80,498.0
Overlying Parties							
Beckman, Walter M. ¹	22.0	21.3	14.2	9.3	11.1	13.2	91.0
California Oak Valley Golf and Resort LLC	1,227.4	635.0	839.0	767.9	778.0	792.5	5,039.8
Merlin Properties ²	1.6	1.6	1.6	1.6	1.6	1.6	9.6
Oak Valley Partners, LP	502.7	399.8	475.7	311.2	311.8	310.5	2,311.8
Plantation on the Lake LLC	321.4	312.7	326.8	372.2	332.3	358.4	2,023.8
Rancho Calimesa Mobile Home Park ²	68.3	68.3	68.3	69.3	69.3	69.3	412.8
Roman Catholic Bishop of San Bernardino ²	59.2	56.0	56.2	0.7	0.7	0.7	173.5
Sharondale Mesa Owners Association	169.1	162.8	185.8	194.8	171.0	189.9	1,073.5
East Valley Golf Club ³	1,401.0	1,369.0	1,385.0	1,764.1	1,142.1	1,161.9	8,223.1
Stearns, Leonard M. and Dorothy D. ²	1.1	1.1	1.1	1.1	1.1	1.1	6.6
Sunny-Cal Egg and Poultry Company ²	405.0	387.6	2.5	2.7	2.7	2.6	803.1
Albor Properties III, LP ^{2,4}	--	--	12.6	2.4	2.3	2.3	19.6
Nikodinov, Nick ²	--	--	0.7	0.8	0.7	0.7	2.9
McAmis, Ronald L. ²	--	--	0.5	0.6	0.6	0.5	2.2
Aldama, Nicolas and Amalia ²	--	--	0.8	0.9	0.8	0.8	3.2
Gutierrez, Hector, Luis Gutierrez and Sebastian Monroy ²	--	--	1.3	1.4	1.4	1.4	5.5
Darmont, Boris and Miriam ²	--	--	0.4	0.4	0.4	0.4	1.4
Subtotal	4,178.9	3,415.2	3,372.3	3,501.3	2,827.9	2,907.6	20,203.1
Total	16,759.3	14,064.0	14,927.2	19,002.9	19,405.3	16,542.5	100,701.1

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

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

Table 4
Summary of Unused Overlying Water
Fiscal Years 2003/04 through 2008/09
(acre-ft)

Watermaster Accounting Year	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
Annual Overlying Water Right	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
Unused Overlying Water Right	4,471	5,235	5,278	5,149	5,822	5,742

Table 5
Allocation of Unused Overlying Water
Fiscal Years 2008/09 through 2013/14
(acre-ft)

Appropriator Party	Share of Safe Yield	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14
Banning, City of	31.43%	1,405	1,645	1,659	1,618	1,830	1,805
Beaumont, City of	0.00%	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
South Mesa Water Company	12.48%	558	653	659	643	727	717
Yucaipa Valley Water District	13.58%	607	711	717	699	791	780
Total	100.00%	4,471	5,235	5,278	5,149	5,822	5,742

Table 6
Annual Supplemental Recharge to the Beaumont Basin
Fiscal Years 2003/04 through 2008/09

Year	Artificial Recharge (acre-ft)			
	Banning ¹	BCVWD ¹	Pass Agency ²	Total
2003/04	0	0	557	557
2004/05	0	0	517	517
2005/06	0	0	1,074	1,074
2006/07	0	6,462	556	7,018
2007/08	0	3,248	562	3,810
2008/09	1,200	2,965	923	5,088
Totals	1,200	12,674	4,190	18,064

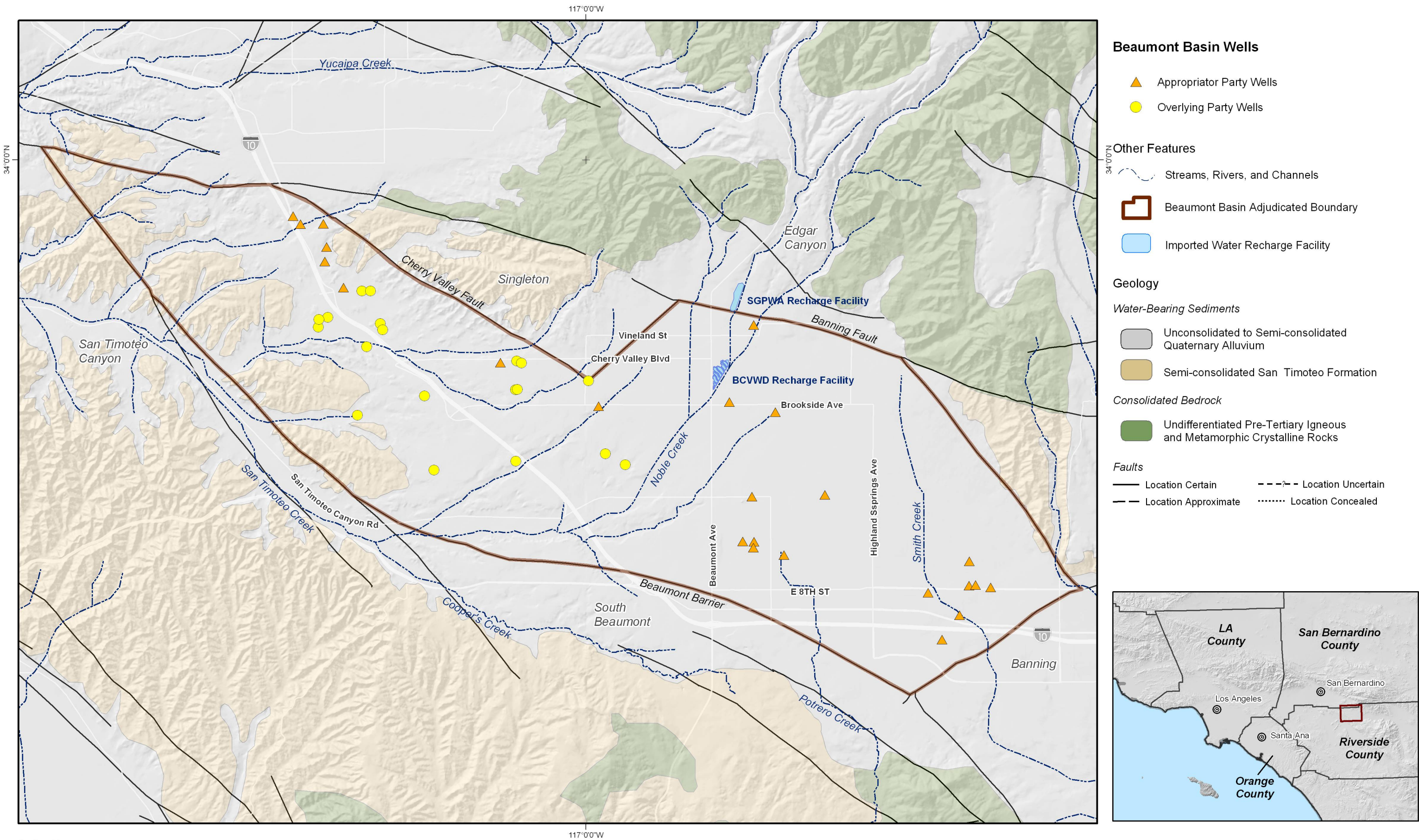
1--SWP water recharged in the BCVWD Noble Creek Recharge Facility

2--SWP water recharged in the Pass Agency's Little San Gorgonio Creek Spreading Ponds

Table 7
Reconciliation of Appropriator Production and Storage Accounts -- Fiscal Years 2003/04 through 2008/09
(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, 2009
				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	598	598	
2004/05	598	6,802	6,386	416	0	0	0	0	0	416	1,014	
2005/06	1,014	6,802	7,625	-823	0	0	0	0	0	-823	191	
2006/07 ²	191	6,802	10,455	-3,653	0	1,500	6,462	0	0	4,308	4,499	
2007/08 ³	4,499	6,802	11,429	-4,627	0	2,500	3,248	0	0	1,120	5,620	
2008/09 ³	5,620	6,802	10,712	-3,910	1,901	2,000	2,965	0	0	2,955	8,575	70,000
City of Banning												
2003/04	0	5,029	3,951	1,078	0	0	0	0	0	1,078	1,078	
2004/05	1,078	5,029	2,420	2,609	0	0	0	0	0	2,609	3,686	
2005/06	3,686	5,029	1,768	3,261	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	4,483	11,431	
2007/08	11,431	5,029	3,524	1,505	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	5,649	18,584	40,000
City of Beaumont												
2003/04	0	0	0	0	0	0	0	0	0	0	0	
2004/05	0	0	0	0	0	0	0	0	0	0	0	
2005/06	0	0	0	0	0	0	0	0	0	0	0	
2006/07	0	0	0	0	0	0	0	0	0	0	0	
2007/08	0	0	0	0	0	0	0	0	0	0	0	
2008/09	0	0	0	0	0	0	0	0	0	0	0	22,000
South Mesa Water Company												
2003/04	0	1,996	420	1,576	0	0	0	0	0	1,576	1,576	
2004/05	1,576	1,996	558	1,438	0	0	0	0	0	1,438	3,014	
2005/06	3,014	1,996	632	1,364	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	-1,695	2,682	
2007/08 ³	2,682	1,996	577	1,419	0	-2,500	0	0	0	-1,081	1,601	
2008/09 ³	1,601	1,996	411	1,585	558	-2,000	0	0	0	143	1,745	20,000
Yucaipa Valley Water District												
2003/04	0	2,173	2,005	168	0	0	0	0	0	168	168	
2004/05	168	2,173	1,284	889	0	0	0	0	0	889	1,056	
2005/06	1,056	2,173	1,530	643	0	0	0	0	0	643	1,700	
2006/07	1,700	2,173	2,309	-136	0	0	0	0	0	-136	1,564	
2007/08	1,564	2,173	1,047	1,126	0	0	0	0	0	1,126	2,691	
2008/09	2,691	2,173	527	1,646	607	0	0	0	0	2,253	4,944	5,000
Totals												
2003/04	0	16,000	12,580	3,420	0	0	0	0	0	3,420	3,420	
2004/05	3,420	16,000	10,649	5,351	0	0	0	0	0	5,351	8,771	
2005/06	8,771	16,000	11,555	4,445	0	0	0	0	0	4,445	13,216	
2006/07	13,216	16,000	15,502	498	0	0	6,462	0	0	6,960	20,176	
2007/08	20,176	16,000	16,577	-577	0	0	3,248	0	0	2,671	22,847	
2008/09	22,847	16,000	13,635	2,365	4,471	0	4,165	0	0	11,001	33,847	157,000

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.



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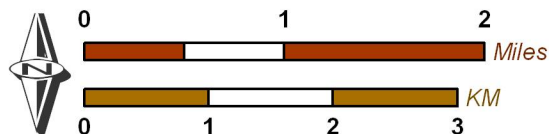


23692 Birtcher Drive
Lake Forest, California 92630
949.420.3030
www.wildermuthenvironmental.com

Author: SSA

Date: 20100105

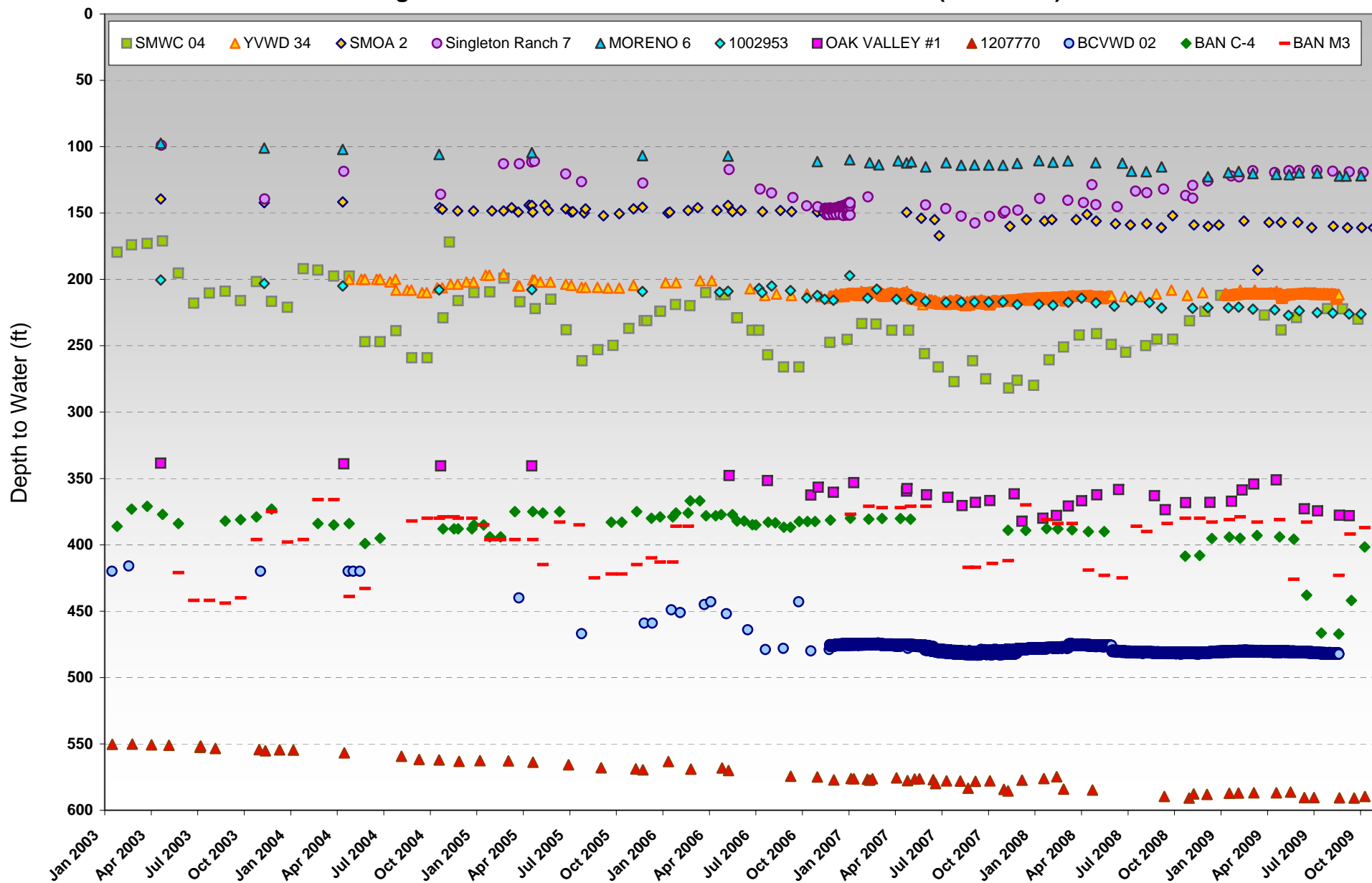
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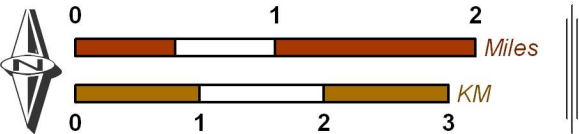
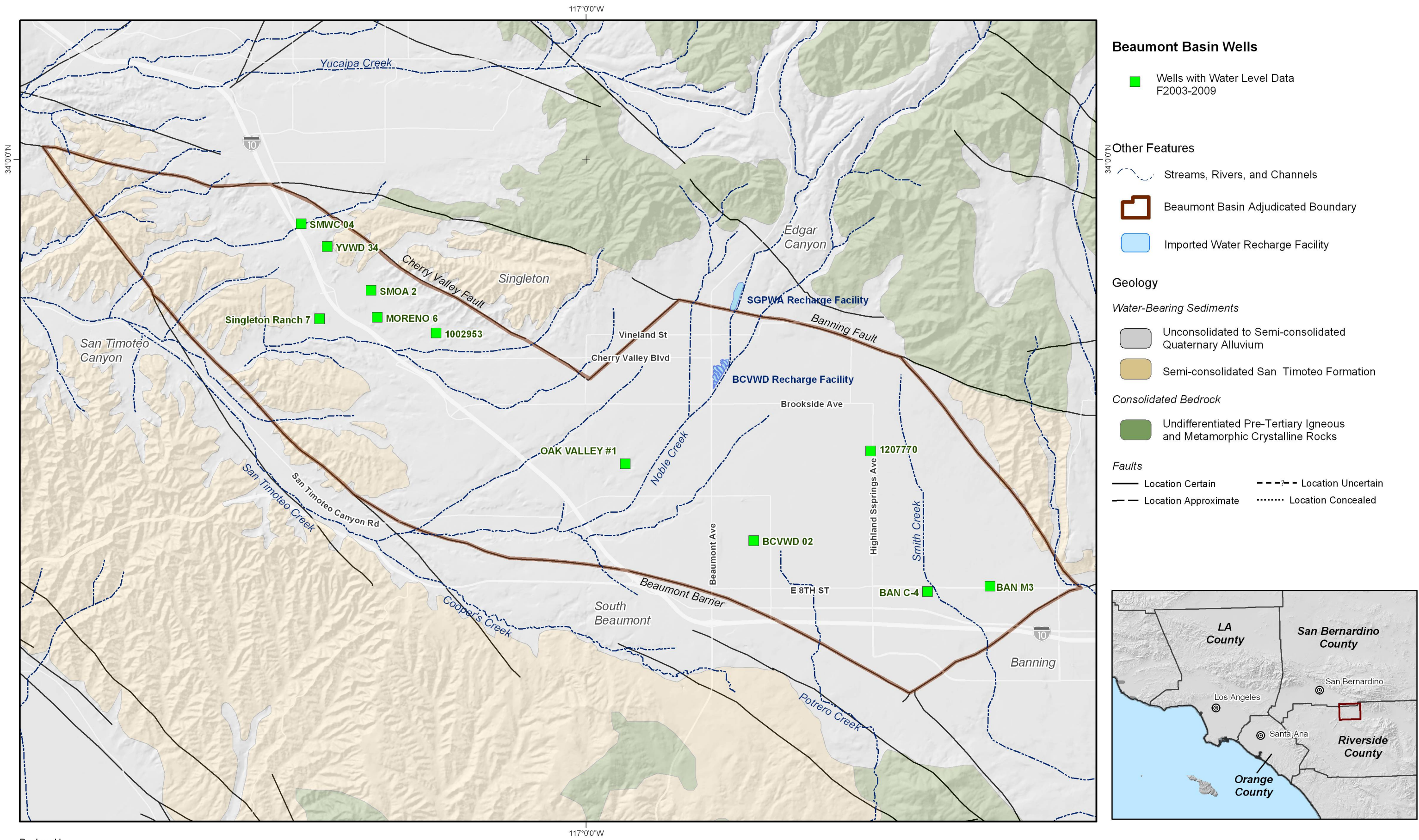


Beaumont Basin Watermaster
Sixth Annual Report -- FY 2008/09

Figure 1

Figure 2
Change in Groundwater Levels in the Beaumont Basin (2003-2009)





Locations of Wells used for the
Water Level Change Analysis

Figure 3

Appendix A

Active and Interested Party List

<p style="text-align: center;">Active & Interested Party List</p>
--

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

Mr. Joseph Zoba
General Manager
Yucaipa Valley Water District
Post Office Box 730
Yucaipa, CA 92399

Mr. George Jorritsma,
General Manager
South Mesa Mutual Water Company
Post Office Box 458
Calimesa, CA 92320

Mr. J. Andrew Schlange
General Manager
San Timoteo Watershed Management
Authority
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Rancho Mirage, CA 92270

Mr. Dave Dillon
Mr. Dee Moorjani
Urban Logic Consultants
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Mr. Gil Granito, Esq.
Redwine and Sherrill
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Plantation on the Lake
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California Oak Valley Golf & Resort LLC
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Oak Valley Partners LP
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Mr. Paul Singarella, Esq.
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Costa Mesa, CA 92626-1925

Mr. Roger Billings
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6YUi a cbh, CA 92&&'

Mr. Greg Wilkinson, Esq.
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Riverside, CA 92501

Mr. Steve Anderson, Esq.
Manheim, Manheim & Berman and Sunny Cal
Egg and Poultry Company
Best, Best & Krieger
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Riverside, CA 92501

Mr. Walter M. Beckman (Deceased)
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Cherry Valley, CA 92223

Mr. Fred Reidman and Mr. Richard Reidman
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6475 East Pacific Coast Highway, No. 399
Long Beach, CA 90803
riedman@gte.net

Mr. Leonard Stearns
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Calimesa, CA 92320

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San Bernardino Valley Municipal Water
District
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San Bernardino, CA 92412-5906

Mr. Robert Reiter
San Bernardino Valley Municipal Water
District
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San Bernardino, CA 92412-5906

Mr. Jeff Davis
General Manager
San Gorgonio Pass Water Agency
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Lake Forest, CA 92630-1790

Ms. Maria Mendoza
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Director
San Gorgonio Pass Water Agency
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Beaumont, CA 92223

Mr. Ray Morris
Board President
San Gorgonio Pass Water Agency
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Beaumont, CA 92223

Mr. Ray Lewis
Director
San Gorgonio Pass Water Agency
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Blanca Marin
Executive Assistant
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Blanca.marin@bcvwd.org

Appendix B

FY 2008/09 Budget, Expenses, and Audit Letter

BEAUMONT BASIN WATERMASTER

Auditors' Report And Financial Statements

*For the Year Ended
June 30, 2009*

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, 2009. 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, 2009, 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 21, 2009

Beaumont Basin Watermaster

Statement of Net Assets

As of June 30, 2009

ASSETS

CURRENT ASSETS

Cash and Cash Equivalents	\$ 71,701
---------------------------	-----------

LIABILITIES and NET ASSETS

CURRENT LIABILITIES

Accounts Payable	17,991
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NET ASSETS

Unrestricted	\$ 53,710
--------------	-----------

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, 2009

REVENUES

Member Agency Contributions	
City of Beaumont	\$ 45,500
Beaumont Cherry Valley Water District	45,500
Yucaipa Valley Water District	45,500
City of Banning	45,500
South Mesa Water Company	45,500
Interest Revenue	8
Total Revenues	<u>227,508</u>

EXPENSES

Administrative Expenses	
Chief of Watermaster Services	54,000
Meetings and Miscellaneous	8,014
Acquisition and Computation of Production Data/Annual Report	53,875
General Engineering	25,000
Groundwater Level Water Monitoring Program	21,650
Subsidence Monitoring Program	36,785
Develop Methodology - Stormwater Recharge	2,293
Legal and Professional	15,813
Total Expenses	<u>217,430</u>
Change in Net Assets	10,078

NET ASSETS

Unrestricted Net Assets, Beginning of Year	43,632
Unrestricted Net Assets, End of Year	<u>\$ 53,710</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, 2009

Cash Flows From Operating Activities:

Cash Received from Members	\$ 227,500
Cash Paid to Vendors for Services and Supplies	(199,439)
Net Cash Provided By Operations	<u>28,061</u>

Cash Flows From Investing Activities:

Interest Earned on Operating Funds	<u>8</u>
Net Cash Provided by Investing Activities	<u>8</u>

Net Increase in Cash	28,069
Cash and Cash Equivalents at Beginning of Year	<u>43,632</u>
Cash and Cash Equivalents at End of Year	<u><u>\$ 71,701</u></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, 2009

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 Geronio 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, 2009

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 \$71,701 at June 30, 2009 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.

Authorized Investment Type	Maximum Maturity	Minimum Credit Quality	Maximum Percentage of Portfolio	Maximum Investment In One Issuer
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.

Appendix C

FY 2008/09 Resolutions

RESOLUTION NO. 2009-001

A RESOLUTION OF THE
BEAUMONT BASIN WATERMASTER
ESTABLISHING A PUBLIC RECORDS ACT POLICY

Section 1: Public Access

Public records are open to inspection at all times during regular office hours. The office hours of the Authority are from 9:00 a.m. to 4:00 p.m., Monday through Friday, except state and federal holidays.

Section 2: Requests in Writing

Requests to inspect public records should be directed to:

J. Andrew Schlange, Chief of Watermaster Services
Beaumont Basin Watermaster
c/o Beaumont-Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

Section 3: Response to Request

Within 10 calendar days from the receipt of a written request for public records, the Authority's contact person or his designee will respond to the requester by letter, stating whether the Authority will comply with the request. In unusual circumstances, the time limit prescribed may be extended by up to 10 additional business days by written notice from the Authority setting forth the reasons for the extension and the date upon which a determination is expected to be mailed.

"Unusual Circumstances" means (a) the need to search for and collect the records from other offices; or (b) the request seeks voluminous records.

If the Authority decides that certain information will not be disclosed, written notification will be provided to the requester stating the reasons for the decision, accompanied by the name and title of the person making the decision. The Authority shall justify withholding any record by showing that the record in question is exempt under an express provision of the California Public Records Act, or that, under the facts of a particular case, the public interest served by not making the record public clearly outweighs the public interest served by disclosure of the record.

Section 4: Copy Charge

Copies of any specifically-described and identified public record not exempt from disclosure will be made for a charge of 25 cents per page, 11"x14" or smaller, black and white. Larger documents (e.g. maps) and color documents will be reproduced at actual cost.

Recordings of public meetings, whether by tape or compact disk recording, are made only for the convenience of the Secretary in preparing the Official Minutes of the meetings. Such recordings are maintained as public records and are to be kept indefinitely. The Authority does not have an in-house capability of reproducing such

recordings. As a courtesy, upon written request the Authority will arrange for the preparation of a duplicate recording, at no cost. However, it is highly recommended and the public is encouraged to bring their own sound recording equipment to public meetings of the Authority. In order to ensure a quality sound recording, the Authority will assist any member of the public in situating the recorder to ensure a quality recording.

Section 5: Limits on Disclosure

Under the California Public Records Act, there are various categories of records that the Authority is not required to disclose, including:

- a) Raw draft documents;
- b) Records relating to pending litigation;
- c) Records comprised of personnel, medical or similar files;
- d) Records containing an individual's Social Security number, driver's license number or home telephone number;
- e) Records protected by the attorney-client privilege.

Section 6: Destruction of Public Records

Certain records of the Authority are maintained indefinitely, and others are maintained for a limited period of time and then are destroyed.

- a. Records Which Shall Be Retained Indefinitely:
 - 1) Records affecting title to real property;
 - 2) Court records;
 - 3) The minutes, ordinances and resolutions of the Authority.
- b. Records Which May Be Destroyed: Subject to the provisions of Subsection c below, the following records may be destroyed, as follows:
 - 1) After a minimum of 2 years: basic time and earnings cards, wage rate tables and work time schedules, agendas, meeting folders and packets, general correspondence, press releases and outdated policies and procedures.
 - 2) After a minimum of 3 years: personnel records and files, job descriptions.
 - 3) After a minimum of 4 years: payroll records, income tax withholding records, federal unemployment tax records, and FICA contributions records.
 - 4) After a minimum of 5 years: budget preparation files, expired service and construction contracts, claims against the Authority, expired leases.
 - 5) After a minimum of 6 years: audit reports.
 - 6) After a minimum of 8 years: Statements of Economic Interests.
- c. **Destruction Procedures:** After the minimum period of time has passed, records may be destroyed in accordance with one of the following two methods:
 - 1. **Method No. 1-** destruction without making a copy: the Chief of Authority Services may, with the written consent of the Commission,

destroy any authorized Authority record, document; instrument, book or paper without making a copy thereof, after the same is no longer required.

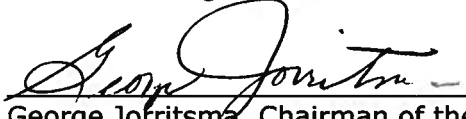
2. **Method No. 2** - destruction after making a copy: the Chief of Authority Services may, without the written consent of the Commission, cause to be destroyed any and all of the records, documents, instruments, books and papers authorized hereunder if a copy thereof is made and stored electronically and capable of being reproduced accurately and legibly, is accessible for public reference as the original record was, and a true copy of the record is maintained on a compact disk or other medium and kept in a safe and separate place for security purposes. For purposes of this policy, every reproduction of a document therefore shall be deemed an original record.

Section 7: Repeal

This Resolution supersedes Resolution 2008-001; therefore, Resolution No. 2008-001 is hereby repealed in its entirety.

PASSED AND ADOPTED at a regular meeting of the Beaumont Basin Watermaster on, April 28, 2009.

Authorized Original:

A handwritten signature in cursive script, appearing to read "George Jofritsma", written in dark ink.

George Jofritsma, Chairman of the Commission

Appendix D

Compact Disc: Groundwater Production and Recharge Database

Appendix E

Un-metered Overlying Party Production Estimates

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

Introduction

During fiscal 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 fiscal 2005/06. This appendix details the updated water duty method used to estimate production for the following un-metered Overlying Parties for the fiscal 2003/04 through 2008/09 period:

- 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 and 2008 and through the examination of springtime air photos of the Beaumont Basin from 2003, 2004, 2005, 2006, 2007, 2008, and 2009. 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 the Sunny-Cal was able to store wash water onsite after use, for this water duty method, it was assumed that the groundwater pumped for washing is sufficient enough 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 2005/06 investigations was verified and/or updated with information obtained from the fiscal 2007/08 field investigation and through the use of annual springtime aerial photographs from Spring 2004 through Spring 2009. 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 industrial water use of each Overlying Producer is provided in Exhibits E-1 through E-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 E1
Estimated Pumping by Merlin Properties -- FY 2003/04 through FY 2008/09

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
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

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

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	5.9	7.1	6.5	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.3	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	7.2	5.7	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	5.3	6.04	6.28	7.59	58.7
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	58.2

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.9	5.2	3.9	2.9	1.6	1.4	1.7	1.9	3.4	4.1	5	4.6	40.6	0.37
FY 2004/05	5.3	4.8	4.1	2.4	1.7	1.6	1.4	1.5	2.8	3.8	4.5	4.5	38.4	0.35
FY 2005/06	5.1	4.7	3.7	2.6	2	1.5	2	2.3	2.4	3	4.2	5	38.5	0.35
FY 2006/07	5.4	5	4	2.8	2.2	2.1	2.3	2	3.5	3.5	4.5	5	42.3	0.39
FY 2007/08	5.3	5	3.8	3	2	1.6	1.2	1.6	3.7	4.2	4.4	5.3	41.1	0.38
FY 2008/09	5.3	5.1	4.1	3.5	2.2	1.3	2.3	1.7	3.2	3.9	4.4	3.8	40.8	0.37

Irr Efficiency	0.7
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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

Exhibit E2
Estimated Pumping by Rancho Calimesa -- FY 2003/04 through FY 2008/09

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
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

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

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	5.9	7.1	6.5	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.3	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	7.2	5.7	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	5.3	6.04	6.28	7.59	58.7
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	58.2

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.9	5.2	3.9	2.9	1.6	1.4	1.7	1.9	3.4	4.1	5	4.6	40.6	0.00
FY 2004/05	5.3	4.8	4.1	2.4	1.7	1.6	1.4	1.5	2.8	3.8	4.5	4.5	38.4	0.00
FY 2005/06	5.1	4.7	3.7	2.6	2	1.5	2	2.3	2.4	3	4.2	5	38.5	0.00
FY 2006/07	5.4	5	4	2.8	2.2	2.1	2.3	2	3.5	3.5	4.5	5	42.3	0.00
FY 2007/08	5.3	5	3.8	3	2	1.6	1.2	1.6	3.7	4.2	4.4	5.3	41.1	0.00
FY 2008/09	5.3	5.1	4.1	3.5	2.2	1.3	2.3	1.7	3.2	3.9	4.4	3.8	40.8	0.00

Irr Efficiency	0.7
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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

Exhibit E3
Estimated Pumping by the Roman Catholic Bishop of San Bernardino -- FY 2003/04 through FY 2008/09

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
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

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

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	5.9	7.1	6.5	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.3	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	7.2	5.7	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	5.3	6.04	6.28	7.59	58.7
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	58.2

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.9	5.2	3.9	2.9	1.6	1.4	1.7	1.9	3.4	4.1	5	4.6	40.6	40.94
FY 2004/05	5.3	4.8	4.1	2.4	1.7	1.6	1.4	1.5	2.8	3.8	4.5	4.5	38.4	38.72
FY 2005/06	5.1	4.7	3.7	2.6	2	1.5	2	2.3	2.4	3	4.2	5	38.5	38.82
FY 2006/07	5.4	5	4	2.8	2.2	2.1	2.3	2	3.5	3.5	4.5	5	42.3	0.00
FY 2007/08	5.3	5	3.8	3	2	1.6	1.2	1.6	3.7	4.2	4.4	5.3	41.1	0.00
FY 2008/09	5.3	5.1	4.1	3.5	2.2	1.3	2.3	1.7	3.2	3.9	4.4	3.8	40.8	0.00

Irr Efficiency	0.7
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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

Exhibit E4
Estimated Pumping by Leonard Stearns -- FY 2003/04 through FY 2008/09

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
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

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

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	5.9	7.1	6.5	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.3	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	7.2	5.7	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	5.3	6.04	6.28	7.59	58.7
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	58.2

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.9	5.2	3.9	2.9	1.6	1.4	1.7	1.9	3.4	4.1	5	4.6	40.6	0.00
FY 2004/05	5.3	4.8	4.1	2.4	1.7	1.6	1.4	1.5	2.8	3.8	4.5	4.5	38.4	0.00
FY 2005/06	5.1	4.7	3.7	2.6	2	1.5	2	2.3	2.4	3	4.2	5	38.5	0.00
FY 2006/07	5.4	5	4	2.8	2.2	2.1	2.3	2	3.5	3.5	4.5	5	42.3	0.00
FY 2007/08	5.3	5	3.8	3	2	1.6	1.2	1.6	3.7	4.2	4.4	5.3	41.1	0.00
FY 2008/09	5.3	5.1	4.1	3.5	2.2	1.3	2.3	1.7	3.2	3.9	4.4	3.8	40.8	0.00

Irr Efficiency	0.7
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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

Exhibit E5
Estimated Pumping by Sunny Cal -- FY 2003/04 through FY 2008/09

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
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

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

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

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	5.9	7.1	6.5	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.3	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	7.2	5.7	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	5.3	6.04	6.28	7.59	58.7
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	58.2

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.9	5.2	3.9	2.9	1.6	1.4	1.7	1.9	3.4	4.1	5	4.6	40.6	224.65
FY 2004/05	5.3	4.8	4.1	2.4	1.7	1.6	1.4	1.5	2.8	3.8	4.5	4.5	38.4	212.48
FY 2005/06	5.1	4.7	3.7	2.6	2	1.5	2	2.3	2.4	3	4.2	5	38.5	1.28
FY 2006/07	5.4	5	4	2.8	2.2	2.1	2.3	2	3.5	3.5	4.5	5	42.3	1.41
FY 2007/08	5.3	5	3.8	3	2	1.6	1.2	1.6	3.7	4.2	4.4	5.3	41.1	1.37
FY 2008/09	5.3	5.1	4.1	3.5	2.2	1.3	2.3	1.7	3.2	3.9	4.4	3.8	40.8	1.36

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

Exhibit E6
Estimated Pumping by Albor Properties -- FY 2003/04 through FY 2008/09

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
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

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

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	5.9	7.1	6.5	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.3	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	7.2	5.7	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	5.3	6.04	6.28	7.59	58.7
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	58.2

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.9	5.2	3.9	2.9	1.6	1.4	1.7	1.9	3.4	4.1	5	4.6	40.6	0.00
FY 2004/05	5.3	4.8	4.1	2.4	1.7	1.6	1.4	1.5	2.8	3.8	4.5	4.5	38.4	0.00
FY 2005/06	5.1	4.7	3.7	2.6	2	1.5	2	2.3	2.4	3	4.2	5	38.5	8.34
FY 2006/07	5.4	5	4	2.8	2.2	2.1	2.3	2	3.5	3.5	4.5	5	42.3	1.41
FY 2007/08	5.3	5	3.8	3	2	1.6	1.2	1.6	3.7	4.2	4.4	5.3	41.1	1.37
FY 2008/09	5.3	5.1	4.1	3.5	2.2	1.3	2.3	1.7	3.2	3.9	4.4	3.8	40.8	1.36

Irr Efficiency	0.7
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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

Exhibit E7
Estimated Pumping by Nikodinov -- FY 2003/04 through FY 2008/09

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
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

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

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	5.9	7.1	6.5	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.3	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	7.2	5.7	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	5.3	6.04	6.28	7.59	58.7
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	58.2

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.9	5.2	3.9	2.9	1.6	1.4	1.7	1.9	3.4	4.1	5	4.6	40.6	0.00
FY 2004/05	5.3	4.8	4.1	2.4	1.7	1.6	1.4	1.5	2.8	3.8	4.5	4.5	38.4	0.00
FY 2005/06	5.1	4.7	3.7	2.6	2	1.5	2	2.3	2.4	3	4.2	5	38.5	0.26
FY 2006/07	5.4	5	4	2.8	2.2	2.1	2.3	2	3.5	3.5	4.5	5	42.3	0.28
FY 2007/08	5.3	5	3.8	3	2	1.6	1.2	1.6	3.7	4.2	4.4	5.3	41.1	0.27
FY 2008/09	5.3	5.1	4.1	3.5	2.2	1.3	2.3	1.7	3.2	3.9	4.4	3.8	40.8	0.27

Irr Efficiency	0.7
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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

Exhibit E8
Estimated Pumping by McAmis -- FY 2003/04 through FY 2008/09

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
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

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

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	5.9	7.1	6.5	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.3	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	7.2	5.7	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	5.3	6.04	6.28	7.59	58.7
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	58.2

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.9	5.2	3.9	2.9	1.6	1.4	1.7	1.9	3.4	4.1	5	4.6	40.6	0.00
FY 2004/05	5.3	4.8	4.1	2.4	1.7	1.6	1.4	1.5	2.8	3.8	4.5	4.5	38.4	0.00
FY 2005/06	5.1	4.7	3.7	2.6	2	1.5	2	2.3	2.4	3	4.2	5	38.5	0.13
FY 2006/07	5.4	5	4	2.8	2.2	2.1	2.3	2	3.5	3.5	4.5	5	42.3	0.14
FY 2007/08	5.3	5	3.8	3	2	1.6	1.2	1.6	3.7	4.2	4.4	5.3	41.1	0.14
FY 2008/09	5.3	5.1	4.1	3.5	2.2	1.3	2.3	1.7	3.2	3.9	4.4	3.8	40.8	0.14

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

Exhibit E9
Estimated Pumping by Aldama -- FY 2003/04 through FY 2008/09

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
Total			1.40		1.94	3.34

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

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

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	5.9	7.1	6.5	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.3	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	7.2	5.7	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	5.3	6.04	6.28	7.59	58.7
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	58.2

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.9	5.2	3.9	2.9	1.6	1.4	1.7	1.9	3.4	4.1	5	4.6	40.6	0.00
FY 2004/05	5.3	4.8	4.1	2.4	1.7	1.6	1.4	1.5	2.8	3.8	4.5	4.5	38.4	0.00
FY 2005/06	5.1	4.7	3.7	2.6	2	1.5	2	2.3	2.4	3	4.2	5	38.5	0.32
FY 2006/07	5.4	5	4	2.8	2.2	2.1	2.3	2	3.5	3.5	4.5	5	42.3	0.35
FY 2007/08	5.3	5	3.8	3	2	1.6	1.2	1.6	3.7	4.2	4.4	5.3	41.1	0.34
FY 2008/09	5.3	5.1	4.1	3.5	2.2	1.3	2.3	1.7	3.2	3.9	4.4	3.8	40.8	0.34

Irr Efficiency	0.7
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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

Exhibit E10
Estimated Pumping by Gutierrez -- FY 2003/04 through FY 2008/09

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
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

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

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	5.9	7.1	6.5	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.3	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	7.2	5.7	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	5.3	6.04	6.28	7.59	58.7
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	58.2

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.9	5.2	3.9	2.9	1.6	1.4	1.7	1.9	3.4	4.1	5	4.6	40.6	0.00
FY 2004/05	5.3	4.8	4.1	2.4	1.7	1.6	1.4	1.5	2.8	3.8	4.5	4.5	38.4	0.00
FY 2005/06	5.1	4.7	3.7	2.6	2	1.5	2	2.3	2.4	3	4.2	5	38.5	0.45
FY 2006/07	5.4	5	4	2.8	2.2	2.1	2.3	2	3.5	3.5	4.5	5	42.3	0.49
FY 2007/08	5.3	5	3.8	3	2	1.6	1.2	1.6	3.7	4.2	4.4	5.3	41.1	0.48
FY 2008/09	5.3	5.1	4.1	3.5	2.2	1.3	2.3	1.7	3.2	3.9	4.4	3.8	40.8	0.48

Irr Efficiency	0.7
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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

Exhibit E11
Estimated Pumping by Darmont -- FY 2003/04 through FY 2008/09

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
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

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

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	5.9	7.1	6.5	57.99
FY 2004/05	7.55	6.81	5.83	3.39	2.44	2.3	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	7.2	5.7	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	5.3	6.04	6.28	7.59	58.7
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	58.2

ETc	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total (in/yr)	Irrigation Requirement (acre-ft/yr)
FY 2003/04	4.9	5.2	3.9	2.9	1.6	1.4	1.7	1.9	3.4	4.1	5	4.6	40.6	0.00
FY 2004/05	5.3	4.8	4.1	2.4	1.7	1.6	1.4	1.5	2.8	3.8	4.5	4.5	38.4	0.00
FY 2005/06	5.1	4.7	3.7	2.6	2	1.5	2	2.3	2.4	3	4.2	5	38.5	0.00
FY 2006/07	5.4	5	4	2.8	2.2	2.1	2.3	2	3.5	3.5	4.5	5	42.3	0.00
FY 2007/08	5.3	5	3.8	3	2	1.6	1.2	1.6	3.7	4.2	4.4	5.3	41.1	0.00
FY 2008/09	5.3	5.1	4.1	3.5	2.2	1.3	2.3	1.7	3.2	3.9	4.4	3.8	40.8	0.00

Irr Efficiency	0.7
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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