



# CHINO BASIN WATERMASTER



## NOTICE OF ANNUAL MEETING

**Thursday, January 26, 2012**

11:00 a.m. – Annual Watermaster Board Meeting

*Lunch Will Be Served*

**AT THE CHINO BASIN WATERMASTER OFFICES**

9641 San Bernardino Road  
Rancho Cucamonga, CA 91730  
(909) 484-3888





# **CHINO BASIN WATERMASTER**

**Thursday, January 26, 2012**

11:00 a.m. – Annual Watermaster Board Meeting

## **AGENDA PACKAGE**



**CHINO BASIN WATERMASTER  
ANNUAL WATERMASTER BOARD MEETING**

11:00 a.m. – January 26, 2012

**WITH**

*Mr. Bob Kuhn, 2011 Vice-Chair*

**At The Offices Of**

**Chino Basin Watermaster**

9641 San Bernardino Road

Rancho Cucamonga, CA 91730

**AGENDA**

**CALL TO ORDER**

**PLEDGE OF ALLEGIANCE**

**PUBLIC COMMENTS**

**AGENDA - ADDITIONS/REORDER**

**INTRODUCTIONS - CALENDAR YEAR 2011 WATERMASTER BOARD MEMBERS**

Bob Bowcock	Non-Agricultural Pool
Jim Curatalo	Fontana Union Water Company
Charles Field	Western Municipal Water District
Paul Hofer	Agricultural Pool (Crops)
Steve Elie	Inland Empire Utilities Agency
Bill Kruger	City of Chino Hills
Bob Kuhn	Three Valleys Municipal Water District
Paula Lantz	City of Pomona
Geoffrey Vanden Heuvel	Agricultural Pool (Dairy)

**I. CALENDAR YEAR 2012 OFFICERS – Action**

**A. ELECTION OF OFFICERS**

1. Nominations will be heard for Watermaster Board Chair
2. Nominations will be heard for Watermaster Board Vice-Chair
3. Nominations will be heard for Watermaster Board Secretary/Treasurer

**II. CONSENT CALENDAR**

**Note: All matters listed under the Consent Calendar are considered to be routine and non-controversial and will be acted upon by one motion in the form listed below. There will be no separate discussion on these items prior to voting unless any members, staff, or the public requests specific items be discussed and/or removed from the Consent Calendar for separate action.**

**A. MINUTES**

1. Minutes of the Watermaster Board Meeting held December 15, 2011 (*Page 1*)

**B. FINANCIAL REPORTS**

1. Cash Disbursements for the month of November 2011 *(Page 11)*
2. Watermaster VISA Check Detail for the month of November 2011 *(Page 25)*
3. Combining Schedule for the Period July 1, 2011 through November 30, 2011 *(Page 29)*
4. Treasurer's Report of Financial Affairs for the Period November 1, 2011 through November 30, 2011 *(Page 33)*
5. Budget vs. Actual Current Month, Year-To-Date, and Fiscal Year-End *(Page 37)*

**C. NOTICE OF INTENT**

Annual Filing of Notice of Intent Regarding the Determination of Operating Safe Yield *(Page 47)*

**D. CHINO BASIN WATERMASTER INVESTMENT POLICY**

Resolution 12-01 – Resolution of the Chino Basin Watermaster, San Bernardino County, California, Re-Authorizing the Watermaster's Investment Policy *(Page 49)*

**E. LOCAL AGENCY INVESTMENT FUND**

Resolution 12-02 – Resolution Authorizing Investment of Monies in the Local Agency Investment Fund (LAIF) - *(Page 51)*

**III. BUSINESS ITEMS**

**A. WATERMASTER 2011/2012 ASSESSMENT PACKAGE**

Consider Approval of the Fiscal Year 2011-2012 Watermaster Assessment Package *(Page 53)*

**B. LEVYING REPLENISHMENT AND ADMINISTRATIVE ASSESSMENTS**

Resolution 12-03 – Resolution Authorizing Levying Replenishment and Administrative Assessments for Fiscal Year 2011-2012 *(Page 57)*

**C. MATERIAL PHYSICAL INJURY ANALYSIS**

Consider Approval to receive and file WEI's Material Physical Injury analysis *(Page 61)*

**IV. REPORTS/UPDATES**

**A. WATERMASTER GENERAL LEGAL COUNSEL REPORT**

1. December 16, 2011 Hearing Report
2. January 17, 2012 RMP Meeting

**B. CEO/STAFF REPORT**

1. Recharge Master Plan Update
2. Recharge Update
3. Notice of Availability - Non-Agricultural Water *(Page 133)*
4. WEI Analysis of Well Design for CDA Well I-20 *(Page 137)*
5. Chino Basin Watermaster Excess Reserves Update *(Page 153)*
6. Vertical Extensometer Update
7. Basin Plan Amendment Update
8. Archibald South Plume Sampling Result Update

**V. INFORMATION**

1. Cash Disbursements for December 2011 *(Page 155)*
2. Newspaper Articles *(Page 163)*

**VI. BOARD MEMBER COMMENTS**

**VII. OTHER BUSINESS**

**VIII. CONFIDENTIAL SESSION - POSSIBLE ACTION**

Pursuant to Article 2.6 of the Watermaster Rules & Regulations, a Confidential Session may be held during the Watermaster committee meeting for the purpose of discussion and possible action.

1. Aqua Capital Management versus California Steel Industries
2. Personnel Matters

**IX. FUTURE MEETINGS AT WATERMASTER**

Thursday, January 26, 2012	11:00 a.m.	Annual & Election Watermaster Board Meeting
Wednesday, February 1, 2012	1:30 p.m.	* CB RMPU Steering Committee Conference Call Meeting
Thursday, February 9, 2012	9:00 a.m.	Appropriative Pool Meeting
Thursday, February 9, 2012	11:00 a.m.	Non-Agricultural Pool Conference Call Meeting
Thursday, February 9, 2012	1:00 p.m.	Agricultural Pool Meeting
Tuesday, February 14, 2012	9:00 a.m.	* CB RMPU Steering Committee Meeting
Thursday, February 16, 2012	8:00 a.m.	IEUA DYY Meeting
Thursday, February 16, 2012	9:00 a.m.	Advisory Committee Meeting
Thursday, February 16, 2012	11:00 a.m.	Land Subsidence Committee Meeting
Thursday, February 23, 2012	11:00 a.m.	Watermaster Board Meeting

\* Chino Basin Recharge Master Plan Update Steering Committee

**Meeting Adjourn**

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# CHINO BASIN WATERMASTER

## I. CONSENT CALENDAR

### A. MINUTES

1. Watermaster Board meeting held  
December 15, 2011



**Draft Minutes**  
**CHINO BASIN WATERMASTER**  
**WATERMASTER BOARD MEETING**

*December 15, 2011*

The Watermaster Board Meeting was held at the offices of the Chino Basin Watermaster, 9641 San Bernardino Road, Rancho Cucamonga, CA, on December 15, 2011 at 11:00 a.m.

**WATERMASTER BOARD MEMBERS PRESENT**

Ken Willis, Chair  
Steve Elie  
Ken Jeske  
Bob Kuhn  
Charles Field  
Paula Lantz  
Tom Haughey  
Paul Hofer  
Geoffrey Vanden Heuvel

West End Consolidated Water Company  
Inland Empire Utilities Agency  
California Steel Industries  
Three Valleys Municipal Water District  
Western Municipal Water District  
City of Pomona  
City of Chino  
Agricultural Pool  
Agricultural Pool

**Watermaster Staff Present**

Danielle Maurizio  
Gerald Greene  
Sherri Molino

Senior Engineer/Interim CEO  
Senior Environmental Engineer  
Recording Secretary

**Watermaster Consultants Present**

Scott Slater  
Michael Fife  
Mark Wildermuth  
Andy Malone

Brownstein, Hyatt, Farber & Schreck  
Brownstein, Hyatt, Farber & Schreck  
Wildermuth Environmental Inc.  
Wildermuth Environmental Inc.

**Others Present Who Signed In**

Jeff Pierson  
Bob Feenstra  
Pete Hall  
Mark Kinsey  
Marty Zvirbulis  
Raul Garibay  
Dave Crosley  
Rosemary Hoerning  
Justin Scott-Coe  
Terry Catlin  
Ryan Shaw  
Hank Stoy  
Eunice Ulloa  
Jack Safely

Ag Pool – Crops  
Ag Pool – Dairy  
Ag Pool – State of California – CIM  
Monte Vista Water District  
Cucamonga Valley Water District  
City of Pomona  
City of Chino  
City of Upland  
Monte Vista Water District  
Inland Empire Utilities Agency  
Inland Empire Utilities Agency  
Cucamonga Valley Water District  
Chino Basin Conservation District  
Western Municipal Water District

Chair Willis called the Watermaster Board meeting to order at 11:00 a.m.

**PLEDGE OF ALLEGIANCE**

**AGENDA - ADDITIONS/REORDER**

There were no additions or reorders made to the agenda.



**RECOGNITION OF OUTGOING BOARD MEMBERS**

1. Commendation Presentation to Mr. Tom Haughey 2010-2011, Current Board Secretary/Treasurer
2. Presentation to Mr. Ken Willis, Board Chairman from 2006-2011

Mr. Kuhn read the commendation plaque to Mr. Tom Haughey, who served on the Watermaster Board for two years and held the Secretary/Treasurer position this past year; Mr. Kuhn presented the plaque to Mr. Haughey. Mr. Kuhn thanked Mr. Haughey for a job well done and for his input over the last couple of years.

Mr. Kuhn presented Chair Willis with a special engraved clock for his past six years of service as Watermaster Board Chairman. Mr. Kuhn read the inscription. Mr. Kuhn stated Mr. Willis has taken the Watermaster Board to a whole new level over these past six years. Mr. Kuhn thanked him for all he has done for the Watermaster and the parties during his time as Board Chair. Mr. Kuhn noted there will be a special lunch served in honor of Mr. Willis directly after this meeting. Chair Willis stated his wife, Jane, is in the audience today and will be also joining us for lunch.

**I. CONSENT CALENDAR****A. MINUTES**

1. Minutes of the Watermaster Board Meeting held November 10, 2011

**B. FINANCIAL REPORTS**

1. Cash Disbursements for the month of October 2011
2. Watermaster VISA Check Detail for the month of October 2011
3. Combining Schedule for the Period July 1, 2011 through October 31, 2011
4. Treasurer's Report of Financial Affairs for the Period October 1, 2011 through October 31, 2011
5. Budget vs. Actual July 2011 through October 31, 2011

*Motion by Elie second by Field, and by unanimous vote*

***Moved to approve Consent Calendar items A through B, as presented***

**II. BUSINESS ITEMS****A. CHINO BASIN WATERMASTER RESERVES**

Ms. Maurizio stated the issue of the reserves has been discussed ever since the budget process began. Ms. Maurizio stated the question was raised by the Appropriators at the time of the budget process as to how much money is in the reserves, and how much of that is excess reserves. Ms. Maurizio stated there are a few issues with the reserves; however, the immediate need is to agree on the reserve method to be used in the upcoming Assessment Package. Ms. Maurizio stated the other issues are should Watermaster have a permanent policy and what to do with the excess reserves. Ms. Maurizio stated normally our CFO, Mr. Joswiak, would be giving this presentation and he is the one who gave it at the Pool meetings; however, he is out on leave for a few weeks. Ms. Maurizio gave the Chino Basin Watermaster Reserves presentation in detail. Ms. Maurizio provided the actions taken at the Pool meetings earlier this month. Ms. Maurizio read staff's recommendation from the staff letter which was provided in the meeting package. Mr. Vanden Heuvel inquired as to what action the Advisory Committee took this morning on this item. Ms. Maurizio stated the Advisory Committee unanimously approved staff's recommendation. Mr. Vanden Heuvel made a motion to approve staff's recommendation and Mr. Kuhn seconded the motion. Mr. Vanden Heuvel inquired about Table A regarding the interest income and if that money was taken out, would that affect the interest income that Watermaster is counting on as part of this year's budget. Ms. Maurizio stated yes it would. A discussion regarding Mr. Vanden Heuvel's question and the presented Assessment Package ensued. Mr. Love offered comment on the reserves and encouraged the parties to consider establishing a higher level of reserve funding because he believes preemptive replenishment will become more of the normal rather than the exception that it has in the past. Mr. Kuhn stated he has heard more than once about a committee being formed to take on the reserve position and

asked for more information on this new committee. Ms. Maurizio stated so far only Cucamonga Valley Water District has recommended a person from their staff to assist and to be a part of that committee. Ms. Maurizio stated no other party has definitely committed a person and/or financial officer for this committee; this is still a work in progress.

*Motion by Vanden Heuvel second by Kuhn, and by unanimous vote*

***Moved to approve staff recommendation to approve (1) Watermaster moving forward with the creation of the Assessment Package using the 30/30 Reserve and \$200,000 savings to offset assessments; (2) Return the current Appropriative Pool Excess Reserves of \$2,542,181 and Non-Agricultural Pool Excess Reserves of \$81,757 allocated back to the Parties based on the last four years of pro-rata share of the assessments and return it as a credit on their invoice for current fiscal year assessments (any Party with a greater Excess Reserve allocation than current assessment will be issued a check); and (3) That the Parties work with Watermaster staff to develop a permanent reserve policy, as presented***

#### **B. TURNER BASIN IMPROVEMENT PROJECT AGREEMENT**

Ms. Maurizio stated this item is regarding the Turner Basin Improvement Project Agreement and introduced the item in detail. Ms. Maurizio stated Mr. Greene provided the motions made at the recent Pool meetings; however, the Advisory Committee approved staff's recommendation this morning. Mr. Greene gave the Cost Sharing Agreement for Turner Basin/Guasti Park Recharge Improvements presentation. In the presentation Mr. Greene reviewed the Groundwater Recharge Projects in detail, including the Bureau of Reclamation Grant with Inland Empire Utilities Agency. A detailed map of the Change in Groundwater Levels from Spring 2000 to Spring 2010 was reviewed. Mr. Greene reviewed the Turner Basin Task Force Summer 2010 as well as the Milliken Grade Separation Project in detail. The Proposed Cost Sharing Agreement and Cost Recovery Projection, and Staff Recommendations were reviewed in detail. Mr. Greene reviewed the individual Pool motions and staff's recommendation. A discussion regarding the Advisory Committee's motion ensued. Ms. Maurizio discussed the midyear budget check-in.

*Motion by Vanden Heuvel second by Haughey, and by unanimous vote*

***Moved to approve the approval of the cost sharing agreement, as presented***

#### **C. ANNUAL FINDING WITH COMPLIANCE OF UPDATED RECHARGE MASTER PLAN**

Ms. Maurizio stated Watermaster is required to make this annual finding that it is in compliance with the 2010 Recharge Master Plan Update and Wildermuth Environmental has prepared a report to address this. Ms. Maurizio stated the report states although WEI's calculations indicate there is enough recharge capacity, it is known there is an imbalance of recharge and discharge in areas, particularly in MZ3, and those issues are being worked on. Ms. Maurizio stated the report also states that Watermaster has committed to begin a process toward implementing a Preemptive Replenishment Program. Ms. Maurizio reviewed the actions taken at the Pools and Advisory Committee meetings. Mr. Kuhn inquired about the timeline that the Advisory Committee set. Mr. Jeske stated one year. Mr. Vanden Heuvel inquired about the court requirements on this finding. Counsel Slater stated it is required and there are draconian consequences for failure to make the finding, and the access to the 400,000 acre-feet is contingent upon our continued compliance. Mr. Vanden Heuvel stated what the Advisory Committee did was the only prudent action, at the moment, because to try and leverage on this particular point puts a lot of what we do here at risk. Mr. Vanden Heuvel stated Watermaster has not made significant progress on this Recharge Master Plan and there are real issues which Jurupa Community Services District (JCSD) outlines in their letter; JCSD has legitimate concerns and agrees with the caveats that the Advisory Committee put on their motion. Mr. Vanden Heuvel offered further comment on this matter.

*Motion by Vanden Heuvel second by Lantz, and by unanimous vote*

***Moved to approve that within the next year there will be the completion of Recharge Master Plan Update, there will be the development of an Implementation Plan to address balance issues within the Chino Basin subzones, and the development of a Funding Plan, as presented***

### III. REPORTS/UPDATES

#### A. WATERMASTER GENERAL LEGAL COUNSEL REPORT

1. Update on 180 day deferral of December 17, 2011 Recharge Master Plan Filing  
Counsel Slater stated at the last meeting this committee acted upon a recommendation of the Advisory Committee to continue the filing date on the Recharge Master Plan from December 17, 2011 by 180 days, which takes an order of the court to complete that action. Counsel Slater stated the pleading with this regard has been completed and filed with the court in order for the Judge to review the pleading in advance of the scheduled hearing tomorrow. Counsel Slater stated this pleading was emailed and a copy is on the back table; this pleading is noncontroversial and unopposed.
2. Aqua Capital Management versus California Steel Industries  
Counsel Slater stated this item was discussed recently in closed session. Counsel Slater stated this case raises issues concerning Watermaster's jurisdiction, the scope of the Judgment, and notice provisions, and it may be necessary for Watermaster to intervene in this proceeding if it continues in a parallel court room that is not joined with Watermaster's ongoing case. Counsel Slater if this case continues in another court with another judge that raises a potential issue. Counsel Slater stated there is a hearing on Monday which will be monitored by counsel and a report will be provided if there is further action that may be required.

#### B. WATERMASTER ENGINEERING REPORT

1. Chino Creek Wellfield Extensometer Location  
Mr. Malone stated in the Peace II CEQA documentation there is a monitoring and mitigation requirement to install an extensometer near the Chino Creek Desalter Well Field. Mr. Malone reviewed a map of the location in detail. Mr. Malone reviewed the property area in which the extensometer will hopefully be installed. Mr. Malone noted the extensometer is going to be below ground. Mr. Malone discussed the proposed construction, easement, and permanent easement. Mr. Malone noted the county has stated that the site is acceptable with them; however, complete confirmation has not been received. Mr. Malone stated once the final lease agreement is received, Watermaster Counsel will be reviewing it. Mr. Malone stated we were working with the Agricultural Pool's chair, Bob Feenstra and Frank Brommenschenkel to help us get a site by working with a private land owner in the event the county's site falls through. Mr. Malone stated he will keep the parties apprised on this matter at future meetings.

#### C. CEO/STAFF REPORT

1. RWQCB Basin Plan Amendment Update  
Mr. Wildermuth stated with regard to the RWQCB Basin Plan Amendment Update, Wildermuth Environmental was able to get a draft copy of the language late last week. Mr. Wildermuth stated the Regional Board staff has added something else to the amendment which is unrelated to Chino Basin, which is somewhat problematic. Mr. Wildermuth stated as to the language, as it goes towards the Chino Basin, it's almost perfect and some non-controversial changes have to be made; they are basically working off something Wildermuth prepared a long time ago and things have changed for the scheduling of some modeling. Mr. Wildermuth stated Wildermuth is giving the RWQCB the updates as to the Basin Plan Amendment that was desired. Mr. Wildermuth stated this was an amendment which was to be a special purpose amendment for the Chino Basin Watermaster and Inland Empire Utilities Agency (IEUA). Mr. Wildermuth stated the controversial language they put in there has to do with the definition of incidental recharge

of planned recycled water recharge. Mr. Wildermuth stated when he saw that additional language he tried to reach the Regional Board staff; however, they would not return his calls, so he sent an email which went to Watermaster, IEUA, and some of the dischargers telling them that this language does not belong in this Basin Plan Amendment and can be potentially catastrophic. Mr. Wildermuth stated it is his understanding this will be noticed with or without them in the next few days, and is up for consideration by the RWQCB in February 2012. Mr. Elie inquired if the RWQCB could chop it up by approving portions of it. Mr. Wildermuth stated they have that discretion, and we have to be there and convince them if that is the case. Mr. Vanden Heuvel inquired what would it take for this Board to authorize our legal counsel to make sure we are represented at that meeting to interject if at all needed. Counsel Slater stated legal counsel works at the discretion and pleasure of the Board; if you want legal counsel to take an issue up and prepare a strategy, legal counsel will do that. Mr. Vanden Heuvel offered further comment on this matter. A lengthy discussion regarding this matter ensued.

2. Recharge Update

Ms. Maurizio stated there is an updated Recharge spreadsheet, which was not available at the Pool meetings earlier this month, for November. Ms. Maurizio stated 1,174 acre-feet has been received for storm water, zero acre-feet of imported water, and 648 acre-feet of recycled water. Ms. Maurizio stated annual totals to date are approximately 2,500 acre-feet of storm water, 23,000 acre-feet of imported water, and 3,400 acre-feet of recycled water for a total of all three categories at approximately 30,000 acre-feet to date.

3. Resolution of Preemptive Replenishment Water Purchase

Ms. Maurizio noted there is a handout on the back table regarding this item. Ms. Maurizio stated all the numbers are finalized now and some adjustments had to be made for the water that was received through OC59, which is always the case when Orange County Water District is accepting water at the same time Watermaster is out of that connection. Ms. Maurizio stated there are some meters that measure split of the water and there was also a calibration correction that needed to be done. Ms. Maurizio stated the handout shows how much was injected, wet water recharge, and what portion went through OC59 which is what satisfies the MZ1 requirement for recharge. Ms. Maurizio stated the total quantity of water was 33,099.5 acre-feet, with a cost of \$14,020,560.94. Ms. Maurizio presented the history on this item and stated she is very happy to report that since the last Watermaster Board meeting Watermaster has signed the agreements with Jurupa Community Services District and the City of Ontario. Ms. Maurizio stated the City of Ontario agreement was signed very quickly after the Board meeting and they gave a check to Watermaster almost immediately. In turn, Watermaster paid IEUA. Ms. Maurizio noted for your information, the balance due to IEUA was paid in two checks. Ms. Maurizio stated on November 23, 2011 Watermaster paid IEUA in the amount given by the City of Ontario Agreement. The Jurupa agreement had to go back to their board on November 28, 2011 and the next morning they had the check and the agreement to Watermaster, and those funds were then taken to IEUA for the last payment on the balance due. Ms. Maurizio stated IEUA had to pay MWD by November 30, 2011, otherwise they were going to pay a late fee – Watermaster did get the monies due to IEUA in time so that they did not incur any penalties. Ms. Maurizio stated she attended the actual IEUA board meeting recently where Watermaster had officially asked for them to waive our penalties and interest because we paid them late according to their invoice; the IEUA board considered our request and they waived the fees for Watermaster. Ms. Maurizio stated Watermaster now has all of the agreements needed and has paid IEUA in full for the water and all is good.

4. Notice of Availability of Non-Agricultural Pool Water

Ms. Maurizio stated this item is the Notice of Availability for the Non-Agricultural Pool water which starts on page 71 of the meeting packet. Ms. Maurizio stated this is just notification that if any party of the Non-Agricultural Pool parties would like to sell their water out of storage they need to notify Watermaster by December 31, 2011 via email to Ms. Maurizio.

Ms. Maurizio stated the notice is included in the meeting packet as well. Ms. Maurizio stated the rate for this water is always taken from the MWD Replenishment Rate. Ms. Maurizio stated in previous years it was interpreted this was to be paid by the rate at the time of the offer to sell water and not at the time of the actual sale; MWD changes their rates on January 1<sup>st</sup>. Ms. Maurizio stated it has now been interpreted, based on some discussions that occurred at the August meetings, to mean at the January rate at the actual time of the actual sale of the water. Ms. Maurizio stated the language for this is included in the meeting package.

6. Agricultural Pool Recommendation on the Applications for Recharge Update

Ms. Maurizio stated in the Pool meetings earlier this month there were two Applications for Storage and Recharge Agreements in the meeting package under the Consent Calendar from the City of Upland and San Antonio Water Company (SAWCO) which were actually pulled from the Consent Calendar by each Pool. Ms. Maurizio stated these applications were discussed thoroughly. Ms. Maurizio stated the Appropriative and Non-Agricultural Pools deferred the item. Ms. Maurizio stated the Appropriative Pool requested staff to review all Storage Agreement requests that have been received to date, going back to the Peace agreement, directed staff to have a Material Physical Injury Analysis done on them, and to review where we are with regard to the cap and how all the agreements fit into that cap. Ms. Maurizio stated the Non-Agricultural Pool deferred this item pending action from the Appropriative Pool. Ms. Maurizio stated the Agricultural Pool took a separate direction and decided to move forward the Applications for Recharge, not the Storage Agreement portion, only the Recharge Application section. Ms. Maurizio stated this issue has been out there for at least fourteen years that she has been able to track down and has remained unresolved. Mr. Vanden Heuvel stated if there are representatives here today from the City of Upland or San Antonio Water Company to offer comment on this matter, he would like to hear from them. Mr. Vanden Heuvel stated he would like to know whether the failure of passing these applications is going to cause the Chino Basin to lose any opportunity for supplemental water because of the failure of the Watermaster to process these applications. Ms. Hoerning stated the City of Upland does have immediate recharge needs. Ms. Hoerning noted SAWCO was replenishing some water and was taking it through the City of Upland's system and recharging it into Upland Basin. Ms. Hoerning stated SAWCO had a prior arrangement with the Chino Basin Watermaster to do that. Ms. Hoerning stated it is important for us because we made a \$22M investment in the construction of the Upland Basin. Ms. Hoerning offered further commented on the construction of the Upland Basin and this matter. Ms. Hoerning stated the City of Upland does not want to delay this action as expressed at the last Appropriative Pool meeting. Mr. Vanden Heuvel stated what he heard from Ms. Hoerning is that a month delay would not hurt and noted that was the concern of the Agricultural Pool. Mr. Vanden Heuvel stated the Agricultural Pool inquired at their meeting to staff about the process to get to a decision, and there was not really a defined process for this which is why the Agricultural Pool made the motion they did. Mr. Vanden Heuvel stated the other item the Agricultural Pool asked staff for was to come back in a month with a plan on how this is going to get resolved. Mr. Vanden Heuvel offered further comment on this matter and noted this is a very important issue that needs attention that gives us some policy clarity so that parties know what the rules are and they can then act appropriately. Ms. Hoerning offered further comment on the Upland Basin and asked that this process not be a several month process review. Counsel Slater stated the concept is correct, the overall articulation that the Watermaster process did set aside quantities for local supplemental for storage and recovery, and there were policy considerations that went into that specific allocation. Counsel Slater stated water has accumulated in the storage accounts and staff, since midsummer, has had the accounting issue of categorization of water into which accounts, and the overarching policy issue to be addressed. Counsel Slater stated the Appropriative Pool has expressed a strong desire to get together with staff on an urgent basis to get a handle on this matter and to come forward with some recommendation on how to address this issue. Counsel Slater stated, given the changeover we had in the CEO position, that this is a very important issue, and

the Appropriative Pool expects to work with staff in the next 60 days to get to the accounting question which has a bearing on what the City of Upland is trying to accomplish. Mr. Vanden Heuvel noted there is nothing in front of this Board to take action on and he urged staff if there is a way to give SAWCO and the City of Upland what they are asking for, and if there is no harm in what they are doing, we should not stand in their way and facilitate that. Counsel Slater stated there is no prohibition on recharge, it is the storage; Watermaster can proceed to have a Recharge Agreement with a party and its only condition is the finding by the Board that no material physical harm will result. Counsel Slater stated it is the second element, which is if it can be safely recovered and held in a storage account, which requires an application. Counsel Slater stated the question that Wildermuth Environmental and Watermaster would have to answer is, is our capacity full, given the directive of maintaining hydraulic control. Counsel Slater stated if that is not the case, then the Board's authorization merely stacks more water on top of the other water; we have to come up with a more global solution to address this issue. Counsel Slater stated he believes it could be done with the understanding that if there could be some form of conditioning that they would understand that if Watermaster had developed a policy to deal with excess water in storage, that they are going to be held accountable and treated in the same fashion that everybody else is. Counsel Slater stated we are all on notice that the capacity may be limited. Mr. Vanden Heuvel offered comment on capacity, hydraulic control, and this matter. Counsel Slater stated there is a legal limitation on a category and to the extent the category could be exceeded, because we don't know and don't have an accounting that we can trust at the moment, that if we are going to stack additional water into the pool, there needs to be a set of rules that take into account when the accounting is complete it's dealt with equitably and on the same basis as the other water is treated, or differently if it is decided and agreed upon. Ms. Maurizio stated the material physical injury analysis is not just how it affects hydraulic control, it is also with regard to the type of water that the City of Upland wants to recharge; they want to recharge recycled water so an analysis needs to be done. Ms. Hoerning stated recycled water would happen out in the future and if the Storage Agreement or the Recharge Application needs to be caveated such that the appropriate studies are done and conducted before that type of water is recharged within the Upland Basin that would be acceptable to the City of Upland. Ms. Hoerning thanked Mr. Vanden Heuvel for his support and comments on behalf of the City of Upland's interest in bringing water to the Chino Basin using the Upland Basin facility. Ms. Lantz stated it appears a Recharge Agreement can be approved once this finding takes place and leave the storage component in abeyance until some of the other things are addressed. Ms. Lantz inquired as to how long it will take to do the material physical injury analysis. Ms. Maurizio stated Wildermuth Environmental will perform that analysis, and staff is working to try and have them completed by next month. A discussion regarding timeframes, process for Recharge Applications, and this matter ensued. Mr. Hofer commented on the value of water and the need for a sense of urgency when it comes to water being available. Counsel Slater stated counsel understands the desire and will work with staff to figure out a way to legally do it consistent with the process protections that the stakeholder's desire.

7. Mailing of Archibald South Plume Water Quality Results

Ms. Maurizio stated this item was a Business Item on the Agricultural Pool agenda this month. Ms. Maurizio stated Watermaster staff has been doing quite a lot of sampling around the Archibald South Plume and, while staff has been out there, there have been multiple requests from the owners and the users to receive their data. Ms. Maurizio stated staff discussed with the Agricultural Pool how that data would be transmitted. Ms. Maurizio stated the Agricultural Pool directed staff to send the information to both the owners and users, including all of the water quality results. Mr. Elie stated he would like to also see the results. Ms. Maurizio explained past practice on releasing water quality data information. Mr. Elie stated the format described would be fine for him to see. Ms. Maurizio stated she can put that format together and give a report on it next month. It was noted with the information is already going to the Regional Board; this is now public information anyway.

8. Annual and Election Meetings for January, 2012 Reminder

Ms. Maurizio stated this is a reminder that the annual meetings will be in January, 2012 where the elections take place, and the dates are listed in the Future Meetings section of the agenda. Ms. Maurizio reminded the parties that the Board meeting has moved up a week to December 15, 2011 to accommodate the upcoming holiday. Ms. Maurizio stated on that day there will also be a Land Subsidence Committee meeting at 8:00 a.m., and a workshop has been added for the review of 2011 Groundwater Production & Replenishment Projections at 1:30 p.m. Ms. Maurizio stated we are having a special lunch in honor of Chair Willis today for those of you who can stay to join us.

**IV. INFORMATION**

1. Cash Disbursements for November 2011

No comment was made.

2. Newspaper Articles

No comment was made.

**V. COMMITTEE MEMBER COMMENTS**

Mr. Haughey thanked the Board for the last two years and noted that everybody has been so congenial to him, and that it has been quite a learning experience for him. Mr. Haughey stated all council members for all the cities who participate here should take Watermaster 101 education and attend a few Watermaster meetings to see what happens here and how it really affects parties in the region. Mr. Haughey stated he will be watching the water issues more closely from now on from his knowledge he has gained over the past two years of experience here.

Mr. Feenstra thanked Chair Willis for his past six years of service. Mr. Feenstra referred to Chair Willis as the "calm silent giant" for the past six years. Mr. Feenstra stated Chair Willis stayed well in communications with the parties, chairs, and legal staff and applauded him for that effort. Mr. Feenstra thanked Chair Willis for being a great partner in basin management.

Mr. Vanden Heuvel addressed Chair Willis and thanked him for the leadership that he has been able to provide, and the confidence that he showed while making this Board better by his leadership. Mr. Vanden Heuvel stated for a chair to serve six straight consecutive years gave Watermaster some continuity that has not been enjoyed at the Watermaster prior, and maybe even never again. Mr. Vanden Heuvel stated Chair Willis was a great leader and has become a great friend, and thanked him again.

Mr. Kuhn stated this last year has been an interesting learning experience for us all. Mr. Kuhn stated Ms. Maurizio and him have become better friends after Mr. Manning left. Mr. Kuhn stated it has been a challenge for staff over this last year and he, as an individual as well as all Board members, want to thank Chair Willis and the rest of the Watermaster staff for stepping up, in addition to Chair Willis' leadership. Mr. Kuhn thanked Chair Willis again and asked that the rest of Watermaster staff be thanked as well.

Chair Willis stated he has a high respect for everybody involved here at Watermaster and noted there are a lot of very fine professionals within this organization. Chair Willis thanked Watermaster staff for always being so helpful and gave a special thank you to Ms. Molino. Chair Willis stated as long as Watermaster has the level and quality of consultants as we do, we should be in good stead here and thanked Counsel Slater, Counsel Fife, and Mr. Wildermuth, and noted his great appreciation for them and their work.

**VI. OTHER BUSINESS**

No comment was made.

The regular open Watermaster Board meeting was convened to hold its confidential session at 12:20 p.m.

**VII. CONFIDENTIAL SESSION - POSSIBLE ACTION**

Pursuant to Article 2.6 of the Watermaster Rules & Regulations, a Confidential Session may be held during the Watermaster committee meeting for the purpose of discussion and possible action.

- 1. Personnel Matters

The confidential session concluded at 1:00 p.m.

**VIII. FUTURE MEETINGS**

Thursday, December 15, 2011	8:00 a.m.	Land Subsidence Committee Meeting @ CBWM
Thursday, December 15, 2011	9:00 a.m.	Advisory Committee Meeting @ CBWM
<b>* Thursday, December 15, 2011</b>	<b>11:00 a.m.</b>	<b>Watermaster Board Meeting @ CBWM</b>
Thursday, December 15, 2011	1:30 p.m.	Workshop for Review of 2011 Groundwater Production & Replenishment Projections
Thursday, January 12, 2012	9:00 a.m.	Annual & Election Appropriative Pool Meeting @ CBWM
Thursday, January 12, 2012	11:00 a.m.	Annual & Election Non-Agricultural Pool Conference Call Meeting – and at CBWM
Thursday, January 12, 2012	1:00 p.m.	Annual & Election Agricultural Pool Meeting @ CBWM
Thursday, January 19, 2012	8:00 a.m.	IEUA DYY Meeting @ CBWM
Thursday, January 19, 2012	9:00 a.m.	Annual & Election Advisory Committee Meeting @ CBWM
Thursday, January 26, 2012	11:00 a.m.	Annual & Election Watermaster Board Meeting @ CBWM

\* **Note:** Watermaster Board meeting date change due to the Christmas holiday

The Watermaster Board meeting was dismissed by Chair Willis at 1:01 p.m.

Secretary: \_\_\_\_\_

Minutes Approved: \_\_\_\_\_



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# CHINO BASIN WATERMASTER

## II. CONSENT CALENDAR

### **B. FINANCIAL REPORTS**

1. Cash Disbursements for the month of November 2011
2. Watermaster VISA Check Detail for the month of November 2011
3. Combining Schedule for the Period July 1, 2011 through November 30, 2011
4. Treasurer's Report of Financial Affairs for the Period November 1, 2011 through November 30, 2011
5. Budget vs. Actual Current Month, Year-To-Date, and Fiscal Year-End





# CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730  
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

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## STAFF REPORT

**DATE:** January 26, 2012  
**TO:** Board Members  
**SUBJECT:** Cash Disbursement Report – Financial Report B1

### SUMMARY

**Issue** – Record of cash disbursements for the month of November 2011.

**Recommendation** – Staff recommends the Cash Disbursements for November 2011 be received and filed as presented.

**Fiscal Impact** – Funds disbursed were included in the FY 2011-2012 Watermaster Budget.

### BACKGROUND

A monthly cash disbursement report is provided to keep all members apprised of Watermaster expenditures.

### DISCUSSION

Total cash disbursements during the month of November 2011 were \$4,155,940.20. The most significant expenditures during the month were to Inland Empire Utilities Agency in the amounts of \$1,407,265.14; \$1,225,687.42; \$783,275.27 (check number 15599 dated November 23, 2011; check number 15537 dated November 7, 2011; check number 15598 dated November 23, 2011) and Wildermuth Environmental, Inc. in the amount of \$201,840.81 (check number 15603 dated November 30, 2011).

### Actions:

January 12, 2012 Appropriative Pool – Approved unanimously  
January 12, 2012 Non-Agricultural Pool – Moved to receive and file  
January 12, 2012 Agricultural Pool – Approved unanimously  
January 19, 2012 Advisory Committee – Approved unanimously  
January 26, 2012 Watermaster Board –

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CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	11/07/2011	15537	INLAND EMPIRE UTILITIES AGENCY	90008537	1012 - Bank of America Gen'l Ckg	
Bill	09/30/2011	90008537		90008537	8456 - IEUA Readiness To Serve	552.90
				90008537	5011 - Replenishment Water	1,225,134.52
TOTAL						1,225,687.42
Bill Pmt -Check	11/09/2011	15538	ACWA	643	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2011	643		2012 Agency Dues	1433 - Prepaid Membership Dues	14,370.00
TOTAL						14,370.00
Bill Pmt -Check	11/09/2011	15539	APPLIED COMPUTER TECHNOLOGIES	2032	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2011	2032		Database Services - October 2011	6052.2 - Applied Computer Technol	2,415.00
TOTAL						2,415.00
Bill Pmt -Check	11/09/2011	15540	ARROWHEAD MOUNTAIN SPRING WATER	0023230253	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2011	0023230253		Office Water Bottle - October 2011	6031.7 - Other Office Supplies	26.69
TOTAL						26.69
Bill Pmt -Check	11/09/2011	15541	BOWCOCK, ROBERT	10/20/11 Advisory Committee Meeting	1012 - Bank of America Gen'l Ckg	
Bill	10/20/2011	10/20 Advisory Comm		10/20/11 Advisory Committee Meeting	6311 - Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	11/09/2011	15542	CHINO HILLS, CITY OF*	2	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2011	2		Grd Level-Contract Svcs	7107.6 - Grd Level-Contract Svcs	4,669.50
TOTAL						4,669.50
Bill Pmt -Check	11/09/2011	15543	DIRECTV	019447404	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2011	019447404		Monthly Service for 10/19/11-11/18/11	6031.7 - Other Office Supplies	86.99
TOTAL						86.99
Bill Pmt -Check	11/09/2011	15544	HAUGHEY, TOM	10/27/2011 Board Meeting	1012 - Bank of America Gen'l Ckg	
Bill	10/27/2011	10/27 Board Mtg		10/27/11 Board Meeting	6311 - Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	11/09/2011	15545	HOGAN LOVELLS	2621508	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2011	2621508		Non-Ag Legal Services - September 2011	8567 - Non-Ag Legal Service	8,154.20
TOTAL						8,154.20
Bill Pmt -Check	11/09/2011	15546	KUHIN, BOB	10/05/11 Administrative Meeting	1012 - Bank of America Gen'l Ckg	
Bill	10/05/2011	10/05 Admin Mtg		10/12/11 Administrative Meeting	6311 - Board Member Compensation	125.00
Bill	10/12/2011	10/12 Admin Mtg		10/19/11 Administrative Meeting	6311 - Board Member Compensation	125.00
Bill	10/19/2011	10/19 Admin Mtg		10/20/11 Advisory Committee Meeting	6311 - Board Member Compensation	125.00
Bill	10/20/2011	10/20 Advisory Comm				125.00

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CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
November 2011

Type	Date	Numb	Name	Memo	Account	Paid Amount
Bill	10/26/2011	10/26 Admin Mtg		10/26/11 Administrative Meeting	6311 - Board Member Compensation	125.00
Bill	10/27/2011	10/27 Board Mtg		10/27/11 Board Meeting	6311 - Board Member Compensation	125.00
TOTAL						750.00
Bill Pmt -Check	11/09/2011	15547	LANTZ, PAULA	10/27/11 Board Meeting	1012 - Bank of America Gen'l Ckg	125.00
Bill	10/27/2011	10/27 Board Mtg		10/27/11 Board Meeting	6311 - Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	11/09/2011	16548	NORDBAK'S PROMOTIONAL PRODUCTS	102111	1012 - Bank of America Gen'l Ckg	68.59
Bill	10/31/2011	102111		Watermaster logo jacket for staff member	6154 - Uniforms	68.59
TOTAL						137.18
Bill Pmt -Check	11/09/2011	15549	PARK PLACE COMPUTER SOLUTIONS, INC.	456	1012 - Bank of America Gen'l Ckg	2,700.00
Bill	10/31/2011	456		IT Services - October 2011	6052.1 - Park Place Comp Solutn	2,700.00
TOTAL						5,400.00
Bill Pmt -Check	11/09/2011	15550	PAYCHEX	2011102700	1012 - Bank of America Gen'l Ckg	252.02
Bill	10/31/2011	2011102700		Payroll Processing Services - October 2011	6012 - Payroll Services	252.02
TOTAL						504.04
Bill Pmt -Check	11/09/2011	15551	PURCHASE POWER	8000909000168851	1012 - Bank of America Gen'l Ckg	35.86
Bill	10/31/2011	8000909000168851		Check for audit software- ACOPEB Software	6062 - Audit Services	35.86
				Check to WE Inc #15450	6042 - Postage - General	20.55
				Letters to potentially affected parties re desalter	7306 - PE335-Other Expense	564.50
				Check #15440 to IEUA	6042 - Postage - General	23.70
TOTAL						644.61
Bill Pmt -Check	11/09/2011	15552	STANDARD INSURANCE CO.	Policy # 00-640888-0009	1012 - Bank of America Gen'l Ckg	525.66
Bill	10/31/2011	006408880009		Insurance Premium-Policy # 00-640888-0009	60191 - Life & Disab.Ins Benefits	525.66
TOTAL						1,051.32
Bill Pmt -Check	11/09/2011	15553	UNITED HEALTHCARE	C0025643051	1012 - Bank of America Gen'l Ckg	355.62
Bill	10/31/2011	C0025643051		Dental Premium - October 2011	60182.2 - Dental & Vision Ins	355.62
TOTAL						711.24
Bill Pmt -Check	11/09/2011	15554	VANDEN HEUVEL, GEOFFREY	6311	1012 - Bank of America Gen'l Ckg	125.00
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	6311 - Board Member Compensation	125.00
Bill	10/27/2011	10/27 Board Mtg		10/27/11 Board Meeting	6311 - Board Member Compensation	125.00
Bill	10/28/2011	10/28 Court Hearing		10/28/11 Court Hearing	6311 - Board Member Compensation	125.00
TOTAL						375.00
General Journal	11/12/2011	11/12/2011	Payroll and Taxes for 10/30/11-11/12/11	Payroll and Taxes for 10/30/11-11/12/11	1012 - Bank of America Gen'l Ckg	11,878.00
				Payroll Taxes for 10/30/11-11/12/11	1012 - Bank of America Gen'l Ckg	11,878.00

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL				Direct Deposits for 10/30/11-11/12/11	1012 - Bank of America Gen'l Ckg	42,560.57
						54,438.57
Bill Pmt -Check	11/15/2011	15555	ACWA SERVICES CORPORATION	00198	1012 - Bank of America Gen'l Ckg	136.40
Bill	11/09/2011	00198		Prepayment - December 2011	1409 - Prepaid Life, BAD&D & LTD	121.73
				Insurance Premium - November 2011	60191 - Life & Disab.lns Benefits	258.13
TOTAL						2,805.62
Bill Pmt -Check	11/15/2011	15556	CITISTREET	Payroll and Taxes for 10/16/11-10/29/11	1012 - Bank of America Gen'l Ckg	2,805.62
General Journal	10/29/2011	10/29/2011	CITISTREET	457 Deferred Comp for 10/16/11-10/29/11	2000 - Accounts Payable	2,805.62
TOTAL						62.50
Bill Pmt -Check	11/15/2011	15557	CORELOGIC INFORMATION SOLUTIONS	80337952	1012 - Bank of America Gen'l Ckg	62.50
Bill	10/31/2011	80337952		80337952	7103.7 - Grdwtr Qual-Computer Svc	62.50
				80337952	7101.4 - Prod Monitor-Computer	125.00
TOTAL						227.50
Bill Pmt -Check	11/15/2011	15558	DC LAW	15289	1012 - Bank of America Gen'l Ckg	227.50
Bill	10/31/2011	15289		Ag Pool Legal Services	8467 - Ag Legal & Technical Services	227.50
TOTAL						2,788.53
Bill Pmt -Check	11/15/2011	15559	GREAT AMERICA LEASING CORP.	11520233	1012 - Bank of America Gen'l Ckg	354.29
Bill	10/31/2011	11520233		Monthly Lease	6043.1 - Ricoh Lease Fee	1,011.82
				Usage for Black Copies	6043.2 - Ricoh Usage & Maintenance Fee	4,154.64
				Usage for Color Copies	6043.2 - Ricoh Usage & Maintenance Fee	
TOTAL						865.00
Bill Pmt -Check	11/15/2011	15560	GUARANTEED JANITORIAL SERVICE, INC.	28755	1012 - Bank of America Gen'l Ckg	865.00
Bill	11/01/2011	28755		Service - November 2011	6024 - Building Repair & Maintenance	865.00
TOTAL						620.44
Bill Pmt -Check	11/15/2011	15561	HSBC BUSINESS SOLUTIONS	7003-7309-1000-2744	1012 - Bank of America Gen'l Ckg	620.44
Bill	10/31/2011	7003730910002744		Miscellaneous office supplies	6031.7 - Other Office Supplies	620.44
TOTAL						128.00
Bill Pmt -Check	11/15/2011	15562	IAAP	93902097	1012 - Bank of America Gen'l Ckg	128.00
Bill	11/02/2011	93902097		Annual dues for J. Wilson IAAP membership	6111 - Membership Dues	128.00
TOTAL						810.00
Bill Pmt -Check	11/15/2011	15563	JAMES JOHNSTON	245	1012 - Bank of America Gen'l Ckg	810.00
Bill	10/31/2011	245		Website Services - October 2011	6052.3 - Website Consulting	810.00
TOTAL						

CHINO BASIN WATERMASTER  
 Cash Disbursements For The Month of  
 November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	11/15/2011	15564	PAUL HASTINGS LLP	1898131 / 1900696	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2011	1898131 / 1900696		Ag Pool Legal Services - September 2011	8467 - Ag Legal & Technical Services	7,288.73
				Ag Pool Legal Services - October 2011	8467 - Ag Legal & Technical Services	7,900.00
<b>TOTAL</b>						<b>15,188.73</b>
Bill Pmt -Check	11/15/2011	15565	PREMIERE GLOBAL SERVICES	09656040	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2011	09656040		CDA calls 9/28, 10/12, 10/17, 10/19, & 10/26	7305 - PE385-Supplies	506.92
				Appropriative pool agenda call on 10/04	8312 - Meeting Expenses	10.16
				Ag pool agenda call on 10/04	8412 - Meeting Expenses	10.16
				Non ag pool agenda call on 10/04	8512 - Meeting Expense	10.16
				Non ag pool meeting call on 10/13	8512 - Meeting Expense	161.68
				Preemptive replenishment call on 10/14	6909.1 - OBMP Meetings	52.69
				Monthly and service fees	6022 - Telephone	32.68
<b>TOTAL</b>						<b>784.45</b>
Bill Pmt -Check	11/15/2011	15566	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 - Bank of America Gen'l Ckg	
General Journal	10/29/2011	10/29/2011		CalPERS retirement for 10/16/11-10/29/11	2000 - Accounts Payable	8,134.25
<b>TOTAL</b>						<b>8,134.25</b>
Bill Pmt -Check	11/15/2011	15567	QUILL	7539095	1012 - Bank of America Gen'l Ckg	
Bill	10/29/2011	7539095		5 packs of refill paper for minute books	6031.7 - Other Office Supplies	245.08
<b>TOTAL</b>						<b>245.08</b>
Bill Pmt -Check	11/15/2011	15568	SAFEGUARD DENTAL & VISION	4028166	1012 - Bank of America Gen'l Ckg	
Bill	11/09/2011	4028166		Dental premium - November 2011	60182.2 - Dental & Vision Ins	7.91
<b>TOTAL</b>						<b>7.91</b>
Bill Pmt -Check	11/15/2011	15569	SAN BERNARDINO COUNTY FLOOD CONTROL F C 082/12	FC 082/12	1012 - Bank of America Gen'l Ckg	
Bill	11/02/2011	FC 082/12		San Sevaline Channel Reconstruction Project	7207 - Comp Recharge-Other	187,492.20
<b>TOTAL</b>						<b>187,492.20</b>
Bill Pmt -Check	11/15/2011	15570	STAPLES BUSINESS ADVANTAGE	802006876	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2011	802006876		Copy paper	6031.1 - Copy Paper	367.92
				Binders	6031.7 - Other Office Supplies	261.08
<b>TOTAL</b>						<b>629.00</b>
Bill Pmt -Check	11/15/2011	15571	STATE WATER RESOURCES CONTROL BOARD DIV	Water Rights Fee A028473	1012 - Bank of America Gen'l Ckg	
Bill	11/09/2011	A028473		Water Rights Fee A028996	7205 - Comp Recharge-Other Expense	899.50
Bill	11/09/2011	A028996		Water Rights Fee A031369	7205 - Comp Recharge-Other Expense	1,499.50
Bill	11/09/2011	A031369			7205 - Comp Recharge-Other Expense	3,574.50
<b>TOTAL</b>						<b>5,973.50</b>
Bill Pmt -Check	11/15/2011	15572	THE LAWTON GROUP	6017	1012 - Bank of America Gen'l Ckg	



CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	10/23/2011	1VC070000017701		Week ending 10/23/11	6017 - Temporary Services	824.00
Bill	10/31/2011	1VC070000017732		Week ending 10/30/11	6017 - Temporary Services	659.20
<b>TOTAL</b>						<b>1,483.20</b>
Bill Pmt -Check	11/15/2011	15573	UNION 76	300-732-989	1012 - Bank of America Gen'l Ckg	190.78
Bill	10/31/2011	300732989		Fuel costs - October 2011	6175 - Vehicle Fuel	190.78
<b>TOTAL</b>						<b>381.56</b>
Bill Pmt -Check	11/15/2011	15574	VERIZON	012519116950792103	1012 - Bank of America Gen'l Ckg	556.24
Bill	10/31/2011	012519116950792103			6022 - Telephone	167.20
Bill	10/31/2011	012561121521714508		012561121521714508	7405 - PE4-Other Expense	723.44
<b>TOTAL</b>						<b>1446.88</b>
Bill Pmt -Check	11/15/2011	15575	WESTERN DENTAL SERVICES, INC.	002483	1012 - Bank of America Gen'l Ckg	28.88
Bill	11/09/2011	002483		Dental premium - December 2011	60182.2 - Dental & Vision Ins	28.88
<b>TOTAL</b>						<b>57.76</b>
Bill Pmt -Check	11/15/2011	15576	YUKON DISPOSAL SERVICE	08-K2 213849	1012 - Bank of America Gen'l Ckg	106.53
Bill	11/03/2011	08-K2 213849		Disposal service for November 2011	6024 - Building Repair & Maintenance	106.53
<b>TOTAL</b>						<b>213.06</b>
Bill Pmt -Check	11/15/2011	15577	DE BOOM, NATHAN	AG Pool Member Meeting Compensation	1012 - Bank of America Gen'l Ckg	25.00
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	8411 - Compensation	25.00
Bill	10/13/2011	10/13 Ag Pool Mtg		AG Pool Member Meeting Compensation	8470 - Ag Meeting Attend -Special	100.00
<b>TOTAL</b>						<b>150.00</b>
Bill Pmt -Check	11/15/2011	15578	DURRINGTON, GLEN	AG POOL MEMBER COMPENSATION	1012 - Bank of America Gen'l Ckg	25.00
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	8411 - Compensation	25.00
Bill	10/13/2011	10/13 Ag Pool Mtg		AG Pool Member Meeting Compensation	8470 - Ag Meeting Attend -Special	100.00
<b>TOTAL</b>						<b>150.00</b>
Bill Pmt -Check	11/15/2011	15579	FEENSTRA, BOB	AG Pool Member Meeting Compensation	1012 - Bank of America Gen'l Ckg	125.00
Bill	10/12/2011	10/12 Ontario Mtg		10/12/11 Ontario Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	10/12/2011	10/12 CDA Mtg		10/12/11 CDA Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	10/13/2011	10/13 CDA Mtg		10/13/11 CDA Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	10/20/2011	10/20 Advisory Comm		10/20/11 Advisory Committee Meeting	8470 - Ag Meeting Attend -Special	125.00
<b>TOTAL</b>						<b>625.00</b>
Bill Pmt -Check	11/15/2011	15580	HALL, PETE	AG Pool Member Meeting Compensation	1012 - Bank of America Gen'l Ckg	125.00
Bill	10/20/2011	10/20 Advisory Comm		10/20/11 Advisory Committee Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	10/27/2011	10/27 Board Mtg		10/27/11 Board Meeting	8470 - Ag Meeting Attend -Special	125.00
<b>TOTAL</b>						<b>375.00</b>

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	11/15/2011	15581	HUITSING, JOHN	Ag Pool Member Compensation	1012 - Bank of America Gen'l Ckg	125.00
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	8470 - Ag Meeting Attend -Special	125.00
TOTAL						250.00
Bill Pmt -Check	11/15/2011	15582	KOOPMAN, GENE	AG Pool Member Meeting Compensation	1012 - Bank of America Gen'l Ckg	25.00
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	8411 - Compensation	100.00
				AG Pool Member Meeting Compensation	8470 - Ag Meeting Attend -Special	125.00
TOTAL						250.00
Bill Pmt -Check	11/15/2011	15583	PIERSON, JEFFREY	AG Pool Member Meeting Compensation	1012 - Bank of America Gen'l Ckg	125.00
Bill	10/12/2011	10/12 Ontario Mtg		10/12/11 Ontario Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	10/12/2011	10/12 CDA Mtg		10/12/11 CDA Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	10/13/2011	10/13 Ag Pool Mtg		10/13/11 Ag Pool Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	10/13/2011	10/13 CDA Mtg		10/13/11 CDA Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	10/20/2011	10/20 Advisory Comm		10/20/11 Advisory Committee Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	10/27/2011	10/27 Board Mtg		10/27/11 Board Meeting	8470 - Ag Meeting Attend -Special	125.00
TOTAL						750.00
Bill Pmt -Check	11/16/2011	15584	ALVAREZ, DESI	Travel Expense Reimbursement	1012 - Bank of America Gen'l Ckg	38.00
Bill	10/31/2011			Parking-MWD Workgroup - 9/26, 10/11, & 10/17	6909.1 - OBMP Meetings	38.00
TOTAL						76.00
Bill Pmt -Check	11/16/2011	15585	CUCAMONGA VALLEY WATER DISTRICT	Lease Due December 1, 2011	1012 - Bank of America Gen'l Ckg	5,984.00
Bill	11/15/2011			Lease Due December 1, 2011	1422 - Prepaid Rent	5,984.00
TOTAL						11,968.00
Bill Pmt -Check	11/16/2011	15586	GRAINGER	9681299310	1012 - Bank of America Gen'l Ckg	210.30
Bill	11/08/2011	9681299310		9681299310	7103.6 - Grdwtr Qual-Supplies	210.30
TOTAL						420.60
Bill Pmt -Check	11/16/2011	15587	MCCALL'S METER SALES & SERVICE	21571	1012 - Bank of America Gen'l Ckg	1,800.00
Bill	10/24/2011	21571		21571	7102.8 - In-line Meter-Callib & Test	150.00
				21571	7102.5 - In-line Meter-Computer	1,950.00
TOTAL						3,900.00
Bill Pmt -Check	11/16/2011	15588	MWH LABORATORIES	L0072489 - PE6&7-Contract Svcs (Plume)	1012 - Bank of America Gen'l Ckg	2,074.00
Bill	10/26/2011	L0072489		L0071783 - PE6&7-Contract Svcs (Plume)	7503 - PE6&7-Contract Svcs (Plume)	888.00
Bill	10/31/2011	L0071783		L0071811 - PE6&7-Contract Svcs (Plume)	7503 - PE6&7-Contract Svcs (Plume)	1,456.00
Bill	10/31/2011	L0071811			7503 - PE6&7-Contract Svcs (Plume)	4,368.00
TOTAL						8,786.00
Bill Pmt -Check	11/16/2011	15589	STAULA, MARY L	Retiree Medical - CalPERS	1012 - Bank of America Gen'l Ckg	

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CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	11/30/2011				60182.4 · Retiree Medical	136.61
TOTAL						136.61
Bill Pmt -Check	11/16/2011	15590	TELECOM SERVICES	5452	1012 · Bank of America Gen'l Ckg	125.00
Bill	11/10/2011	5452		Make changes to voice-mail system	6022 · Telephone	125.00
TOTAL						250.00
Bill Pmt -Check	11/16/2011	15591	THE LAWTON GROUP	6017	1012 · Bank of America Gen'l Ckg	659.20
Bill	11/06/2011	1VC070000017765		Week ending 11/06/11	6017 · Temporary Services	659.20
TOTAL						1,318.40
Bill Pmt -Check	11/16/2011	15592	VERIZON BUSINESS	61416334	1012 · Bank of America Gen'l Ckg	1,545.23
Bill	11/10/2011	61416334		Service period 12/01/11 -12/31/11	6053 · Internet Expense	1,545.23
TOTAL						3,090.46
Bill Pmt -Check	11/16/2011	15593	VERIZON WIRELESS	1027597499	1012 · Bank of America Gen'l Ckg	382.86
Bill	11/10/2011	1027597499		Monthly service	6022 · Telephone	382.86
TOTAL						765.72
Bill Pmt -Check	11/17/2011	15594	CALIFORNIA WATER AWARENESS CAMPAIGN	643	1012 · Bank of America Gen'l Ckg	375.00
Bill	10/24/2011	643		2012 California Water Awareness Campaign	6500 · Education Funds Use Expens	375.00
TOTAL						750.00
Bill Pmt -Check	11/18/2011	15595	CITISTREET		1012 · Bank of America Gen'l Ckg	2,805.62
General Journal	11/12/2011	11/12/2011		Payroll and Taxes for 10/30/11-11/12/11	2000 · Accounts Payable	2,805.62
TOTAL						5,611.24
Bill Pmt -Check	11/18/2011	15596	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	8,357.23
General Journal	11/12/2011	11/12/2011		CalPERS retirement for 10/30/11-11/12/11	2000 · Accounts Payable	8,357.23
TOTAL						16,714.46
Bill Pmt -Check	11/18/2011	15597	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	3,626.41
General Journal	11/12/2011	11/12/2011		CalPERS retirement for 10/30/11-11/12/11	2000 · Accounts Payable	3,626.41
TOTAL						7,252.82
Bill Pmt -Check	11/23/2011	15598	INLAND EMPIRE UTILITIES AGENCY	900089537-2	1012 · Bank of America Gen'l Ckg	100,629.87
Bill	09/30/2011	900089537-2			1420 · Prepaid Injected Water Purchase	100,629.87
					1420 · Prepaid Injected Water Purchase	133,344.60
					5011 · Replenishment Water	549,300.80
TOTAL						783,275.27
Bill Pmt -Check	11/23/2011	15599	INLAND EMPIRE UTILITIES AGENCY	900089537-1	1012 · Bank of America Gen'l Ckg	1,407,265.14
Bill	09/30/2011	900089537-1			5011 · Replenishment Water	1,407,265.14
TOTAL						2,814,530.28

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
<b>TOTAL</b>						1,407,265.14
General Journal	11/26/2011	11/26/2011	Payroll and Taxes for 11/13/11-11/26/11	Payroll and Taxes for 11/13/11-11/26/11	1012 - Bank of America Gen'l Ckg	
			Payroll Taxes for 11/13/11-11/26/11	Payroll Taxes for 11/13/11-11/26/11	1012 - Bank of America Gen'l Ckg	8,732.06
			Direct Deposits for 11/13/11-11/26/11	Direct Deposits for 11/13/11-11/26/11	1012 - Bank of America Gen'l Ckg	26,589.06
<b>TOTAL</b>						35,321.12
Bill Pmt -Check	11/30/2011	15600	BROWNSTEIN HYATT FARBER SCHRECK	443939 - BHFS Legal - Appropriative Pool	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2011	443939		443939 - BHFS Legal - Agricultural Pool	8375 - BHFS Legal - Appropriative Pool	1,729.20
				443939 - BHFS Legal - Non-Ag Pool	8475 - BHFS Legal - Agricultural Pool	1,939.80
				443939 - BHFS Legal - Advisory Committee	8575 - BHFS Legal - Non-Ag Pool	2,440.20
				443939 - BHFS Legal - Board Meeting	6275 - BHFS Legal - Advisory Committee	3,021.75
				443939 - BHFS Legal - Restated Judgment	6375 - BHFS Legal - Board Meeting	8,032.30
				443939 - BHFS Legal - Personnel Matters	6072 - BHFS Legal - Restated Judgment	1,525.05
				443939 - BHFS Legal - Interagency issues	6073 - BHFS Legal - Personnel Matters	1,053.00
				443939 - BHFS Legal - Replenishmnt Water	6074 - BHFS Legal - Interagency Issues	2,878.65
				443939 - BHFS Legal - Miscellaneous	6075 - BHFS Legal - Replenishmnt Water	10,863.90
				443939 - BHFS Legal - Miscellaneous	6078 - BHFS Legal - Miscellaneous	2,089.70
				443939 - Paragraph 31 Motion	6078 - BHFS Legal - Miscellaneous	5,019.47
				443940 - Santa Ana River Water Rights	6907.35 - Paragraph 31 Motion	1,537.65
				443941 - Desalter Negotiations	6907.34 - Santa Ana River Water Rights	1,045.37
				443942 - Paragraph 31 Motion	6907.33 - Desalter Negotiations	18,560.99
				443943 - Santa Ana River Habitat	6907.35 - Paragraph 31 Motion	2,787.76
<b>TOTAL</b>						113.88
						64,648.67
Bill Pmt -Check	11/30/2011	15601	MWH LABORATORIES	L0068025	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2011	L0068025		L0068026	7108.4 - Hydraulic Control-Lab Svcs	615.00
				L0068110	7108.4 - Hydraulic Control-Lab Svcs	2,065.00
				L0068108	7108.4 - Hydraulic Control-Lab Svcs	2,042.00
				L0069299	7108.4 - Hydraulic Control-Lab Svcs	2,065.00
				L0070049	7108.4 - Hydraulic Control-Lab Svcs	2,065.00
				L0070050	7108.4 - Hydraulic Control-Lab Svcs	2,065.00
				L0070714	7108.4 - Hydraulic Control-Lab Svcs	615.00
				L0071833	7108.4 - Hydraulic Control-Lab Svcs	2,065.00
				L0070666	7108.4 - Hydraulic Control-Lab Svcs	2,065.00
				L0070717	7108.4 - Hydraulic Control-Lab Svcs	615.00
				L0071812	7108.4 - Hydraulic Control-Lab Svcs	1,332.00
				L0071813	7108.4 - Hydraulic Control-Lab Svcs	2,135.00
				L0071815	7108.4 - Hydraulic Control-Lab Svcs	2,065.00
				L0071818	7108.4 - Hydraulic Control-Lab Svcs	615.00
<b>TOTAL</b>						1,770.00
						24,194.00

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	11/30/2011	15602	RAUCH COMMUNICATION CONSULTANTS, LLC	Nov-1106	1012 - Bank of America Gen'l Ckg	1,290.00
Bill	11/18/2011	Nov-1106		Progress billing - Annual Report	6061.3 - Rauch	1,290.00
<b>TOTAL</b>						
Bill Pmt -Check	11/30/2011	15603	WILDERMUTH ENVIRONMENTAL INC		1012 - Bank of America Gen'l Ckg	10,262.50
Bill	10/31/2011	2011401		2011401 - Grd Level-Engineering	7107.2 - Grd Level-Engineering	10,262.50
Bill	10/31/2011	2011402		2011402 - OBMP - Watermaster Model Update	6906.1 - OBMP - Watermaster Model Update	34,494.83
Bill	10/31/2011	2011403		2011403 - OBMP Engineering Services	6906 - OBMP Engineering Services	13,266.57
Bill	10/31/2011	2011404		2011404 - OBMP Engineering Services	6906 - OBMP Engineering Services	1,363.75
Bill	10/31/2011	2011405		2011405 - OBMP Engineering Services	6906 - OBMP Engineering Services	7,686.93
Bill	10/31/2011	2011406		2011406 - OBMP Engineering Services	6906 - OBMP Engineering Services	6,596.06
Bill	10/31/2011	2011407		2011407 - Grdwtr Level-Engineering	7104.3 - Grdwtr Level-Engineering	16,238.98
Bill	10/31/2011	2011408		2011408 - Grdwtr Qual-Engineering	7103.3 - Grdwtr Qual-Engineering	13,122.02
Bill	10/31/2011	2011409		2011409 - Hydraulic Control-Engineering	7108.3 - Hydraulic Control-Engineering	4,743.75
Bill	10/31/2011	2011410		2011410 - Hydraulic Control-Engineering	7108.3 - Hydraulic Control-Engineering	2,834.50
Bill	10/31/2011	2011411		2011411 - Hydraulic Control-Engineering	7108.3 - Hydraulic Control-Engineering	11,090.98
Bill	10/31/2011	2011412		2011412 - Grd Level-Engineering	7107.2 - Grd Level-Engineering	25,072.04
Bill	10/31/2011	2011413		2011412 - Grd Level-Contract Svcs	7107.6 - Grd Level-Contract Svcs	32,042.17
Bill	10/31/2011	2011414		2011413 - PE3&5-Engineering	7303 - PE3&5-Engineering	4,537.50
Bill	10/31/2011	2011415		2011414 - PE4-Engineering	7402 - PE4-Engineering	887.50
Bill	10/31/2011	2011416		2011415 - OBMP Engineering Services	6906 - OBMP Engineering Services	2,326.25
Bill	10/31/2011	2011417		2011416 - Comp Recharge-Implementation	7202.3 - Comp Recharge-Implementation	14,112.59
Bill	10/31/2011	2011418		2011417 - OBMP Engineering Services	6906 - OBMP Engineering Services	113.14
Bill	10/31/2011	2011418		2011418 - OBMP Engineering Services	6906 - OBMP Engineering Services	918.75
<b>TOTAL</b>						
Bill Pmt -Check	11/30/2011	15604	ARROWHEAD MOUNTAIN SPRING WATER		1012 - Bank of America Gen'l Ckg	35.88
Bill	11/18/2011	023320255		Office Water Bottle - November 2011	6031.7 - Other Office Supplies	35.88
<b>TOTAL</b>						
Bill Pmt -Check	11/30/2011	15605	COMPUTER NETWORK		1012 - Bank of America Gen'l Ckg	65.00
Bill	11/23/2011	82883		Service/labor for workstation repair	6057 - Computer Maintenance	65.00
Bill	11/23/2011	82880		External hard drive	6055 - Computer Hardware	342.65
<b>TOTAL</b>						
Bill Pmt -Check	11/30/2011	15606	GROOMAN'S PUMP & WELL DRILLING, INC.		1012 - Bank of America Gen'l Ckg	425.00
Bill	11/19/2011	12905		12905	7103.4 - Grdwtr Qual-Contract Svc	425.00
Bill	11/19/2011	12903		12903	7102.7 - In-line Meter	279.39
<b>TOTAL</b>						
Bill Pmt -Check	11/30/2011	15607	LOS ANGELES TIMES		1012 - Bank of America Gen'l Ckg	374.15
Bill	11/18/2011	010006826943		Delivery service for 12/07/11-12/02/12	6112 - Subscriptions/Publications	374.15

CHINO BASIN WATERMASTER  
 Cash Disbursements For The Month of  
 November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						374.15
Bill Pmt -Check	11/30/2011	15608	SAN BERNARDINO COUNTY FLOOD CONTROL FC 089/12		1012 - Bank of America Gen'l Ckg	
Bill	11/28/2011	FC 089/12		San Sevaine Channel Reconstruction Project	7207 - Comp Recharge-Other	34,452.41
TOTAL						34,452.41
Bill Pmt -Check	11/30/2011	15609	STANDARD INSURANCE CO.	Policy # 00-640888-0009	1012 - Bank of America Gen'l Ckg	
Bill	11/28/2011	006408880009		Life/AD&D Premium - Policy # 00-640888-0009	60191 - Life & Disab.Ins Benefits	539.66
TOTAL						539.66
Bill Pmt -Check	11/30/2011	15610	STATE COMPENSATION INSURANCE FUND	1970970-11	1012 - Bank of America Gen'l Ckg	
Bill	11/28/2011	1970970-11		Workers Comp Premium - November 2011	60183 - Worker's Comp Insurance	1,413.45
TOTAL						1,413.45
Bill Pmt -Check	11/30/2011	15611	THE LAWTON GROUP	6017	1012 - Bank of America Gen'l Ckg	
Bill	11/13/2011	1VC 70000017798		Week ending 11/13/11	6017 - Temporary Services	824.00
TOTAL						824.00
Bill Pmt -Check	11/30/2011	15612	UNITED HEALTHCARE	0025982644	1012 - Bank of America Gen'l Ckg	
Bill	11/29/2011	0025982644		Dental premium - December 2011	60182.2 - Dental & Vision Ins	447.47
TOTAL						447.47
Bill Pmt -Check	11/30/2011	15613	VISION SERVICE PLAN	00-101789-0001	1012 - Bank of America Gen'l Ckg	
Bill	11/29/2011	001017890001		Vision premium - December 2011	60182.2 - Dental & Vision Ins	25.08
TOTAL						25.08
Bill Pmt -Check	11/30/2011	15614	CALPERS	1394905143	1012 - Bank of America Gen'l Ckg	
Bill	11/15/2011	1394905143		Medical premium - December 2011	60182.1 - Medical Insurance	5,526.03
TOTAL						5,526.03
Bill Pmt -Check	11/30/2011	15615	CUCAMONGA VALLEY IAAP	December 7, 2011 Cucamonga Valley IAAP Chapt	1012 - Bank of America Gen'l Ckg	
Bill	11/28/2011			Wilson & Molino- attend IAAP meeting	6192 - Training & Seminars	60.00
TOTAL						60.00
Bill Pmt -Check	11/30/2011	15616	DIRECTV	019447404	1012 - Bank of America Gen'l Ckg	
Bill	11/28/2011	019447404		Monthly service for 11/19/11-12/18/11	6031.7 - Other Office Supplies	86.99
TOTAL						86.99
Bill Pmt -Check	11/30/2011	15617	FEENSTRA, BOB	Reimbursement for Court Hearing Expenses	1012 - Bank of America Gen'l Ckg	
Bill	11/29/2011			Reimbursement-Oct. 28, 2011 Court expenses	8485 - Ag Pool - Misc. Expense-Ag Fund	99.34
TOTAL						99.34
Bill Pmt -Check	11/30/2011	15618	MCCALL'S METER SALES & SERVICE		1012 - Bank of America Gen'l Ckg	

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
November 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	11/03/2011	21633		21633	7102.8 - In-line Meter-Calib & Test	1,200.00
Bill	11/11/2011	21664		21664	7102.8 - In-line Meter-Calib & Test	1,250.00
TOTAL						2,450.00
Bill Pmt -Check	11/30/2011	15619	OFFICE DEPOT	566138773001 Plaque, post lts, paper pads	1012 - Bank of America Gen'l Ckg 6031.7 - Other Office Supplies	58.35
Bill	11/10/2011	566138773001				58.35
TOTAL						
Bill Pmt -Check	11/30/2011	15620	PAUL HASTINGS LLP	1904562 Ag Pool Legal Services - October 2011	1012 - Bank of America Gen'l Ckg 8467 - Ag Legal & Technical Services	8,746.25
Bill	10/31/2011	1904562				8,746.25
TOTAL						
Bill Pmt -Check	11/30/2011	15621	PRE-PAID LEGAL SERVICES, INC.	111802 Employee paid services - November 2011	1012 - Bank of America Gen'l Ckg 60194 - Other Employee Insurance	51.80
Bill	11/28/2011	111802				51.80
TOTAL						
Bill Pmt -Check	11/30/2011	15622	R&D PEST SERVICES	0149473 Monthly insect and pest treatment	1012 - Bank of America Gen'l Ckg 6024 - Building Repair & Maintenance	85.00
Bill	11/18/2011	0149473				85.00
TOTAL						
Bill Pmt -Check	11/30/2011	15623	STAPLES BUSINESS ADVANTAGE	8020205567 Copy paper	1012 - Bank of America Gen'l Ckg 6031.1 - Copy Paper	183.96
Bill	11/13/2011	8020205567		Tapes, pens, misc. expenses	6031.7 - Other Office Supplies	96.87
TOTAL						280.83
Bill Pmt -Check	11/30/2011	15624	THE LAWTON GROUP	6017 Week ending 11/20/11	1012 - Bank of America Gen'l Ckg 6017 - Temporary Services	824.00
Bill	11/29/2011	IVC070000017829				824.00
TOTAL						
General Journal	11/30/2011	11/30/2011	Wage Works Direct Debits - Nov. 2011	Wage Works Direct Debits - Nov. 2011	1012 - Bank of America Gen'l Ckg	495.40
			Wage Works Direct Debits - November 2011	Wage Works Direct Debits - November 2011	1012 - Bank of America Gen'l Ckg	495.40
			Wage Works Direct Debits - November 2011	Wage Works Direct Debits - November 2011	1012 - Bank of America Gen'l Ckg	76.25
			Wage Works Direct Debits - November 2011	Wage Works Direct Debits - November 2011	1012 - Bank of America Gen'l Ckg	1,067.05
TOTAL						4,155,940.20

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# CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730  
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

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## STAFF REPORT

**DATE:** January 26, 2012  
**TO:** Board Members  
**SUBJECT:** VISA Check Detail Report – Financial Report B2

### SUMMARY

**Issue** – Record of VISA credit card payment disbursed for the month of November 2011.

**Recommendation** – Staff recommends the VISA Check Detail Report for November 2011 be received and filed as presented.

**Fiscal Impact** – Funds disbursed were included in the FY 2011-2012 Watermaster Budget.

### BACKGROUND

A monthly VISA Check Detail report is provided to keep all members apprised of Watermaster expenditures charged against the CEO and/or CFO's Bank of America VISA card.

### DISCUSSION

Total cash disbursement during the month of November 2011 was \$0.00 due to a credit on the bill of (\$1,092.00) for a returned meter used by the field staff, which was originally purchased in August 2011. The monthly charges for November 2011 were for routine and customary expenditures and properly documented with receipts.

### Actions:

January 12, 2012 Appropriative Pool – Approved unanimously  
January 12, 2012 Non-Agricultural Pool – Moved to receive and file  
January 12, 2012 Agricultural Pool – Approved unanimously  
January 19, 2012 Advisory Committee – Approved unanimously  
January 26, 2012 Watermaster Board –

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CHINO BASIN WATERMASTER  
 VISA Check Detail Report  
 November 2011

Type	Num	Date	Name	Memo	Account
No payment to Bank of America for the VISA card in November due to a credit of (\$1,092.00) received for a returned purchase of equipment.					
		10/27/2011	Holiday Classis - Watermaster Christmas Cards		6031.7 - Other Office Supplies
		10/28/2011	GeoTech Env. Equipment, Inc.		7103.6 - Grdwtr Qual-Supplies
		10/29/2011	Ontario Panda Inn - Board Meeting		6312 - Meeting Expenses
					<b>Total Disbursements:</b>

CHINO BASIN WATERMASTER  
VISA Check Detail Report  
November 2011

**Paid Amount**

422.50
(1,092.00)
557.01
<u>(112.49)</u>



# CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730  
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

## STAFF REPORT

**DATE:** January 26, 2012  
**TO:** Board Members  
**SUBJECT:** Combining Schedule of Revenue, Expenses and Changes in Working Capital for the Period July 1, 2011 through November 30, 2011 - Financial Report B3

### SUMMARY

**Issue** – Record of Revenue, Expenses and Changes in Working Capital for the Period July 1, 2011 through November 30, 2011.

**Recommendation** – Staff recommends the Combining Schedule of Revenue, Expenses and Changes in Working Capital for the Period July 1, 2011 through November 30, 2011 be received and filed as presented.

**Fiscal Impact** – Funds disbursed were included in the FY 2011-2012 Watermaster Budget.

### BACKGROUND

A Combining Schedule of Revenue, Expenses and Changes in Working Capital for the period July 1, 2011 through November 30, 2011 is provided to keep all members apprised of the FY 2011/2012 cumulative Watermaster revenues, expenditures and changes in working capital for the period listed.

### DISCUSSION

The Combining Schedule of Revenue, Expenses and Changes in Working Capital has been created from various financial reports and statements created from QuickBooks Enterprise Solutions 9.0, the Watermaster accounting system. The Combining Schedule provided balances to the supporting documentation in the Watermaster accounting system as presented.

### Actions:

January 12, 2012 Appropriative Pool – Approved unanimously  
January 12, 2012 Non-Agricultural Pool – Moved to receive and file  
January 12, 2012 Agricultural Pool – Approved unanimously  
January 19, 2012 Advisory Committee – Approved unanimously  
January 26, 2012 Watermaster Board –

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CHINO BASIN WATERMASTER  
 COMBINING SCHEDULE OF REVENUE, EXPENSES AND CHANGES IN WORKING CAPITAL  
 FOR THE PERIOD JULY 1, 2011 THROUGH NOVEMBER 30, 2011

	WATERMASTER ADMINISTRATION	OPTIMUM BASIN MANAGEMENT	POOL ADMINISTRATION & SPECIAL PROJECTS		GROUNDWATER OPERATIONS		EDUCATION FUNDS	GRAND TOTALS	BUDGET 2011-2012
			APPROPRIATIVE POOL	AG POOL	NON-AG POOL	GROUNDWATER REPLENISHMENT			
Administrative Revenues:									
Administrative Assessments			4,820	456	182		1		\$6,097,177
Interest Revenue	405,777							5,458	150,010
Mutual Agency Project Revenue								405,777	411,000
Grant Income								-	0
Miscellaneous Income								-	0
Total Revenues	405,777		4,820	456	182		1	411,234	6,658,187
Administrative & Project Expenditures:									
Watermaster Administration	322,390							322,390	425,107
Watermaster Board-Advisory Committee	86,162							86,162	155,297
Ag Pool Misc. Expense - Ag Fund				99				99	-
Pool Administration			20,412	60,206	69,320			149,938	503,822
Optimum Basin Mgmt Administration		623,914						623,914	1,161,401
OBMP Project Costs		1,565,225						1,565,225	4,166,221
Debt Service		471,400						471,400	450,964
Education Funds Use							375	375	375
Mutual Agency Project Costs								-	10,000
Total Administrative/OBMP Expenses	408,553	2,660,539	20,412	60,206	69,320		375	3,219,504	6,873,187
Net Administrative/OBMP Expenses	(2,776)	(2,660,539)						-	-
Allocate Net Admin Expenses To Pools	2,776		1,909	772	95			-	-
Allocate Net OBMP Expenses To Pools		2,189,139	1,505,364	609,057	74,718			-	-
Allocate Debt Service to App Pool		471,400						-	-
Agricultural Expense Transfer*		670,035	(670,035)					-	-
Total Expenses	2,669,119		99	356	144,134		375	3,219,504	6,873,187
Net Administrative Income	(2,664,300)				(143,952)		(374)	(2,808,270)	(215,000)
Other Income/(Expense)									0
Replenishment Water Assessments						2,377,250		2,377,250	0
Non-Ag Stored Water Purchases						7		7	0
Interest Revenue									0
MWD Water Purchases						10,269,933		10,269,933	0
Non-Ag Stored Water Purchases						(2,377,250)		(2,377,250)	0
MWD Water Purchases						(10,269,932)		(10,269,932)	0
Groundwater Replenishment						(25,146)		(25,146)	0
Net Other Income/(Expense)						(25,138)		(25,138)	0
Net Transfers To/(From) Reserves	(2,833,407)		(2,664,300)	356	(143,952)	(25,138)	(374)	(2,833,407)	(215,000)
Working Capital, July 1, 2011			6,922,600	475,807	282,721	21,928	630	7,861,937	
Working Capital, End Of Period			4,258,301	476,163	138,769	(3,209)	255	5,028,530	5,028,530
09/10 Assessable Production			78,733,238	31,854,766	3,907,911			114,495,915	
09/10 Production Percentages			68.765%	27.822%	3.413%			100.000%	

\*Fund balance transfer as agreed to in the Peace Agreement.

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# CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730  
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

## STAFF REPORT

**DATE:** January 26, 2012  
**TO:** Board Members  
**SUBJECT:** Treasurer's Report of Financial Affairs for the Period November 1, 2011 through November 30, 2011 - Financial Report B4

### SUMMARY

**Issue** – Record of increases or decreases in the cash position, assets and liabilities of Watermaster for the Period of November 1, 2011 through November 30, 2011.

**Recommendation** – Staff recommends the Treasurer's Report of Financial Affairs for the Period November 1, 2011 through November 30, 2011 be received and filed as presented.

**Fiscal Impact** – Funds disbursed were included in the FY 2011-2012 Watermaster Budget.

### BACKGROUND

A Treasurer's Report of Financial Affairs for the Period November 1, 2011 through November 30, 2011 is provided to keep all members apprised of the total cash in banks (Bank of America and LAIF) and on hand at the Watermaster office (petty cash) at the end of the period stated. The Treasurer's Report details the change (increase or decrease) in the overall cash position of Watermaster, as well as the changes (increase or decrease) to the assets and liabilities section of the balance sheet. The report also provides a detailed listing of all deposits and/or withdrawals in the California State Treasurer's Local Agency Investment Fund (LAIF), the most current effective yield as of the last quarter, and the ending balance in LAIF as of the reporting date.

### DISCUSSION

The Treasurer's Report of Financial Affairs has been created from various financial reports and statements created from QuickBooks Enterprise Solutions 9.0, the Watermaster accounting system. The Treasurer's Report provided, balances to the supporting documentation in the Watermaster accounting system, as well as the supporting bank statements.

### Actions:

January 12, 2012 Appropriative Pool – Approved unanimously  
January 12, 2012 Non-Agricultural Pool – Moved to receive and file  
January 12, 2012 Agricultural Pool – Approved unanimously  
January 19, 2012 Advisory Committee – Approved unanimously  
January 26, 2012 Watermaster Board –

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**CHINO BASIN WATERMASTER  
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD  
NOVEMBER 1 THROUGH NOVEMBER 30, 2011**

<b>DEPOSITORIES:</b>		
Cash on Hand - Petty Cash	\$	500
Bank of America		
Governmental Checking-Demand Deposits	\$	1,585,188
Zero Balance Account - Payroll	\$	-
Local Agency Investment Fund - Sacramento		
<b>TOTAL CASH IN BANKS AND ON HAND</b>		<b>11/30/2011</b>
<b>TOTAL CASH IN BANKS AND ON HAND</b>		<b>10/31/2011</b>
<b>PERIOD INCREASE (DECREASE)</b>		<b>\$ 7,037,647</b>
		<b>\$ 6,647,553</b>
		<b>\$ 390,094</b>

**CHANGE IN CASH POSITION DUE TO:**

Decrease/(Increase) in Assets:		
Accounts Receivable	\$	2,558,629
Assessments Receivable	(1,013,681)	
Prepaid Expenses, Deposits & Other Current Assets	623,622	
Accounts Payable	(1,101,653)	
Accrued Payroll, Payroll Taxes & Other Current Liabilities	4,716	
Transfer to/(from) Reserves	(681,539)	
<b>PERIOD INCREASE (DECREASE)</b>		<b>\$ 390,094</b>

**SUMMARY OF FINANCIAL TRANSACTIONS:**

	10/31/2011	11/30/2011	Period Increase (Decrease)
Balances as of	\$ 6,647,553	\$ 7,037,647	
Deposits	8,046,035	8,046,035	
Transfers	(3,500,000)	(3,500,000)	
Withdrawals/Checks	(4,155,940)	(4,155,940)	
Balances as of	\$ 7,037,647	\$ 7,037,647	
<b>PERIOD INCREASE OR (DECREASE)</b>	<b>\$ 390,094</b>	<b>\$ 390,094</b>	

**CHINO BASIN WATERMASTER  
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD  
NOVEMBER 1 THROUGH NOVEMBER 30, 2011**

**INVESTMENT TRANSACTIONS**

Effective Date	Transaction	Depository	Activity	Redeemed	Days to Maturity	Interest Rate(*)	Maturity Yield
11/28/2011	Deposit	L.A.I.F.	\$ 3,500,000				

**TOTAL INVESTMENT TRANSACTIONS**      \$ 3,500,000

\* The earnings rate for L.A.I.F. is a daily variable rate; 0.38% was the effective yield rate at the Quarter ended September 30, 2011.

**INVESTMENT STATUS  
November 30, 2011**

Financial Institution	Principal Amount	Number of Days	Interest Rate	Maturity Date
Local Agency Investment Fund	\$ 5,451,959			
<b>TOTAL INVESTMENTS</b>	<u>\$ 5,451,959</u>			

Funds on hand are sufficient to meet all foreseen and planned Administrative and project expenditures during the next six months.

All investment transactions have been executed in accordance with the criteria stated in Chino Basin Watermaster's Investment Policy.

Respectfully submitted,

Joseph S. Joswiak  
Chief Financial Officer  
Chino Basin Watermaster



# CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730  
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## STAFF REPORT

**DATE:** January 26, 2012  
**TO:** Board Members  
**SUBJECT:** Budget vs. Actual Report for the Period July 1, 2011 through November 30, 2011 - Financial Report - B5

### SUMMARY

**Issue** – Record of revenues and expenses of Watermaster for the Period of July 1, 2011 through November 30, 2011.

**Recommendation** – Staff recommends the Budget vs. Actual Report for the Period July 1, 2011 through November 30, 2011 be received and filed as presented.

**Fiscal Impact** – Funds disbursed were included in the FY 2011-2012 Watermaster Budget.

### BACKGROUND:

A Budget vs. Actual Report for the period July 1, 2011 through November 30, 2011 is provided to keep all members apprised of the total revenues and expenses for the current fiscal year. The expense section is categorized into four distinct sections. Those sections are: General and Administrative Expenses; Optimal Basin Management Program Expenses; Project Expenses; and Other Income/Expenses.

### DISCUSSION:

The Budget vs. Actual report has been created from QuickBooks Enterprise Solutions 9.0, the Watermaster accounting system. The Budget vs. Actual report provided, balances to the supporting documentation in the Watermaster accounting system, as well as the supporting bank statements.

There were no budget transfers or budget amendments proposed for the month of November 2011.

Year-To-Date (YTD) for the five months ending November 30, 2011, all but seven categories were at or below the projected budget. The categories above budget were the Watermaster Salary Costs (6010's) of \$2,165.05; Watermaster Legal Services (6070's) of \$1,265.57; Advisory Committee Expenses (6200's) of \$1,915.36; Watermaster Board Expenses (6300's) of \$11,040.07; Non-Ag Pool Administration Expenses (8500's) of \$26,939.88; Groundwater Quality Monitoring (7103's) of \$759.37; and Cooperative Efforts/Salt Management (7500's) of \$12,238.69.

With regards to the salary of the Watermaster CEO, a new line item 6011.2 (WM Staff – Administrative Paid Leave) has been created. The full salary cost of Mr. Alvarez will be charged against this line item and his costs will not be allocated to OBMP, projects, or other expense categories going forward. Added to the financial reports as part of the November reporting cycle, the chart listed below summarized the Watermaster salary costs compared to the year-to-date budget. To date, the Watermaster salary expenses are \$16,870 or 2.7% below the budgeted amount of \$629,062. The following details are provided:

	<u>Jul '11 - Nov 11</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>	<u>Annual Budget</u>
<b>WM Salary Expense</b>					
6011 - WM Staff Salaries	195,371.10	184,186.02	11,185.08	106.07%	441,032.00
6011.2 - WM Staff - Admin. Paid Leave	24,160.32	0.00	24,160.32	100.0%	0.00
6011.3 - WM Staff - Temporary Upgrade	1,227.50	0.00	1,227.50	100.0%	0.00
6201 - Advisory Committee - WM Staff Salaries	8,557.53	8,850.44	-292.91	96.69%	21,241.00
6301 - Watermaster Board - WM Staff Salaries	13,245.42	12,465.00	780.42	106.26%	29,916.00
8301 - Appropriative Pool - WM Staff Salaries	11,328.32	11,854.19	-525.87	95.56%	28,450.00
8401 - Agricultural Pool - WM Staff Salaries	9,330.34	10,389.56	-1,059.22	89.81%	24,935.00
8501 - Non-Agricultural Pool - WM Staff Salaries	5,019.61	5,930.44	-910.83	84.64%	14,233.00
6901 - OBMP - WM Staff Salaries	91,394.27	90,413.31	980.96	101.09%	216,992.00
7101.1 - Production Monitor - WM Staff Salaries	41,223.15	52,395.81	-11,172.66	78.68%	104,150.00
7102.1 - In-line Meter - WM Staff Salaries	4,375.82	4,317.94	57.88	101.34%	10,363.00
7103.1 - Grdwater Quality - WM Staff Salaries	37,321.89	47,414.56	-10,092.67	78.71%	80,195.00
7104.1 - Grdwater Level - WM Staff Salaries	18,192.76	37,442.94	-19,250.18	48.59%	89,863.00
7105.1 - Sur Wtr Qual - WM Staff Salaries	0.00	1,246.69	-1,246.69	0.0%	2,992.00
7107.1 - Grd Level Monitoring - WM Staff Salaries	0.00	652.50	-652.50	0.0%	1,566.00
7108.1 - Hydraulic Control - WM Staff Salaries	355.30	3,030.44	-2,675.14	11.72%	7,273.00
7201 - Comp Recharge - WM Staff Salaries	38,138.61	52,119.56	-13,980.95	73.18%	125,067.00
7301 - PE3&5 - WM Staff Salaries	11,101.56	15,642.94	-4,541.38	70.97%	37,543.00
7401 - PE4 - WM Staff Salaries	3,264.51	5,097.94	-1,833.43	64.04%	12,235.00
7501.1 - PE 6&7 - WM Staff Salaries (Plume)	17,794.62	0.00	17,794.62	100.0%	0.00
7501 - PE6&7 - WM Staff Salaries	2,274.45	1,246.69	1,027.76	182.44%	2,992.00
7601 - PE8&9 - WM Staff Salaries	12,934.54	18,926.25	-5,991.71	68.34%	45,423.00
7701 - Inactive Well - WM Staff Salaries	0.00	206.50	-206.50	0.0%	413.00
<b>Subtotal WM Staff Costs</b>	<b>546,611.62</b>	<b>563,829.72</b>	<b>-17,218.10</b>	<b>96.95%</b>	<b>1,296,894.00</b>
60185 - Vacation	37,265.94	27,364.90	9,901.04	136.18%	51,922.00
60186 - Sick Leave	8,149.89	17,212.50	-9,062.51	47.35%	41,310.00
60187 - Holidays	20,164.40	20,655.00	-490.60	97.63%	41,310.00
<b>Subtotal WM Paid Leaves</b>	<b>65,580.33</b>	<b>65,232.40</b>	<b>347.93</b>	<b>100.53%</b>	<b>134,542.00</b>
<b>Total WM Salary Costs</b>	<b>612,191.95</b>	<b>629,062.12</b>	<b>-16,870.17</b>	<b>97.32%</b>	<b>1,431,436.00</b>

During the Budget Workshops, the Watermaster legal expenses are being allocated to the specific areas of activity. For example, the legal meeting expenses related to the Appropriative, Agricultural, and Non-Agricultural Pools as well as the Advisory Committee and Board are shown in those specific areas. General ledger accounts have been created and the expenses are appropriately categorized. This provides a clearer picture of the actual costs associated with each individual group. Also, a new category for Watermaster Legal Services (6070) was established for fiscal year 2011/2012. These expenses are associated with administrative legal services for Watermaster.

Added to the financial reports as part of the November reporting cycle, the chart listed below summarizes the Brownstein Hyatt Farber Schreck expenses compared to the year-to-date budget. To date, the BHFS expenses are \$16,850 or 5.2% below the budgeted amount of \$324,851. The following details are provided:

	<u>Jul '11 - Nov '11</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>	<u>Annual Budget</u>
<b>6070 • Watermaster Legal Services</b>					
6071 • BHFS Legal - Court Coordination	0.00	16,291.69	-16,291.69	0.0%	39,100.00
6072 • BHFS Legal - Restated Judgment	18,306.96	52,000.00	-33,693.04	35.21%	62,400.00
6073 • BHFS Legal - Personnel Matters	22,702.05	4,114.56	18,587.49	551.75%	9,875.00
6074 • BHFS Legal - Interagency Issues	3,510.45	14,291.69	-10,781.24	24.56%	34,300.00
6075 • BHFS Legal - Replenishmnt Water	41,607.45	0.00	41,607.45	100.0%	0.00
6078 • BHFS Legal - Miscellaneous	25,536.60	23,700.00	1,836.60	107.75%	56,880.00
<b>Total 6070 • Watermaster Legal Services</b>	<b>111,663.51</b>	<b>110,397.94</b>	<b>1,265.57</b>	<b>101.15%</b>	<b>202,555.00</b>
6275 • BHFS Legal - Advisory Committee	15,809.59	12,837.50	2,972.09	123.15%	30,810.00
6375 • BHFS Legal - Board Meeting	35,471.90	26,012.50	9,459.40	136.37%	45,630.00
8375 • BHFS Legal - Appropriative Pool	8,997.91	8,867.50	110.41	101.24%	21,330.00
8475 • BHFS Legal - Agricultural Pool	8,473.11	12,837.50	-4,364.39	66.0%	30,810.00
8575 • BHFS Legal - Non-Ag Pool	7,820.03	3,950.00	3,870.03	197.98%	9,480.00
<b>Total BHFS Legal Services</b>	<b>76,572.54</b>	<b>64,525.00</b>	<b>12,047.54</b>	<b>118.67%</b>	<b>138,060.00</b>
<b>6907.3 • WM Legal Counsel</b>					
6907.30 • Peace II - CEQA	0.00	0.00	0.00	0.0%	0.00
6907.31 • S. Archibald Plume-Formerly OIA	3,009.15	10,260.44	-7,251.29	29.33%	24,625.00
6907.32 • Chino Airport Plume	8,866.95	10,697.94	-1,830.99	82.89%	25,675.00
6907.33 • Desalter Negotiations	77,880.86	67,425.00	10,455.86	115.51%	67,425.00
6907.34 • Santa Ana River Water Rights	4,984.72	10,468.75	-5,484.03	47.62%	25,125.00
6907.35 • Paragraph 31 Motion	14,105.71	32,666.67	-18,560.96	43.18%	39,200.00
6907.36 • Santa Ana River Habitat	7,969.13	0.00	7,969.13	100.0%	0.00
6907.37 • Water Auction	0.00	0.00	0.00	0.0%	0.00
6907.38 • Reg. Water Quality Cntrl Board	0.00	5,729.19	-5,729.19	0.0%	13,750.00
6907.39 • Recharge Master Plan	2,947.95	12,680.00	-9,732.05	23.25%	25,360.00
6907.3 • WM Legal Counsel - Other	0.00	0.00	0.00	0.0%	0.00
<b>Total 6907.3 • WM Legal Counsel</b>	<b>119,764.47</b>	<b>149,927.99</b>	<b>-30,163.52</b>	<b>79.88%</b>	<b>221,160.00</b>
<b>Total Brownstein, Hyatt, Farber, Schreck Costs</b>	<b>308,000.52</b>	<b>324,850.93</b>	<b>-16,850.41</b>	<b>94.81%</b>	<b>561,775.00</b>

**OBMP Engineering Services and Legal Costs:**

Several individual line items within the 6900 (Optimum Basin Mgmt Plan) are above the Year-To-Date budget. These are the 6906 (OBMP Engineering Services-Other) and the 6906.1 (OBMP Watermaster Model Update). These overages are a direct result of allocating the budget in equal 1/12 portions throughout the fiscal year. The Year-To-Date expenses in these two categories are running ahead of budget and should level off as the fiscal year progresses.

Within the category 6900 (Optimum Basin Mgmt Plan) are the remaining Watermaster's legal expenses. Within the legal expense category, some individual line item activities were above the budget \$18,425 while the majority of line item activities were below the budget (\$48,589). Above the budget line items were the Desalter Negotiations of \$10,456 and the Santa Ana River Habitat of \$7,969. The individual legal projects/activities that were below budget for the Y-T-D period were the South Archibald Plume

(formerly the OIA Plume) of (\$7,252), the Chino Airport Plume (\$1,831), the Santa Ana River Water Rights Application of (\$5,484), the Paragraph 31 Motion of (\$18,561), the Regional Water Quality Control Board of (\$5,729) and the Recharge Master Plan of (\$9,732). For the five month period, the cumulative Y-T-D budget was \$149,928 and actual legal expenses totaled \$119,764 which resulted in an (Under) budget variance of (\$30,164) or (20.1%).

	<u>Jul '11 - Nov '11</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>
<b>6900 • Optimum Basin Mgmt Plan</b>				
<b>6901 • WM Staff Salaries</b>	100,277.93	90,413.31	9,864.62	110.91%
<b>6903 • OBMP SAWPA Group</b>	11,655.00	11,655.00	0.00	100.0%
<b>6906 • OBMP Engineering Services</b>				
<b>6906.1 • OBMP - Watermaster Model Update</b>	204,010.48	180,008.34	24,002.14	113.33%
<b>6906 • OBMP Engineering Services - Other</b>	114,476.72	106,753.75	7,722.97	107.23%
<b>Total 6906 • OBMP Engineering Services</b>	<u>318,487.20</u>	<u>286,762.09</u>	<u>31,725.11</u>	<u>111.06%</u>
<b>6907 • OBMP Legal Fees</b>				
<b>6907.3 • WM Legal Counsel</b>				
<b>6907.30 • Peace II - CEQA</b>	0.00	0.00	0.00	0.0%
<b>6907.31 • S. Archibald Plume-Formerly OIA</b>	3,009.15	10,260.44	-7,251.29	29.33%
<b>6907.32 • Chino Airport Plume</b>	8,866.95	10,697.94	-1,830.99	82.89%
<b>6907.33 • Desalter Negotiations</b>	77,880.86	67,425.00	10,455.86	115.51%
<b>6907.34 • Santa Ana River Water Rights</b>	4,984.72	10,468.75	-5,484.03	47.62%
<b>6907.35 • Paragraph 31 Motion</b>	14,105.71	32,666.67	-18,560.96	43.18%
<b>6907.36 • Santa Ana River Habitat</b>	7,969.13	0.00	7,969.13	100.0%
<b>6907.37 • Water Auction</b>	0.00	0.00	0.00	0.0%
<b>6907.38 • Reg. Water Quality Cntrl Board</b>	0.00	5,729.19	-5,729.19	0.0%
<b>6907.39 • Recharge Master Plan</b>	2,947.95	12,680.00	-9,732.05	23.25%
<b>6907.3 • WM Legal Counsel - Other</b>	0.00	0.00	0.00	0.0%
<b>Total 6907.3 • WM Legal Counsel</b>	<u>119,764.47</u>	<u>149,927.99</u>	<u>-30,163.52</u>	<u>79.88%</u>
<b>Total 6907 • OBMP Legal Fees</b>	<u>119,764.47</u>	<u>149,927.99</u>	<u>-30,163.52</u>	<u>79.88%</u>
<b>6909 • OBMP Other Expenses</b>				
<b>6909.1 • OBMP Meetings</b>	874.28	0.00	874.28	100.0%
<b>6909.4 • Printing</b>	0.00	0.00	0.00	0.0%
<b>6909.5 • Ad Hoc Litigation Committee</b>	0.00	0.00	0.00	0.0%
<b>6909 • OBMP Other Expenses - Other</b>	0.00	12,500.02	-12,500.02	0.0%
<b>Total 6909 • OBMP Other Expenses</b>	<u>874.28</u>	<u>12,500.02</u>	<u>-11,625.74</u>	<u>6.99%</u>
<b>Total 6900 • Optimum Basin Mgmt Plan</b>	<u>551,058.88</u>	<u>551,258.41</u>	<u>-199.53</u>	<u>99.96%</u>

The OBMP Implementation Projects (accounts 7100's – 7700's) were all under budget as of November 30, 2011 except for Category 7103 (Groundwater Quality Monitoring) which was over budget by \$759 and 7500 (Cooperative Efforts/Salt Management) by \$12,239.

Category 7107 (Ground Level Monitoring) contains the annual budget costs of \$365,945 for the installation of a cable extensometer in the Chino Creek Well Field area at an existing well. The budget was front-loaded for the first six months of the fiscal year. To date, we have not received any progress billings. This category also includes the budgeted quarterly InSar Imagery costs of \$30,000 which are tracking well below the budget.

Category 7200 (Comprehensive Recharge Program) contains the budgeted cost of \$245,750 for the San Sevaime channel repair. The budget of \$245,750 for this project was front-loaded for the first six months



of the fiscal year. To date, we have received progress repair billings in the amount of \$221,945 and expect the remaining invoices of \$23,805 will be received within the next few months.

The Recharge Improvement Debt Payment (Category 7690) is another category which the budget and expense fluctuate due to the timing of expense receipts. Watermaster expects that a credit from IEUA in the amount of \$100,000+ will be forthcoming in the months of January or February 2012. Currently, this category is below the budgeted amount by \$129,564.

Added to the financial reports as part of the November reporting cycle, the chart listed below summarizes the Wildermuth Environmental, Inc. expenses compared to the Year-To-Date budget. As of November 30, 2011, the WEI expenses are \$476,741 or 33.0% below the budgeted amount of \$1,443,769. The following details are provided:

	<u>Jul '11 - Nov '11</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>	<u>Annual Budget</u>
<b>6906.1 • OBMP - Watermaster Model Update</b>	204,010.48	180,008.34	24,002.14	113.33%	204,010.00
<b>6906 • OBMP Engineering Services - Other</b>	114,476.72	106,753.75	7,722.97	107.23%	256,209.00
<b>7103.3 • Grdwtr Qual-Engineering</b>	60,043.85	42,544.56	17,499.29	141.13%	80,507.00
<b>7103.5 • Grdwtr Qual-Lab Svcs</b>	14,906.00	21,367.94	-6,461.94	69.76%	36,883.00
<b>7104.3 • Grdwtr Level-Engineering</b>	111,636.20	80,976.69	30,659.51	137.86%	151,144.00
<b>7104.8 • Grdwtr Level-Contracted Serv</b>	0.00	4,166.69	-4,166.69	0.0%	10,000.00
<b>7104.9 • Grdwtr Level-Capital Equip</b>	0.00	6,962.50	-6,962.50	0.0%	13,925.00
<b>7107.2 • Grd Level-Engineering</b>	142,983.13	69,347.94	73,635.19	206.18%	166,435.00
<b>7107.3 • Grd Level-SAR Imagery</b>	0.00	30,000.00	-30,000.00	0.0%	120,000.00
<b>7107.6 • Grd Level-Contract Svcs</b>	53,867.67	93,639.56	-39,751.89	57.55%	224,735.00
<b>7107.7 • Grd Level-Extensometer Install</b>	0.00	365,945.00	-365,945.00	0.0%	65,945.00
<b>7107.8 • Grd Level-Cap Equip Exte</b>	0.00	12,881.00	-12,881.00	0.0%	25,762.00
<b>7108.3 • Hydraulic Control-Engineering</b>	71,202.50	116,525.81	-45,323.31	61.1%	279,662.00
<b>7108.4 • Hydraulic Control-Lab Svcs</b>	75,734.00	71,187.06	4,546.94	106.39%	170,849.00
<b>7108.9 • Hydraulic Control-Contract Svcs</b>	0.00	833.31	-833.31	0.0%	2,000.00
<b>7109.3 • Recharge &amp; Well - Engineering</b>	1,990.00	11,160.00	-9,170.00	17.83%	11,160.00
<b>7202.2 • Engineering Svc</b>	0.00	4,300.00	-4,300.00	0.0%	10,320.00
<b>7202.3 • Comp Recharge-Implementation</b>	27,677.59	96,250.00	-68,572.41	28.76%	231,000.00
<b>7303 • PE3&amp;5-Engineering - Other</b>	23,709.49	47,840.00	-24,130.51	49.56%	47,840.00
<b>7402 • PE4-Engineering</b>	13,496.52	19,055.00	-5,558.48	70.83%	45,732.00
<b>7403 • PE4-Contract Svcs</b>	0.00	4,166.69	-4,166.69	0.0%	10,000.00
<b>7502 • PE6&amp;7-Engineering</b>	13,745.00	20,066.69	-6,321.69	68.5%	46,160.00
<b>7503 • PE6&amp;7-Contract Svcs (Plume)</b>	37,528.00	37,790.00	-262.00	99.31%	37,790.00
<b>Total Wildermuth Environmental, Inc. Costs</b>	<b>967,027.15</b>	<b>1,443,768.53</b>	<b>-476,741.38</b>	<b>66.98%</b>	<b>2,250,068.00</b>

During the month of October, there were discussions between the Wildermuth and Watermaster staff, as well as other parties, regarding the possible cost overages at completion in several of the ongoing projects. These projects are the horizontal extensometer and the CCWF extensometer.

*Horizontal Extensometer.* There is no specific line item in the FY 2011-2012 budget for installation of this facility. This facility was intended to be installed during FY 2010-2011, but Watermaster's negotiations with the land owner to obtain a right-of-entry agreement progressed slower than expected, and wasn't completed until July 2011. WEI was able to purchase all equipment, finish designs, and perform some offsite construction activities during FY 2010-2011, but was not able to access the site and complete the installation. Watermaster's FY 2010-2011 budget did not carry over to FY 2011-2012. WEI anticipates this effort to cost \$66,000 at completion.

*Vertical Extensometer.* Watermaster's FY 2011-2012 budget includes the cost to identify an existing well near the CCWF, and retrofit that well as a cable extensometer facility (\$65,945). The recommendation from the Land Subsidence Committee to construct a new extensometer came late in the Watermaster budgeting process, and was included in the FY 2011-2012 budget. Three Valleys Municipal Water District has committed \$300,000 to this project if a new extensometer is built. This is a total budget of \$365,945 to construct the new extensometer. WEI estimates the total cost to install a new cable extensometer facility near the CCWF will be approximately \$450,000. This estimated cost exceeds the available budget by about \$84,000.

**Other Income and Expense:**

In August of this year, Watermaster received two payments from the Metropolitan Water District. Metropolitan entered into agreements with Watermaster and other member agencies and partners for dry-year groundwater storage. Pursuant to Section VI of these agreements, Metropolitan committed to pay an annual administrative fee to one of the partners on each of the agreements for the 25-year term of the each agreement a) beginning on July 1<sup>st</sup> after the initial storage of water in each program, and b) with the set fee dollar amount escalating annually by the lesser of 2.5% or CPI. Watermaster received \$145,568.70 for the FY 2009/2010 payment (due July 1, 2010) and \$149,207.92 for the FY 2010/2011 payment (due July 1, 2011). The total amount received of \$294,776.62 was recorded to account 4040 (Cooperative Agreements). These revenue items were not included in the FY 2011/2012 budget and these payments are in excess of the projected revenue amount. The amount of \$294,776.62 can be used to offset and additional extensometer costs as listed above, as well as any other unexpected expenses which may occur in the current fiscal year.

During the November accounting period, the remaining invoices for the MWD replenishment water from the Inland Empire Utilities Agency were issued by Watermaster to the purchasing parties. Also, Watermaster issued the final payments during the month to Inland Empire Utilities Agency. The chart listed below provides an accounting of the Watermaster actual costs of the "Preemptive Replenishment Water":

Party	Quantity (AF)	Cost (\$)
FWC	20,000.000	\$ 8,471,766.00
Niagara	6,000.000	\$ 2,541,529.80
Chino, City of	1,416.470	\$ 600,000.00
JCSD	2,360.783	\$ 1,000,000.00
Ontario, City of	3,322.247	\$ 1,407,265.14
<b>Total</b>	<b>33,099.500</b>	<b>\$ 14,020,560.94</b>

1,074.1	AF of water injected via MVWD's ASR wells
32,025.4	AF of water wet-water recharged
33,099.5	Total AF of preemptive replenishment
\$ 14,020,560.94	= Total cost of all preemptive replenishment water, inclusive of OC59 and WFA charges
\$ 423.5883	= Average cost per AF of preemptive replenishment water, inclusive of OC59 and WFA charges

With the exceptions previously noted, there were no other unusual or significant transactions or events during the month of November. Looking ahead, the month of December should provide similar financial results.

**Actions:**

January 12, 2012 Appropriative Pool – Approved unanimously  
January 12, 2012 Non-Agricultural Pool – Moved to receive and file  
January 12, 2012 Agricultural Pool – Approved unanimously  
January 19, 2012 Advisory Committee – Approved unanimously  
January 26, 2012 Watermaster Board –

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	1/12th of the Total Budget			5/12th (42%) of the Total Budget			100% of the Total Budget		
	Actual	Budget	% of Budget	Actual	Budget	% of Budget	Projected	Budget	% of Budget
<b>Income</b>									
4010 · Local Agency Subsidies	0.00	0.00	0.0%	405,776.62	111,000.00	365.57%	411,000.00	411,000.00	100.0%
4110 · Admin Asmnts-Approp Pool	0.00	0.00	0.0%	0.00	0.00	0.0%	5,840,178.00	5,840,178.00	100.0%
4120 · Admin Asmnts-Non-Agri Pool	0.00	0.00	0.0%	0.00	0.00	0.0%	256,999.00	256,999.00	100.0%
4700 · Non Operating Revenues	0.00	0.00	0.0%	5,457.68	37,502.50	14.55%	150,010.00	150,010.00	100.0%
4900 · Miscellaneous Income	0.00	0.00	0.0%	0.00	0.00	0.0%	0.00	0.00	0.0%
<b>Total Income</b>	0.00	0.00	0.0%	411,234.30	148,502.50	276.92%	6,658,187.00	6,658,187.00	100.0%
<b>Gross Profit</b>	0.00	0.00	0.0%	411,234.30	148,502.50	276.92%	6,658,187.00	6,658,187.00	100.0%
<b>Expense</b>									
6010 · Salary Costs	70,487.17	67,106.14	105.04%	227,920.19	225,755.14	100.96%	472,976.00	472,976.00	100.0%
6020 · Office Building Expense	8,115.23	8,331.00	97.41%	40,884.69	43,178.00	94.69%	103,369.00	103,369.00	100.0%
6030 · Office Supplies & Equip.	1,662.17	2,125.00	78.22%	8,858.45	10,625.00	83.37%	25,500.00	25,500.00	100.0%
6040 · Postage & Printing Costs	3,399.78	7,531.67	45.14%	19,511.84	30,525.00	63.92%	66,180.00	66,180.00	100.0%
6050 · Information Services	8,587.44	11,835.00	72.56%	48,054.09	63,425.00	75.77%	148,020.00	148,020.00	100.0%
6060 · Contract Services	3,160.00	5,000.00	63.2%	10,775.96	34,000.00	31.69%	34,000.00	34,000.00	100.0%
6070 · Watermaster Legal Services	34,583.07	22,079.58	156.63%	111,663.51	110,397.94	101.15%	202,555.00	202,555.00	100.0%
6080 · Insurance	0.00	0.00	0.0%	17,740.87	19,036.00	93.2%	19,036.00	19,036.00	100.0%
6110 · Dues and Subscriptions	502.15	0.00	100.0%	14,846.15	15,260.00	97.29%	30,000.00	30,000.00	100.0%
6140 · WM Admin Expenses	0.00	250.00	0.0%	327.51	1,250.00	26.2%	3,000.00	3,000.00	100.0%
6150 · Field Supplies	0.00	150.00	0.0%	297.58	500.00	59.52%	1,600.00	1,600.00	100.0%
6170 · Travel & Transportation	1,760.09	1,680.00	104.77%	7,701.94	8,772.50	87.8%	21,970.00	21,970.00	100.0%
6190 · Conferences & Seminars	60.00	0.00	100.0%	3,614.44	8,750.00	41.31%	17,500.00	17,500.00	100.0%
6200 · Advisory Comm - WM Board	6,464.70	4,504.25	143.52%	24,436.61	22,521.25	108.51%	54,051.00	54,051.00	100.0%
6300 · Watermaster Board Expenses	10,539.20	7,437.17	141.71%	61,725.88	50,685.81	121.76%	101,246.00	101,246.00	100.0%
8300 · Appr PI-WM & Pool Admin	4,016.25	4,190.00	95.85%	20,411.87	20,950.00	97.43%	50,280.00	50,280.00	100.0%
8400 · Agri Pool-WM & Pool Admin	3,868.49	5,319.09	72.73%	20,880.21	26,595.37	78.51%	63,829.00	63,829.00	100.0%
8467 · Ag Legal & Technical Services	130.00	17,583.33	0.74%	30,925.49	87,916.69	35.18%	211,000.00	211,000.00	100.0%
8470 · Ag Meeting Attend -Special	1,675.00	1,000.00	167.5%	8,400.00	5,000.00	168.0%	12,000.00	12,000.00	100.0%
8471 · Ag Pool Expense	0.00	0.00	0.0%	0.00	16,250.00	0.0%	65,000.00	65,000.00	100.0%
8485 · Ag Pool - Misc. Exp. - Ag Fund	99.34	0.00	100.0%	99.34	0.00	100.0%	0.00	0.00	0.0%
8500 · Non-Ag PI-WM & Pool Admin	38,153.02	8,476.08	450.13%	69,320.32	42,380.44	163.57%	101,713.00	101,713.00	100.0%
6500 · Education Funds Use Expense	0.00	375.00	0.0%	375.00	375.00	100.0%	375.00	375.00	100.0%
9400 · Depreciated Expense	0.00	0.00	0.0%	0.00	0.00	0.0%	0.00	0.00	0.0%
9500 · Allocated G&A Expenditures	-39,972.29	-60,049.92	66.57%	-189,806.68	-300,249.56	63.22%	-720,599.00	-720,599.00	100.0%
6900 · Optimum Basin Mgmt Plan	80,888.78	88,503.15	91.4%	551,058.88	551,258.41	99.96%	935,026.00	935,026.00	100.0%
6950 · Mutual Agency Projects	0.00	0.00	0.0%	0.00	0.00	0.0%	10,000.00	10,000.00	100.0%
9501 · G&A Expenses Allocated-OBMP	18,293.02	18,031.25	101.45%	72,855.16	90,156.25	80.81%	216,375.00	216,375.00	100.0%
7101 · Production Monitoring	3,053.51	8,741.67	34.93%	41,535.65	52,708.31	76.8%	104,900.00	104,900.00	100.0%
7102 · In-line Meter Installation	8,417.83	5,530.25	152.21%	19,611.43	27,651.25	70.92%	66,363.00	66,363.00	100.0%
7103 · Grdwtr Quality Monitoring	32,828.89	15,996.67	205.22%	114,742.68	113,983.31	100.67%	203,960.00	203,960.00	100.0%

**1/12th of the Total Budget**  
**For The Month of November 2011**

	Actual	Budget	\$ Over(Under)	% of Budget
7100 · Gdwtr Level Monitoring	25,451.57	21,042.24	4,409.33	120.86%
7105 · Sur Wtr Qual Monitoring	0.00	291.00	-291.00	0.0%
7107 · Ground Level Monitoring	29,099.93	139,168.50	-110,068.57	20.91%
7108 · Hydraulic Control Monitoring	34,433.22	38,315.34	-3,882.12	89.87%
7109 · Recharge & Well Monitoring Prog	1,990.00	0.00	1,990.00	100.0%
7200 · PE2- Comp Recharge Pgm	246,516.20	91,658.92	154,857.28	268.95%
7300 · PE3&5-Water Supply/Desalite	1,979.62	3,795.25	-1,815.63	52.16%
7400 · PE4- Mgmt Plan	5,766.18	5,663.91	102.27	101.81%
7500 · PE6&7-CoopEfforts/SaltMgmt	18,930.41	6,411.83	12,518.58	295.24%
7600 · PE8&9-StorageMgmt/Conj Use	3,236.45	3,785.25	-548.80	85.5%
7690 · Recharge Improvement Debt Pymt	0.00	0.00	0.00	0.0%
7700 · Inactive Well Protection Prgm	0.00	0.00	0.00	0.0%
9502 · G&A Expenses Allocated-Projects	13,363.92	42,018.67	-28,654.75	31.81%
Total Expense	681,540.34	603,877.29	77,663.05	112.86%
Net Ordinary Income	-681,540.34	-603,877.29	-77,663.05	112.86%

**5/12th (42%) of the Total Budget**  
**Year-To-Date as of November 30, 2011**

	Actual	Budget	\$ Over(Under)	% of Budget
7100 · Gdwtr Level Monitoring	129,828.96	135,173.82	-5,344.86	96.05%
7105 · Sur Wtr Qual Monitoring	0.00	1,505.00	-1,505.00	0.0%
7107 · Ground Level Monitoring	196,870.80	572,466.00	-375,595.20	34.39%
7108 · Hydraulic Control Monitoring	147,291.80	191,576.62	-44,284.82	76.88%
7109 · Recharge & Well Monitoring Prog	1,990.00	11,160.00	-9,170.00	17.83%
7200 · PE2- Comp Recharge Pgm	665,924.45	744,608.54	-78,684.09	89.43%
7300 · PE3&5-Water Supply/Desalite	36,888.21	66,816.25	-29,928.04	55.21%
7400 · PE4- Mgmt Plan	17,599.94	29,359.63	-11,759.69	59.93%
7500 · PE6&7-CoopEfforts/SaltMgmt	71,342.07	59,103.38	12,238.69	120.71%
7600 · PE8&9-StorageMgmt/Conj Use	12,962.52	19,101.25	-6,138.73	67.86%
7690 · Recharge Improvement Debt Pymt	471,400.00	600,964.00	-129,564.00	78.44%
7700 · Inactive Well Protection Prgm	0.00	706.50	-706.50	0.0%
9502 · G&A Expenses Allocated-Projects	108,636.20	210,093.31	-101,457.11	51.71%
Total Expense	3,219,503.91	4,022,301.41	-802,797.50	80.04%
Net Ordinary Income	-2,808,269.61	-3,873,798.91	1,065,529.30	72.49%

**100% of the Total Budget**  
**Fiscal Year End as of June 30, 2012**

	Projected	Budget	\$ Over(Under)	% of Budget
7100 · Gdwtr Level Monitoring	276,432.00	276,432.00	0.00	100.0%
7105 · Sur Wtr Qual Monitoring	3,592.00	3,592.00	0.00	100.0%
7107 · Ground Level Monitoring	904,443.00	904,443.00	0.00	100.0%
7108 · Hydraulic Control Monitoring	459,784.00	459,784.00	0.00	100.0%
7109 · Recharge & Well Monitoring Prog	11,160.00	11,160.00	0.00	100.0%
7200 · PE2- Comp Recharge Pgm	1,341,785.00	1,341,785.00	0.00	100.0%
7300 · PE3&5-Water Supply/Desalite	93,383.00	93,383.00	0.00	100.0%
7400 · PE4- Mgmt Plan	70,067.00	70,067.00	0.00	100.0%
7500 · PE6&7-CoopEfforts/SaltMgmt	88,942.00	88,942.00	0.00	100.0%
7600 · PE8&9-StorageMgmt/Conj Use	45,773.00	45,773.00	0.00	100.0%
7690 · Recharge Improvement Debt Pymt	450,964.00	450,964.00	0.00	100.0%
7700 · Inactive Well Protection Prgm	1,413.00	1,413.00	0.00	100.0%
9502 · G&A Expenses Allocated-Projects	504,224.00	504,224.00	0.00	100.0%
Total Expense	6,873,187.00	6,873,187.00	0.00	100.0%
Net Ordinary Income	-215,000.00	-215,000.00	0.00	100.0%

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**Other Income**

4225 · Interest Income	0.00	0.00	0.00	0.0%
4210 · Approp Pool-Replenishment	0.00	0.00	0.00	0.0%
4220 · Non-Ag Pool-Replenishment	0.00	0.00	0.00	0.0%
4600 · Groundwater Sales	2,874,543.58	0.00	2,874,543.58	100.0%
Total Other Income	2,874,543.58	0.00	2,874,543.58	100.0%

**Other Expense**

5010 · Groundwater Replenishment	497,292.31	0.00	497,292.31	100.0%
5100 · Other Water Purchases	2,377,249.88	0.00	2,377,249.88	100.0%
9999 · To/(From) Reserves	-681,538.95	-603,877.29	-77,661.66	112.86%
Total Other Expense	2,193,003.24	-603,877.29	2,796,880.53	-363.15%
Net Other Income	681,540.34	603,877.29	77,663.05	112.86%
Net Income	0.00	0.00	0.00	0.0%

Note: Please see the staff report (Financial Report-B5) for additional detailed information on the account categories.



# CHINO BASIN WATERMASTER

## II. CONSENT CALENDAR

### C. NOTICE OF INTENT



# NOTICE OF INTENT

## Watermaster's "Notice of Intent" to Change the Operating Safe Yield of the Chino Groundwater Basin

**PLEASE TAKE NOTICE** that on this 26<sup>th</sup> day of January 2012, Chino Basin Watermaster hereby files this "**Notice of Intent**" to change the operating safe yield of the Chino Groundwater Basin Pursuant to the Judgment entered in Chino Basin Municipal Water District v. City of Chino, et al., San Bernardino Superior Court, Case No. RCV 51010 (formerly Case No. 164327) (Exhibit I, Paragraph 2b, Page 80).

Approved by  
**CHINO BASIN WATERMASTER  
ADVISORY COMMITTEE**

**CHINO BASIN WATERMASTER  
BOARD OF DIRECTORS**

By: \_\_\_\_\_  
Chair

By: \_\_\_\_\_  
Chair

**ATTEST:**

By: \_\_\_\_\_  
Secretary



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# CHINO BASIN WATERMASTER

## II. CONSENT CALENDAR

### D. CHINO BASIN WATERMASTER INVESTMENT POLICY



**RESOLUTION 12-01**

**RESOLUTION OF THE CHINO BASIN WATERMASTER,  
SAN BERNARDINO COUNTY, CALIFORNIA, ESTABLISHING  
A WATERMASTER INVESTMENT POLICY**

**WHEREAS**, the normal and prudent operation of the Watermaster's daily business generates cash balances, operating and fund reserves; and

**WHEREAS**, the cash management system is designed to accurately monitor and forecast expenditures and revenues on behalf of Watermaster, thus enabling the Watermaster to invest funds to the fullest extent possible; and

**WHEREAS**, the cash funds are to be placed in investments authorized for public agencies of the State of California (Judgment Paragraph 23); and

**WHEREAS**, Watermaster deems it to be in the best interests of the parties to the Judgment to delegate the authority to invest and reinvest the funds of Watermaster to the Watermaster Finance Manager subject to the provisions of its Investment Policy and the ongoing review and control of Watermaster and the Watermaster Advisory Committee.

**WHEREAS**, it is the Watermaster's policy to annually review, update, and adopt an investment policy;

**NOW, THEREFORE, BE IT RESOLVED**, by the Chino Basin Watermaster that:

Section 1. The authority to invest and reinvest funds of Watermaster is hereby delegated to the Watermaster Chief Executive Officer (and his/her designees) subject to the provisions of said Investment Policy and the ongoing review and control of Watermaster and the Watermaster Advisory Committee.

Section 2. This resolution shall take effect from and after its date of adoption and Resolution 11-01 is rescinded in its entirety.

**APPROVED** by the Advisory Committee this 19<sup>th</sup> day of January 2012.

**ADOPTED** by the Watermaster Board on this 26<sup>th</sup> day of January 2012.

By: \_\_\_\_\_  
Chairman, Watermaster Board

APPROVED:

\_\_\_\_\_  
Chairman, Advisory Committee

ATTEST:

\_\_\_\_\_  
Board Secretary  
Chino Basin Watermaster

STATE OF CALIFORNIA            )  
  ) ss  
COUNTY OF SAN BERNARDINO    )

I, Danielle Maurizio, Secretary of the Chino Basin Watermaster, DO HEREBY CERTIFY that the foregoing Resolution being No. 12-01, was adopted at a regular meeting of the Chino Basin Watermaster Board by the following vote:

AYES:            0  
NOES:            0  
ABSENT:          0  
ABSTAIN:         0

CHINO BASIN WATERMASTER

\_\_\_\_\_  
Secretary

Date: \_\_\_\_\_



# **CHINO BASIN WATERMASTER**

## **II. CONSENT CALENDAR**

### **E. LOCAL AGENCY INVESTMENT FUND**



**RESOLUTION 12-02 OF CHINO BASIN WATERMASTER**

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730 PHONE: 909-484-3888

**AUTHORIZING INVESTMENT OF MONIES  
IN THE LOCAL AGENCY INVESTMENT FUND**

**WHEREAS**, Pursuant to Chapter 730 of the statutes of 1976 Section 16429.1 was added to the California Government Code to create a Local Agency Investment Fund in the State Treasury for the deposit of money of a local agency for purposes of investment by the State Treasurer; and

**WHEREAS**, the Chino Basin Watermaster was appointed on January 27, 1978, under San Bernardino Superior Court Case No. WCV51010 (formerly Case No. SCV164327) entitled Chino Basin Municipal Water District V. City of Chino, et al. with powers to authorize the investment or deposit of surplus funds pursuant to the California Government Code, Section 53600; and

**WHEREAS**, upon filing of an appropriate resolution, local agencies are permitted to remit money to the State Treasurer for deposit in the fund for the purpose of investment; and pursuant to Section 16429.3 of said Government Code, such monies are not subject to impoundment of seizure by any state official or state agency.

**NOW THEREFORE, BE IT RESOLVED**, that the Board of Directors does hereby authorize the deposit and withdrawal of Chino Basin Watermaster monies in the Local Agency Investment Fund in the State Treasury in accordance with the provisions of Section 16429.1 of the Government Code for the purpose of investment as stated therein, and verification by the State Treasurer's Office of all banking information provided in that record.

**BE IT FURTHER RESOLVED**, that the following Chino Basin Watermaster officers and designated employees or their successors in office/position shall be authorized to order the deposit or withdrawal of monies in the Local Agency Investment Fund.

_____	<u>Chairman of the Board</u>	_____
(NAME)	(TITLE)	(SIGNATURE)
_____	<u>Vice-Chair</u>	_____
(NAME)	(TITLE)	(SIGNATURE)
_____	<u>Board Secretary/Treasurer</u>	_____
(NAME)	(TITLE)	(SIGNATURE)
<u>Danielle Maurizio</u>	<u>Chief Executive Officer/Secretary</u>	_____
(NAME)	(TITLE)	(SIGNATURE)
<u>Joe Joswiak</u>	<u>Chief Financial Officer</u>	_____
(NAME)	(TITLE)	(SIGNATURE)

**APPROVED** by the Advisory Committee this 19<sup>th</sup> day of January 2012.  
**ADOPTED** by the Watermaster Board on this 26<sup>th</sup> day of January 2012.

By: \_\_\_\_\_  
Chairman, Watermaster Board

APPROVED:

\_\_\_\_\_  
Chairman, Advisory Committee

ATTEST:

\_\_\_\_\_  
Board Secretary  
Chino Basin Watermaster

STATE OF CALIFORNIA            )  
  ) ss  
COUNTY OF SAN BERNARDINO    )

I, Danielle Maurizio, Secretary of the Chino Basin Watermaster, DO HEREBY CERTIFY that the foregoing Resolution being No. 12-02, was adopted at a regular meeting of the Chino Basin Watermaster Board by the following vote:

AYES:            0  
NOES:            0  
ABSENT:          0  
ABSTAIN:         0

CHINO BASIN WATERMASTER

\_\_\_\_\_  
Secretary

Date: \_\_\_\_\_



# CHINO BASIN WATERMASTER

## III. BUSINESS ITEM

### A. WATERMASTER 2011/2012 ASSESSMENT PACKAGE







# CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730  
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

## STAFF REPORT

**DATE:** January 26, 2012  
**TO:** Board Members  
**SUBJECT:** Fiscal Year 2011-2012 Assessment Package

### SUMMARY

**Issue** - Chino Basin Watermaster Fiscal Year 2011-2012 Assessment Package.

**Recommendation** - Staff recommends approval of the Fiscal Year 2011-2012 Assessment Package as presented.

**Fiscal Impact** - The Assessment Package creates the funds that are used during this fiscal year for budgeted expenses.

### BACKGROUND

The members of the Overlying Non-Agricultural Pool and the Appropriative Pool were each sent a copy of their Water Activity Report that summarized their water activity for the previous year – including production, Dry Year Yield (DYY), land use conversions, transfers and assignments – and each party was asked to verify the data gathered and summarized by Watermaster. All of the Water Activity Reports were received back, and any necessary corrections were made.

Watermaster held an Assessment Package Workshop on January 4, 2012. The purpose of the workshop was to review the prior year production, transfers, DYY, etc., and to review the current year cash requirements pursuant to the adopted budget and the resulting impact on assessments. Discussion at the workshop covered the breakdown of how assessments are calculated. During the workshop, it was noted that a few changes have been made to the Assessment Package, including that the "Re-Operation Offset" Desalter Replenishment water is now separated into two "buckets"—one the for the Pre-Peace II Desalters (originally 225,000 AF) and one for the Peace II Expansion Desalters (175,000 AF); starting this year, only the portion of a water transfer used to offset overproduction will receive the 85/15 Rule treatment, if eligible; and, as requested by the City of Ontario, a page has been added that demonstrates the analyses regarding whether a transaction receives the 85/15 Rule treatment or not. In addition,

Fontana Water Company's and Niagara's May and June 2011 Preemptive Replenishment amounts were placed into their "New" Supplemental Storage accounts.

Budgeted costs decreased this year, and the Assessment Package identifies total assessable production for all Pools as 113,667 acre-feet (a decrease of 829 acre-feet), resulting in assessments of \$8.60/acre-foot for Admin and \$40.54/acre-foot for OBMP, excluding recharge debt service and assessments for replenishment water. For production year 2010-2011, there is a replenishment obligation of 1,239 acre-feet. The new replenishment rate is \$574, which is MWD's \$560 Tier 1 rate plus IEUA's \$12 surcharge plus OCWD's \$2 connection fee.

The following minor changes have been made since the Workshop:

- Page 4A—The footnote has been corrected to reflect the correct amount of preemptive replenishment (as shown correctly in the table) that was applied to Fontana Water Company's "New" Supplemental Storage account.
- Pages 7A - 7B—The spelling of the word "Applies" was corrected to "Applies."

Discussion occurred at each of the Pool meetings regarding the Assessment Package. The Appropriative Pool asked Watermaster staff to research the "Re-Operation Offset" Desalter Replenishment water that is now separated into two "buckets." The question was raised if it should be shown as one or two "buckets." Staff committed to researching the issue soon, but noted that it does not have to be done for this Assessment Package because there is enough available water for the production year. And it is known that a correction will need to occur anyway, once the new groundwater model is completed. The Non-Agricultural Pool requested that two footnotes be added to each of the three main Non-Agricultural Pool pages.

The following minor changes have been made since the Pool Meetings:

- Pages 13A, 14A & 15A—The following two footnotes were added to these three pages:
  - "The Overlying (Non-Agricultural) Pool's approval of the assessment package was made without prejudice to its legal claims pursuant to its Paragraph 31 Motion."
  - "A dispute has arisen between Aqua Capital Management and California Steel Industries concerning allocation of the right attributed to Aqua Capital Management in this Assessment Package."

The remaining pages have stayed unchanged, as evidenced by the date and time stamp on the bottom left corner of each page.

**Actions:**

January 12, 2012 Appropriative Pool – Approved unanimously

January 12, 2012 Non-Agricultural Pool – Approved by majority vote the 2011-2012 Assessment Package including all footnotes and dialog on storage losses be included, subject to any changes which the Chair of the Non-Ag Pool and Chair of the Advisory Committee determines appropriate

January 12, 2012 Agricultural Pool – Approved unanimously the 2011-2102 Assessment Package which was in the meeting package today and to have the Agricultural Pool Chair and Agricultural Pool Legal Counsel review the Non-Agricultural footnotes being added to page 13A, 14A, and 15A, and presented to the Advisory Committee and Watermaster Board

January 19, 2012 Advisory Committee – Approved unanimously

January 26, 2012 Watermaster Board –

# **2011-2012 ASSESSMENT PACKAGE**

CAN BE FOUND ON OUR FTP SITE:

[WWW.CWBM.ORG/FTP](http://WWW.CWBM.ORG/FTP)

PLEASE LOOK IN THE FOLDER:

MEETINGS, PACKAGES, AND AGENDAS

FOR THE PDF TITLED:

20120126 2011-2012 Revised Draft Assessment Package

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# CHINO BASIN WATERMASTER

## III. BUSINESS ITEM

### B. LEVYING REPLENISHMENT AND ADMINISTRATIVE ASSESSMENTS



**RESOLUTION 12-03**

**A RESOLUTION OF THE CHINO BASIN WATERMASTER LEVYING REPLENISHMENT AND ADMINISTRATIVE ASSESSMENTS FOR FISCAL YEAR 2011- 2012**

WHEREAS, the Chino Basin Watermaster was appointed on January 27, 1978, under Case No. RCV 51010 (formerly case No. SCV 164327) entitled Chino Basin Municipal Water District v. City of Chino, et al., with powers to levy and collect administrative and replenishment assessments necessary to maintain water levels and to cover the cost of administering the Chino Basin Judgment; and

WHEREAS, the Watermaster Advisory Committee approved and the Watermaster Board adopted the Fiscal Year 2010-2011 Budget on June 28, 2007 to carry out the necessary Watermaster functions under the Judgment; and

WHEREAS, the parties named in this Judgment have pumped 1,238.791 acre-feet of water in excess of the operating safe yield, which is required to be replaced at the expense of the parties in accordance with the assessment formulas for the respective pools.

NOW, THEREFORE, BE IT RESOLVED that the Chino Basin Watermaster levies the respective assessments for each pool effective January 26, 2012 as showed on Exhibit "A" attached hereto.

BE IT FURTHER RESOLVED, that pursuant to the Judgment, each party has thirty-days from the date of invoice to remit the amount of payment for assessments due. After that date, interest will accrue on that portion which was due as provided for in Section 55 (c) of the Judgment.

THE FOREGOING RESOLUTION was

**APPROVED** by the Advisory Committee on the 19<sup>th</sup> day of January 2012.

**ADOPTED** by the Watermaster Board on the 26<sup>th</sup> day of January 2012.

By:

\_\_\_\_\_  
Chairman, Watermaster Board

APPROVED:

\_\_\_\_\_  
Chairman, Advisory Committee

ATTEST:

\_\_\_\_\_  
Secretary, Watermaster Board

Exhibit "A"  
Resolution 12-03

Summary  
of  
Assessments  
Fiscal Year 2011-2012  
Production Year 2010-2011

1. OVERLYING (NON-AGRICULTURAL) POOL

a.	2011-2012 Budget	\$ <u>8.60</u> Per AF - Admin.
		\$ <u>40.54</u> Per - OBMP
b.	Replenishment	\$ <u>574.00</u> Per AF

2. APPROPRIATIVE POOL

a.	Administration	
1.	2010-2011 Budget	\$ <u>8.60</u> Per AF - Admin.
		\$ <u>40.54</u> Per - OBMP
2.	Ag Pool Reallocated	
		\$ <u>5.24</u> Per AF - Admin.
		\$ <u>24.69</u> Per AF - OBMP
b.	100% Net Replenishment	\$ <u>574.00</u> Per AF
c.	15/85 Water Activity	
	15% Replenishment Assessments	<u>\$9,368.20</u>
	15% Water Transaction Activity	<u>\$483,590.00</u>
d.	Pomona Credit	<u>\$ 0.0</u>
e.	Recharge Debt Payment	<u>\$450,964.00</u>

STATE OF CALIFORNIA            )  
  ) ss  
COUNTY OF SAN BERNARDINO    )

I, Danielle Maurizio Secretary of the Chino Basin Watermaster, DO HEREBY CERTIFY that the foregoing Resolution being No. 12-03 was adopted at a regular meeting of the Chino Basin Watermaster Board by the following vote:

AYES:            0  
NOES:            0  
ABSENT:          0  
ABSTAIN:         0

CHINO BASIN WATERMASTER

\_\_\_\_\_  
Secretary

Date: \_\_\_\_\_



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# CHINO BASIN WATERMASTER

## III. BUSINESS ITEM

### C. MATERIAL PHYSICAL INJURY ANALYSIS





# CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730  
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

## STAFF REPORT

**DATE:** January 26, 2012  
**TO:** Board Members  
**SUBJECT:** Update and Material Physical Injury Analysis for All Local Supplemental Storage Agreement Applications Pending as of December 15, 2011

### SUMMARY

**Issue** – There are seven pending Applications for Local Supplemental Storage Agreements. The applications have not been acted upon by Watermaster because there are many pending issues regarding supplemental storage, particularly regarding classification of the types of storage and regarding the current cap on Storage of Supplemental Water.

**Recommendation** – Staff recommends receiving and filing WEI's Material Physical Injury analysis.

**Fiscal Impact** –None.

### BACKGROUND

The Court approved the Peace Agreement, the Implementation Plan and the goals and objectives identified in the OBMP Phase I Report on July 13, 2000, and ordered Watermaster to proceed in a manner consistent with the Peace Agreement. Under the Peace Agreement, Watermaster approval is required for applications to store, recapture, recharge or transfer water, as well as for applications for credits or reimbursements and storage and recovery programs.

On December 2, 2011, Notices were issued for the City of Upland's and San Antonio Water Company's Applications for Local Supplemental Storage Agreements, as well as Applications for Recharge. The Applications for a Local Storage Agreement, inclusive of the Application for Recharge, were placed on the December 8, 2011 Appropriative Pool, Non-Ag Pool, and Agricultural Pool meeting agendas. The applications were discussed extensively during the Pool meetings. The Appropriative Pool and Non-Ag Pool deferred the items. The Agricultural Pool took unanimous action to defer the Local Supplemental Storage Agreements, but to approve by majority vote the Applications for Recharge. The issue was then discussed at the Advisory Committee and Board meeting. The Board directed Staff to analyze all of the pending Applications for Local Supplemental Storage Accounts for Material Physical Injury, and to agendize the Application for Recharge on the January Pool meetings.

## DISCUSSION

As directed by the Board, Staff has evaluated the pending Applications. There are currently seven pending Applications for Local Supplemental Storage Agreements that Watermaster Staff has been able to locate as of the date of this Staff Report. The Applications (attached) were submitted by Cucamonga Valley Water District, City of Fontana, Monte Vista Water District, Fontana Water Company, Inland Empire Utilities Agency, City of Upland, and San Antonio Water Company (SAWCO). They date as far back as May 2006, and are for a total of 81,500,000 acre-feet. By placing this item on the Appropriative Pool agenda, Staff intends to solicit information from Pool members as to whether there are any other Applications not previously identified.

The applications have not been acted upon by Watermaster because there are many pending issues regarding supplemental storage, particularly regarding the rules for priority among competing applications, the classification of the types of storage and regarding the current cap on Storage of Supplemental Water described in paragraph 5.2(b)(iv) and 5.2(b)(vii) of the Peace Agreement the Peace II Agreement increased from 50,000 to 100,000 acre-feet.

Further, attached, please find Wildermuth Environmental, Inc.'s (WEI's) Analysis of Material Physical Injury for each of the pending Applications for Local Supplemental Storage Agreements. WEI's analysis concludes:

- None of the storage programs in the proposed Applications would cause a Material Physical Injury under the assumptions in which they were analyzed. For the City of Upland, the Material Physical Injury analysis assumed that the recycled water recharge component was excluded. A great deal of work with regulatory participation would need to be completed prior to Watermaster being able to complete a Material Physical Injury analysis for a recycled water recharge project at the Upland Basin.
- Some changes in the Applications should be formally submitted to the Watermaster prior to approving the Applications to ensure that the Applications are complete and that the proposed storage programs are implemented consistent with the Material Physical Injury analysis described.
- Watermaster should require that the amount and water quality of the water recharged in the Basin pursuant to an Application be carefully monitored and provided to the Watermaster in a timely manner. These data are necessary for Watermaster accounting, regulatory reporting required in the Watermaster-IEUA Recharge Permit, and for other groundwater management purposes.

Staff recommends receiving and filing WEI's Material Physical Injury Analysis. Staff further recommends that a Workshop be held in the near future to discuss how to proceed with storage issues so that proposed storage opportunities are not frustrated by the absence of clear rules and guidelines. Because of the close relationship between the subjects of Storage and Preemptive Replenishment and the handling of Local Supplemental Storage Agreements, Staff believes that is reasonable for Watermaster to address these subjects by May 15, 2012 in sufficient time to allow the resolution to be included within the proposed Court filing on the update to the Recharge Master Plan.

**Actions:**

January 12, 2012 Appropriative Pool – Approved unanimously to receive and file

January 12, 2012 Non-Agricultural Pool – Approved unanimously to receive and file, subject to any changes which the Chair of the Non-Ag Pool and Chair of the Advisory Committee determines appropriate

January 12, 2012 Agricultural Pool – Approved unanimously to receive and file

January 19, 2012 Advisory Committee – Approved unanimously to receive and file Wildermuth's Material Physical Injury Analysis, eliminating staff's recommendation to scheduling of a workshop, while replacing that recommendation with having a process where representatives of all three Pools, Watermaster staff, technical experts, and legal counsel start working through storage identification of what might be the issues and once that group develops a draft process to address storage issues, bring that through the entire Watermaster process

January 26, 2012 Watermaster Board –

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January 9, 2012

Chino Basin Watermaster  
Attention: Ms. Danielle Maurizio, Interim CEO  
9641 San Bernardino Road  
Rancho Cucamonga, CA 91730

**Subject: Analysis of Material Physical Injury for Local Storage Agreement Application pending as of December 15, 2011**

Dear Ms. Maurizio:

Pursuant to your direction, Wildermuth Environmental, Inc. (WEI) conducted a material physical injury (MPI) analysis of seven pending Local Storage Agreement (LSA) applications. The sum total of requested storage capacity is 81,500 acre-ft. These LSA applications are listed in Table 1 along with their key features. Figure 1 shows the locations of the spreading basins and wells and the depth to groundwater for Spring 2010. Watermaster provided WEI with these applications on or slightly after December 15, 2011. Subsequently, WEI reviewed the LSA applications and corresponded with some the applicants to clarify the intent of their applications. If material clarifications were made, the applicant was requested to revise its LSA applications with the Watermaster. This MPI analysis is based on the "clarified" LSA applications. In all cases, it is assumed that Watermaster's recharge operations would occur before recharge by the applicant if the applicant's use of spreading basins would conflict with Watermaster's recharge operations.

**Material Physical Injury Analysis**

This MPI analysis was performed pursuant to the Watermaster Rules and Regulations and the Peace Agreement. Specifically, Article 10 of Watermaster Rules and Regulations (paragraph 10.10) requires that:

"[...] Watermaster prepare a written summary and analysis (which will include an analysis of the potential for material physical injury) of the Application and provide the Parties with a copy of the written summary and advanced notice of the date of Watermaster's scheduled consideration and possible action on any pending Applications."

Per the Peace Agreement, material physical injury is defined as:

"[...] material injury that is attributable to Recharge, Transfer, storage and recovery, management, movement or Production of water or implementation of the OBMP, including, but not limited to, degradation of water quality, liquefaction, land subsidence, increases in pump lift and adverse impacts associated with rising groundwater" (Peace Agreement, page 8).

This report addresses MPI only. None of the proposed LSA project descriptions contain the operational detail necessary for the application of Watermaster's groundwater models to evaluate MPI. Some applications did not provide recapture plans, and as such the MPI analysis only considers recharge and storage. The MPI analysis presented herein is based on our professional experience and judgment in the Chino Basin, including the collection and analysis of monitoring data, past evaluations of Chino Basin storage programs, groundwater modeling of various groundwater management alternatives in the Chino Basin, and prior MPI analyses—specifically, recent past modeling investigations for the Dry-year Yield Program Expansion (2007-2008), the *Production Optimization and Evaluation of the Peace II Project Description* (2009), and the draft 2010 *State of the Basin Report*. Each LSA application is evaluated below in the order submitted to the Watermaster.

### **Cucamonga Valley Water District LSA Application Dated May 3, 2006**

The Cucamonga Valley Water District (CVWD) applied for an LSA for 20,000 acre-ft of storage and intends to fill that storage with water imported from the Central Valley and delivered to the Chino Basin through the State Water Project (SWP) and Metropolitan Water District of Southern California (Metropolitan) facilities. Once in the Chino Basin area, the water would be placed into storage at a maximum rate of 2,500 acre-ft/yr through recharge in the San Sevaire Basins and by in-lieu recharge using the Lloyd Michael treatment plant. Recovery of the water would be from CVWD wells at a rate of 2,500 acre-ft/yr.

**Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift).** This is a put-and-take program, and as such the general impact will be to increase storage and thereby increase groundwater levels very slightly in the basin followed by a return to the groundwater levels that would exist if this storage program never occurred. The proposed project will produce a localized, short-term increase in groundwater levels in the vicinity of the San Sevaire Basins and a slight general increase in groundwater levels near the CVWD production wells. The depth to groundwater around CVWD Chino Basin wells ranges from 500 ft below ground surface (bgs) to 580 ft-bgs. The depth to groundwater around the San Sevaire Basins area is about 650 ft-bgs.<sup>1</sup> There will be no adverse impacts from the groundwater level changes caused by the proposed program.

**Balance of Recharge and Discharge in Every Area and Subarea.** As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby slightly increase groundwater levels in the Basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. There may be an imbalance because recharge may not occur or be tributary to the where the stored water is produced by CVWD. However this imbalance will likely be small and produce a slight beneficial increase in groundwater levels in the northeastern part of the basin in Management Zones 2 and 3, which are currently experiencing a ten-year decline in groundwater levels. There will be no adverse impacts on the balance of recharge and discharge caused by the proposed program.

**Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water.** The 2004 Regional Water Quality Control Plan (Basin Plan) for the Santa Ana Watershed has total dissolved

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<sup>1</sup> Recently, a perched groundwater system was discovered under the San Sevaire Basins with a depth to water of about 200 feet. This water eventually finds its way into the regional groundwater system with depth to water greater than 600 feet.



solids (TDS) and total nitrogen<sup>2</sup> (TN) objectives in the Chino North Management Zone of 420 mg/L and 5 mg/L, respectively. Watermaster and the IEUA have agreed to manage recharge in the Chino Basin such that the ten-year, volume-weighted average for TDS and TN in the combined storm, imported, and recycled water recharge will not exceed the Basin Plan objectives. The average TDS and TN concentrations of the water proposed to be recharged and stored by the CVWD would be identical to SWP water at about 290 mg/L and 1 mg/L, respectively. The volume-weighted average TDS and TN concentrations for the Chino North Management Zone is about 340 mg/L and 9.5 mg/L, respectively. The recharge of this water, with TDS and TN concentrations less than their respective objectives and specifically with concentrations less than the current TDS and TN concentrations, will actually improve water quality in the Basin. Therefore, the proposed storage program will not encroach upon the current assimilative capacity or interfere with Watermaster and IEUA's recharge activities. There will be no adverse TDS or TN impacts caused by the proposed program.

**Water Quality Impacts on Other Pumpers.** The recharge of imported water with SWP water quality in the San Sevaire Basins will have a beneficial water quality impact to the Basin. The water quality of groundwater produced in the Chino Basin by the CVWD is excellent and deferring its production during in-lieu recharge also improves water quality in the Basin. There will be no adverse impacts to other pumpers caused by the proposed program.

**Conclusion.** There will be no MPI from the proposed LSA.

### **City of Fontana LSA Application Dated May 18, 2010**

The City of Fontana applied for an LSA for 5,000 acre-ft and intends to fill that storage with recycled water that is recharged pursuant to the Watermaster and IEUA recharge permit. The water stored pursuant to the proposed LSA will be transferred to a Watermaster party at some time in the future. The City has an agreement with the City of Ontario that transfers the first 3,000 acre-ft/yr of the City of Fontana share of recycled water recharge to the City of Ontario. The City of Fontana anticipates that its share of the recycled water recharge will exceed the 3,000 acre-ft/yr transferred to the City of Ontario and desires a storage account to store its recycled water for subsequent transfer. The City of Fontana did not include a recapture plan in its LSA application, so it is unclear as to whom the stored water would be transferred. A recharge application for the current IEUA and Watermaster recycled water recharge program was approved by Watermaster in 2007 pursuant to the Watermaster Rules and Regulations and the Peace Agreement, and therefore the recharge of recycled water for the City of Fontana's proposed storage program has already been reviewed and approved by the Watermaster.

**Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift).** This is a put-and-take program, and as such the general impact will be to increase storage and thereby slightly increase groundwater levels in the Basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. The proposed project will produce a localized increase in groundwater levels in the vicinity of the recharge basins where the recycled water recharge occurs, and this mounding will continue at a near constant level for the duration equal to the minimum of the of the City's LSA term or the duration of the IEUA and Watermaster's recycled water recharge program. The depth to groundwater beneath the recycled water recharge facilities

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<sup>2</sup> Total nitrogen includes organic and inorganic nitrogen. The MCL, expressed, as nitrogen is 10 mg/L and is equivalent to the nitrate MCL as 45 mg/L.

ranges from 230 to 680 ft-bgs. There will be no adverse impacts from the groundwater level changes caused by the proposed program.

**Balance of Recharge and Discharge in Every Area and Subarea.** As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby increase groundwater levels slightly in the Basin followed by a return to the groundwater levels that would exist if this proposed storage program never occurred. There may be an imbalance because recharge may not occur or be tributary to where the stored water is actually produced. The impact of the proposed storage program on the balance of recharge discharge cannot be determined until a recapture plan is filed and approved by Watermaster.

**Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water.** This issue has already been covered in the recharge application for the current recycled water recharge program, and therefore there will be no material physical injury.

**Water Quality Impacts on Other Pumpers.** This issue has already been covered in the recharge application for the current recycled water recharge program, and therefore there will be no material physical injury.

**Conclusion.** There will be no MPI from the proposed LSA for the recharge and storage of recycled water. The City of Fontana will have to submit an application to Watermaster to recapture the water stored in the proposed LSA, and a separate MPI analysis will need to be done on the recapture plan.

### **Monte Vista Water District LSA Application Dated May 18, 2010**

The MVWD applied for an LSA for 10,000 acre-ft and intends to fill that storage with recycled water that is recharged pursuant to the Watermaster and IEUA recharge permit and with SWP water that is treated at the WFA treatment plant and injected into the Basin through its aquifer storage and recovery (ASR) wells 4, 30, and 32. The MVWD is uncertain as to how much of each type of water it will store and suggested that the Watermaster consider that the MPI analysis cover all the water being either imported water or recycled water to bookend the MPI analysis. The MVWD will recover the stored water through its own wells. A recharge application for the current recycled water recharge program was approved by Watermaster in 2007 pursuant to the Watermaster Rules and Regulations and the Peace Agreement, and therefore the recharge of recycled water in the MVWD's proposed storage program has already been reviewed and approved by Watermaster. The proposed groundwater storage program, using imported water injected into Basin through the MVWD's ASR wells and recovered with their wells, was partially covered in an MVWD recharge application that was approved by Watermaster in 2006. The 2006 recharge application assumed an annual put and take cycle of up to 3,500 acre-ft/yr. The MVWD would like to store up to 10,000 acre-ft of injected water for subsequent recapture.

**Groundwater Level Impacts (liquefaction, land subsidence and increases in pump lift).** For either water source, this is a put-and-take program, and as such the general groundwater level impact will be to increase storage and thereby increase groundwater levels slightly in the Basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. When recharging recycled water, the proposed project will produce a slight localized increase in groundwater levels in the vicinity of the recharge basins, where the recycled water recharge occurs, and this slight mounding will continue at a near constant level for the duration equal to the minimum of the MVWD's LSA term or the duration of the IEUA and Watermaster's recycled water

recharge program. The depth to groundwater beneath the recycled water recharge facilities ranges from 230 to 680 ft-bgs. When imported water is being recharged and stored through the MVWD's ASR wells, the proposed program will produce a localized increase in groundwater levels in the vicinity of the injection wells and a slight general increase in groundwater levels in the area bounded by the injection wells. The depth to groundwater in the area around the MVWD's ASR wells ranges from 410 to 570 ft-bgs. The expected increase in groundwater levels will likely average less than 15 feet. There will be no adverse impacts from the groundwater level changes caused by the proposed storage program.

**Balance of Recharge and Discharge in Every Area and Subarea.** As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby slightly increase groundwater levels in the Basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. For recycled water recharge, there may be a slight imbalance because recharge may not occur or be tributary to where the stored water is actually produced. As to the injection of imported water at the MVWD ASR wells, the recharge and recovery locations are the same, and therefore the balance of recharge and discharge is almost assured. The proposed injection of imported water provides a balance of recharge and discharge at the "subarea" level and augments the recharge capacity of the Management Zone 1 spreading basins. Imported water recharged at the MVWD ASR wells will contribute to Watermaster's obligation to recharge 6,500 acre-ft/yr of supplemental water into Management Zone 1. There will be no adverse impacts on the balance of recharge and discharge caused by the proposed storage program.

**Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water.** For recycled water, this issue has already been covered in the recharge application for the current recycled water recharge program, and therefore there will be no material physical injury.

For the Chino North Management Zone, the 2004 Basin Plan for the Santa Ana Watershed has TDS and TN objectives of 420 mg/L and 5 mg/L, respectively. Watermaster and the IEUA have agreed to manage recharge in the Chino Basin so that the ten-year, volume-weighted average for TDS and TN in the combined storm, imported, and recycled water recharge will not exceed the Basin Plan objectives. The average TDS and TN concentrations of the water proposed to be recharged and stored by the MVWD would be identical to SWP water at about 290 mg/L and 1 mg/L, respectively. The volume-weighted average TDS and TN concentrations for the Chino North Management Zone are about 340 mg/L and 9.5 mg/L, respectively. The recharge of water with TDS and TN concentrations less than their respective objectives will actually improve water quality in the Basin. Therefore, the proposed storage program will not encroach upon the current assimilative capacity or interfere with Watermaster and the IEUA's recharge activities. There will be no adverse TDS or TN impacts caused by the proposed program.

**Water Quality Impacts on Other Pumpers.** For recycled water and storage, this issue has already been covered in the recharge application for the current recycled water recharge program, and therefore there will be no material physical injury. As for the injection of imported water at the MVWD's ASR wells, water quality impacts on other nearby pumpers could occur from minor changes in the groundwater flow system that result from injection. In 2005, these impacts were estimated by the MVWD's consultant (CDM) to be negligible in the MVWD ASR Feasibility Study and related Finding of Consistency. WEI did not conduct an independent modeling assessment to validate this finding. However, we concur that the impact should be negligible and likely not measurable at other nearby wells.

**Conclusion.** There will be no MPI from the proposed LSA.

### **Fontana Water Company LSA Application Dated April 20, 2011**

The Fontana Water Company (FWC) applied for an LSA for 10,000 acre-ft and intends to fill that storage with Lytle Creek surface water, Lytle Basin groundwater, Rialto Basin groundwater, and SWP water. The FWC is uncertain as to the quantity of each type of water it will store, as it proposes to divert water from its potable water system through new turnouts on that system. The FWC proposes to conduct all recharge at existing active spreading basins within its service area, including the San Sevaine, Victoria, Banana, Hickory, RP3 and Declez Basins. The water quality of the recharged water will be dependent on the mix of water sources in their potable system when the recharge occurs. The water stored pursuant to the proposed LSA will be pumped by the FWC from its own wells or transferred to a Watermaster party at some time in the future. The FWC did not include a recapture plan in its LSA application, so it is unclear as to whom the stored water would be transferred.

**Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift).** For any of the water sources, this is a put-and-take program, and as such the general impact will be to increase storage and groundwater levels in Management Zones 2 and 3, followed by a return to the groundwater levels that would exist if this storage program never occurred. The depth to groundwater beneath the spreading basins ranges from about 150 ft-bgs to 6500 ft-bgs. There will be no adverse impacts from the groundwater level changes caused by the proposed program. In fact, the proposed program may slightly increase groundwater levels in the Jurupa Community Services District and Chino Desalter Authority well fields.

**Balance of Recharge and Discharge in Every Area and Subarea.** As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby slightly increase groundwater levels in the Basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. There may be a slight imbalance because recharge may not occur or be tributary to where the stored water is actually produced. There will be no adverse impacts on the balance of recharge and discharge caused by the proposed storage program.

**Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water.** The 2004 Basin Plan for the Santa Ana Watershed has TDS and TN objectives in the Chino North Management Zone of 430 mg/L and 5 mg/L, respectively. Watermaster and the IEUA have agreed to manage recharge in spreading basins in the Chino Basin so that the ten-year, volume-weighted average for TDS and TN concentrations will not exceed the Basin Plan objectives. The TDS and TN concentration of the water proposed to be recharged and stored by the FWC will vary over time due to the variable amounts of source waters in their potable system at the time of recharge. The FWC suggests that the TDS and TN concentrations of the water proposed to be recharged will be typically be around 240 mg/L and 4 mg/L, respectively.<sup>3</sup> The volume-weighted average TDS and TN concentrations for the Chino North Management Zone are about 340 mg/L and 9.5 mg/L, respectively. Therefore, the proposed recharge project will not encroach upon the current assimilative capacity or interfere with Watermaster and IEUA's recharge activities. There will be no adverse TDS or TN impacts caused by the proposed storage program.

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<sup>3</sup> Based on 2009 and 2010 Consumer Confidence Reports provided by the FWC

**Water Quality Impacts on Other Pumpers.** Based on FWC water quality and current ambient water quality conditions in the Basin, the recharge of imported water with FWC potable supply water quality will have a beneficial impact to the Basin.

**Conclusion.** There will be no MPI from the proposed LSA for the recharge and storage of recycled and imported water.

### **Inland Empire Utility Agency LSA Application Dated June 24, 2011**

The IEUA applied for an LSA for 25,000 acre-ft of storage and intends to fill that storage with SWP water imported through Metropolitan. Recharge will be accomplished in spreading basins, the MVWD ASR wells, and/or by in-lieu recharge—the precise amounts and locations to be determined by Watermaster. No recapture plan was filed.

**Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift).** This is a put-and-take program, and as such the general impact will be to increase storage and thereby increase groundwater levels slightly in the basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. The proposed project will produce a localized, short-term increase in groundwater levels in the vicinity of the recharge basins and ASR wells and a slight general increase in groundwater levels in the well fields where production is reduced to accomplish in-lieu recharge. The depth to groundwater beneath the imported water recharge facilities ranges from 230 to 680 ft-bgs. The depth to groundwater in the area around the MVWD ASR wells ranges from 410 to 570 ft-bgs. The depth to groundwater underlying the well field of the appropriators that can participate in in-lieu recharge ranges across the northern part of the Chino Basin from about 400 to 650 ft-bgs and in the Pomona to City of Chino areas from about 350 to 100 ft-bgs. There will be no adverse impacts from the groundwater level changes caused by the proposed storage program.

**Balance of Recharge and Discharge in Every Area and Subarea.** As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby increase groundwater levels very slightly in the basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. There may be a slight imbalance because recharge may not occur or be tributary to where the stored water is actually produced. However, this imbalance will be small and likely produce a slight and beneficial increase in groundwater levels in the northeastern part of the basin. Watermaster will use its authority and discretion to assign the rate and location of recharge to improve the balance the recharge and discharge. There will be no adverse impacts on the balance of recharge and discharge caused by the proposed storage program.

**Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water.** The 2004 Basin Plan for the Santa Ana Watershed has TDS and TN objectives in the Chino North Management Zone of 420 mg/L and 5 mg/L, respectively. Watermaster and the IEUA have agreed to manage recharge in the Chino Basin so that the ten-year, volume-weighted average TDS and TN concentrations in the combined storm, imported, and recycled water recharge will not exceed the Basin Plan objectives. The average TDS and TN concentrations of the water proposed to be recharged and stored by the IEUA would be identical to SWP water, averaging about 290 mg/L and 1 mg/L, respectively. The volume-weighted average TDS and TN concentrations for the Chino North Management Zone are about 340 mg/L and 9.5 mg/L, respectively. The recharge of water with TDS and TN concentrations less than their respective objectives, and more specifically less than current concentrations, will actually lower the TDS and TN concentrations in the Basin.

Therefore, the proposed storage program will not encroach upon the current assimilative capacity or interfere with Watermaster and the IEUA's recharge activities. There will be no adverse TDS or TN impacts caused by the proposed storage program.

**Water Quality Impacts on Other Pumpers.** The recharge of imported water with SWP water quality will have a beneficial impact on the Basin. The water quality of groundwater produced by participating appropriators is generally excellent, and deferring its production during in-lieu recharge would improve water quality in the Basin. Therefore, there will be no adverse water quality impacts to other pumpers caused by the proposed program.

**Conclusion.** There will not be MPI from the proposed LSA.

### **City of Upland LSA Application Dated November 29, 2011**

The City of Upland applied for an LSA for 9,500 acre-ft and intends to fill that storage with Six Basins area groundwater, San Antonio Creek water, Cucamonga Basin groundwater, and recycled water produced by the IEUA. The City of Upland is uncertain as to the quantity of each type of water it will store. The City of Upland will divert water directly from its potable water system into the Upland Basin. The City of Upland proposes to conduct all recharge in the City's Upland Basin. The water stored pursuant to the proposed LSA will be transferred to a Watermaster party at some time in the future. The City of Upland did not include a recapture plan in its LSA application, so it is unclear as to whom the stored water would be transferred. The recharge of recycled water at the Upland Basin is not covered in the existing Watermaster and IEUA recharge permit nor does the City of Upland currently possess a permit to recharge recycled water in the Upland Basin. This material physical injury analysis does not include the City of Upland's proposed recharge of recycled water. The City will need to conduct investigations pursuant to the requirements of the Department of Public Health and the Regional Board and supply the results of those investigations to Watermaster prior to Watermaster completing a material physical injury analysis for the recharge of recycled water.

**Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift).** For any of the water sources, this is a put-and-take program, and as such the general impact will be to increase storage in Management Zone 1, followed by a return to the groundwater levels that would exist if this storage program never occurred. The depth to groundwater beneath the Upland Basin is about 650 ft-bgs. There will be no adverse impacts from the groundwater level changes caused by the proposed program. In fact, the proposed storage program may lessen the subsidence observed in the northern part of Management Zone 1.

**Balance of Recharge and Discharge in Every Area and Subarea.** As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby slightly increase groundwater levels in the basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. There may be a slight imbalance because recharge may not occur or be tributary to where the stored water is actually produced. The proposed project provides a better balance of recharge and discharge at the "subarea" level. The proposed recharge of imported water recharged at the Upland Basin will contribute to the Watermaster obligation to recharge 6,500 acre-ft/yr of supplemental water into Management Zone 1. There will be no adverse impacts on the balance of recharge and discharge caused by the proposed storage program.

**Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water.** The 2004 Basin Plan for the Santa Ana Watershed has TDS and TN objectives in the Chino North

Management Zone of 430 mg/L and 5 mg/L, respectively. Watermaster and the IEUA have agreed to manage the recharge in spreading basins in the Chino Basin so that the ten-year, volume-weighted average for TDS and TN in that recharge will not exceed the Basin Plan objectives. The TDS and TN concentrations of the water proposed to be recharged and stored by the City of Upland will vary somewhat due to the variable amounts of the source water at the time of recharge. The City of Upland suggests that the TDS and TN concentrations of the water proposed to be recharged will typically be around 240 mg/L and 2 mg/L, respectively.<sup>4</sup> The volume-weighted average TDS and TN concentrations for the Chino North Management Zone are about 340 mg/L and 9.5 mg/L, respectively. The recharge of water with TDS and TN concentrations less than their respective objectives, and more specifically less than current concentrations, will actually lower the TDS and TN concentrations in the Basin. Therefore, the proposed storage program will not encroach upon the current assimilative capacity or interfere with the Watermaster and IEUA's recharge activities. There will be no adverse TDS or TN impacts caused by the proposed storage program.

**Water Quality Impacts on Other Pumpers.** Based on the City of Upland's water quality and the current ambient water quality conditions in the Basin, the recharge of the Basin with City of Upland potable water will have a beneficial water quality impact to the Basin.

**Conclusion.** There will be no material physical injury from the proposed LSA for the recharge and storage of Six Basins area groundwater, San Antonio Creek water, and Cucamonga Basin groundwater.

### **San Antonio Water Company LSA Application Dated December 1, 2011**

The San Antonio Water Company (SAWCo) applied for an LSA for 2,000 acre-ft and intends to fill that storage with San Antonio Creek water. The SAWCo proposes to conduct all recharge in the Upland Basin and Montclair Basin Number 1. The SAWCo did not include a recapture plan in its LSA application, so it is unclear as to how the stored water will be recaptured.

**Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift).** This is a put-and-take program, and as such the general impact will be to increase groundwater levels and storage in Management Zone 1, followed by a return to the groundwater levels that would exist if this storage program never occurred. The depth to groundwater beneath the Upland Basin is about 650 ft-bgs and about 580 beneath the Montclair Basin Number 1. There will be no adverse impacts from the groundwater level changes caused by the proposed program. In fact, the proposed storage program may lessen the subsidence observed in the northern part of Management Zone 1.

**Balance of Recharge and Discharge in Every Area and Subarea.** As mentioned above, this is a put-and-take program, and as such the general impact will be to increase storage and thereby slightly increase groundwater levels in the basin, followed by a return to the groundwater levels that would exist if this storage program never occurred. There may be a slight imbalance because recharge may not occur or be tributary to where the stored water is actually produced. The proposed project provides a better balance of recharge and discharge at the "subarea" level. The proposed recharge of imported water recharged at the Upland Basin and Montclair Basin Number 1 will contribute to the Watermaster obligation to recharge 6,500 acre-ft/yr of supplemental water into Management Zone 1. There will be no adverse impacts on the balance of recharge and discharge caused by the proposed storage program.

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<sup>4</sup> Based on potable system water quality data provided by the City

**Total Dissolved Solids and Total Nitrogen Concentration of the Recharge Water.** The 2004 Basin Plan for the Santa Ana Watershed has TDS and TN objectives in the Chino North Management Zone of 430 mg/L and 5 mg/L, respectively. The Watermaster and the IEUA have agreed to manage the recharge in spreading basins in the Chino Basin so that the ten-year, volume-weighted average for TDS and TN in that recharge will not exceed the Basin Plan objectives. SAWCo did not provide Watermaster with water quality information for San Antonio Creek. That said, the San Antonio Creek water quality data available to WEI from prior investigations suggest that the average TDS and TN concentrations of the water proposed to be recharged and stored by the SAWCo will typically be around 250 mg/L and 1 mg/L, respectively.<sup>5</sup> The volume-weighted average TDS and TN concentrations for the Chino North Management Zone are about 340 mg/L and 9.5 mg/L, respectively. The recharge of water with TDS and TN concentrations less than their respective objectives, and more specifically less than current concentrations, will actually lower the TDS and TN concentrations in the Basin. Therefore, the proposed storage program will not encroach upon the current assimilative capacity or interfere with the Watermaster and IEUA's recharge activities. There will be no adverse TDS or TN impacts caused by the proposed storage program.

**Water Quality Impacts on Other Pumpers.** Based on the existing information on San Antonio Creek water quality and current ambient water quality conditions in the Basin, the recharge of the Basin with San Antonio Creek supply will have a beneficial water quality impact to the Basin.

**Conclusion.** There will be no material physical injury from the proposed LSA for the recharge and storage of San Antonio Creek water.

## Recommendations

As stated above for each LSA, application, it our professional opinion that none of the storage programs in the proposed LSA's would cause a material physical injury under the assumptions in which they were analyzed. For the City of Upland, our material physical injury analysis assumed that the recycled water recharge component was excluded. A great deal of work with regulatory participation would need to be completed prior to Watermaster being able to complete a material physical injury analysis for a recycled water recharge project at the Upland Basin.

Some changes in the LSA applications should be formally submitted to the Watermaster prior to approving the LSA to ensure that the LSA applications are complete and that the proposed storage programs are implemented consistent with the material physical injury analysis described herein.

Finally, Watermaster should require that the amount and quality of the water recharged in the Basin pursuant to an LSA be carefully monitored and provided to the Watermaster in a timely manner. These data are necessary for Watermaster accounting, regulatory reporting required in the Watermaster-IEUA Recharge Permit, and for other groundwater management purposes.

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<sup>5</sup> City of Upland 2010 consumer confidence report and City of Pomona 2011 consumer confidence report



Please call me if you have any questions or concerns regarding the above.

Very truly yours,

**Wildermuth Environmental, Inc.**

A handwritten signature in black ink, appearing to read "Mark Wildermuth". The signature is fluid and cursive, with a large initial "M" and a long, sweeping underline.

Mark Wildermuth, PE  
President

Encl. Table 1, Figure 1

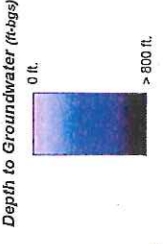
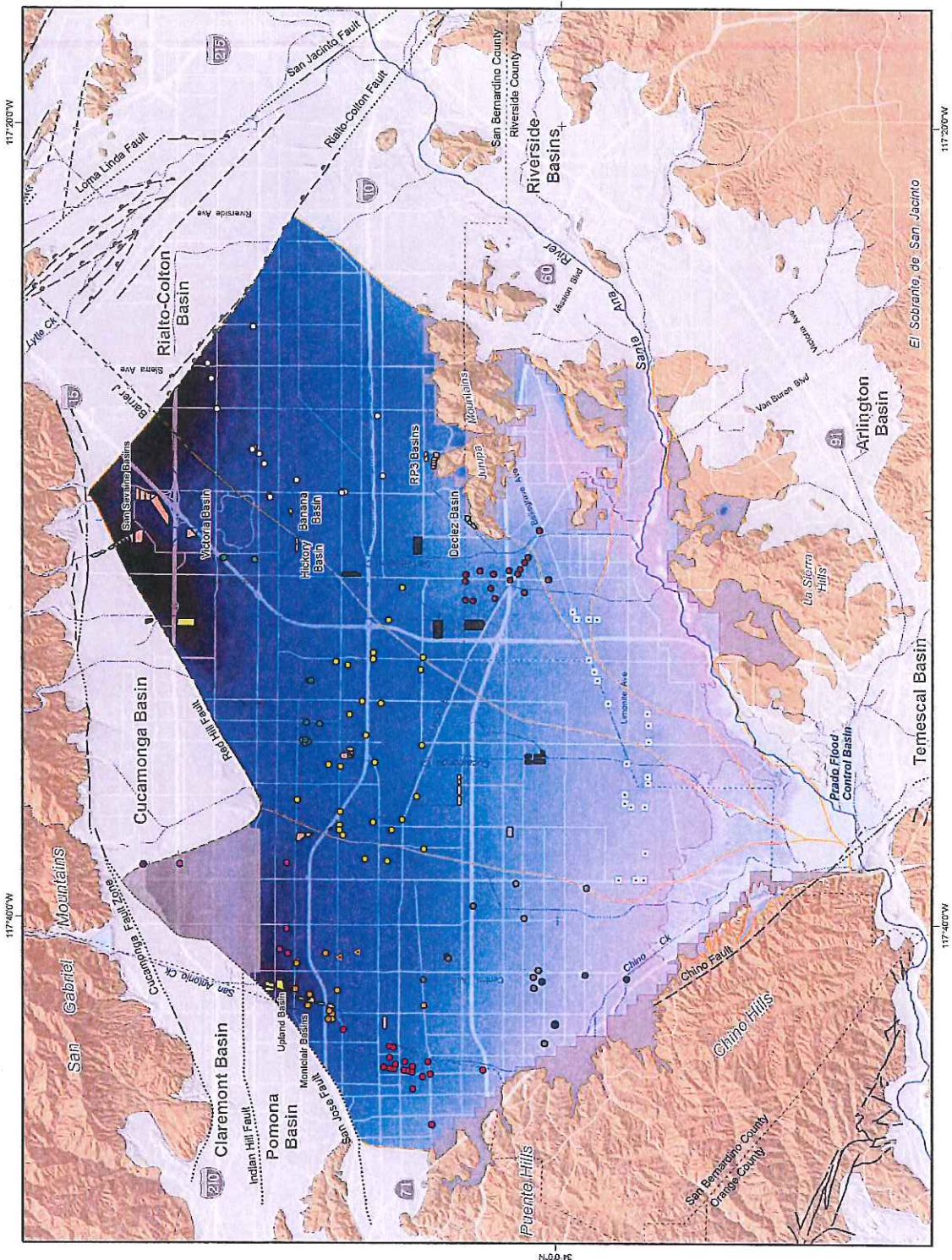
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Table 1 Summary of Local Storage Agreement Applications

Application Date	Applicant	Amount acre-ft	Type of Water	Source of Water	Method of Recharge	Location of Recharge	Recharge Rate	Notes
5/3/2006	CVWD	20,000	Imported	Central Valley water delivered through the State Water Project	Percolation & Exchange	San Seavine Basin & Lloyd Michael WWTP	2,500 acre-feet per year	
5/18/2010	City of Fontana	5,000	Recycled Water	Recycled Water Recharged by IEUA (The City is entitled to 18.5%)	Percolation	All Basins where recycled water is recharged for the existing IEUA Recycled Water Recharge Program	Dependent on the amount of recycled water IEUA recharges	1- Fontana has a contract with the City of Ontario for 3,000 acre-ft of their allotment; the 5,000 acre-ft of storage will occur after this contract is fulfilled. 2- The Application states the method of recapture is transfer to another Party; at that point, the City of Fontana and the other party will submit the appropriate applications.
6/30/2010	MYWD	10,000	Recycled and Imported	Recycled water recharged by IEUA and imported water injected at ASR wells	Percolation & Injection	All Basins where recycled water is recharged for the existing IEUA Recycled Water Recharge Program, and the MWWD ASR Injection Wells 4, 30, and 32.	Recycled water rate is dependent on the amount of recycled water IEUA recharges. The injection rate at the MWWD ASR wells will be up to 3,500 acre-ft/yr.	1- In 2006, Watermaster approved a recharge application for the MWWD ASR Project to recharge 3,500 acre-ft/yr of Imported State Water Project water, and recovery of the water; would occur in the same year. 2- This storage application is for the over-year storage of the injected imported water and IEUA recharged recycled water up to 10,000 acre-ft.
4/20/2022	FWC	10,000	Local Supplemental	Lytle Creek Surface Water, Lytle Basin Water, Rialto Basin Water, State Water Project Water	Percolation	Active spreading Basins in the FWC service area including the San Seavine, Victoria, Banana, Hickory, RP3 and Declerz Basins	Unspecified	
6/24/2011	IEUA	25,000	Imported	Imported water from Metropolitan Water District or potential water exchanges with other State Water Project contractors.	Percolation, Exchange, and Injection	All spreading basins available to Watermaster and IEUA, injection at the MWWD ASR wells, and in-lieu recharge.	The location and rate of recharge will be determined by the Watermaster.	This is preemptive replenishment water purchased by Chino Basin Watermaster for Desalter replenishment obligations. IEUA will purchase water for storage, and sell to CBWM when desalter replenishment water is needed starting in 2013.
11/29/2011	City of Upland	9,500	Local Supplemental and Recycled	IEUA recycled water, and surface water from San Antonio Creek, and groundwater from the Six Basins and the Cucamonga Basin.	Percolation	Upland Basin	1 foot per day	Includes water from its shareholder entitlements and partnerships with SAWCO and WECWC for waters from San Antonio Canyon, Six Basins, and Cucamonga Basin. It also includes potential recharge of Uplands share of IEUA recycled water at Upland Basin.
12/1/2011	SAWCO	2,000	Local Supplemental	San Antonio Creek	Percolation	Upland and Montclair Basin 1	250 acre-ft per month	SAWCO has the majority of surface water rights in the San Antonio Creek.

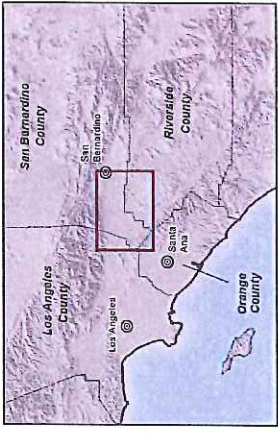
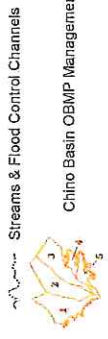
**Table 1 Summary of Local Storage Agreement Applications**

Applicant	Proposed Method of Recapture	Recapture Amount	Changes to Application to be Made by Applicant
CVWD	Pump from existing wells	2500 acre-ft per year	<p>1- On the transmittal letter under "Enclosures" change "Form 3" to read Form 4".<sup>1</sup></p> <p>2- On Form 1, under the heading "Material Physical Injury", the "no" box should be checked.<sup>1</sup></p> <p>3- On Form 2, under the heading "Source and Supply, Other" replace "San Joaquin River Agricultural Rights" with "Central Valley water delivered through the State Water Project".<sup>1</sup></p> <p>4- On Form 4, under the heading "Method of Recapture (if other than pumping)" delete the text.<sup>1</sup></p>
City of Fontana	Transfer to another party	An Application of Recapture will be completed prior to the transfer	
MVWD	Pump from existing wells	Not specified	<p>1- On Form 2, under "Source of Supply" check "State Water Project"</p>
FWC	Transfer to another party and pump from existing wells	An Application of Recapture will be completed prior to production	<p>1- On Form 1, under "Water quality and Water Levels" add "Please see the draft 2010 State of the Basin Report for groundwater levels and water quality in the FWC service area"; 2- On Form 2, under "Sources of Supply", add "Lytle Creek Surface Water, Lytle Basin Water, Rialto Basin Water, State Water Project Water"; 3- On Form 2, under "Method of Recharge" add "Active spreading Basins in the FWC service area including the San Sevalme, Victoria, Banana, Hickory, RP3 and Decider Basins"; on Form 2, under "Water quality and Water Levels" add "Please see the draft 2010 State of the Basin Report for groundwater levels and water quality in the FWC service area"</p>
IEUA	Transfer	An Application of Recapture will be completed prior to transfer.	<p>1 - Submit a Form 2; 2- On Form 1, remove language that "Form 2 is not required-CBWJM will be recharging as preemptive";</p> <p>3- On Form 2, under "Method of Recharge" check percolation, injection, and exchange in that all spreading basins available to CBWJM/IEUA as well in-lieu and MVWD ASR wells. Additionally on Form 2 indicate that the location and rate of recharge will be determined by the Watermaster; 4- On Form 2 state that the source of water is State Project Water.</p>
City of Upland	Transfer	An Application of Recapture will be completed prior to transfer.	<p>1 - On Form 2, under the "Source of Supply" Check the box next to "Recycled Water" in addition to "Local Supplemental Water".</p>
SAWCO	Not specified	An Application of Recapture will be completed prior to the recapture of the water in storage	<p>1- On Form 2 changed the amount of recharge requested from 1,500 acre-ft to 2,000 acre-ft to be consistent with the amount of storage requested on Form 1.<sup>1</sup></p>

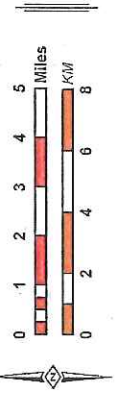


- Depth to water not estimated due to lack of data
- Basins by Recharge Type**
- Imported Water, and Recycled Water
  - Imported Water
  - Flood Control Basins
  - Flood Control Basins - No Recharge

- Major Appropriator Active Production Wells**
- City of Pomona
  - Monte Vista Water District
  - Monte Vista Water District ASR Wells
  - City of Upland
  - San Antonio Water Company
  - City of Ontario
  - Cucamonga Valley Water District
  - Cucamonga Water Company
  - Fontana Water District
  - Jurupa Community Services District
  - City of Chino
  - City of Chino Hills
  - Chino Dessaler Authority



**Chino Basin Watermaster**  
 Material Physical Injury Analysis  
 Local Storage Agreement Application



Produced by:  
**WILDERMUTH**  
 28092 Birchler Drive  
 Fontana, CA 92330  
 951-420-3300  
 www.wildermuth.com/sms.html

Author: VMW  
 Date: 2/17/2015  
 File: Chino 2010 01W2.mxd

**Location Map for the January 9, 2011  
 Material Physical Injury Analysis**

Figure 1

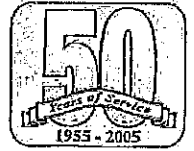
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Cucamonga Valley  
Water District

10440 Ashford Street • Rancho Cucamonga, CA 91729-0638  
P.O. BOX 638 • (909) 987-2591 • Fax (909) 476-8032

Robert A. DeLoach  
General Manager  
Chief Executive Officer



May 3, 2006

Mr. Kenneth Manning, CEO  
CHINO BASIN WATERMASTER  
9641 San Bernardino Road  
Rancho Cucamonga, CA 91730

**Subject: Application for Local Storage Agreement**

Dear Mr. Manning:

Enclosed is Cucamonga Valley Water District's Application for Local Storage Agreement, pursuant to the Chino Basin Watermaster Rules and Regulations.

Respectfully,

Robert A. DeLoach  
General Manager/CEO

Enclosures

- Form 1, Application for Local Storage Agreement
- Form 2, Application for Recharge
- Form 3, Application to Recapture Water in Storage
- CVWD Bi-Annual Water Supply Report

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APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

CUCAMONGA VALLEY WATER DISTRICT

May 3, 2006

Name of Party

Date Requested

Date Approved

10440 Ashford Street

20,000 Acre-feet

Acre-feet

Street Address

Amount Requested

Amount Approved

Rancho Cucamonga CA 91730

City State Zip Code

Telephone: 909/ 987-2591

Facsimile: 909/ 476-8032

TYPE OF WATER TO BE PLACED IN STORAGE

- [ ] Excess Carry Over [xx] Local Supplemental or Imported [ ] Both

PURPOSE OF STORAGE - Check all that may apply

- [xx] Stabilize or reduce future water costs/assessments.
[xx] Facilitate utilization of other available sources of supply.
[ ] Facilitate replenishment under certain well sites.
[ ] Preserve pumping right for a changed future potential use.
[ ] Other, explain

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

- [xx] Recharge (Form 2)
[ ] Transfer of Right to Water in Storage (Form 3)
[ ] Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

- [xx] Pump from my wells (Form 4)
[ ] Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

See attached CVWD Bi-Annual Water Supply Report (July -- December 2005)

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [ ]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

APPLICATION  
FOR  
RECHARGE

APPLICANT

<u>CUCAMONGA VALLEY WATER DISTRICT</u>			<u>May 3, 2006</u>	
Name of Party			Date Requested	Date Approved
<u>10440 Ashford Street</u>			<u>20,000</u>	
Street Address			Amount Requested	Amount Approved
<u>Rancho Cucamonga</u>	<u>CA</u>	<u>91730</u>	<u>5,000 Acre-feet</u>	<u>4 Years</u>
City	State	Zip Code	Projected Rate of Recharge	Projected Duration of Recharge
Telephone: <u>(909) 987-2591</u>			Facsimile: <u>(909) 476-8032</u>	

SOURCE OF SUPPLY

Water from:

- State Water Project
- Colorado River
- Local Supplemental Source: \_\_\_\_\_
- Recycled Water
- Other, explain San Joaquin River Agricultural Rights

METHOD OF RECHARGE

<input checked="" type="checkbox"/> PERCOLATION	Basin Name	<u>San Sevaine</u>
	Location	<u>Rancho Cucamonga</u>
<input type="checkbox"/> INJECTION	Well Number	_____
	Location (attach map)	_____
<input checked="" type="checkbox"/> EXCHANGE	Facility Name	<u>Lloyd Michael Water Treatment Plant</u>
	Share of Safe Yield	_____
	Carry Over Right	_____
	Water in Storage	_____
	Pumping Capacity (cfs)	_____

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

See attached CVWD Bi-annual water supply report (July -- December 2005)

APPLICATION OR AMENDMENT TO APPLICATION  
TO  
RECAPTURE WATER IN STORAGE

APPLICANT

<u>CUCAMONGA VALLEY WATER DISTRICT</u>		<u>May 3, 2006</u>	_____
Name of Party		Date Requested	Date Approved
<u>10440 Ashford Street</u>		<u>20,000</u> Acre-feet	_____ Acre-feet
Street Address		Amount Requested	Amount Approved
<u>Rancho Cucamonga</u>	<u>CA</u>	<u>2,500/AF/Year</u>	<u>8 Years</u>
City	State	Projected Rate of	Projected Duration of
	<u>91730</u>	Recapture	Recapture
Zip Code			
Telephone: <u>(909) 987-2591</u>		Facsimile: <u>(909) 476-8032</u>	

IS THIS AN AMENDMENT TO A PREVIOUSLY APPROVED APPLICATION? [ ] YES [XX] NO  
IF YES, ATTACH APPLICATION TO BE AMENDED

IDENTITY OF PERSON THAT STORED THE WATER: Cucamonga Valley Water District

PURPOSE OF RECAPTURE

- Pump when other sources of supply are curtailed
- Pump to meet current or future demand over and above production right
- Pump as necessary to stabilize future assessment amounts
- Other, explain \_\_\_\_\_

METHOD OF RECAPTURE (if by other than pumping) (e.g. exchange)

A portion may be exchanged at the Lloyd Michael Water Treatment Plant

PLACE OF USE OF WATER TO BE RECAPTURED

Retail delivery

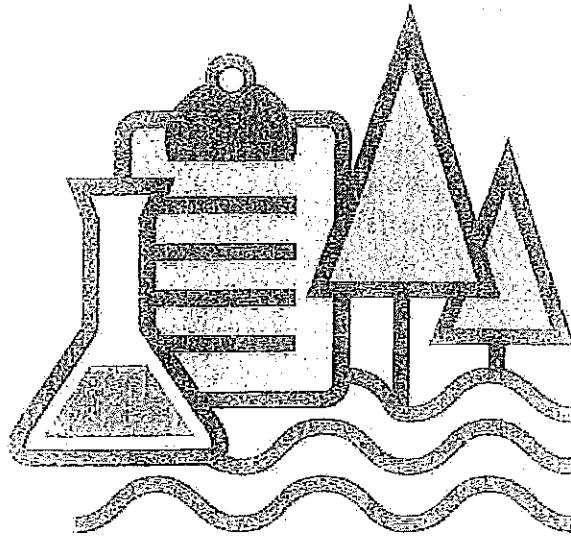
LOCATION OF RECAPTURE FACILITIES (IF DIFFERENT FROM REGULAR PRODUCTION FACILITIES).

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

See attached CVWD Bi-annual water supply report (July--December 2005)

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*Cucamonga Valley Water District*

**Bi-Annual Water Supply Report  
July - December 2005**

Water Supply

Below is the summary production from all sources for the period of July - December 2005 including production goals. The goals are established based on historical water supply demands and optimizing available supplies.

Table 1

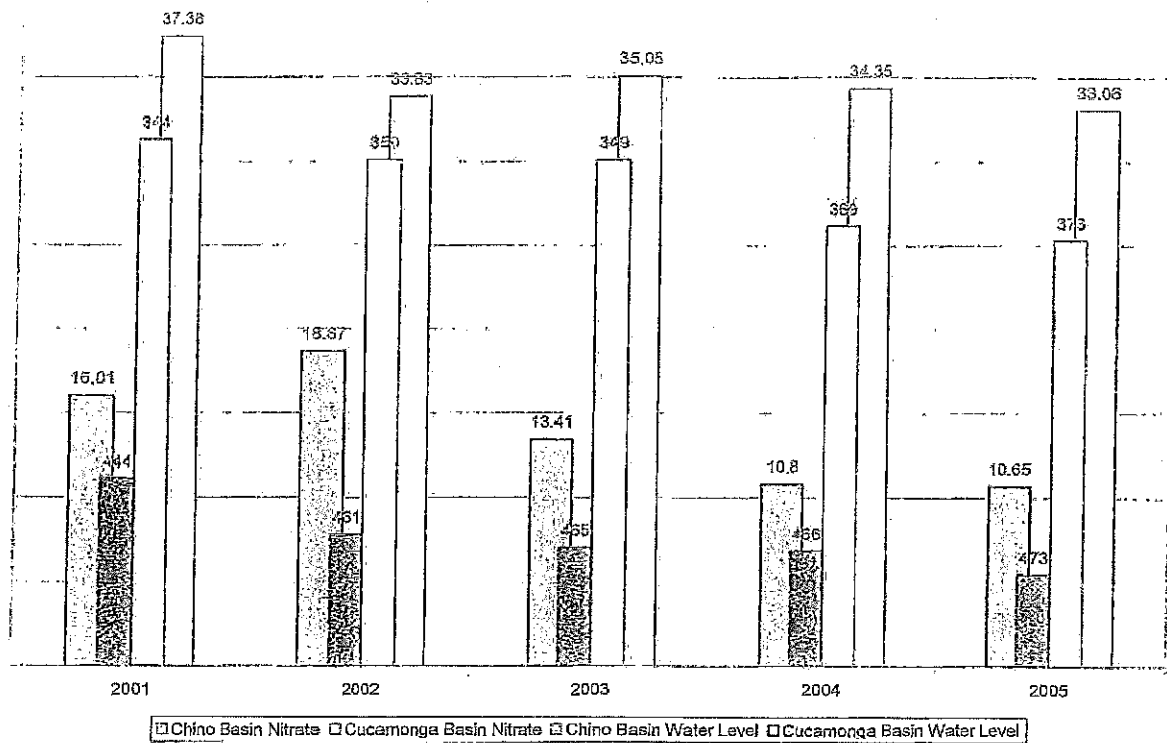
July - December				
Source	Bi-Annual Production Goal (Acre Feet)	Actual Production (Acre Feet)	Production Difference (Acre Feet)	% Above Goal (Acre Feet)
Chino Basin	8,831.092	7,567.316	-1,263.776	-14.31%
Cucamonga Basin	4,465.335	3,385.990	-1,079.345	-24.17%
Deer Canyon	167.940	99.970	-67.970	-40.47%
Cucamonga Canyon	165.207	0.000	-165.207	-100.00%
Day & East Canyons	642.639	2,874.611	2,231.972	347.31%
Purchased Water	21,287.608	18,660.698	-2,626.910	-12.34%
<b>Total Production</b>	<b>35,559.821</b>	<b>32,588.585</b>	<b>-2,971.236</b>	<b>-8.36%</b>

The District's Bi-Annual water production goals are shown in the Table 1 above. Due to lower than normal temperatures and higher than average precipitation during the second half of 2005, actual water production was less than the bi-annual goal. As a result, total production from all sources was down by 2,971 AF or 8.36% of the bi-annual production goal. In addition Table 1 shows that, the actual production in the Chino and Cucamonga Basins for the second half of the year were less than projected. Additionally, the use of Wells 10, 12, 19 and 22 have also been in and out of service for increased DBCP and/or Nitrate levels. As a result of the favorable weather conditions staff was able to reduce purchased water usage enough to stay below Tier 2 by 259.87 acre-feet. Due to the reduction of purchased water the District realized a cost savings of approximately \$1.24 Million, based on the Tier 2 MWD price rate.

Water Quality

Graph 1 below summarizes the historical well soundings for depth to groundwater in the Cucamonga and Chino Basins as they relate to Nitrate contamination in each basin. The graph illustrates the inverse relationship between the contaminant in each of the Basins as it relates to the groundwater elevation.

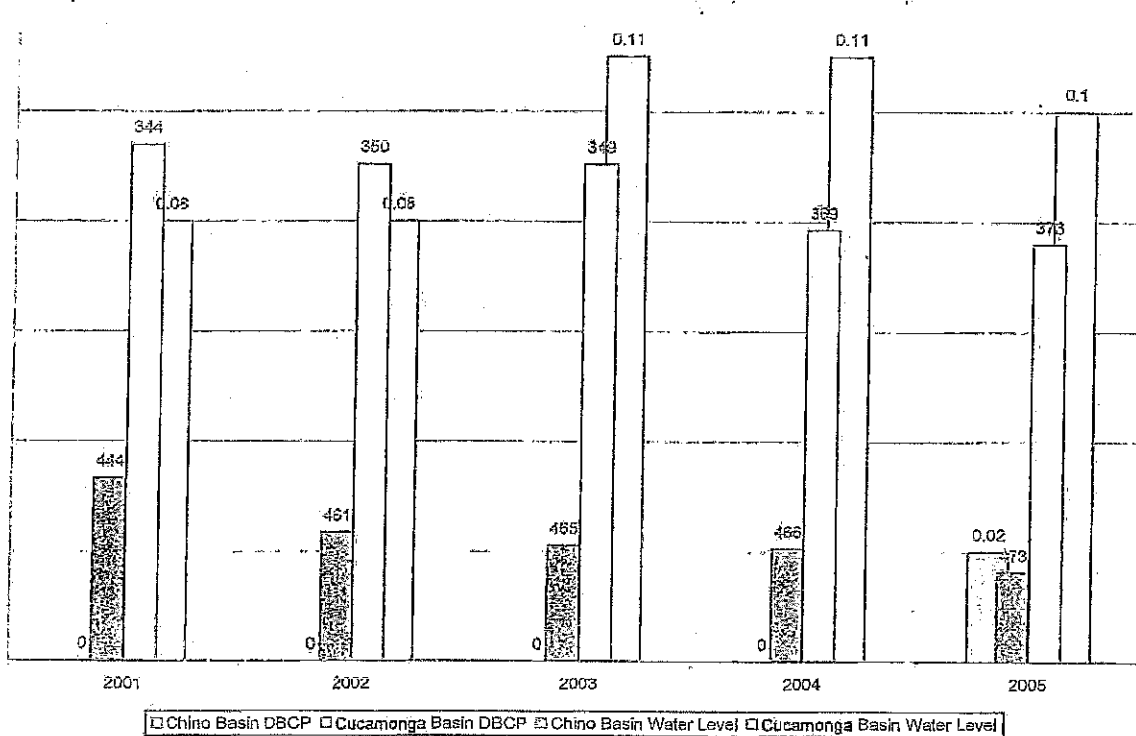
Graph 1



Water Quality (cont.)

Graph 2 below summarizes the historical well soundings for depth to groundwater for the Cucamonga and Chino Basins as they relate to Dibromochloropropane (DBCP) contamination in each basin. The graph illustrates the inverse relationship between the contaminant in each basin as it relates to the groundwater elevation.

Graph 2



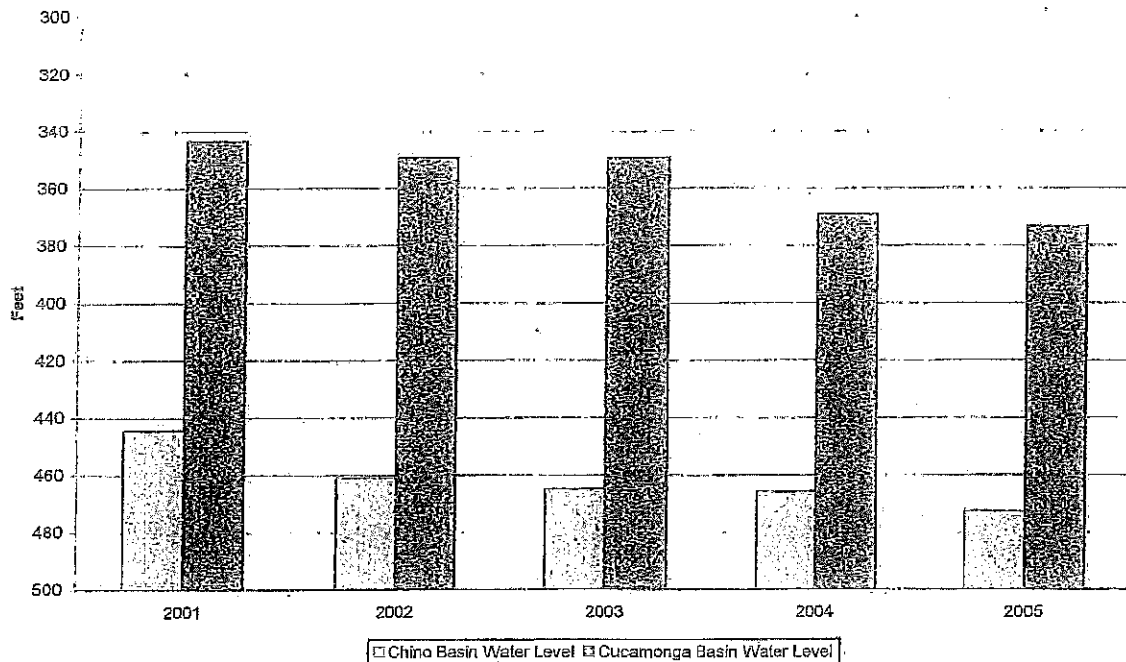
Currently only 10 of the District's 23 wells are operational due to Nitrate and Dibromochloropropane (DBCP) contamination above the maximum contaminant level (MCL.) Of the 10 wells that are operational, 6 are located in the Chino Basin and have been delivering up to a total groundwater capacity of 9,600 GPM. The other 4 wells are in the Cucamonga Basin, and are only operational in accordance with the District's DHS approved blending plans. These wells are delivering up to a total groundwater capacity of 5,000 GPM.



As seen below in graph 3 the water levels in both the Cucamonga and Chino Basins are continuing to decline. Even with higher than normal precipitation this year, with the sustained system demands, water levels are continuing to decline.

Graph 3

*Historical Ground Water Levels*



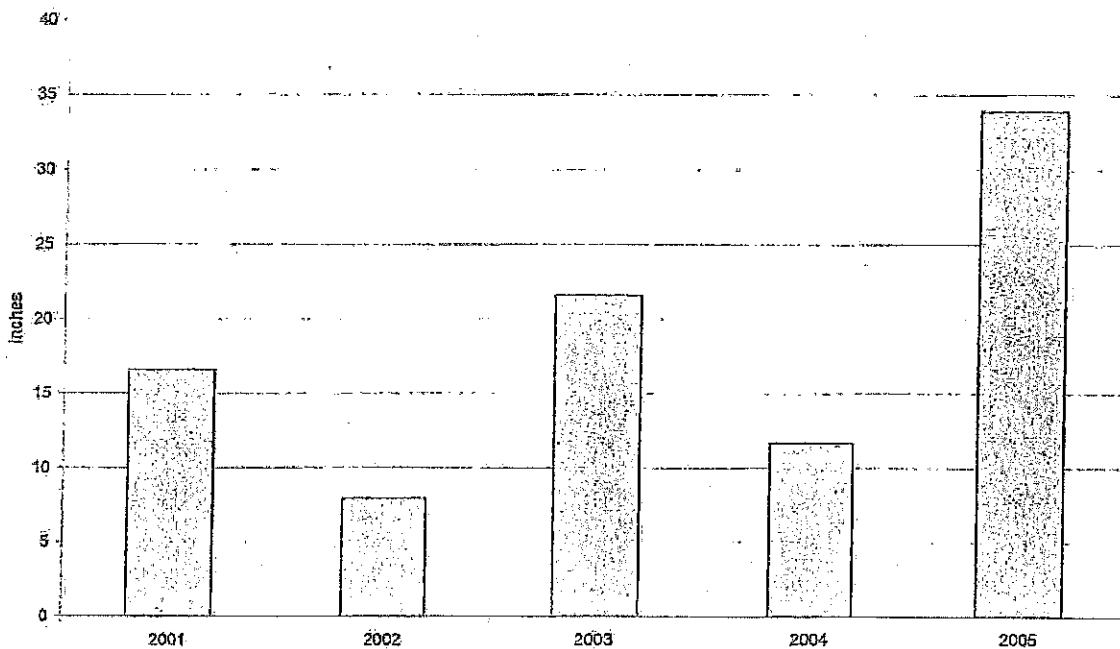
During calendar year 2005, the average groundwater level in the Cucamonga Basin was 373 ft, the average level during 2004 was 369 ft and in 2003 349 ft., this represents an overall decline of 6.4% during the last three years. The total basin decline is a direct result of the limited amount of consistent local precipitation and runoff combined with increased system demands. As illustrated on Graph 2, there is direct correlation between the increased levels of DBCP and the decline of the basin groundwater levels. As the total combined underground storage decreases, so does its ability to dilute the existing levels of DBCP's. It is anticipated that the natural storm water recharge as well as recharge using the recently completed regional recharge facilities will begin to have positive impacts on local groundwater levels. Staff will continue to monitor this situation and provide an update with the next regular water supply report.

Weather

Graph 4 below summarizes the average rainfall recorded at the District Offices over the past 5 years.

Graph 4

*Annual Rainfall to Date*



During calendar year 2005, precipitation was 33.87 inches; the average over the current 5-year historical period is 18.34 inches. Temperatures during this period were about normal and system demands necessitated the use of 12.34% less imported state project water to meet daily demands.

### Regional Updates

In other regional news, the Chino Basin Facilities Improvement Project (CBFIP) has been completed. The purpose of the CBFIP project is to provide storm water; recycled water and imported water recharge facilities improvements required to increase groundwater recharge in the Chino Basin.

The \$38.7 Million CBFIP Completed under Budget: The CBFIP project was completed in December 2005. The IEUA Board of Directors has approved three additional Bid Projects: The BP No. 4 Project involves the construction of a canal and 100 linear feet of 48" pipe to convey water to the Jurupa Pump Station. In addition 400 linear feet of 36" diameter cement mortar lined & coated (CML & C) steel pipe force main for delivering water to the 36" Jurupa Pipeline. The; BP No. 5 Project, Jurupa Pump Station, includes a SCADA system consisting of radio controls to monitor and govern water levels in the Chino Basin as well as control the drop inlets and rubber dams. Four monitoring sites will be established at the Chino Basin Water Master (CBWM), Chino Basin Water Conservation District (CBWCD) and the San Bernardino County Flood Control District (SBCFCD) offices with the master controls located at RWRP-1. The SBCFCD offices will include a satellite control station. The BP No. 7 Project, which includes the San Sevaine Channel / Hickory and Banana Basins Improvements was constructed during 2005 and completed on January 16, 2006, closing out the Chino Basin Facilities Improvement Project.

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APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

City of Fontana, 16489 Orange Way, Fontana CA 92335, Telephone: (909) 350-6530, Revised June 29, 2010, Original May 18, 2010, Date Requested, Date Approved, 5,000 Acre-feet, Amount Requested, Amount Approved, Facsimile: (909) 350-6773

TYPE OF WATER TO BE PLACED IN STORAGE

[ ] Excess Carry Over [ X ] Local Supplemental or Imported [ ] Both

PURPOSE OF STORAGE - Check all that may apply

- [ X ] Stabilize or reduce future water costs/assessments.
[ ] Facilitate utilization of other available sources of supply.
[ ] Facilitate replenishment under certain well sites.
[ ] Preserve pumping right for a changed future potential use.
[ X ] Other, explain

The City of Fontana as a member Agency of Inland Empire Utilities Agency (IEUA) is entitled to approximately 18.5% of the total amount of recycled water produced and recharged by the agency. The City currently has a contract in place with the City of Ontario for the purchase of the first 3,000 acre feet of this water. IEUA has projected that within the next two years they will recharge an average of 17,000 acre feet per year and may reach as much as 25,000 acre feet per year in a dry year. These amounts will exceed the 3,000 acre feet that is currently under contract to the City of Ontario. The City is hereby requesting a storage account for this excess recharge water.

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

- [ X ] Recharge (Form 2)
[ ] Transfer of Right to Water in Storage (Form 3)
[ ] Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

- [ ] Pump from my wells (Form 4)
[ X ] Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

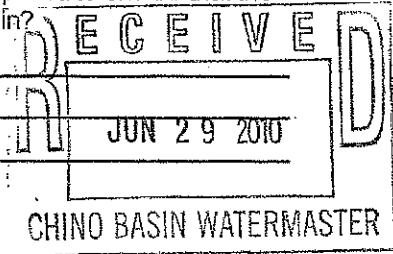
No water levels or water quality will be affected. We are not adding any recharge water we are asking to establish a storage account for our share of the recharge currently taking place through the regional recharge master plan.

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [ X ]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical injury to a party to the Judgment or the Basin?

Three horizontal lines for providing mitigation measures.



**ADDITIONAL INFORMATION ATTACHED**

Yes [X] No [ ]

  
\_\_\_\_\_  
Applicant

**TO BE COMPLETED BY WATERMASTER:**

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM APPROPRIATIVE POOL: \_\_\_\_\_

HEARING DATE, IF ANY: \_\_\_\_\_

DATE OF ADVISORY COMMITTEE APPROVAL: \_\_\_\_\_

DATE OF BOARD APPROVAL: \_\_\_\_\_ Agreement # \_\_\_\_\_

**APPLICATION  
FOR  
RECHARGE**

**APPLICANT**

City of Fontana  
 \_\_\_\_\_  
 Name of Party  
 16489 Orange Way  
 \_\_\_\_\_  
 Street Address  
 Fontana CA 92335  
 \_\_\_\_\_  
 City State Zip Code  
 Telephone: (909) 350-6530  
 \_\_\_\_\_

Revised June 29, 2010  
 Original May 18, 2010  
 \_\_\_\_\_  
 Date Requested Date Approved  
 5,000 Acre-feet \_\_\_\_\_ Acre-feet  
 \_\_\_\_\_  
 Amount Requested Amount Approved  
 CBWM/IEUA Operations CBWM/IEUA Operations  
 \_\_\_\_\_  
 Projected Rate of Recharge Projected Duration of Recharge  
 Facsimile: (909) 350-6773  
 \_\_\_\_\_

**SOURCE OF SUPPLY**

Water from:

- State Water Project
- Colorado River
- Local Supplemental Source: \_\_\_\_\_
- Recycled Water
- Other, explain \_\_\_\_\_

**METHOD OF RECHARGE**

- PERCOLATION Basin-Name All recharge basins included in the IEUA/CBWM recharge Water Plan.  
 Location \_\_\_\_\_
- INJECTION Well Number \_\_\_\_\_  
 Location (attach map) See map
- EXCHANGE Facility Name \_\_\_\_\_  
 Share of Safe Yield -0-  
 Carry Over Right \_\_\_\_\_  
 Water in Storage -0-  
 Pumping Capacity (cfs) -0-

**WATER QUALITY AND WATER LEVELS**

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?  
Water quality and water levels will not be affected since we are not increasing the amount of recharge. We are requesting a storage account for recharge that is currently taking place. The City is entitled to approximately 18.5% of the total recharged by IEUA.

**MATERIAL PHYSICAL INJURY**

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [ X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ADDITIONAL INFORMATION ATTACHED**

Yes [ X ] No [ ]

  
\_\_\_\_\_  
Applicant

**TO BE COMPLETED BY WATERMASTER:**

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM AGRICULTURAL POOL: \_\_\_\_\_

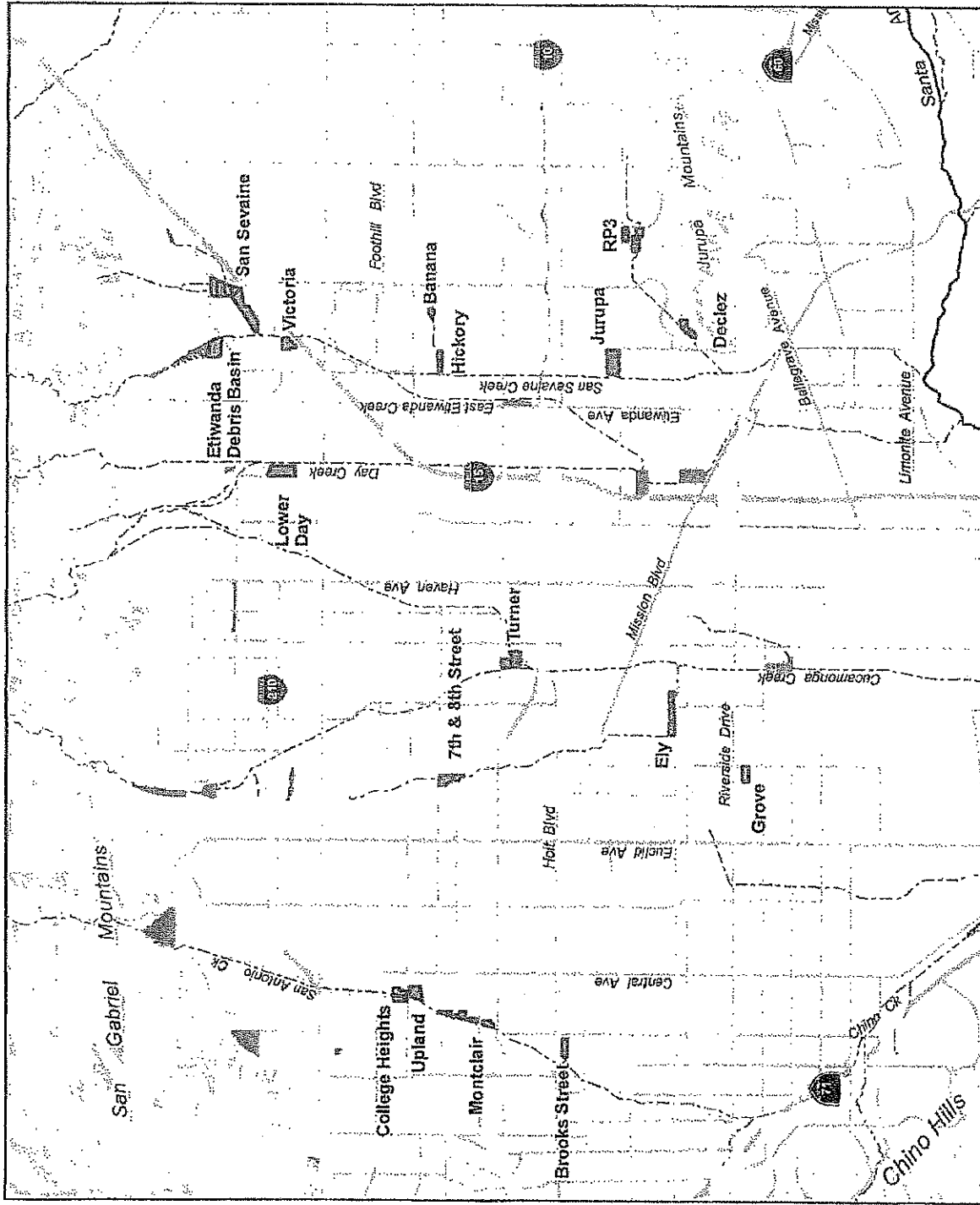
DATE OF APPROVAL FROM APPROPRIATIVE POOL: \_\_\_\_\_

HEARING DATE, IF ANY: \_\_\_\_\_




DATE OF ADVISORY COMMITTEE APPROVAL: \_\_\_\_\_

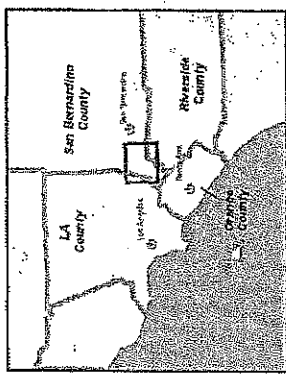
DATE OF BOARD APPROVAL: \_\_\_\_\_ Agreement.# \_\_\_\_\_



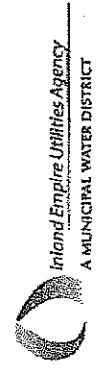
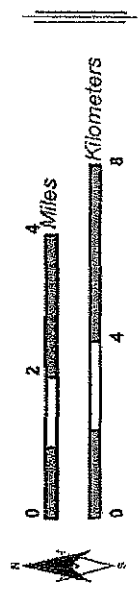


**Main Map Features**

-  Recharge Basins in the Recycled Water Groundwater Recharge Program
-  Non-program basins
-  Rivers and Streams



**Chino Basin Recycled Water Groundwater Recharge Programs**  
Basin Locations



**Figure 1-1**

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# Monte Vista

*Dedicated to Quality,*

*Service and Innovation*

June 30, 2010

Mark N. Kinsey  
GENERAL MANAGER

Mr. Ken Manning, Chief Executive Officer  
CHINO BASIN WATERMASTER  
9641 San Bernardino Road  
Rancho Cucamonga, California 91730

## Application for Local Storage Agreement

Dear Mr. Manning:

This letter will transmit Monte Vista Water District's application for a local supplemental storage agreement in the amount of 10,000 acre-feet. The purpose of this storage account would be to store recycled water recharged on behalf of the District by Inland Empire Utilities Agency and to store supplemental water injected at District ASR Wells 4, 30, and 32.

Thank you for your assistance in this matter. Should you have any questions, please contact the District at your convenience.

Sincerely,

*Monte Vista Water District*



Mark N. Kinsey  
General Manager

Attachments

# Water District

10575 Central Avenue, Post Office Box 71 • Montclair, CA 91763 • (909) 624-0035 • FAX (909) 624-4725 • [www.mvwd.org](http://www.mvwd.org)

Sandra S. Rose  
PRESIDENT

Maynard B. Lenhart  
VICE PRESIDENT

Tony Lopez  
DIRECTOR

Philip L. Erwin  
DIRECTOR

G. Michael Milhiser  
DIRECTOR

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APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

Monte Vista Water District June 30, 2010
Name of Party Date Requested Date Approved
10575 Central Avenue 10,000 Acre-feet
Street Address Amount Requested Amount Approved
Montclair CA 91763
City State Zip Code
Telephone: (909) 624-0035 Facsimile: (909) 624-0037

TYPE OF WATER TO BE PLACED IN STORAGE

[ ] Excess Carry Over [X] Local Supplemental or Imported [ ] Both

PURPOSE OF STORAGE - Check all that may apply

- [X] Stabilize or reduce future water costs/assessments.
[X] Facilitate utilization of other available sources of supply.
[X] Facilitate replenishment under certain well sites.
[ ] Preserve pumping right for a changed future potential use.
[ ] Other, explain

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

- [X] Recharge (Form 2)
[ ] Transfer of Right to Water in Storage (Form 3)
[ ] Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

- [X] Pump from my wells (Form 4)
[ ] Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

No water levels or water quality will be affected. We are not adding any recharge water, we are asking to establish a storage account for our share of the recharge currently taking place through the regional MATERIAL PHYSICAL INJURY recharge master plan and water injected at District ASR Wells 4, 30, and 32.

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

**ADDITIONAL INFORMATION ATTACHED**

Yes [ ] No [ X ]

*Mark N. Kinsey*

Applicant Mark N. Kinsey

**TO BE COMPLETED BY WATERMASTER:**

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM APPROPRIATIVE POOL: \_\_\_\_\_

HEARING DATE, IF ANY: \_\_\_\_\_

DATE OF ADVISORY COMMITTEE APPROVAL: \_\_\_\_\_

DATE OF BOARD APPROVAL: \_\_\_\_\_ Agreement # \_\_\_\_\_

APPLICATION  
FOR  
RECHARGE

APPLICANT

Monte Vista Water District  
 Name of Party June 30, 2010 Date Requested \_\_\_\_\_ Date Approved \_\_\_\_\_  
10575 Central Avenue  
 Street Address 10,000 Acre-feet Requested \_\_\_\_\_ Acre-feet Approved \_\_\_\_\_  
Montclair CA 91763  
 City State Zip Code  
 Telephone: (909) 624-0035 Facsimile: (909) 624-0037  
 Projected Rate of Recharge \_\_\_\_\_ Projected Duration of Recharge \_\_\_\_\_

SOURCE OF SUPPLY

Water from:

- State Water Project
- Colorado River
- Local Supplemental Source: IEUA
- Recycled Water
- Other, explain \_\_\_\_\_

METHOD OF RECHARGE

- PERCOLATION Basin Name All basins included in the IEUA/CBWM recharge water plan  
 Location \_\_\_\_\_
- INJECTION Well Number 4, 30, 32  
 Location (attach map) See map for recycled water recharge basins
- EXCHANGE Facility Name \_\_\_\_\_  
 Share of Safe Yield 0  
 Carry Over Right \_\_\_\_\_  
 Water in Storage 0  
 Pumping Capacity (cfs) 0

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

Water quality and water levels will not be affected since we are not increasing the amount of recharge. We are requesting a storage account for recycled recharge that is currently taking place and for injection pursuant to our approved recharge application with Watermaster. The District is entitled to approximately 5% of the total recharged by IEUA.

**MATERIAL PHYSICAL INJURY**

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [ X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

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**ADDITIONAL INFORMATION ATTACHED**

Yes [ X] No [ ]



Applicant Mark N. Kinsey

**TO BE COMPLETED BY WATERMASTER:**

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM APPROPRIATIVE POOL: \_\_\_\_\_

HEARING DATE, IF ANY: \_\_\_\_\_

DATE OF ADVISORY COMMITTEE APPROVAL: \_\_\_\_\_

DATE OF BOARD APPROVAL: \_\_\_\_\_ Agreement # \_\_\_\_\_



APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

Fontana Water Company April 20, 2011
Name of Party Date Requested Date Approved
15966 Arrow Route 10,000 Acre-feet
Street Address Amount Requested Amount Approved
Fontana CA 92335
City State Zip Code
Telephone: (909) 822-2201 Facsimile: (909) 823-5046

TYPE OF WATER TO BE PLACED IN STORAGE

[ ] Excess Carry Over [ ] Local Supplemental or Imported [X] Both

PURPOSE OF STORAGE - Check all that may apply

- [X] Stabilize or reduce future water costs/assessments.
[X] Facilitate utilization of other available sources of supply.
[X] Facilitate replenishment under certain well sites.
[ ] Preserve pumping right for a changed future potential use.
[ ] Other, explain

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

- [X] Recharge (Form 2)
[X] Transfer of Right to Water in Storage (Form 3)
[X] Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

- [X] Pump from my wells (Form 4)
[X] Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?


MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

**ADDITIONAL INFORMATION ATTACHED**

Yes [  ] No [  ]

  
\_\_\_\_\_  
Applicant

**TO BE COMPLETED BY WATERMASTER:**

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM APPROPRIATIVE POOL: \_\_\_\_\_

HEARING DATE, IF ANY: \_\_\_\_\_

DATE OF ADVISORY COMMITTEE APPROVAL: \_\_\_\_\_

DATE OF BOARD APPROVAL: \_\_\_\_\_ Agreement # \_\_\_\_\_



**MATERIAL PHYSICAL INJURY**

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [ ]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

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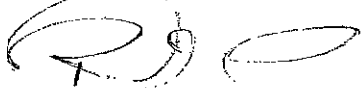
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**ADDITIONAL INFORMATION ATTACHED**

Yes [ ] No [ ]



Applicant

**TO BE COMPLETED BY WATERMASTER:**

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM APPROPRIATIVE POOL: \_\_\_\_\_

HEARING DATE, IF ANY: \_\_\_\_\_

DATE OF ADVISORY COMMITTEE APPROVAL: \_\_\_\_\_

DATE OF BOARD APPROVAL: \_\_\_\_\_ Agreement # \_\_\_\_\_

**APPLICATION  
FOR  
LOCAL STORAGE AGREEMENT**

**APPLICANT**

Inland Empire Utilities Agency		June 24, 2011	
Name of Party		Date Requested	Date Approved
PO Box 9020		25,000	
Street Address		Amount Requested	Amount Approved
Chino Hills	CA	91709	
City	State	Zip Code	
Telephone: 909-993-1600	Facsimile: 909-993-9000		

**TYPE OF WATER TO BE PLACED IN STORAGE**

Excess Carry Over       Local Supplemental or Imported       Both

**PURPOSE OF STORAGE - Check all that may apply**

- Stabilize or reduce future water costs/assessments.
- Facilitate utilization of other available sources of supply.
- Facilitate replenishment under certain well sites.
- Preserve pumping right for a changed future potential use.
- Other, explain Preemptive replenishment purchase for Desalter obligations estimated to begin in 2013.

**METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply**

- Recharge (Form 2) Form 2 is not required—CBWM will be recharging as preemptive replenishment water.
- Transfer of Right to Water in Storage (Form 3)
- Transfer from another party to the Judgment (Form 5)

**METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply**

- Pump from my wells (Form 4) The water will be transferred to CBWM for future Desalter
- Transfer to another party to the Judgment (Form 3) replenishment obligations on behalf of the Parties.

**WATER QUALITY AND WATER LEVELS**

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

N/A

**MATERIAL PHYSICAL INJURY**

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes  No

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

ADDITIONAL INFORMATION ATTACHED

Yes [ ] No [X]

\_\_\_\_\_  
Applicant

**TO BE COMPLETED BY WATERMASTER:**

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM APPROPRIATIVE POOL: \_\_\_\_\_

HEARING DATE, IF ANY: \_\_\_\_\_

DATE OF ADVISORY COMMITTEE APPROVAL: \_\_\_\_\_

DATE OF BOARD APPROVAL: \_\_\_\_\_ Agreement # \_\_\_\_\_



**PUBLIC WORKS DEPARTMENT**  
1370 North Benson Avenue  
Upland, California 91786-0460  
Telephone (909) 291-2930  
Facsimile (909) 291-2974

November 29, 2011

Danielle D. Maurizio, PE, Senior Engineer, Interim CEO  
Chino Basin Watermaster  
9641 San Bernardino Rd.  
Rancho Cucamonga, CA. 91730

Subject: Local Storage Agreement, Chino Groundwater Basin

Dear Mrs. Maurizio:

This letter is the City of Upland's formal submission of the appropriate application for Local Storage Agreement (Form 1), application for recharge (Form 2), and request for a Standard Local Storage Agreement (Form 8). The City of Upland completed the construction of a large storm, supplemental/imported water recharge basin (Upland Basin) located approximately on the south east corner of Monte Vista Avenue and Arrow Route through a significant investment by its local community. The City has allowed Chino Basin Watermaster to use the Upland Basin for the benefit of the regional recharge program.

The City of Upland makes this request to exercise and use its Upland Basin for recharge of local non-native water resources up to 9,500AF, which it has as part of its water resource supply portfolio. These local non-native water supplies include the City's direct water and water through its shareholder entitlement and partnerships with San Antonio Water Company and West End Consolidated Water Company, and Inland Empire Utilities Agency. These non-native local water supplies include water resources from San Antonio Canyon, Six Basins, and Cucamonga Basin. The recharge of this local non-native water is consistent with the groundwater recharge objectives, increase reliability of local water supplies, and reduced dependence on imported water. Furthermore, these local water supplies are of high water quality improving the overall long-term water quality characteristics in the Chino Groundwater Basin.

Pursuant to the Judgment and supplemental filings "Watermaster shall approve the storage of Supplemental water under a Local Storage Agreement" so long as:

- (1) The total quantity of Supplemental Water authorized to be held in Local Storage under all then existing Local storage Agreement, other than amounts classified as Supplemental water under the procedures set forth in Article VII Section 8.1, for all parties does not exceed the cumulative total of 100,000 AF (Peace II Provision);
- (2) The party to the Judgment making the request provides their own Recharge facilities for the purpose of placing the Supplemental Water into Local Storage (Upland Basin);
- (3) The agreement will not result in Material Physical Injury to any party to the Judgment or the basin. Watermaster may approve a proposed agreement with conditions that mitigate any threatened potential Material Physical Injury.

It is anticipated, this storage will be used to assist parties to the judgment in their groundwater production or over production replenishment obligations.

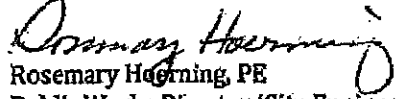
**City of Upland**

460 North Euclid Avenue, Upland, CA 91786-4732 • (909) 931-4100 • Fax (909) 931-4123 • TDD (909) 735-2929 • [www.ci.upland.ca.us](http://www.ci.upland.ca.us)

For the aforementioned reasons, this request is consistent with the basin management objectives and development of local high quality water supply.

I look forward to the positive and timely prosecution of these applications, as the City would like to commence recharge activities at this location. Should you require additional information or a clarification on these submittals please contact me at (909) 291-2931.

Sincerely,

  
Rosemary Hoerning, PE  
Public Works Director/City Engineer  
City of Upland

Att. Form 1 Application for Local Storage Agreement  
Form 2 Application for Recharge & Location Map  
Form B Chino Basin Watermaster, Standard Local Storage Agreement

cc: Ken Willis, Chino Basin Watermaster Chair  
Stephen Dunn, City Manager



APPLICATION  
FOR  
LOCAL STORAGE AGREEMENT

Form 1

APPLICANT

City of Upland  
Name of Party  
460 N. Euclid Ave.  
Street Address  
Upland CA 91786  
City State Zip Code  
Telephone: (909) 291-2931  
Date Requested 11/29/11  
Date Approved  
9,500 Acre-feet  
Amount Requested  
Amount Approved  
Facsimile: (909) 291-2974

TYPE OF WATER TO BE PLACED IN STORAGE

Excess Carry Over  Local Supplemental or Imported  Both

PURPOSE OF STORAGE - Check all that may apply

- Stabilize or reduce future water costs/assessments. (Upland Rate Payers)
- Facilitate utilization of other available sources of supply. (Put other local supply to beneficial use)
- Facilitate replenishment under certain well sites.
- Preserve pumping right for a changed future potential use.
- Other, explain  
Transfer to other parties

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

- Recharge (Form 2)
- Transfer of Right to Water in Storage (Form 3)
- Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

- Pump from my wells (Form 4)
- Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

Recharge water will be high quality. Groundwater levels will be similar, as this is an existing recharge basin facility

MATERIAL PHYSICAL INJURY

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes  No

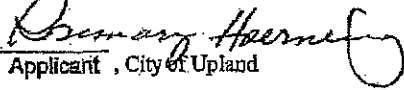
If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

July 2001

ADDITIONAL INFORMATION ATTACHED

Yes [] No [  ]

  
Applicant, City of Upland

**TO BE COMPLETED BY WATERMASTER:**

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: \_\_\_\_\_

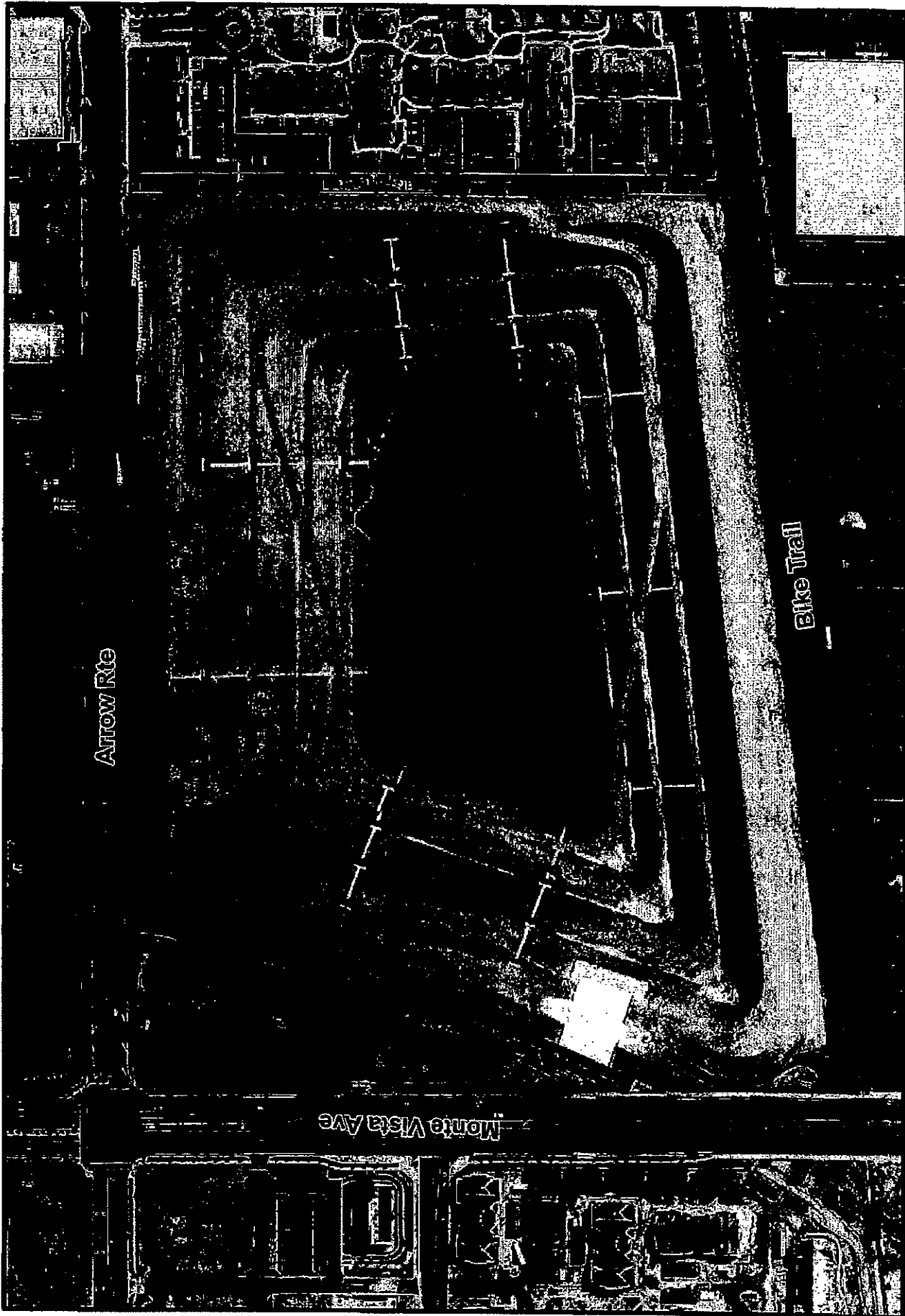
DATE OF APPROVAL FROM AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM APPROPRIATIVE POOL: \_\_\_\_\_

HEARING DATE, IF ANY: \_\_\_\_\_

DATE OF ADVISORY COMMITTEE APPROVAL: \_\_\_\_\_

DATE OF BOARD APPROVAL: \_\_\_\_\_ Agreement # \_\_\_\_\_



# Upland Basin



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APPLICATION  
FOR  
RECHARGE

APPLICANT

City of Upland			11/29/11	
Name of Party			Date Requested	Date Approved
460 N. Euclid Ave.			9,500	
Street Address			Amount Requested	Amount Approved
Upland	CA	91786	1 Foot Per day	Varies
City	State	Zip Code	Projected Rate of Recharge	Projected Duration of Recharge
Telephone: 909-291-2931			Facsimile: 909-291-2974	

SOURCE OF SUPPLY

Water from:

- State Water Project
- Colorado River
- Local Supplemental Upland/SAW Co.-Six Basins, San Antonio Canyon, and Cucamonga Basin
- Recycled Water Source: Water and IEUA Recycled Water
- Other, explain

METHOD OF RECHARGE

<input checked="" type="checkbox"/> PERCOLATION	Basin Name	Upland Basin
	Location	SEC Monte Vista Ave. & Arrow Rte., Upland
<input type="checkbox"/> INJECTION	Well Number	N.A.
	Location (attach map)	
<input type="checkbox"/> EXCHANGE	Facility Name	Upland Basin
	Share of Safe Yield	5.202%
	Carry Over Right	Per Judgement
	Water in Storage	
	Pumping Capacity (cfs)	

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

Recharge water will be high quality. Groundwater levels will be similar, as this is

an existing recharge basin facility

**MATERIAL PHYSICAL INJURY**

Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [✓]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ADDITIONAL INFORMATION ATTACHED**

Yes [✓] No [ ]

*Rosmary Heermans*  
Applicant, City of Upland

**TO BE COMPLETED BY WATERMASTER:**

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM APPROPRIATIVE POOL: \_\_\_\_\_

HEARING DATE, IF ANY: \_\_\_\_\_

DATE OF ADVISORY COMMITTEE APPROVAL: \_\_\_\_\_

DATE OF BOARD APPROVAL: \_\_\_\_\_ Agreement # \_\_\_\_\_



# San Antonio Water Company

Incorporated October 25, 1882

Serving the original Ontario Colony lands

---

December 1, 2011

Ms. Danni Maurizio  
Interim General Manager  
Chino Basin Watermaster  
9641 San Bernardino Road  
Rancho Cucamonga, CA 91730

**SUBJECT: Application for Local Storage Agreement & Recharge**

Dear Danni:

Enclosed are the forms for the San Antonio Water Company's application for a Local Storage Agreement and Recharge into Chino Basin via Upland Basin or Montclair Basin 1 off of the San Antonio Channel.

We ask that you process our application for the Pool's approval. If you have any questions, please call me at 909.982.4107.

Sincerely,

Charles Moorrees  
General Manager

lcm

Cc: File

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APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

SAN ANTONIO WATER CO.

Name of Party

12-1-11

Date Requested

Date Approved

139 N. EUCLID AVE.

Street Address

2,000 AF

Amount Requested

Amount Approved

UPLAND CA 91786

City

State

Zip Code

909.982.4107

Telephone:

909.930.3047

Facsimile:

TYPE OF WATER TO BE PLACED IN STORAGE

- Excess Carry Over Local Supplemental or Imported Both

PURPOSE OF STORAGE - Check all that may apply

- Stabilize or reduce future water costs/assessments. Facilitate utilization of other available sources of supply. Facilitate replenishment under certain well sites. Preserve pumping right for a changed future potential use. Other, explain

METHOD AND LOCATION OF PLACEMENT IN STORAGE - Check and attach all that may apply

- Recharge (Form 2) Transfer of Right to Water in Storage (Form 3) Transfer from another party to the Judgment (Form 5)

METHOD AND LOCATION OF RECAPTURE FROM STORAGE - Check and attach all that may apply

- Pump from my wells (Form 4) Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

(SEE ATTACHED)

MATERIAL PHYSICAL INJURY

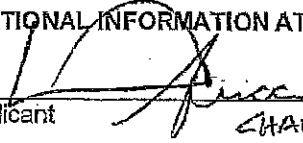
Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes No

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

ADDITIONAL INFORMATION ATTACHED

Yes  No

Applicant

  
CHARLES MORRIS

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM APPROPRIATIVE POOL: \_\_\_\_\_

HEARING DATE, IF ANY: \_\_\_\_\_

DATE OF ADVISORY COMMITTEE APPROVAL: \_\_\_\_\_

DATE OF BOARD APPROVAL: \_\_\_\_\_ Agreement # \_\_\_\_\_

APPLICATION FOR RECHARGE

APPLICANT

SAN ANTONIO WATER CO. Name of Party

12-1-11 Date Requested

Date Approved

139 N. EUCLID AVE. Street Address

1,500 Acre-feet Amount Requested

Acre-feet Amount Approved

LIPLAND CA State

91786 Zip Code

250 AF/MONTH Projected Rate of Recharge

JAN - JUNE Projected Duration of Recharge

909.982.4107 Telephone

909.920.3047 Facsimile

SOURCE OF SUPPLY

Water from:

- State Water Project
Colorado River
Local Supplemental
Recycled Water
Other, explain

SAN ANTONIO CREEK Source

SAN ANTONIO WATER COMPANY ENJOYS A MAJORITY OF SURFACE WATER RIGHTS IN THE CREEK

METHOD OF RECHARGE

PERCOLATION

LIPLAND BASIN & MONTCLAIR BASIN Basin Name

SE MONTEVISTA & ARROW / E/O SA CHANNEL S/O ARROW HWY. Location

INJECTION

Well Number

Location (attach map)

EXCHANGE

Facility Name

Share of Safe Yield

Carry Over Right

Water in Storage

Pumping Capacity (cfs)

WATER QUALITY AND WATER LEVELS

What is the existing water quality and what are the existing water levels in the areas that are likely to be affected?

EXCELLENT WATER QUALITY FROM THE SA CREEK WATERSHED. (WATERSHED SANITARY SURVEY FINDINGS & CONCLUSIONS ARE ATTACHED) POSITIVE AFFECT ON WATER LEVELS IN MZ 1.

**MATERIAL PHYSICAL INJURY**


Is the Applicant aware of any potential Material Physical Injury to a party to the Judgment or the Basin that may be caused by the action covered by the application? Yes [ ] No [X]

If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ADDITIONAL INFORMATION ATTACHED**

Yes [X] No [ ]

  
Applicant CHARLES MOORREES

- SAN ANTONIO CREEK SANITARY SURVEY FINDINGS & CONCLUSIONS
- UPLAND & MONTCLAIR BASIN

**TO BE COMPLETED BY WATERMASTER:**

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM AGRICULTURAL POOL: \_\_\_\_\_

DATE OF APPROVAL FROM APPROPRIATIVE POOL: \_\_\_\_\_

HEARING DATE, IF ANY: \_\_\_\_\_

DATE OF ADVISORY COMMITTEE APPROVAL: \_\_\_\_\_

DATE OF BOARD APPROVAL: \_\_\_\_\_ Agreement # \_\_\_\_\_

## SECTION 6

### WATERSHED SANITARY SURVEY FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

#### FINDINGS

1. The monitoring of the watershed as recommended in the 2000 WSS has been performed and it is clear that cryptosporidium and giardia concentrations in San Antonio Creek are very low. So low that the City of Pomona's Pedley Filtration Plant has been given a "Bin1" classification under L2ESWTR.
2. The general mineral water quality of San Antonio Creek has not changed measurably since 1994 as shown in Table 4-2c presented in Section 4
3. Average monthly raw water turbidity in San Antonio Creek as determined by measurements at Pomona's Pedley Water Treatment Plant has not changed significantly from the previous period, though turbidity in 2001-2005 was higher than previous years. This is likely due to the Grand Prix Fire.
4. Average monthly total coliform levels in San Antonio Creek as determined by measurements at Pomona's Pedley Water Treatment Plant have changed significantly for the better from the 1995-99 period. This can be seen in Figure 4-9a.
5. Average monthly fecal coliform levels in San Antonio Creek as determined by measurements at Pomona's Pedley Water Treatment Plant have not changed significantly from previous periods. See Figure 4-9b.
6. Average monthly HPC levels in San Antonio Creek as determined by measurements at Pomona's Pedley Water Treatment Plant were higher in 2001 - 2005 than previous 5-year periods and the 2006 - 2010 period. See Figure 4-9c.
7. Evey Canyon intake to the City of Pomona's pipeline appears to a significant source of coliform and E. coli. The source of these microorganisms is not known. There are recommendations for increased monitoring of the this area to determine the possible sources. See Figures 4-11a and b. It is also noteworthy to look at Figures 4-19a and 4-19b. The total coliform concentration at SACWTP is substantially less than that measured at Evey Canyon and the Pedley Filtration Plant raw water inlet. The SACWTP source is the 60/40 weir box. This further supports the finding that Evey Canyon is a significant source of coliform found in the Pedley Filtration Plant inlet raw water.
8. THM and HAA5 levels in the treated water are well below the Disinfectant and Disinfection by-product rule requirements for both the Cities of Pomona and Upland. HAA5 concentrations are well below the MCL, even with the LRAA method of computation. TTHM concentrations were also well below the MCL even with the LRAA method of computation. See Table 4-4a, 4-4b, 4-7a, and 4-7b.
9. The City of Upland made major reductions in the TTHM concentration in the distribution system between the 2001-2005 period and the 2006-2010 period. See Tables 4-7a, and 4-7b

10. Recreational activities in the watershed continue to be a concern particularly as they relate to disposal of trash.
11. Septic tanks and subsurface wastewater disposal systems continue to exist and still pose a threat to water quality. Some could be impacted by high flood flows. The largest of the systems (portion of Mt. Baldy Village and Mt. Baldy School) are now under a Regional Water Quality Control Board Waste Discharge Permit which requires regular monitoring and reporting.
12. The SACMSC has made improvements to the wastewater disposal system for the portion of the Mt. Baldy Village which is served by the company. This included an "all gravity" system from inlet to disposal which will minimize spills and overflows. The installation of the Pirana™ system has immensely improved the quality of the effluent which is percolated in the leach field.
13. Watershed signage which was recommended in the 2000 WSS has not been installed. The terrorist attacks on 9/11/01 forced water suppliers to think of security and not call attention to the fact that the creek is a source of water. The USFS has implemented a programs of "Leave No Trace" and "Tread Lightly" to educate the public to "pick up after themselves.
14. The City of Pomona and City of Upland water treatment plants will comply with the Stage 2 Disinfectant and Disinfection by-products rule and the Long Term 2 Enhanced Surface Water Treatment Rule.
15. The USFS has extended the leases of the private cabins on public lands for another 20 years. There are still concerns over the "permanent occupancy" of some of the cabins. The USFS reports that a prevention officer visits the cabins semi-annually to check on brush clearance and the USFS states that officer would also note any water quality issues. A follow-up for compliance is made. The Cities, SAWCO or the Watershed Committee however are not notified of the compliance orders. The USFS should make sure the prevention and compliance personnel are trained in observing conditions that could impact water quality.
16. The San Antonio Watershed Committee meets bi-monthly to discuss matters of mutual interest in the watershed.
17. Recreational use of the watershed is continuing at a high level. The imposition of the USFS \$5 use fee has not brought about a permanent reduction in recreational activities.
18. Permanent vault toilets have been constructed at Manker Campground and at the end of the road at Ice House Canyon. Portable toilets were observed at the ski area parking lot.
19. The "Friends of the River" have proposed making a portion of San Antonio Creek from the falls to its headwaters as "WILD and SCENIC." This will protect the area but not impact its recreational use.

## CONCLUSIONS

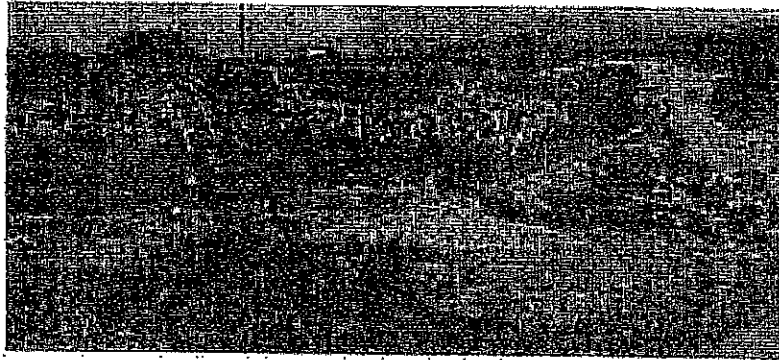
1. Water quality in San Antonio Creek continues to be of relatively high quality.

2. Microbiological contamination of the watershed is not showing any increasing trends. The City of Pomona's Evey Canyon intake appears to be a significant source of coliform.
3. Giardia and cryptosporidium concentrations in San Antonio Creek are minimal and the costly sampling could be reduced significantly.
4. The San Antonio Watershed Committee should continue their bimonthly meetings and their watershed activities.

## RECOMMENDATIONS

1. The cryptosporidium and giardia monitoring currently carried out at the Upper, Middle, Lower Intake and Ice House Canyon should be reduced to once every 2 years.
2. The City of Pomona should carefully monitor the total coliform and E. coli in the Evey Canyon intake and try to identify the sources if possible.
3. The USFS should keep the Watershed Committee (and the Agencies) informed of their inspections of the cabins and compliance orders.
4. The Watershed Committee should receive copies of the reports prepared by the SACMSC for the Regional Water Quality Control Board.
5. The intake pipelines, including the SCE pipelines should be inspected on an annual basis, preferably after the heavy spring runoff season. (This was one of the recommendations in the 1995 WSS and should be discussed at the Watershed meetings since SCE is a member of the Committee.)
6. A mechanism needs to put in place, if it is not already in place, to alert the Agencies of vehicle accidents which could discharge chemicals or contaminants into the watercourse. (This was one of the recommendations in the 1995 WSS.)
7. The Agencies in conjunction with the USFS should continue and, if possible, expand their public education program of the need to protect the San Antonio Creek watershed. (This was one of the recommendations in the 1995 WSS.)
8. The County of Los Angeles and the County of San Bernardino Building and Safety Departments should notify the Watershed Committee when there are modifications or replacements of existing septic tank systems or any new systems installed or failure or overflow of existing systems.
9. The USFS should locate the septic tank and leach field at the Lower San Antonio Fire Station at Shinn Road and provide the Watershed Committee with a report on when it is pumped.
10. The USFS should require special use cabin owners (or the septic tank pumers) to provide records to the USFS when these cabin septic tanks are pumped. These reports should be provided to the Watershed Committee on an annual basis.
11. There needs to be communication between the Los Angeles County Department of Public Works Crews and Contractors when they are planning on working in the Creek as the impact on the water supply intakes from the turbidity is significant.

### Upland Basin



#### Location

Management Zone No. 1

Upland Basin is located in the southeast corner of Monta Vista Avenue and Arrow Route in the City of Montclair, California.

#### Ownership

City of Upland

#### Potential Recharge Water Supply Sources

- Storm Water
- Recycled Water
- Imported Water (SWP)

#### Effective Spreading Area

10.1 acres

#### Percolation Rate

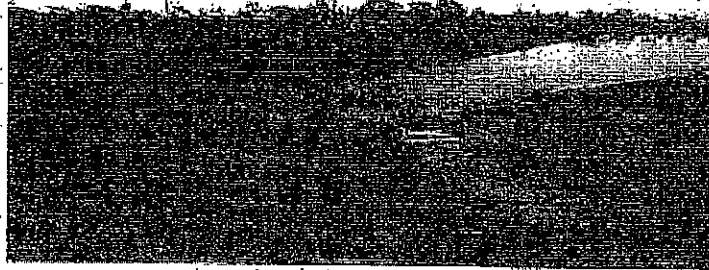
3.0 ft/day

#### Description

Upland Basin was once a quarry mining area. There exists one inlet for local runoff into the basin. There are no outlets for the basin.



### Montclair Basins



#### Location

Management Zone No. 1

Montclair Basins consists of four basins (M1-M4) located in series to the east of San Antonio channel between Arroyo Highway and San Bernardino Avenue.

#### Ownership

Chino Basin Water Conservation District

#### Potential Recharge Water Supply Sources

- Storm Water Captured from the San Gabriel Mountain Watersheds
- Recycled Water
- Imported Water (SWP)

#### Effective Spreading Area

Montclair 1	6.8 acres
Montclair 2	10.9 acres
Montclair 3	3.9 acres
Montclair 4	6.6 acres

#### Percolation Rate

Montclair 1	2.0 ft/day
Montclair 2	2.6 ft/day
Montclair 3	1.5 ft/day
Montclair 4	1.0 ft/day

#### Description

Montclair 1 (M1) receives water from the San Antonio channel via a drop inlet structure and 48-inch RCP. There are two additional storm water inlets for M1. A 24-inch gate outlet and a spillway structure convey flows underneath Moreno Avenue from M1 to Montclair 2 (M2).

In addition to the inlet structure from M1, there is also a 36-inch diameter storm water inlet into the spreading basin. On the west side of the basin is a low-flow outlet and an overflow, concrete spillway that leads into San Antonio Channel. The outlet structure conveying flows to Montclair 3 (M3) consists of two 36-inch diameter pipes that run beneath San Jose Avenue.

In addition to the inlet structure from M2, an open channel delivers storm water runoff from Montclair Plaza and the surrounding areas. There is an overflow spillway that conveys water under I-10 and into San Antonio Channel. An 8-foot by 6-foot outlet box delivers water to Montclair 4 (M4).

In addition to the inlet structure from M3, there is also a 16-inch diameter storm water inlet. A concrete, rectangular, outlet structure at the south end of the basin delivers water to San Antonio Channel.

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# CHINO BASIN WATERMASTER

## IV. REPORTS/UPDATES

### B. CEO/STAFF REPORT

3. Notice of Availability of Non-Agricultural Pool Water





## CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730  
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

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### NOTICE OF AVAILABILITY

Pursuant to Judgment Exhibit "G," By December 31<sup>st</sup> of each year, the members of the Overlying (Non-Agricultural) Pool shall notify Watermaster of the amount of water each member shall make available in their individual discretion for purchase by the Appropriators.

By January 31<sup>st</sup> of each year, Watermaster shall provide a Notice of Availability of each Appropriator's pro-rata share of such water.

On December 16, 2011, California Speedway notified Watermaster of availability of 250 acre-feet of water for purchase by the Appropriators at a purchase price of \$406.64/acre-foot, which is 92-percent of the 2012 MWD Replenishment Rate of \$442 (attached). This is the amount of water available in 2012 for purchase under Exhibit "G."

A table is attached that allocates the amount of water available to each Appropriator, should each Appropriator want to purchase their share of the water. Appropriators have until March 1, 2012 to notify Watermaster if they are each interested in purchasing their allocation of the water. If interested please contact Danielle Maurizio at [dmaurizio@cbwm.org](mailto:dmaurizio@cbwm.org).

## Potential Allocation of the Purchase of the January 2012 Non-Ag Pool Stored Water

The Judgment Amendment to Exhibit G (Attachment "I" to the Peace II Agreement) states:

9(a) By December 31 of each year, the members of the Overlying (Non-Agricultural) Pool shall notify Watermaster of the amount of water each member shall make available in their individual discretion for purchase by the Appropriators. By January 31 of each year, Watermaster shall provide a Notice of Availability of each Appropriator's pro-rata share of such water;

9(b) Except as they may be limited by paragraph 9(e) below, each member of the Appropriative Pool will have, in their discretion, a right to purchase its pro-rata share of the supply made available from the Overlying (Non-Agricultural) Pool at the price established in 9(d) below. Each Appropriative Pool member's pro-rata share of the available supply will be based on each Producer's combined total share of Operating Safe Yield and the previous year's actual Production by each party.

9(c) If any member of the Appropriative Pool fails to irrevocably commit to their allocated share by March 1 of each year, its share of the Overlying (Non-Agricultural) Pool water will be made available to all other members of the Appropriative Pool according to the same proportions as described in 9(b) above and at the price established in Paragraph 9(d) below. Each member of the Appropriative Pool shall complete its payment for its share of water made available by June 30 of each year.

Party	Assigned Share of Operating Safe Yield	DRAFT 2010-2011 Actual Production	DRAFT 2010-2011 Production & Exchanges	DRAFT "Averaged" Production & Exchanges	250 Based on Operating Safe Yield	250 Based on Averaged Prod & Exch	250 50% OSY & 50% Averaged Prod & Exch	Cost for Each Party's Allocation @ \$406.64/AF
Arrowhead Mtn Spring Water Co	-	408,457	408,457	408,457	-	1,236	0.618	\$ 251.36
Chino Hills, City Of	2,111,422	1,766,644	1,766,644	1,766,644	9,626	5,347	7.487	\$ 3,044.44
Chino, City Of	4,033,857	689,932	673,146	681,539	18,391	2,063	10.227	\$ 4,158.72
Cucamonga Valley Water District	3,619,454	20,317,710	19,334,924	19,826,317	16,502	60,010	38.256	\$ 15,556.30
Desalter Authority	-	-	-	-	-	-	-	\$ -
Fontana Union Water Company	6,391,736	-	-	-	29,141	-	14.571	\$ 5,925.01
Fontana Water Company	1,000	8,348,453	8,348,452	8,348,453	0.005	25,269	12.637	\$ 5,138.57
Fontana, City Of	-	-	-	-	-	-	-	\$ -
Golden State Water Company	411,476	443,945	443,945	443,945	1,876	1,344	1.610	\$ 654.63
Jurupa Community Services District	2,061,118	14,228,882	13,501,296	13,865,089	9,397	41,966	25.682	\$ 10,443.21
Marygold Mutual Water Company	655,317	1,107,368	1,107,368	1,107,368	2,988	3,352	3.170	\$ 1,288.94
Monte Vista Irrigation Company	676,759	-	-	-	3,085	-	1.543	\$ 627.34
Monte Vista Water District	4,823,954	11,858,760	8,869,574	10,364,167	21,993	31,370	26.682	\$ 10,849.83
Niagara Bottling, LLC	-	1,344,692	1,344,692	1,344,692	-	4,070	2.035	\$ 827.53
Nicholson Trust	4,000	-	-	-	0.018	-	0.009	\$ 3.71
Norco, City Of	201,545	-	-	-	0.919	-	0.459	\$ 186.83
Ontario, City Of	11,373,816	14,259,954	10,604,065	12,432,010	51,856	37,629	44.742	\$ 18,193.97
Pomona, City Of	11,215,852	10,527,824	10,527,824	10,527,824	51,135	31,865	41.500	\$ 16,875.70
San Antonio Water Company	1,506,888	716,095	716,095	716,095	6,870	2,167	4.519	\$ 1,837.54
San Bernardino County Shtg Prk	-	17,605	17,605	17,605	-	0.053	0.027	\$ 10.83
Santa Ana River Water Company	1,301,374	12,514	12,514	12,514	5,933	0.038	2.986	\$ 1,214.05
Upland, City Of	2,852,401	733,813	733,813	733,813	13,005	2,221	7.613	\$ 3,095.71
West End Consolidated Water Company	947,714	-	-	-	4,321	-	2.160	\$ 878.51
West Valley Water District	644,317	-	-	-	2,938	-	1.469	\$ 597.27
<b>Total</b>	<b>54,834,000</b>	<b>86,782,648</b>	<b>78,410,414</b>	<b>82,596,531</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>\$ 101,660.00</b>



December 16, 2011

Chino Basin Watermaster  
Attn: Danni Maurizio  
9641 San Bernardino Road  
Rancho Cucamonga, CA 91730

RE: Notice of Availability - Judgment Exhibit G

Dear Ms. Maurizio:

As required by Exhibit G – Paragraph 9, this letter serves as notice that for this year Auto Club Speedway makes available for purchase two-hundred fifty (250) acre feet of water held in storage at a purchase price of \$406.64/AF (\$442.00 x 92%).

Please contact my office with any questions.

Regards,

Brian Gey  
Senior Director, Operations

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# CHINO BASIN WATERMASTER

## IV. REPORTS/UPDATES

### B. CEO/STAFF REPORT

4. WEI Analysis of Well Design for CDA Well I-20







December 22, 2011

Chino Basin Watermaster  
Attention: Danni Maurizio  
9641 San Bernardino Road  
Rancho Cucamonga, CA 91730

**Re: Recommended Design for Well I-20 and Consistency with the OBMP/Peace II**

Danni,

The last three production wells for the Chino Creek Well Field (CCWF) are now being drilled and constructed under the direction of GSi/water (GSi)—the hydrogeology consultant for the Chino Basin Desalter Authority (CDA). Well I-20 is the fourth CCWF well to be constructed. GSi has documented the borehole/testing data and recommended a well design (see attached letter). The key information from this letter are summarized below:

Well I-20	
Borehole depth	600 ft-bgs
Depth to groundwater	~60 ft-bgs
Proposed screened intervals	120-225, 280-325, 355-505 ft-bgs
Proposed filter-pack interval	75-545 ft-bgs
TDS	750 to 1400 mg/L
Nitrate (as nitrate)	140 to 380 mg/L

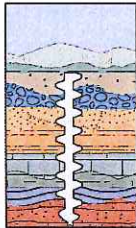
I have met and spoken with staff at GSi to review the borehole/testing data and the proposed well design for Well I-20. GSi (representing the CDA) is asking that Watermaster staff approve the proposed well design before well construction begins—specifically, the screened and filter-packed intervals. Note that the attached well design letter states that the deeper screened well casing (280-325 and 355-505 ft-bgs) will be back-filled with gravel and capped with a cement seal after well development to prevent pumping from the deep, confined aquifers.

Per the OBMP and the Peace II Agreement, Watermaster's primary concerns for the CCWF are that (1) hydraulic control is achieved in this area and (2) the occurrence of pumping-induced land subsidence is minimized to tolerable levels. After review of the data and the well design letter, it is our opinion that the CDA's recommended design for Well I-20 is consistent with objectives OBMP and the Peace II Agreement. This opinion applies only the proposed well construction, and does not imply approval of how this well is ultimately operated by the CDA.

Sincerely,

Andrew E. Malone, PG  
Wildermuth Environmental, Inc.

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1499 HUNTINGTON DRIVE  
SUITE 402  
SOUTH PASADENA  
CALIFORNIA 91030

**GSi/water**  
(626) 441 - 0039

December 22, 2011

Ms. Daynan K. Rigg  
Senior Project Manager  
SAIC Energy, Environment & Infrastructure, LLC  
15373 Innovation Drive, Ste 390  
San Diego, CA 92128

Mr. Jack Safely  
Director of Water Resources  
Western Municipal Water District  
14205 Meridian Parkway  
Riverside, CA 92518

**Subject: Chino Desalter Authority Well I-20  
Recommended Casing, Screen and Gravel Pack Design**

Dear Ms. Rigg, Mr. Martinez and Mr. Safely:

This letter summarizes the casing, screen and gravel pack design recommendations for the Chino Basin Desalter Authority (CDA) Well I-20 located on the southern margin of the Chino Airport at approximately 7906 Kimball Avenue, just west of Mill Creek Avenue in Chino, California. The specified well design is based on evaluation of the lithologic samples collected during pilot hole drilling, geophysical logs, sieve analysis of selected soil sample intervals and the results of isolated aquifer zone testing.

The pilot hole at I-20 was drilled to 600 ft below ground surface (bgs). In general, formation materials consist of inter-bedded sand, silt and clay to approximately 505 ft. Thin layers of sand and gravel approximately 5 to 10 ft thick are interspersed between accumulations of silt and clay ranging in thickness from about 15 to 70 ft. The thickest accumulations of coarse sand and gravel occur between 110 – 140 and 405 – 505 ft bgs. Clay was encountered from 505 ft depth to the bottom of the borehole.

***Isolated Aquifer Zone Testing***

Between November, 30 – December 3, 2011, three isolated aquifer zone tests were performed. The discharge rate and field water quality parameters for each zone are summarized in Table 1.

**Table 1. Results from Aquifer Zone Testing CDA I-20**

Zone No.	Depth of Zone (ft bgs)	Static Water Level (ft bgs)	Pumping Water Level (ft bgs)	Water Level Drawdown (ft)	Average Discharge Rate (gpm)	Pumping Duration (hrs)	Field pH*	Field Electrical Conductivity* (mS/cm)	Field Water Temperature* (°C)
1	280 - 300	71.6	150.95	79.35	52.4	13.3	8.3	270	22.3
2	195 - 215	63.5	80.9	17.4	63.1	3.4	8.1	1010	21.3
3	115 - 135	60.9	69.6	8.7	51.3	5.2	7.3	1830	20.5

\* Field water quality parameters measured at the end of testing after parameters had been stable for one hour.

### *Summary of Aquifer Zone Testing and Ground Water Quality*

The depth to static water level (SWL) measured in Zone 1 (280 – 300 ft bgs) was 8 to 10 ft lower than in the upper zones. Water quality is also significantly different in Zone 1, with much lower salinity and slightly lower pH. This suggests that Zone 2 and 3 are likely part of the same aquifer system, which is separate from the lower zone. Lithologic and geophysical logs indicate that a 65-ft thick layer of tight silt exists between about 215 to 280 ft bgs. This interval is interpreted to provide a semi-impermeable layer separating the two aquifer systems.

Average discharge rates ranged from about 51 to 63 gallons per minute (gpm). Water level drawdown was about 79 ft in Zone 1 (lower aquifer system) and ranged from about 9 to 17 ft for Zones 2 and 3 (upper aquifer system). By the end of testing in each zone, pumping water levels had stabilized, indicating that the yield from these zones can be sustained for at least three hours.

Water quality results from aquifer zone testing for select constituents are summarized in Table 2, as reported by Clinical Laboratory of San Bernardino, Inc. of Grand Terrace, California.

#### *Zones 2 and 3 (Upper Aquifer System)*

Total dissolved solids (TDS) concentrations in Zones 2 and 3 were reported to be 750 and 1,400 mg/L respectively, above the recommended limit of the California Department of Public Health (CDPH) Secondary Maximum Contaminant Level (MCL) of 500 mg/L. Nitrate concentrations in Zones 2 and 3 were reported to be respectively 140 and 380 mg/L (nitrate as nitrate), above the CDPH primary MCL of 45 mg/L.

Iron concentrations were reported to be 310 µg/L for Zone 2, above the recommended limit for the CDPH Secondary MCL of 300 µg/L. Reported iron concentration in Zone 3 was 220 µg/L, below the Secondary MCL. Manganese concentrations were reported to be 57 µg/L for Zone 3, above the recommended limit of the CDPH Secondary MCL of 50 µg/L. Reported manganese concentration in Zone 2 was 30 µg/L, below the Secondary MCL.

Toluene was the only volatile organic compound (VOC) that was detected in Zones 2 and 3, with reported concentrations of 6.1 and 54 µg/L respectively, below the CDPH primary MCL of 150 µg/L. Upon request, to confirm whether the presence of toluene might have been a laboratory artifact, the sample collected for Zone 3 was re-run. Results agreed with those from the first analysis.

#### *Zones 1 (Lower Aquifer System)*

Total dissolved solids and nitrate (as nitrate) concentrations in Zone 1 were reported to be 180 and 7.3 mg/L respectively, below the CDPH primary MCLs for these constituents. Likewise for iron and manganese, with reported concentrations of 290 and 27 µg/L respectively. Aluminum concentrations, however, were reported to be 250 µg/L, above the CDPH primary MCL of 200 µg/L.

Because of the large proportion of silt in this interval, discharge from Zone 1 required 13 hours to clear to acceptable levels. At the end of testing, field turbidity measured 4.93 NTU.

Toluene was the only VOC detected in Zone 1, with reported concentration of 450 µg/L, above the CDPH primary MCL of 150 µg/L.

The likeliest source of toluene is the electrical tape used to secure the power cable to the submersible pump.

Table 2. Summary of Laboratory Analytical Water Quality Data for CDA I-20

Constituent	Units	Zone 1	Zone 2	Zone 3	Drinking Water Standards
		280 - 300 (ft bgs)	195 - 215 (ft bgs)	115 - 135 (ft bgs)	
Alkalinity	mg/L	120	190	240	n/a
Aluminum	µg/L	250	130	120	200 <sup>a</sup> / 1,000 <sup>b</sup>
Arsenic	µg/L	3.0	ND (< 2.0)	ND (< 2.0)	10 <sup>a</sup>
Bicarbonate (as CaCO <sub>3</sub> )	mg/L	150	230	300	n/a
Boron	µg/L	ND (< 100)	ND (< 100)	ND (< 100)	1000 <sup>c</sup>
Calcium	mg/L	26	130	260	n/a
Carbonate (as CaCO <sub>3</sub> )	mg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	n/a
Chloride	mg/L	6.4	88	230	250 <sup>a</sup> / 500 <sup>b</sup>
Chromium (Hexavalent)	µg/L	4.4	ND (< 1.0)	ND (< 1.0)	50 <sup>a,d</sup>
Chromium (Total)	µg/L	ND (< 10)	ND (< 10)	ND (< 10)	50 <sup>a</sup>
Color	Color Units	5.0	10.0	ND (< 3.0)	15 <sup>b</sup>
Fluoride	mg/L	0.36	0.17	0.20	2 <sup>a</sup>
Iron	µg/L	290	310	220	300 <sup>b</sup>
Manganese	µg/L	27	30	57	50 <sup>b</sup>
Nitrate (as NO <sub>3</sub> )	mg/L	7.3	140	380	45 <sup>a</sup>
Odor	TON	1	1	1	3 <sup>b</sup>
Perchlorate	µg/L	ND (< 4.0)	ND (< 4.0)	ND (< 4.0)	6 <sup>a</sup>
pH	pH Units	7.9	7.3	7.3	6.5 to 8.5 <sup>e</sup>
Sodium	mg/L	38	82	59	n/a
Sulfate (as SO <sub>4</sub> )	mg/L	20	110	98	250 <sup>a</sup> / 500 <sup>b</sup>
Surfactants (MBAS)	mg/L	ND (< 0.1)	0.10	0.18	0.5 <sup>b</sup>
Total Dissolved Solids (TDS)	mg/L	180	750	1400	500 <sup>a</sup> / 1,000 <sup>b</sup>
Total Hardness	mg/L	75	390	860	n/a
Total Silica	mg/L	24	29	34	n/a
Turbidity	NTU	6.0	4.6	2.7	5 <sup>b</sup>
Vanadium	µg/L	13	6.0	6.4	50 <sup>c</sup>
1,2,3-Trichloropropane	µg/L	ND (< 0.0050)	ND (< 0.0050)	ND (< 0.0050)	0.005 <sup>c</sup>

Table 2. Summary of Laboratory Analytical Water Quality Data for CDA I-20 (Continued)

Constituent	Units	Zone 1	Zone 2	Zone 3	Drinking Water Standards
		280 - 300 (ft bgs)	195 - 215 (ft bgs)	115 - 135 (ft bgs)	-
Volatile Organic Compounds except as noted below (EPA Method 524.2)	µg/L	ND	ND	ND	Varies by chemical
Trichlorofluoromethane (FREON 11)	µg/L	ND (< 50)	ND (< 50)	ND (< 50)	150 <sup>a</sup>
1,1-Dichloroethylene (1,1-DCE)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	6 <sup>a</sup>
trans-1,2-Dichloroethylene (t-1,2-DCE)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	10a
1,1-Dichloroethane (1,1-DCA)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	5 <sup>a</sup>
cis-1,2-Dichloroethylene (c-1,2-DCE)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	6 <sup>a</sup>
Chloroform (Trichloromethane)	µg/L	ND (< 10)	ND (< 10)	ND (< 10)	80 <sup>a,f</sup>
1,2-Dichloroethane (1,2-DCA)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	0.5 <sup>a</sup>
Trichloroethylene (TCE)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	5 <sup>a</sup>
Tetrachloroethylene (PCE)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	5 <sup>a</sup>
Toluene	µg/L	<b>450</b>	6.1	54	150 <sup>a</sup>
1,1,2-Trichloroethane (1,1,2-TCA)	µg/L	ND (< 5.0)	ND (< 5.0)	ND (< 5.0)	5 <sup>a</sup>
Total Trihalomethanes (TTHM)	µg/L	ND (< 10)	ND (< 10)	ND (< 10)	80 <sup>a</sup>

- a California Department of Public Health (CDPH) Primary Maximum Contaminant Level (MCL)
- b CDPH Secondary MCL
- c CDPH Notification Level for unregulated chemicals
- d Hexavalent chromium is regulated by CDPH under the MCL for Total Chromium (50 µg/L)
- e USEPA Secondary Standard for pH
- f Chloroform is regulated under the TTHM MCL of 80 µg/L
- n/a Not applicable – no current MCL
- ND (<...) Not detected above the laboratory detection limit (shown in parentheses)
- BOLD** Exceeds regulatory limits (MCL or Notification Levels)

**Proposed Well Design**

Based on our evaluation of the water quality data, geophysical borehole logs, lithologic samples, and sieve analyses, the following casing and screen schedule is proposed (Table 3). Figure 1 shows the proposed casing and screen schedule for Well I-20 with associated borehole diameters and depths.

**Table 3. Proposed Casing and Screen Schedule CDA Well I-20**

Interval (ft bgs)	Borehole Diameter (inch)	Casing Diameter* (inch)	Wall Thickness (inch)	Screen Slot Size (inch)	Material Type
+1 - 50	48	36-inch O.D.	3/8-inch	-	Conductor Casing (ASTM Grade B Mild Steel)
+2 - 85 (2 each)	Annulus	3-inch I.D.	Sch. 40	-	Gravel Feed Tubes x 2 (ASTM A53 Grade B Mild Steel)
+2 - 32	Annulus	2-inch I.D.	Sch. 40	-	Sounding Tube (ASTM A778 304L Stainless Steel) <i>Connection to well casing recommended 30-32 ft bgs</i>
+2 - 72	Annulus	4-inch I.D.	Sch. 40	-	Camera Tube (ASTM A778 304L Stainless Steel) <i>Connection to well casing recommended 64-72 ft bgs</i>
0 - 75	30	-	-	-	Annular Sand-Cement Seal
75 - 80	30	-	-	-	Fine Sand Layer
80 - 545	30 (50 - 95 ft bgs) 26 (95 - 545 ft bgs)	-	-	-	Modified 8 x 20 Custom Blend Gravel Pack
+2 - 120	30 (50 - 95 ft bgs) 26 (95 - 545 ft bgs)	16-inch I.D.	0.3125-inch	-	Blank Casing (ASTM A778 304L Stainless Steel)
120 - 225	26	16-inch I.D.	0.3125-inch	0.060	Ful-Flo Louvered Screen (ASTM A778 304L Stainless Steel)
225 - 280	26	16-inch I.D.	0.3125-inch	-	Blank Casing (ASTM A778 304L Stainless Steel)
280 - 325	26	16-inch I.D.	0.3125-inch	0.060	Ful-Flo Louvered Screen (ASTM A778 304L Stainless Steel)
325 - 355	26	16-inch I.D.	0.3125-inch	-	Blank Casing (ASTM A778 304L Stainless Steel)
355 - 505	26	16-inch I.D.	0.3125-inch	0.060	Ful-Flo Louvered Screen (ASTM A778 304L Stainless Steel)
505 - 525	26	16-inch I.D.	0.3125-inch	-	Blank Casing with End Plate (ASTM A778 304L Stainless Steel)
525 - 545	26	-	-	-	Gravel-Filled Borehole Below Casing and End Plate

\*To minimize the time required for welding, casing joints should measure 40-ft in length except where unpractical.

This well design is proposed to maximize production from the Upper aquifer system; with the option to later produce from the Lower aquifer system, should monitoring results indicate that the risk of land subsidence is negligible.

The formation includes a significant portion of silt and fine sand, more so than reported in the other wells in the area. In order to maximize production, a coarser gravel pack and slot size were selected to help prevent potential clogging by the formation materials and to maximize well efficiency. Given the abundance of silt and fine sand in the formation, depending on how the well is operated, there is a slight chance that the well will produce very fine sand and/or water with color until it is fully developed.

To help guard against potential sand production, a longer initial development period is recommended. It is common for wells of this type to continue to naturally develop after the permanent pump is installed. Two other measures to consider to help mitigate against potential sand production would be to (1) attach a suction pipe to the bottom of the pump intake to reduce turbulent forces and focus production from the coarse formation interval below about 200 ft; and (2) install a variable frequency drive (VFD) so that the pumping rate can increase gradually to further reduce the turbulent forces acting on the formation materials.

#### ***Reaming Pilot Borehole and Caliper Log***

The 17 ½-inch pilot borehole shall be enlarged to 30 inches diameter from 50 to 95 ft bgs and to 26 inches diameter from 95 to 545 ft bgs. This design provides 20 ft of additional borehole to allow for the settling of a small amount of fill during casing and screen installation to permit the well string to be properly landed.

After reaming, a caliper log shall be run in the enlarged borehole no more than six hours prior to the installation of the casing and screen.

#### ***Installation of Sounding Tube, Gravel Feed Tube and Camera Tube***

During casing and screen installation, a 2-inch diameter Schedule 40 304L stainless steel sounding tube shall be installed from approximately 2 ft above ground surface, connecting to the 16-inch inside diameter (I.D.) blank casing at a depth of 30 to 32 ft bgs. Likewise, a 4-inch diameter Schedule 40 304L stainless steel camera tube shall be installed from approximately 2 ft above ground surface, connecting to the 16-inch I.D. blank casing at a depth 64 to 72 ft bgs. The transitions from the 16-inch I.D. casing to the sounding tube box and camera tube port connections shall be smooth, without rough edges or burrs.

Two 3-inch diameter Schedule 40 mild steel gravel feed pipes shall each be installed from approximately 2 ft above ground surface to a depth of 85 ft bgs. The orientation of the well appurtenances at the surface shall be as shown in Figure 2.

#### ***Gravel Pack and Slot Size Selection***

Mechanical grading sieve analyses were performed on fifteen formation samples from between 95 and 325 ft bgs. Figure 3 shows the finest formation samples sieved. Based on the results of the sieve analyses, the proposed gravel pack is a modified 8 x 20 custom blend, as shown below in Table 4.

The proposed slot size for the screened intervals is 0.060 inches, which will allow approximately 18% of the gravel pack material to pass (Figure 3 and Table 5).



The gravel shall be supplied by Silica Resources, Inc. (SRI). A representative sieve analysis test report for the proposed gravel pack from supplier shall be submitted to and approved for use by GSi/water prior to delivery of the gravel pack material to the site. After, the gravel pack material is delivered to the site, GSi/water will sample and sieve a representative amount from each load to verify the gradation. All gravel pack material shall be delivered to the site in one-cubic-yard super sacks at least 24 hours prior to the installation of the casing and screen.

**Table 4. Proposed Gravel Pack Design CDA Well I-20  
 Modified 8 x 20 Custom Blend**

U.S. Standard Sieve No.	Sieve Opening		Cumulative Percent Passing
	(in)	(mm)	
6	0.1320	3.35	100
8	0.0930	2.37	92
10	0.079	2.01	77
12	0.0660	1.68	22
16	0.0470	1.20	8.5
20	0.0330	0.84	3
30	0.0230	0.59	1.6

**Table 5. Gravel Pack Design Parameters**

Design Criteria	Depth (ft)	Formula D - filter pack d - Formation	Value	Recommended Value
Pack / Aquifer Ratio (Finest Zone)	220 - 225	$D_{50}/d_{50}$	8.64	4 to 20
Terzaghi Migration Factor (Finest Zone)	220 - 225	$D_{15}/d_{85}$	1.25	less than 4
Terzaghi Permeability Factor (Coarsest Zone)	300 - 305	$D_{15}/d_{15}$	23.11	greater than 4
Screen Slot (in)	-	-	0.060	-
Percent Filter Pack Passing Screen Slot	-	-	18	15% to 25%
Uniformity Co-efficient of Filter Pack	-	$C_u = D_{60}/D_{10}$	1.06	less than 2.5
Sorting Factor	220 - 225	$S_f = C_{uf}/C_{ua} = (D_{60}/D_{10})/(d_{60}/d_{10})$	0.34	-

#### ***Placement of Gravel Pack and Cement Seal***

The gravel pack material shall be pumped through a tremie pipe from the bottom of the reamed borehole (at 545 ft bgs) to 80 ft bgs while adding one to two gallons of 12.5% liquid sodium hypochlorite per cubic yard of gravel pack material, as described in the technical specifications. At no time during emplacement of the gravel pack shall the bottom end of the tremie pipe be more than 60 ft above the top of the estimated level of the gravel pack. The depth to the top of the gravel pack shall be confirmed with a depth sounder. After the gravel pack reaches 80 ft bgs, a 5-ft fine sand layer shall be placed above the gravel pack from 80 to 75 ft bgs.

Above the fine sand interval, the annular space shall be filled with a 10.3-sack sand-cement grout from 75 ft bgs to the ground surface. The cement mixture shall be pumped through a tremie pipe, which shall remain submerged in the cement slurry at all times during the pumping of the cement. The Contractor is responsible for proper grouting technique and shall be familiar with the characteristics of the casing resistance to collapse.

To verify the cement set-up time, samples of the cement slurry will be collected from each truckload as it is being pumped. The samples shall be placed in a bucket of water located in the shade or suspended in the fluid reservoir filled with water. Samples shall be monitored to confirm the set-up time.

#### ***Placement of Inner Cement Seal***

After development pumping and production testing, the inside of the well casing shall be back-filled with clean, disinfected coarse gravel to a depth of about 265 ft. On top of the gravel fill, a 2-ft thick cement seal shall be placed. The purpose of this seal is to limit production to the Upper Aquifer System. After the seal has set-up, additional production testing shall be done to characterize yield and water quality from the uppermost screened interval.

#### ***Potential Yield (gpm)***

Based on analysis of lithologic samples, geophysical logging and isolated aquifer zone testing, the anticipated well screen interval is interpreted to intercept both the upper and lower aquifer systems. Results from isolated aquifer zone testing of Zones 2 and 3 are considered to be generally representative of the upper system, while results from Zone 1 are considered generally representative for the lower interval.

Estimates of aquifer transmissivity (T) were calculated based on the pumping characteristics observed during each test. Two approaches were used, assuming a zone efficiency of 50%. Details for each approach are shown in Attachment A. Hydraulic conductivity (K) was calculated based on the thickness of the permeable intervals. The results were averaged to give the values shown in Table 6 below.

Applying the appropriate K values, the Theim equation was used to estimate yield for Well I-20 from the Upper aquifer system and also from the Upper and Lower systems combined. The calculations assumed a drawdown of 45 ft, 70% well efficiency, well radius of 1 ft and a radial distance for the cone of depression of 1,000 ft. Table 6 summarizes the results and includes production estimates for the completed well.

**Table 6. Hydraulic Parameters and Estimated Production**

Aquifer System	Aquifer Depth Interval ft bgs	Thickness of Permeable Formation ft	Transmissivity gpd/ft	Hydraulic Conductivity gpd/ft <sup>2</sup>	Aquifer Flow Contribution Assuming Drawdown of 45 ft gpm
Upper	105 - 225	45	14,875	330	295
Lower	275 - 320	20	1,600	80	32
	355 - 505*	130	11,700*	90*	232*
<b>Estimated Well Production Assuming Drawdown of 45 ft</b>					<b>559</b>

\* Production estimated. This depth interval was not tested for yield.

For the design criteria outlined in this letter, the estimated production rate for I-20 would be about 295 gpm, with the seal in place limiting production to the Upper aquifer system. If, in the future, it is permissible to also produce from the Lower aquifer system, the estimated production for I-20 would be about 560 gpm. Due to the assumptions required to complete these calculations, actual production rates may differ.

If you have any questions, we are happy to respond.

Sincerely,  
*GSI/water*

J.H. Birman Ph.D., PG, CHG  
 Principal Geologist

Ronald Sorensen PG, CHG  
 Senior Geologist

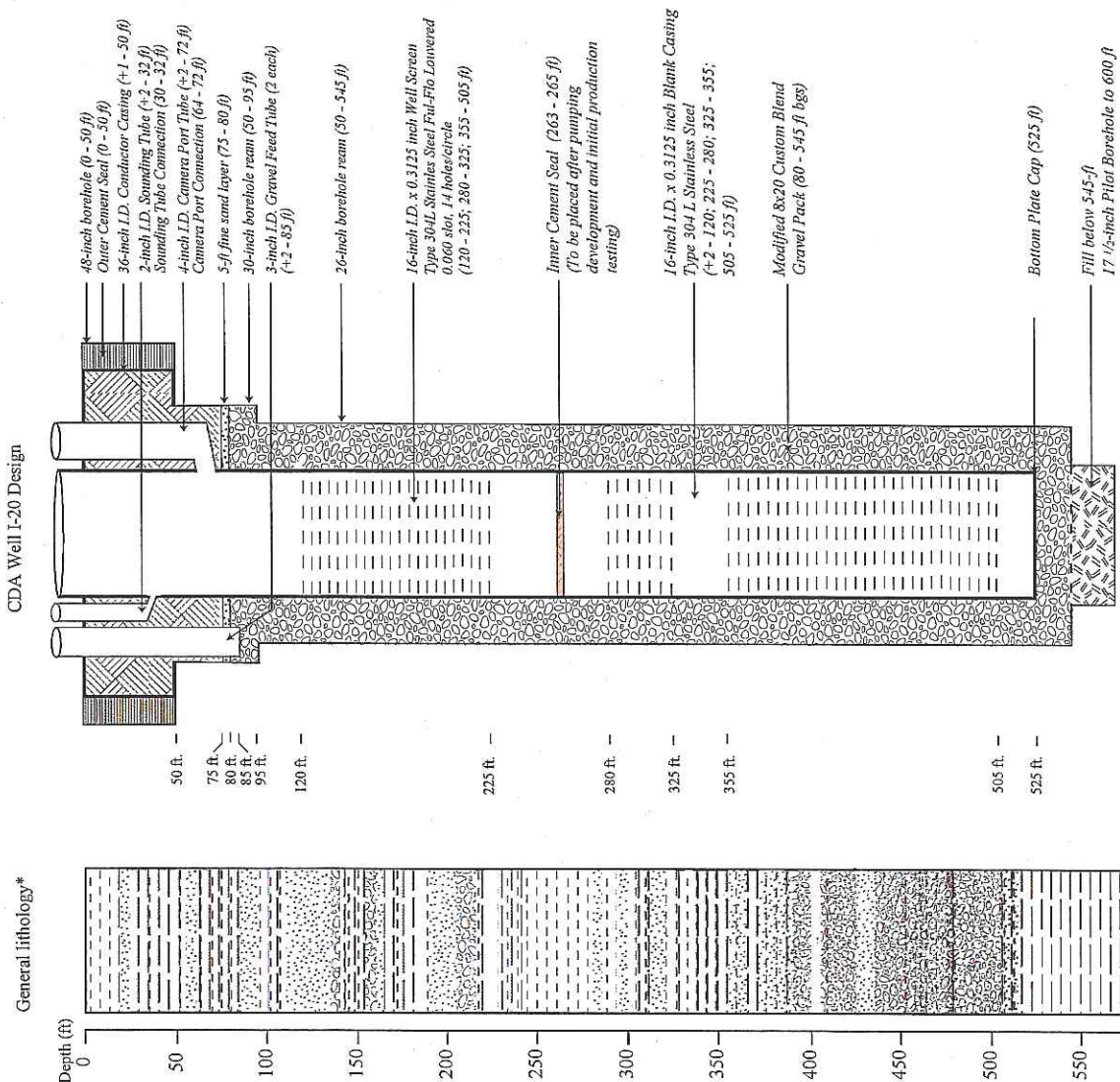
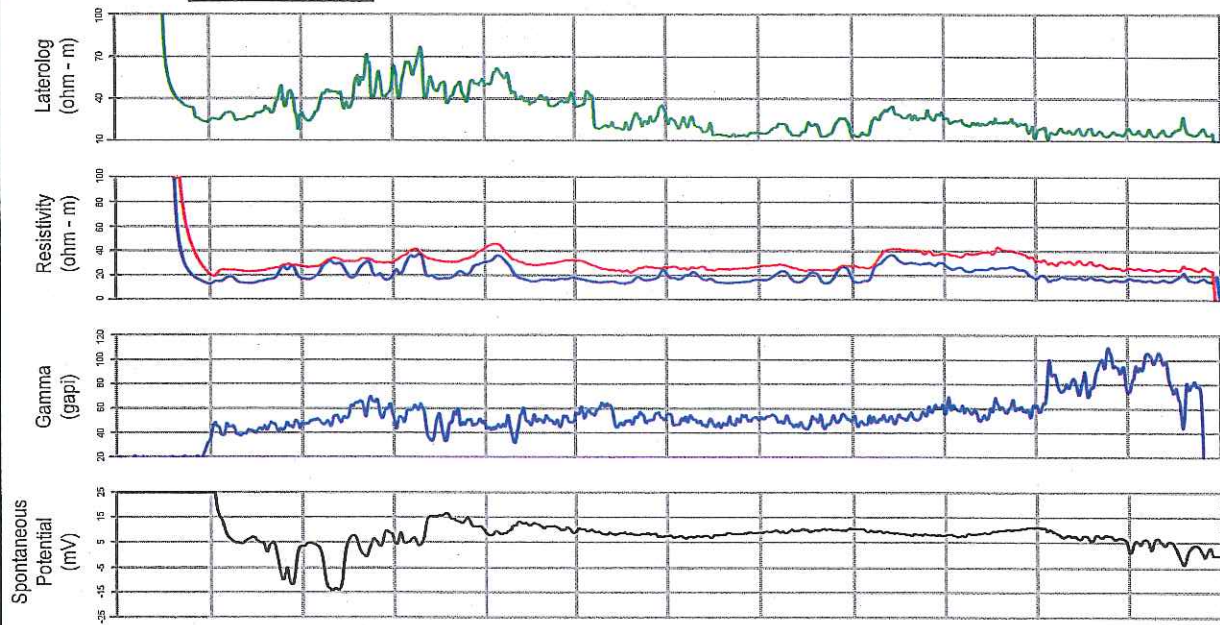
Rachel E. Ridgway, M.S., GIT  
 Project Geologist

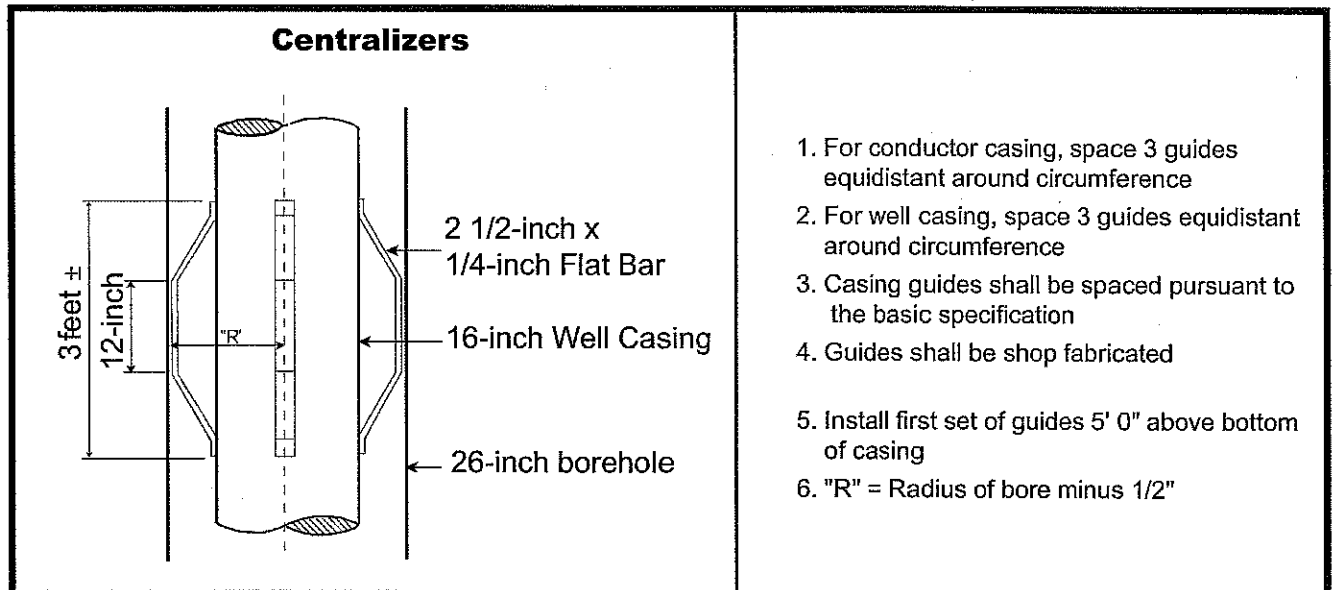
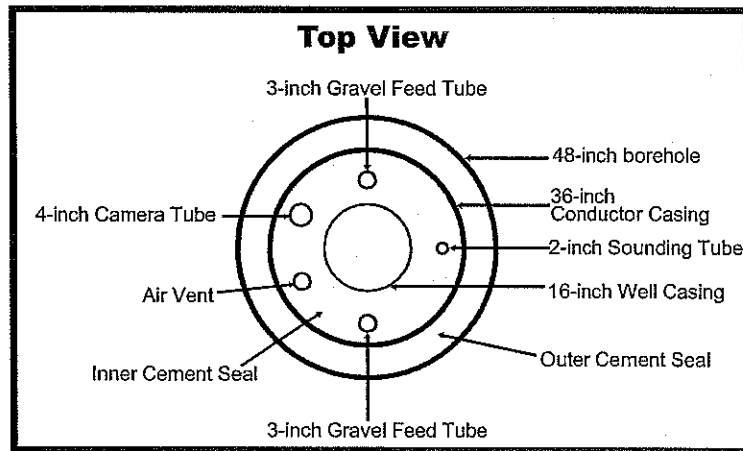
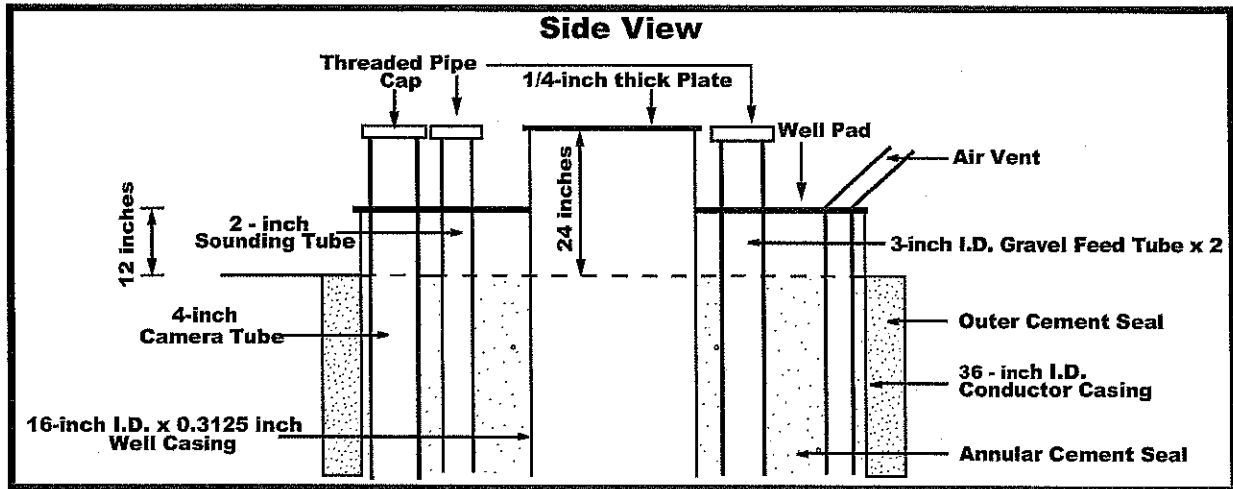
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**Figure 1**  
**Well Design**  
**CDA Well I-20**

Chino Basin Desalter Authority  
 Ontario, California  
 12/20 /11  
 GSI /water

Explanation	
General Lithology	
	Clay
	Silt
	Sand
	Gravel
Resistivity	
	RSN
	RLN





**Figure 2**  
**Well Appurtenances and Centralizers**  
**CDA WELL I-20**

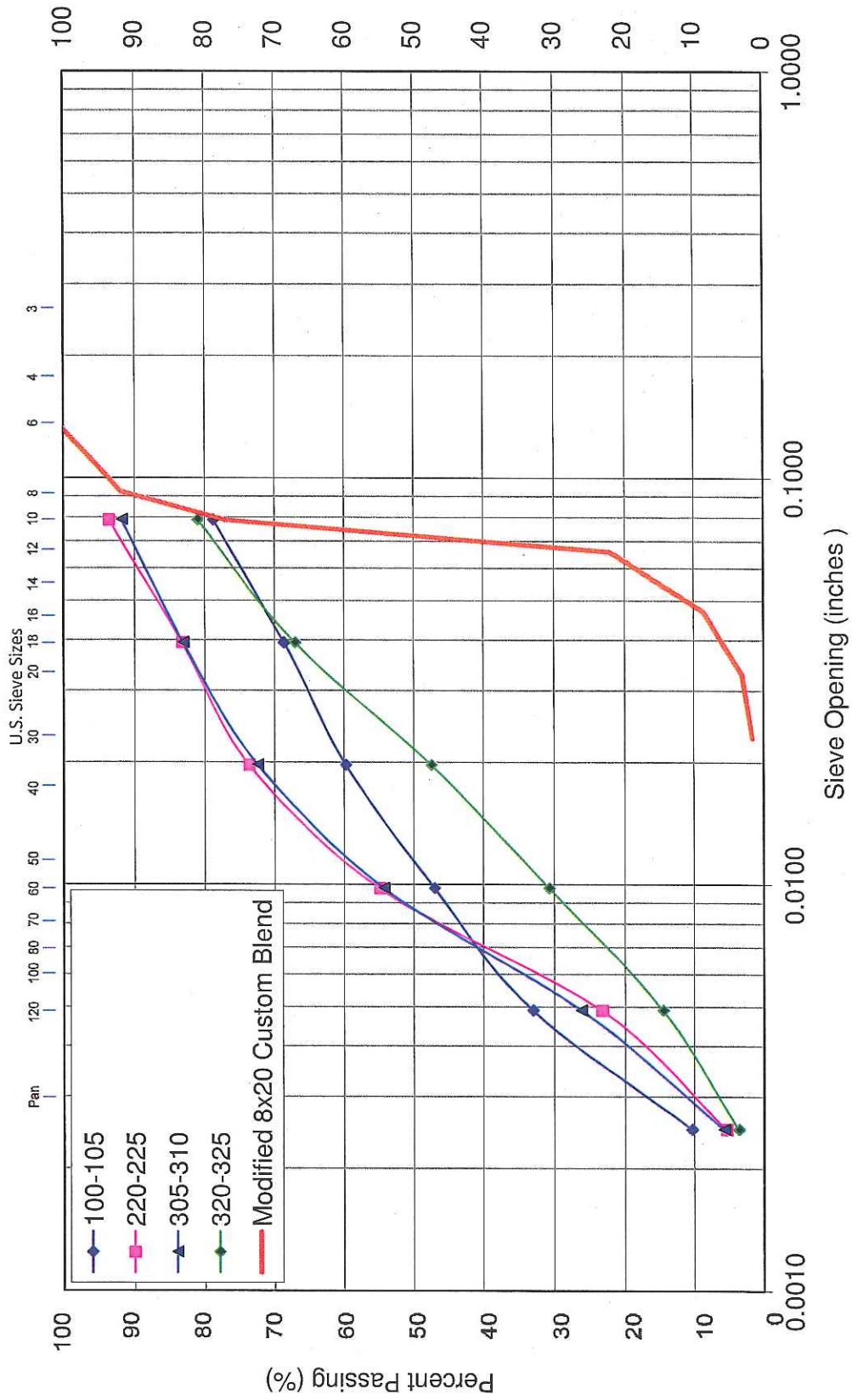
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**Chino Basin Desalter Authority**  
**Ontario, California**

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12/20/2011 **GSI** / water

Figure 3. Mechanical Grading Analysis CDA Well I-20



**Attachment A**

Theis curve-matching approach

$$T = \frac{Q}{4\pi(h_0 - h)} W(u)$$

Where  $T$  is aquifer transmissivity in gallons per day per foot (gpd/ft);  $Q$  is the pumping rate in gallons per day (gpd);  $(h_0 - h)$  is the water level drawdown; and  $W(u)$  is the well function, which was selected by matching graphs of the time-drawdown data with the Theis type curve. This method assumes radial flow in an ideal confined aquifer. Because the upper aquifer system is characterized to unconfined to semi-confined, it is still appropriate to apply this method for an approximation of transmissivity.

Theis iterative approach using specific capacity data

$$T = \frac{Q}{(h_0 - h)} \frac{2.3}{4\pi} \log \frac{2.25 Tt}{r^2 S}$$

Where  $T$  is aquifer transmissivity in gpd/ft;  $Q / (h_0 - h)$  is the specific capacity for the zone;  $t$  is time in days;  $r$  is the radius of the pumping well in feet; and  $S$  is storativity (dimensionless). For this approach, an initial value of  $T$ , close to the specific capacity was selected for the first iteration. Subsequent calculations helped to refine the value of  $T$ . Storativity was assumed to be respectively 0.1 and 0.001 for the upper and lower aquifer systems. For each zone, the following assumptions also applied:  $t = 1$  day;  $r = 1$  ft.

The results from each approach are summarized in the table below. Hydraulic conductivity ( $K$ ) was estimated by dividing  $T$  by the thickness of the permeable unit.

**Table A1. Estimated Aquifer Parameters Calculated by Theis Methods**

	Parameter	Zone		
		1	2	3
Curve-matching solutions	T (gpd/ft)	1,500	12,500	21,400
	K (gpd/ft <sup>2</sup> )	75	278	476
Iterative solutions	Parameter	Zone		
		1	2	3
	T (gpd/ft)	1,700	9,600	16,000
	K (gpd/ft <sup>2</sup> )	85	213	356

Thiem Production Estimates

$$Q = \frac{Kb(h - h_0)}{528 \left( \log \frac{r_2}{r_1} \right)}$$

Where  $Q$  is yield in gpm;  $b$  is the thickness of the permeable unit;  $(h - h_0)$  is the water level drawdown;  $r_1$  is the effective well radius and  $r_2$  is the radial distance of the cone of depression.

Reference: Fetter, C.W., *Applied Hydrogeology*, 4<sup>th</sup> Ed., New Jersey: Prentice Hall, 2001.





# CHINO BASIN WATERMASTER

## IV. REPORTS/UPDATES

### B. CEO/STAFF REPORT

5. Chino Basin Watermaster  
Excess Reserves



## **EXCESS RESERVE CALCULATION – REFUND TO PARTIES**

CAN BE FOUND ON OUR FTP SITE:

[WWW.CWBM.ORG/FTP](http://WWW.CWBM.ORG/FTP)

PLEASE LOOK IN THE FOLDER:

MEETINGS, PACKAGES, AND AGENDAS

FOR THE PDF TITLED:

20120126 Excess Reserve Calculations – Refund To Parties

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# CHINO BASIN WATERMASTER

## V. INFORMATION

1. Cash Disbursements for December 2011



**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**December 2011**

For Informational Purpose Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	12/05/2011	15625	DE BOOM, NATHAN	AG Pool Member Meeting Compensation	1012 - Bank of America Gen'l Ckg	
Bill	11/10/2011	11/10 Ag Pool Mtg		11/10/11 Ag Pool Meeting	8411 - Compensation	25.00
				AG Pool Member Meeting Compensation	8470 - Ag Meeting Attend -Special	100.00
<b>TOTAL</b>						<b>125.00</b>
Bill Pmt -Check	12/05/2011	15626	DURRINGTON, GLEN	AG Pool Member Meeting Compensation	1012 - Bank of America Gen'l Ckg	
Bill	11/10/2011	11/10 Ag Pool Mtg		11/10/11 Ag Pool Meeting	8411 - Compensation	25.00
				AG Pool Member Meeting Compensation	8470 - Ag Meeting Attend -Special	100.00
<b>TOTAL</b>						<b>125.00</b>
Bill Pmt -Check	12/05/2011	15627	FEENSTRA, BOB		1012 - Bank of America Gen'l Ckg	
Bill	11/07/2011	11/07 Personnel Comm		11/07/11 Personnel Committee	8470 - Ag Meeting Attend -Special	125.00
Bill	11/08/2011	11/08 Board Meeting		11/08/11 Special Board Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	11/10/2011	11/10 Ag Pool Mtg		11/10/11 Ag Pool Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	11/17/2011	11/17 Advisory Comm		11/17/11 Advisory Committee Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	11/17/2011	11/17 Board Mtg		11/17/11 Board Meeting	8470 - Ag Meeting Attend -Special	125.00
<b>TOTAL</b>						<b>625.00</b>
Bill Pmt -Check	12/05/2011	15628	HALL, PETE*		1012 - Bank of America Gen'l Ckg	
Bill	11/17/2011	11/17 Advisory Comm		11/17/11 Advisory Committee Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	11/17/2011	11/17 Board Mtg		11/17/11 Board Meeting	8470 - Ag Meeting Attend -Special	125.00
<b>TOTAL</b>						<b>250.00</b>
Bill Pmt -Check	12/05/2011	15629	HUITSING, JOHN	AG Pool Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	11/10/2011	11/10 Ag Pool Mtg		11/10/11 Ag Pool Meeting	8470 - Ag Meeting Attend -Special	125.00
<b>TOTAL</b>						<b>125.00</b>
Bill Pmt -Check	12/05/2011	15630	KOOPMAN, GENE	AG Pool Member Meeting Compensation	1012 - Bank of America Gen'l Ckg	
Bill	11/10/2011	11/10 Ag Pool Mtg		11/10/11 Ag Pool Meeting	8411 - Compensation	25.00
				AG Pool Member Meeting Compensation	8470 - Ag Meeting Attend -Special	100.00
<b>TOTAL</b>						<b>125.00</b>
Bill Pmt -Check	12/05/2011	15631	PIERSON, JEFFREY		1012 - Bank of America Gen'l Ckg	
Bill	11/10/2011	11/10 Ag Pool Mtg		11/10/11 Ag Pool Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	11/17/2011	11/17 Advisory Comm		11/17/11 Advisory Committee Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	11/17/2011	11/17 Board Mtg		11/17/11 Board Meeting	8470 - Ag Meeting Attend -Special	125.00
<b>TOTAL</b>						<b>375.00</b>
Bill Pmt -Check	12/05/2011	15632	GRAINGER		1012 - Bank of America Gen'l Ckg	
Bill	11/15/2011	9687071523		9687071523	7103.6 - Grdwtr Qual-Supplies	29.42
Bill	11/15/2011	9688083725		9688083725	7103.6 - Grdwtr Qual-Supplies	191.75
Bill	11/18/2011	9690356895		9690356895	7103.6 - Grdwtr Qual-Supplies	4.54
<b>TOTAL</b>						<b>225.71</b>

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	11/18/2011	9690356887		9690356887	7103.8 - Grdwtr Qual-Supplies	8.82
TOTAL						234.53
Bill Pmt -Check	12/05/2011	15633	HOGAN LOVELLS	2626846	1012 - Bank of America Gen'l Ckg	27,060.61
Bill	11/30/2011	2626846		Non-Ag Legal Services - October 2011	8567 - Non-Ag Legal Service	27,060.61
TOTAL						
Bill Pmt -Check	12/05/2011	15634	PARK PLACE COMPUTER SOLUTIONS, INC.	457	1012 - Bank of America Gen'l Ckg	2,550.00
Bill	11/30/2011	457		IT Services - November 2011	6052.1 - Park Place Comp Solutn	2,550.00
TOTAL						
Bill Pmt -Check	12/05/2011	15635	PUMP CHECK	4447	1012 - Bank of America Gen'l Ckg	2,280.00
Bill	11/30/2011	4447			7102.8 - In-line Meter-Calib & Test	2,280.00
TOTAL						
Bill Pmt -Check	12/05/2011	15636	YUKON DISPOSAL SERVICE	08-K2 213849	1012 - Bank of America Gen'l Ckg	106.53
Bill	12/01/2011	08-K2 213849		Disposal Service - December 2011	6024 - Building Repair & Maintenance	106.53
TOTAL						
Bill Pmt -Check	12/05/2011	15637	BOWCOCK, ROBERT	11/07/11	1012 - Bank of America Gen'l Ckg	125.00
Bill	11/07/2011	11/07 Personnel Comm		Personnel Committee Meeting	6311 - Board Member Compensation	125.00
Bill	11/17/2011	11/17 Board Mtg		Board Meeting	6311 - Board Member Compensation	250.00
TOTAL						
Bill Pmt -Check	12/05/2011	15638	ELIE, STEVEN	11/08/11	1012 - Bank of America Gen'l Ckg	125.00
Bill	11/08/2011	11/08 Board Mtg		Special Board Meeting	6311 - Board Member Compensation	125.00
Bill	11/17/2011	11/17 Board Mtg		Board Meeting	6311 - Board Member Compensation	250.00
TOTAL						
Bill Pmt -Check	12/05/2011	15639	HAUGHEY, TOM	11/07/11	1012 - Bank of America Gen'l Ckg	125.00
Bill	11/07/2011	11/07 Personnel Comm		Personnel Committee Meeting	6311 - Board Member Compensation	125.00
Bill	11/08/2011	11/08 Board Mtg		Special Board Meeting	6311 - Board Member Compensation	125.00
Bill	11/17/2011	11/17 Board Mtg		Board Meeting	6311 - Board Member Compensation	375.00
TOTAL						
Bill Pmt -Check	12/05/2011	15640	KUHN, BOB	11/07/11	1012 - Bank of America Gen'l Ckg	125.00
Bill	11/07/2011	11/07 Personnel Comm		Personnel Committee Meeting	6311 - Board Member Compensation	125.00
Bill	11/08/2011	11/08 Board Mtg		Special Board Meeting	6311 - Board Member Compensation	125.00
Bill	11/10/2011	11/10 Appro Pool		Appropriative Pool Meeting	6311 - Board Member Compensation	125.00
Bill	11/17/2011	11/17 Board Mtg		Board Meeting	6311 - Board Member Compensation	125.00
Bill	11/23/2011	11/23 Admin Mtg		Administrative Meeting	6311 - Board Member Compensation	625.00
TOTAL						

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	12/05/2011	15641	LANTZ, PAULA		1012 - Bank of America Gen'l Ckg	
Bill	11/08/2011	11/08 Board Mtg		11/08/11 Special Board Meeting	6311 - Board Member Compensation	125.00
Bill	11/17/2011	11/17 Board Mtg		11/17/11 Board Meeting	6311 - Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	12/05/2011	15642	VANDEN HEUVEL, GEOFFREY		1012 - Bank of America Gen'l Ckg	
Bill	11/08/2011	11/08 Board Mtg		11/08/11 Special Board Meeting	6311 - Board Member Compensation	125.00
Bill	11/10/2011	11/10 Ag Pool Mtg		11/10/11 Ag Pool Meeting	6311 - Board Member Compensation	125.00
Bill	11/17/2011	11/17 Board Mtg		11/17/11 Board Meeting	6311 - Board Member Compensation	125.00
TOTAL						375.00
Bill Pmt -Check	12/05/2011	15643	WILLIS, KENNETH		1012 - Bank of America Gen'l Ckg	
Bill	11/07/2011	11/07 Personnel Comm		11/07/11 Personnel Committee Meeting	6311 - Board Member Compensation	125.00
Bill	11/08/2011	11/08 Board Mtg		11/08/11 Special Board Meeting	6311 - Board Member Compensation	125.00
Bill	11/17/2011	11/17 Board Mtg		11/17/11 Board Meeting	6311 - Board Member Compensation	125.00
TOTAL						375.00
General Journal	12/10/2011	12/10/2011	Payroll and Taxes for 11/27/11-12/10/11	Payroll and Taxes for 11/27/11-12/10/11	1012 - Bank of America Gen'l Ckg	8,800.15
				Payroll Taxes for 11/27/11-12/10/11	1012 - Bank of America Gen'l Ckg	26,848.65
				Direct Deposits for 11/27/11-12/10/11	1012 - Bank of America Gen'l Ckg	35,648.80
TOTAL						69,297.60
Bill Pmt -Check	12/12/2011	15644	APPLIED COMPUTER TECHNOLOGIES	2033	1012 - Bank of America Gen'l Ckg	2,366.60
Bill	11/30/2011	2033		Database Services - November 2011	6052.2 - Applied Computer Technol	2,366.60
TOTAL						4,733.20
Bill Pmt -Check	12/12/2011	15645	CALPERS 457 PLAN	Payroll and Taxes for 11/13/11-11/26/11	1012 - Bank of America Gen'l Ckg	2,805.62
General Journal	11/26/2011	11/26/2011	CALPERS 457 PLAN	457 Employee deductions for 11/13/11-11/26/11	2000 - Accounts Payable	2,805.62
TOTAL						5,611.24
Bill Pmt -Check	12/12/2011	15646	CHARLES Z. FEDAK & COMPANY	Progress Billing - November 2011	1012 - Bank of America Gen'l Ckg	1,000.00
Bill	11/30/2011				6062 - Audit Services	1,000.00
TOTAL						2,000.00
Bill Pmt -Check	12/12/2011	15647	DC LAW	15668	1012 - Bank of America Gen'l Ckg	130.00
Bill	11/30/2011	15668		Ag Pool Legal Services - 15668	8467 - Ag Legal & Technical Services	130.00
TOTAL						260.00
Bill Pmt -Check	12/12/2011	15648	DGO AUTO DETAILING	Wash 3 trucks 11/02/11, 3 trucks 11/30/11	1012 - Bank of America Gen'l Ckg	150.00
Bill	11/30/2011				6177 - Vehicle Repairs & Maintenance	150.00
TOTAL						300.00
Bill Pmt -Check	12/12/2011	15649	GRAINGER		1012 - Bank of America Gen'l Ckg	

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	11/30/2011	9697287788		9697287788	7103.6 · Grdwtr Qual-Supplies	9.69
Bill	11/30/2011	9697287770		9697287770	7103.6 · Grdwtr Qual-Supplies	34.61
<b>TOTAL</b>						<b>44.30</b>
Bill Pmt -Check	12/12/2011	15650	GREAT AMERICA LEASING CORP.	11634411	1012 · Bank of America Gen'l Ckg	2,788.53
Bill	11/30/2011	11634411		Lease invoice	6043.1 · Ricoh Lease Fee	243.05
				Usage for Black Copies	6043.2 · Ricoh Usage & Maintenance Fee	278.67
				Usage for Color Copies	6043.2 · Ricoh Usage & Maintenance Fee	3,310.25
<b>TOTAL</b>						<b>580.11</b>
Bill Pmt -Check	12/12/2011	15651	HSBC BUSINESS SOLUTIONS	7003-7309-1000-2744	1012 · Bank of America Gen'l Ckg	580.11
Bill	11/30/2011	7003730910002744		Miscellaneous office supplies	6031.7 · Other Office Supplies	560.11
<b>TOTAL</b>						<b>810.00</b>
Bill Pmt -Check	12/12/2011	15652	JAMES JOHNSTON	248	1012 · Bank of America Gen'l Ckg	810.00
Bill	11/30/2011	248		Website Consulting - November 2011	6052.3 · Website Consulting	810.00
<b>TOTAL</b>						<b>417.00</b>
Bill Pmt -Check	12/12/2011	15653	MIJAC ALARM	309996	1012 · Bank of America Gen'l Ckg	417.00
Bill	12/01/2011	309996		Fire District Annual Permit 2011-2012	6026 · Security Services	417.00
<b>TOTAL</b>						<b>1,456.00</b>
Bill Pmt -Check	12/12/2011	15654	MWH LABORATORIES	L0073587	1012 · Bank of America Gen'l Ckg	1,456.00
Bill	11/30/2011	L0073587			7503 · PE6&7-Contract Svcs (Plume)	1,456.00
Bill	11/30/2011	L0073584			7503 · PE6&7-Contract Svcs (Plume)	2,912.00
<b>TOTAL</b>						<b>479.26</b>
Bill Pmt -Check	12/12/2011	15655	PAYCHEX	2011120100	1012 · Bank of America Gen'l Ckg	479.26
Bill	11/30/2011	2011120100		November 2011	6012 · Payroll Services	479.26
<b>TOTAL</b>						<b>8,357.23</b>
Bill Pmt -Check	12/12/2011	15656	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	8,357.23
General Journal	11/26/2011	11/26/2011		CalPERS Retirement for 11/13/11-11/26/11	2000 · Accounts Payable	8,357.23
<b>TOTAL</b>						<b>69.53</b>
Bill Pmt -Check	12/12/2011	15657	PURCHASE POWER	8000909000168851	1012 · Bank of America Gen'l Ckg	69.53
Bill	11/30/2011	8000909000168851		Checks to IEUA, SCE, and return to WM	6042 · Postage - General	69.53
<b>TOTAL</b>						<b>870.00</b>
Bill Pmt -Check	12/12/2011	15658	RAUCH COMMUNICATION CONSULTANTS, LLC	Dec-1205	1012 · Bank of America Gen'l Ckg	870.00
Bill	11/30/2011	Dec-1205		Annual report - progress payment	6061.3 · Rauch	870.00
<b>TOTAL</b>						<b>870.00</b>

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	12/12/2011	15659	THE LAWTON GROUP	6017	1012 - Bank of America Gen'l Ckg	
Bill	11/27/2011	1VC070000017859		Week ending 11/27/11	6017 - Temporary Services	494.40
TOTAL						494.40
Bill Pmt -Check	12/12/2011	15660	UNION 76	300-732-989	1012 - Bank of America Gen'l Ckg	
Bill	11/30/2011	300732989		November 2011	6175 - Vehicle Fuel	290.09
TOTAL						290.09
Bill Pmt -Check	12/12/2011	15661	VERIZON	012519116950792103	1012 - Bank of America Gen'l Ckg	
Bill	11/27/2011	012519116950792103			6022 - Telephone	541.88
Bill	11/29/2011	0125561121521714508		0125561121521714508	7405 - PE4-Other Expense	167.27
TOTAL						709.15
Bill Pmt -Check	12/20/2011	15662	ACWA SERVICES CORPORATION	00198	1012 - Bank of America Gen'l Ckg	
Bill	12/13/2011	00198		Prepayment - January 2012	1409 - Prepaid Life, BAD&D & LTD	129.07
				December 2011	60191 - Life & Disab.Ins Benefits	129.06
TOTAL						258.13
Bill Pmt -Check	12/20/2011	15663	CALPERS 457 PLAN	Payroll and Taxes for 11/27/11-12/10/11	1012 - Bank of America Gen'l Ckg	
General Journal	12/10/2011	12/10/2011	CALPERS 457 PLAN	457 Employee deductions 11/27/11-12/10/11	2000 - Accounts Payable	2,805.62
TOTAL						2,805.62
Bill Pmt -Check	12/20/2011	15664	COMPUTER NETWORK	Replace motherboard and power supply	1012 - Bank of America Gen'l Ckg	
Bill	11/30/2011	82674		Service/labor HDMI Adapter	6055 - Computer Hardware	281.24
Bill	11/30/2011	82675			6055 - Computer Hardware	626.72
TOTAL						907.96
Bill Pmt -Check	12/20/2011	15665	CORELOGIC INFORMATION SOLUTIONS	80369041	1012 - Bank of America Gen'l Ckg	
Bill	11/30/2011	80369041			7103.7 - Grdwir Qual-Computer Svc	62.50
					7101.4 - Prod Monitor-Computer	62.50
TOTAL						125.00
Bill Pmt -Check	12/20/2011	15666	CUCAMONGA VALLEY WATER DISTRICT	Lease Due January 1, 2012	1012 - Bank of America Gen'l Ckg	
Bill	12/14/2011			Lease Due January 1, 2012	1422 - Prepaid Rent	5,984.00
TOTAL						5,984.00
Bill Pmt -Check	12/20/2011	15667	GRAINGER	9695216789	1012 - Bank of America Gen'l Ckg	
Bill	12/13/2011	9695216789			7103.6 - Grdwir Qual-Supplies	17.60
Bill	12/14/2011	9703230289		9703230289	7103.6 - Grdwir Qual-Supplies	53.73
TOTAL						71.33
Bill Pmt -Check	12/20/2011	15668	GROOMAN'S PUMP & WELL DRILLING, INC.	12919	1012 - Bank of America Gen'l Ckg	
Bill	12/07/2011	12919			7102.8 - In-line Meter-Callib & Test	373.65

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
December 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						
Bill	12/07/2011	12915		12915	7102.7 · In-line Meter	576.90
						950.55
Bill Pmt -Check	12/20/2011	15669	GUARANTEED JANITORIAL SERVICE, INC.	28804	1012 · Bank of America Gen'l Ckg	885.00
Bill	12/13/2011	28804		Janitorial service - December 2011	6024 · Building Repair & Maintenance	865.00
TOTAL						
Bill Pmt -Check	12/20/2011	15670	MCCALL'S METER SALES & SERVICE		1012 · Bank of America Gen'l Ckg	400.19
Bill	11/30/2011	21714		21714	7102.5 · In-line Meter-Computer	675.00
					7102.8 · In-line Meter-Callb & Test	800.38
Bill	11/30/2011	21748		21748	7102.5 · In-line Meter-Computer	675.00
					7102.8 · In-line Meter-Callb & Test	2,550.57
TOTAL						
Bill Pmt -Check	12/20/2011	15671	PREMIERE GLOBAL SERVICES	10078133	1012 · Bank of America Gen'l Ckg	24.96
Bill	11/30/2011	10078133		Monthly and service fees	6022 · Telephone	11.59
					8312 · Meeting Expenses	11.59
					8412 · Meeting Expenses	11.59
					8512 · Meeting Expense	7.90
					7604 · PE&S-Supplies	132.98
					8512 · Meeting Expense	1.07
					8512 · Meeting Expense	247.72
					6909.1 · OBMP Meetings	449.40
TOTAL						
Bill Pmt -Check	12/20/2011	15672	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	8,321.12
General Journal	12/10/2011	12/10/2011	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 11/27/11-12/10/11	2000 · Accounts Payable	6,321.12
TOTAL						
Bill Pmt -Check	12/20/2011	15673	SAFEGUARD DENTAL & VISION	4081215	1012 · Bank of America Gen'l Ckg	7.91
Bill	12/13/2011	4081215		Dental premium - December 2011	60182.2 · Dental & Vision Ins	7.91
TOTAL						
Bill Pmt -Check	12/20/2011	15674	SAN BERNARDINO COUNTY FLOOD CONTROL	Permit P-11998284	1012 · Bank of America Gen'l Ckg	1,977.00
Bill	12/13/2011	Permit P-11998284		Permit Annual Inspection/Time Extension fees	6909.3 · Other O&MP Expenses	1,977.00
TOTAL						
Bill Pmt -Check	12/20/2011	15675	STAPLES BUSINESS ADVANTAGE		1012 · Bank of America Gen'l Ckg	501.21
Bill	11/30/2011	8020388819		Miscellaneous office supplies	6031.7 · Other Office Supplies	212.68
Bill	12/10/2011	8020451934		Miscellaneous office supplies	6031.7 · Other Office Supplies	713.89
TOTAL						
Bill Pmt -Check	12/20/2011	15676	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
December 2011

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	12/14/2011				60182.4 · Retiree Medical	136.61
<b>TOTAL</b>						<b>136.61</b>
Bill Pmt -Check	12/20/2011	15677	THE LAWTON GROUP	6017	1012 · Bank of America Gen'l Ckg	824.00
Bill	11/30/2011	1VC0700000178991		Week ending 12/04/11	6017 · Temporary Services	824.00
<b>TOTAL</b>						<b>824.00</b>
Bill Pmt -Check	12/20/2011	15678	VERIZON BUSINESS	62349871	1012 · Bank of America Gen'l Ckg	1,545.23
Bill	12/14/2011	62349871			6053 · Internet Expense	1,545.23
<b>TOTAL</b>						<b>1,545.23</b>
Bill Pmt -Check	12/20/2011	15679	VERIZON WIRELESS	1036508753	1012 · Bank of America Gen'l Ckg	280.51
Bill	12/14/2011	1036508753		Monthly service	6022 · Telephone	280.51
<b>TOTAL</b>						<b>280.51</b>
Bill Pmt -Check	12/20/2011	15680	WESTERN DENTAL SERVICES, INC.	002483	1012 · Bank of America Gen'l Ckg	28.88
Bill	12/13/2011	002483		Dental premium - January 2012	60182.2 · Dental & Vision Ins	28.88
<b>TOTAL</b>						<b>28.88</b>
Bill Pmt -Check	12/20/2011	15681	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	129.67
Bill	11/30/2011	XXXX-XXXX-XXXX-9341		Plaque for Ken Willis	6031.7 · Other Office Supplies	590.47
				Thanksgiving lunch-11/17/11-Board meeting	6312 · Meeting Expenses	18.66
				Fedex charges	6042 · Postage - General	738.80
<b>TOTAL</b>						<b>1,547.60</b>
General Journal	12/24/2011	12/24/2011	Payroll and Taxes for 12/11/11-12/24/11	Payroll and Taxes for 12/11/11-12/24/11	1012 · Bank of America Gen'l Ckg	9,730.48
				Payroll Taxes for 12/11/11-12/24/11	1012 · Bank of America Gen'l Ckg	27,229.02
				Direct Deposits for 12/11/11-12/24/11	1012 · Bank of America Gen'l Ckg	36,359.50
<b>TOTAL</b>					<b>Total Disbursements:</b>	<b>164,407.02</b>

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# CHINO BASIN WATERMASTER

## V. INFORMATION

### 2. Newspaper Articles



latimes.com/news/local/la-me-sucker-20120115,0,7765223.story

**latimes.com**

## Suit pits sucker fish habitat against Inland Empire water rights

**Opponents of the federal plan, which is intended to protect the Santa Ana sucker fish, say it puts Inland Empire water supplies and development in jeopardy.**

By Louis Sahagun, Los Angeles Times

9:12 PM PST, January 14, 2012

A federal plan to preserve more than 9,000 acres of river habitat so that the threatened Santa Ana sucker fish can fulfill its complex life cycle has run into stiff resistance from critics who say it jeopardizes development and water supplies in the Inland Empire.

Two cities and 10 water districts have sued the U.S. Fish and Wildlife Service in U.S. District Court over the agency's decision to preserve the habitat. They say that it imposes restrictions on water conservation, groundwater recharge and flood control operations that affect water supplies for 1 million residents, and that it threatens plans to sell Santa Ana River water to thirsty communities elsewhere.

Environmental groups led by the Center for Biological Diversity, CalTrout, the Sierra Club and the Audubon Society responded by filing petitions to intervene in the case on behalf of the federal agency. A hearing on the case has been scheduled for February.

The suckers, which scientists know as *Catostomus santaanae*, were once abundant across Southern California. They have mottled gray backs and silver bellies, grow to about 5 inches in length and have large, thick lips and small mouths that suck up algae and other organisms. Critics of the federal plan have dubbed the sucker "Southern California's delta smelt," a reference to a protected 2-inch fish whose movements restrict the pumping operations of the state's biggest water projects in the Sacramento-San Joaquin Delta.

The plan to save the Santa Ana sucker involves designating critical habitat areas, which would then require federal agencies to consult with the Fish and Wildlife Service before they carry out, fund or authorize any action that could destroy or alter the protected zones. An independent analysis conducted on behalf of the Fish and Wildlife Service showed that costs related to preserving and managing the habitat could range from about \$14 million to \$450 million over 20 years.

The legal dispute began after the agency designated 9,331 acres of critical habitat in rivers, creeks and washes in Los Angeles, San Bernardino and Riverside counties. The 2010 action was an attempt to resolve a decade-long legal dispute with environmentalists over the fate of the sucker, which evolved in regional flood cycles thousands of years ago.

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Of particular concern are northern reaches of the 96-mile-long Santa Ana River system that environmentalists contend must be protected so that seasonal ebbs and flows can move gravel to downstream spawning grounds.

Scott Sobiech, deputy field supervisor for the Fish and Wildlife Service, said the Santa Ana River "is no longer the free-flowing perennial it used to be, and since the fish was listed as a threatened species in 2000, its numbers have continued to decline in the fragmented habitat it persists in."

Opponents argue that some areas designated as critical habitat are dry for most of the year and therefore of no help to the sucker. They also say the designation could threaten rights to water behind the 6-year-old Seven Oaks Dam near Highland. Seven Oaks currently serves as a flood control facility, but local water districts have expressed interest in storing water there for urban uses.

"Our concern is that water used for people could be thrown down the river in a last-ditch attempt to save the fish, and we can't let that happen," said Douglas Headrick, general manager of the San Bernardino Valley Municipal Water District. "The agency's designation is based on a backroom settlement with environmental groups. The public deserves and expects more than that."

Adam Lazar, attorney for the Center for Biological Diversity, said the designation would not curtail water supplies. "I believe the opponents' real concern is to build water projects for homes, businesses and industries that don't yet exist, and to sell water to Los Angeles and San Diego and other districts that desperately want it," Lazar said.

[louis.sahagun@latimes.com](mailto:louis.sahagun@latimes.com)

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## New Report Says Investing in Water Efficiency Boosts Jobs, Local Economies

Submitted by Lisa Lien-Mager on Wed, 01/04/2012 - 2:47pm in [Water News](#)

Investments in water use efficiency stimulate jobs and provide a boost for local economies, a new report by the Los Angeles-based Economic Roundtable says.



The report analyzed 53 recent water use efficiency projects in the Los Angeles area, including stormwater capture, water conservation, groundwater treatment / remediation and construction of water recycling facilities. It found that the \$1.2 billion invested in the projects created a significant number of jobs and stimulated an additional \$1.2 billion in indirect and induced sales.

According to the report, every \$1 million invested in water efficiency-related projects creates 12.6 to 16.6 jobs in the Los Angeles economy and stimulates nearly \$2 million in total sales. As a comparison, the report said, water use efficiency projects in Los Angeles stimulate more jobs per \$1 million invested than motion picture and video production (8.3 jobs / \$1 million invested) and housing construction (11.3 jobs / \$1 million).

To maximize the benefits of investing in local water use efficiency, the report recommends that policy makers and stakeholders keep investments local and distribute funding over a number of diverse water use efficiency projects, as opposed to concentrating investments in a few massive projects.

"Local investments not only produce large multiplier effects where water users live and work, but also support better stewardship of this precious resource by residential and commercial water consumers," the report notes. "Also, local investments return taxpayer dollars to the areas where they are generated."

The full report is available [here](#).

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## REGION: Watershed tested for traces of medications

BY JANET ZIMMERMAN

STAFF WRITER

[zimmerman@pe.com](mailto:zimmerman@pe.com)

Published: 04 January 2012 05:18

PM

The agency that manages the giant watershed draining out of the San Bernardino Mountains has found only negligible traces of medications, insecticides and other non-regulated chemicals in the region's water supplies for the second year in a row, according to a report.

Officials with the Santa Ana Watershed Project Authority said the concentrations found do not pose a health threat. The amounts were so small, they could be detected only with sensitive analytical technology designed to find the equivalent of one drop in 20 Olympic-size pools.

Acetaminophen was found at seven of the 27 sampling sites, but it was in such low concentrations that a person would have to drink more than 2 million gallons of treated wastewater to ingest the equivalent of one 500-milligram Tylenol tablet, according to the report.

"As science gives us increasingly sensitive instruments to be able to detect smaller and smaller trace elements, we've decided to use that technology and see what we can see," said Celeste Cantu, general manager of the Santa Ana Watershed Project Authority, said Wednesday.

The products, which are excreted by the body and flushed or washed into the water system, are known as "emerging constituents" because they are detectable only in small amounts. The agency's testing was voluntary.

Last year, tests were run for 13 products including ibuprofen, hormones and bisphenol A, a plastic coating voluntarily removed from many products because it has been linked to development problems in fetuses and children. Testing was conducted at wastewater treatment plants, streams and aqueducts, and the results were submitted to the Santa Ana Regional Water Quality Control Board.

"Our work was used by the State Water Resources Control Board to come out with their emerging constituents standards. It's really foundational work that is beyond what is being required by the regulatory authorities," Cantu said.

The highest findings in the report were for ibuprofen; gemfibrozil, an anti-cholesterol medicine; and sulfamethoxazole, an antibiotic used to treat malaria, conjunctivitis, toxoplasmosis and urinary tract infections.

Cantu urged people to properly dispose of medications and not flush them down the toilet. Pills should be crushed, wetted or mixed with coffee grounds, decaying food or kitty litter, and disposed of in household trash.

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*The Metropolitan Water District of Southern California*

## NEWS RELEASE

*P. O. Box 54153, Los Angeles, California 90054-0153 • (213) 217-6485 • [www.mwdh2o.com](http://www.mwdh2o.com)*

Contact: Bob Muir, (213) 217-6930; (213) 324-5213, mobile

Jan. 4, 2012

### SUPERIOR COURT MAKES SERIES OF RULINGS IN LAWSUIT CHALLENGING METROPOLITAN RATE STRUCTURE

The Superior Court for the County of San Francisco today took a series of actions related to the San Diego County Water Authority's challenge of Metropolitan Water District's water rate structure.

Most important to Metropolitan, the court sustained the district's demurrer to the Water Authority's breach of fiduciary duty claim against the district, without leave to amend the complaint.

"This eliminates from the case SDCWA's allegations that Metropolitan and its member agencies engaged in any improper procedures in adopting rates or taking other board actions," stated interim MWD General Counsel Marcia Scully in a memo to the district's Board of Directors this afternoon.

The court also sustained Metropolitan's demurrer to SDCWA's cause of action for breach of the covenant of good faith and fair dealing in the exchange agreement involving San Diego's water transfer with Imperial Irrigation District based on MWD's adoption and implementation of the Rate Structure Integrity language, without leave to amend. That language is contained in Metropolitan's resource contracts with its member agencies.

A demurrer is a request for dismissal because the allegations are not sufficient to state a claim, even if they are accepted as true. These rulings eliminate these causes of action from the case.

"Although the court denied Metropolitan's motion to strike the fiduciary duty claim, the ruling on the demurrer makes this denial irrelevant," Scully said in the memo.

The Water Authority's motion to award attorney's fees against Metropolitan for allegedly frivolous filing of the motion to strike was denied, with the court finding that the motion was not frivolous because the court sustained MWD's demurrer.

more . . . . .

The Water Authority's separate cause of action challenging Metropolitan's adoption and implementation of the Rate Structure Integrity language was not addressed by the court today.

The court overruled Metropolitan's demurrer to the Water Authority's claim that MWD breached the exchange agreement by charging illegal rates. This cause of action remains in the case; however, it will be resolved as a part of the determination of the legality of the rates when the first three causes of action are addressed.

The court also overruled Metropolitan's demurrer to the Water Authority's claim alleging San Diego's payments pursuant to the exchange agreement should be credited to SDCWA's preferential rights. The court, however, deferred ruling on the merits and expressly invited a subsequent motion to address this question.

The hearing is scheduled to continue this Friday (Jan. 6) at 2 p.m. At that time, the court is expected to consider Imperial Irrigation District's motion to obtain discovery relating to the original action challenging the rates and Metropolitan's motion to bifurcate the initial rate challenge from the remaining causes of action in SDCWA's first amended petition filed last October.

The Water Authority originally filed its case in June 2010 as a reverse validation action challenging water rates adopted by Metropolitan in April 2010. IID and the Utility Consumers' Action Network joined the case supporting the Water Authority.

Eight Metropolitan member agencies—the city of Glendale, the Los Angeles Department of Water and Power, city of Torrance, Foothill Municipal Water District, Las Virgenes Municipal Water District, the Municipal Water District of Orange County, Three Valleys Municipal Water District and West Basin Municipal Water District—joined the case supporting the district.

Last October, the Water Authority filed its first amended complaint alleging additional causes of action, including breach of contract, breach of fiduciary duty, the unconstitutionality of Metropolitan's Rate Structure Integrity language; and wrongful calculation of San Diego's preferential rights.

Metropolitan staff will provide a detailed discussion of the court action in closed session at the MWD board's Legal and Claims Committee meeting next Tuesday (Jan. 10).

More information on the lawsuit is available on Metropolitan's website, [www.mwdh2o.com](http://www.mwdh2o.com).

###

*The Metropolitan Water District of Southern California is a cooperative of 26 cities and water agencies serving nearly 19 million people in six counties. The district imports water from the Colorado River and Northern California to supplement local supplies, and helps its members to develop increased water conservation, recycling, storage and other resource-management programs.*


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# TIME

Monday, Jan. 03, 2011

## Is Southern California Finally Getting Serious About Its Water Crisis?

By Jens Erik Gould / Los Angeles

To quench the thirst of Southern California's some 20 million people, water must be imported from hundreds of miles away, across a daunting array of deserts, valleys and mountains. For decades, Angelenos have muttered a doomsday refrain: our water supply isn't sustainable, and we are going to have to get smarter about managing it - at some point. The obviousness of the problem, however, instilled a kind of panicked lassitude. The discussion became predictable: alarm would set in during times of drought, as authorities talked of restrictions and plans to boost local water sources. Then rainy years would follow, and L.A. and its surrounding cities would move on to other, supposedly more pressing issues. Through it all, the mentality remained the same: sprinklers outside city buildings and private homes continued to feed large lawns even while it was raining, using water brought from far away.

Now authorities are once again saying the time has come for a change. They say they're going to follow through. Should we believe them? ([See "Forget Irene: The Drought in Texas Is the Catastrophe That Could Really Hurt."](#))

Maybe. Simply because Southern California may no longer have a choice but to stop its lavish ways. Sometime in January, authorities will again limit the amount of water that the California Aqueduct transports from northern mountains and substitute it with water from reservoirs. That's been happening in the winter and spring seasons ever since environmental protections imposed limits on water that passes through the Sacramento-San Joaquin delta in a bid to protect endangered smelt. The measures are designed to protect the fish from being drawn into large pumps and killed when the State Water Project pumps water at high volumes. Conservation groups and fishing groups have championed the measures ever since a judge put them in place four years ago. But the protections are a huge point of contention for local water agencies and farmers who have lost their water supply. Both have launched a series of legal challenges that haven't prevailed. "We've been in court nonstop since 2006 on these biological opinions - with either environmental groups suing, saying they're not strict enough, or us suing, saying they're too strict," says Jeffrey Kightlinger, general manager for the Metropolitan Water District of Southern California.

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Southern California water officials have reason to be nervous. Dependence on imported water sources enabled Los Angeles to grow into the metropolis it is today. About half of Southern California's supply is still brought in from the delta and the Colorado River. The region spent the past decade dealing with a decrease in its share of Colorado River water. Now authorities say the smelt protection measures are costing the region about one-quarter of the water it imports from the delta, driving up rates for an ever growing population. "It has really cut into the reliability of our imported water supply," Kightlinger says.

This year water isn't as much of a concern because the state has received a lot of rain and reservoirs are full. But in a drought — one gripped California at the end of the last decade and is likely to return — the issue of delta water becomes a battleground. "Now we're in a situation where we have to make some serious trade-offs between protecting the environment and providing water," says David Ginsburg, professor of environmental studies at the University of Southern California. "You can't have your cake and eat it too. I don't think it's sustainable." (See ["Droughts Getting Worse Across Southern U.S. and Somalia."](#))

Some environmentalists are suspicious of any promises to move in the direction of self-sufficiency. They cite official figures that 54% of single-family home water is still used outdoors. They're urging Californians to do more to collect rainwater and substitute their green lawns with native plant species that are more drought-friendly. Emily Green, who blogs and writes a column about garden conservation for the *Los Angeles Times*, has urged officials to plant native species such as sycamores, lilacs or Engelmann oaks outside city hall after the tent city installed by Occupy Los Angeles destroyed its lawn. "From the time the big water projects were built, L.A. was really hardwired to grow on imported water. That was the game plan," Green said in an interview. "The mind-set is changing, but it's changing very slowly."

Others, however, are impressed with the progress the region is making. Officials point out that 20 years ago, about two-thirds of its water was imported; today it's down to half. Total retail water demand in the region has also fallen from just under 4 million acre feet in fiscal year 1989–90 to 3.35 million acre feet in 2010–11, according to the Metropolitan Water District of Southern California. To further increase local supply — which is much cheaper than imported water — authorities are investing in water-recycling plants to capture more storm water before drains flush it into the ocean; they also plan to clean up contamination so more groundwater can be used. And they're putting more emphasis on conservation efforts, which helped water-use levels in the city of L.A. hit the lowest levels since the 1970s last year, according to the Department of Water and Power. The city has implemented a mandatory water-conservation program that includes measures like restricting sprinkler watering to two days a week.

"There's a bit of a paradigm shift going on now," says Doug Obegi, an attorney with the Natural Resources Defense Council who focuses on water issues. "The old paradigm was to take more water out of our rivers and out of the delta. The new one is to invest in regional and local supplies and be smarter about using water. It's hard to see all those little incremental changes making Southern California less reliant on the delta, but it is happening." Is it happening fast enough? The next drought will most likely provide the answer.

# CONTRA COSTA TIMES

ContraCostaTimes.com

## New Delta invader, spongeplant, threatens to clog waterways, pumps

By Mike Taugher  
Contra Costa Times

Posted: 12/20/2011 03:23:35 PM PST

Updated: 12/21/2011 06:48:33 AM PST

An invasive weed just now taking hold in the Delta could clog water delivery pumps and marinas on a scale never seen here, and state officials say they are nearly hamstrung in trying to deal with it.

Few have even heard of the new threat, South American spongeplant, because it has been found only recently and in just a few places, all in California.

But what they have seen so far has alarmed experts.

"Your jaw drops at what's going to happen," said Lars Anderson, a weed scientist at the U.S. Department of Agriculture's agricultural research service. "The weeds don't stop." Anderson and other experts say that if it is not controlled or eradicated, spongeplant could become a bigger problem than water hyacinth, one of the world's most troublesome water weeds. The state spends more than \$2 million a year to control the hyacinths, established in the Delta for several decades, so water delivery pumps can work and boats can move about.

The spongeplant, like water hyacinth, floats on the surface and threatens to clog channels with impenetrable masses of weeds.

But because it is smaller, spongeplant could spread more easily and get deeper into pumps and water works. It is a prolific seed-bearer, unlike water hyacinth, meaning it could be even harder to eradicate, experts say.

"I think we're going to see a large expansion of spongeplant in the next three to five years if nothing is done," Anderson said. "It's very

serious."

Although the invasion was detected early, weed control agencies say they lack the legal authority to spend state money to attack it.

Drifting in a small boat toward a stand of tules at Decker Island, between Antioch and Rio Vista, state Department of Food and Agriculture weed biologists David Kratville and Jonathan Heintz spotted some spongeplant among the tules, hyacinth and several other kinds of weeds.

"You can see how densely packed it is," Heintz said.

Kratville separated a small floating seedling from a larger mat of weeds and explained how easily it could float away and spread.

For now, large mats of spongeplant can be removed fairly easily by scooping it out of the water with heavy equipment. But as it becomes established, herbicides may be needed.

If it does become established, how bad will it get?

"We don't want to find out the hard way," Kratville said.

Named for the spongy leaves that keep them afloat, spongeplants likely made their way into the Delta from backyard ponds containing the ornamental plant. Though they are the newest intruder in the West Coast's largest estuary, they carry a practical threat -- the Delta is a water source for two-thirds of California, and serious weed infestations can clog pumps and canals, making it more difficult and expensive to keep water flowing to farms and cities.

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# CONTRA COSTA TIMES

ContraCostaTimes.com

Spongeplant was first detected in California in 2003, when a dense mat choked a pond in Redding. In 2007, it turned up in the Delta near Antioch but disappeared after a rainstorm.

It reappeared in 2009 in the western Delta, where it appears to be taking hold.

Weed experts say that because the infestation was detected early, there is a good chance it can be eradicated or controlled relatively easily. But money to do that is tied up. By law, state weed control agencies can spend money to attack only a handful of specified water weeds, including water hyacinth, Brazilian water weed and hydrilla.

State officials are sensitive to the possibility that lawmakers might yank on their purse-strings if they divert funds intended for one problem to attack another, especially in tight budget times, said Duane Schnabel, who heads the state Food and Agriculture Department's integrated pest control branch.

That has prevented the state Department of Food and Agriculture from more aggressively looking for and removing spongeplant, even though the rule of thumb is that every dollar spent on the problem in the early stages of infestation might save \$100 worth of work that could be needed later, he said.

Such an attack on spongeplants now could "avoid that catastrophic infestation" like water hyacinth, Schnabel said.

Assemblywoman Joan Buchanan, D-San Ramon, is looking into introducing legislation next year to help them, according to her chief of staff, Susanna Schlendorf.

"We are doing some investigation on it because there's growing evidence that it's spreading more quickly than some of these other species," Schlendorf said.

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## News

### STATE TWEAKS CANAL PLAN PROCESS STILL, CRITICS SAY AGREEMENT REMAINS 'DEEPLY FLAWED'

By **Alex Breitler**  
December 20, 2011  
Record Staff Writer

Still facing sharp criticism from Delta-area lawmakers, Gov. Jerry Brown and U.S. Secretary of the Interior Ken Salazar announced more changes Monday in the planning process for a possible peripheral canal or tunnel.

The changes, according to an announcement, will "ensure a fair, open and transparent process."

But one federal representative compared Monday's action to "sanding off some of the rough edges" of a plan that is "beholden to the special interests who are funding it."

The familiar flurry of rhetoric comes as the 5-year-old Bay Delta Conservation Plan continues to develop. About \$240 million is expected to be spent writing the plan, with the money coming from the water agencies that stand to benefit should a canal or tunnel be built to facilitate the export of Delta water to Southern California.

Of late, attention has focused on a new agreement to continue working on the plan. The agreement was written in a way that could allow the water agencies greater editorial influence than other interests, the Legislative Analyst's Office has found.

Delta-area lawmakers asked the government to rescind the agreement. In response, officials first opened it up to public comment, and then promised to make draft scientific reports available to everyone at the same time instead of giving water agencies first dibs.

Now, among other new provisions announced Monday, the agreement clarifies that the plan is to serve both water supply and environmental purposes; it reiterates the authority of wildlife agencies to decide whether permits should be issued; and it specifies that consultants who write the plan must first be approved by the state Department of Water Resources.

"It is clear that our Delta ecosystem needs repair and restoration," Brown said. "We shouldn't wait for a natural disaster to force our hand. This agreement takes us in the right direction to protect California's water supply."

Rep. George Miller, D-Martinez, said the changes announced Monday were akin to sanding off the rough edges.

And Rep. Jerry McNerney, D-Pleasanton, said the agreement remains "deeply flawed and is an affront to the people of the Delta communities."

Jim Metropulos of the Sierra Club said officials should have withdrawn the agreement and renegotiated the terms. Instead, the agreement was revised.

Monday's announcement also included commitments to work with other stakeholders on a "statement of principles" and a monthly review of what officials have admitted is an "aggressive" schedule. Under the agreement, a draft plan would be written by June.

Not all lawmakers are critical of the plan. Twenty-one state legislators signed a letter Monday urging state and federal officials to "keep the process on track" with the release of the draft Bay Delta Conservation Plan next year.

Contact reporter Alex Breitler at (209) 546-8295 or [abreitler@recordnet.com](mailto:abreitler@recordnet.com). Visit his blog at [recordnet.com/breitlerblog](http://recordnet.com/breitlerblog).

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latimes.com/news/local/la-me-water-study-20111220,0,7451512.story

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## Costs mount for Glendale's ongoing inquiry into chromium 6

**Research on removing the cancer-causing contaminant from groundwater has slogged on for nine years, and some officials are getting impatient.**

By Brittany Levine, Los Angeles Times

December 20, 2011

The costs keep piling up as a project to study chromium 6 removal becomes a bigger expense than expected for Glendale, which has been trudging through nine years of research to strip the cancer-causing contaminant from groundwater.

Although the City Council last week approved spending an additional \$400,000 to continue research at two testing facilities — just two months after the council gave the green light to spend \$550,000 in grant and state funding on more research — some city officials are getting antsy.

"This has been going on for a number of years," said Councilman Rafi Manoukian. "I want to get this thing done and over with."

Cities throughout the San Fernando Valley have been grappling with chromium 6 contamination caused decades ago by aerospace manufacturing. Glendale has spent more than \$7.8 million on removal research, most of which has come from state grants and other funding sources.

Peter Kavounas, assistant general manager for water services at Glendale Water & Power, said he too was frustrated by the slow process. But he said research takes time, especially as the state moves slowly to set tighter restrictions on chromium 6 levels.

"We are very much aligned in the same line of thought that we need to bring this to an end," Kavounas said. But he added, "Research by definition is something difficult to predict when it will end."

In about four years, the state may cap chromium 6 levels at between 5 and 10 parts per billion, much lower than the current 50 parts per billion limit, Kavounas said. After being treated and blended with clean imports, Glendale's water is already at about 5 parts per billion of chromium 6. Before treatment, underground water from some local wells contains between 45 and 70 parts per billion.

Although Glendale has settled on two methods for stripping the chemical from water, more research about side effects is needed, Kavounas said.

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Kavounas said the research began as a focused study but grew larger as the field of chromium 6 removal expanded. In addition, state officials say they will look to Glendale's research as they set tighter restrictions, which has expanded the scope of the city's research.

Part of the \$400,000 will cover requests by the Environmental Protection Agency and California Department of Public Health for additional cost information, according to a city report.

The money will also keep two testing facilities open through April. Then the city will deactivate one, and a group made up of companies responsible for the presence of chromium 6 will take control of the other.

[brittany.levine@latimes.com](mailto:brittany.levine@latimes.com)

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# Impact of Climate Change on Agriculture

UC Riverside scholar co-edits timely handbook on the subject

(December 19, 2011)

RIVERSIDE, Calif. – When climatic patterns shift, the spatial distribution of croplands, habitats and fish populations soon follows, significantly impacting agriculture and food production. For example, droughts, floods and storms frequently kill livestock and damage crops, and impact world market prices and food availability.

Ariel Dinar, the director of the Water Science and Policy Center at the University of California, Riverside, and Robert Mendelsohn at Yale University have co-edited a "Handbook on Climate Change and Agriculture" (Edward Elgar Publishing Inc., December 2011) that explores, as its title suggests, the interaction between climate change and agriculture.

With contributions from international scholars, the handbook analyzes a variety of topics, including direct agronomic effects, economic impacts on agriculture, agricultural impacts on the economy, agricultural mitigation, and farmer adaptation. The authors argue that climate change is likely to have a large impact on agriculture around the world; this impact would be manifest through changes in temperature, precipitation, concentrations of carbon dioxide, and available water flows.

"Developing countries already face food problems," said Dinar, a professor of environmental economics and policy. "The effects of climate change on agriculture in these and other countries will depend on how well the agricultural sector can adapt through technology institutions, and better management practices. Developing countries are better able to engage in adaptation since mitigation is much harder for these countries to do."

Dinar mentioned that this is the first book to use a multidisciplinary approach in providing up-to-date information about the impact of climate change on agriculture. According to him, the handbook would be helpful to anyone interested in exploring the impacts of climate change on agriculture and agriculture's ability to adapt.

The book's chapters tackle a number of issues, including the mitigation of the effects of climate change, adaptation to climate change, the future of bio-fuel, and the "Clean Development Mechanism," which allows some countries to meet their carbon dioxide reduction obligations in a cost-effective way and has resulted in nearly 8000 projects worldwide.

Dinar began researching climate change in 1994 when he saw its impact neatly displayed in a set of color maps he came across of the United States. He realized then that a cartographic approach could be applied to study the impact of climate change in developing countries.

"The livelihood of people and nations is crucially dependent on agriculture, especially in the developing world," he said. "The economic, social and political ramifications of any impact on agriculture are, therefore, significant."

It became evident to Dinar in 1994 that agriculture had been largely neglected in climate change studies. He decided to research the topic.

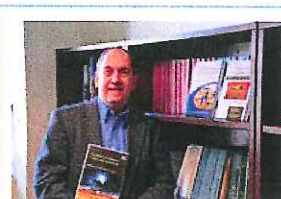
"It soon became clear to me that people did not know much about adaptation to the effects of climate change," he said. "The net effect of climate change on agricultural production is still not well understood. It's not just the production of food from crops that is involved, but also livestock. Agriculture suffers from climate change, but it also contributes to it through land use and abuse, as well as the adoption of practices that are unsustainable where climate change is concerned such as unsuitable cropping patterns and irrigation technologies."

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*Ariel Dinar is the director of the Water Science and Policy Center at UC Riverside. Photo credit: UCR Strategic Communications.*

The "Handbook on Climate Change and Agriculture" took two years to edit.

"Two factors kept us on schedule: The book was thoroughly planned, and all the contributors were extremely responsive," Dinar said.

#### RELATED LINKS

- [More about Ariel Dinar](#)
- [Water Science and Policy Center](#)
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#### ADDITIONAL CONTACTS

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## **Cuyamaca College to provide training in water resources and wastewater technology**

by Staff Reporter | Posted: Monday, December 19, 2011 4:30 pm

RANCHO SAN DIEGO - As water becomes an increasingly precious resource in California, more public water agencies and businesses are hiring experts to help customers find ways to better conserve water. To meet this growing demand, Cuyamaca College has been awarded a \$535,000 state grant to lead a partnership of seven California community colleges that will provide more training for jobs in the water and wastewater field.

Matched with \$1 million in in-kind services from the water industry and colleges, the 21-month grant will allow Cuyamaca College and the other six colleges in the consortium to create and share curriculum that will be available to all of California's 112 community colleges looking to start or upgrade their job training programs for this critical job sector.

The Rancho San Diego college was a natural to lead the statewide effort with its longstanding water/wastewater technology program, one of the largest and most successful in California. Fewer than 20 of California's community colleges now offer degrees or certificates in water/wastewater technology.

"Cuyamaca College has long been a leader in workforce training for green jobs and the water industry," said Mark J. Zacovic, Cuyamaca College president. "I'm pleased that we will be able to share our knowledge and experience in this field."

Studies have shown that the median age of employees in the water industry is 50, and nearly 40 percent are expected to retire within the next five to seven years. As many as 18,000 workers will be needed in the water industry, with more than 4,500 new jobs expected to be filled in the next three years just in southern California.

The projected shortage of workers, coupled with increased demands for water conservation, led to the creation of a new major in water resource management at Cuyamaca College beginning in fall 2012. Once approved by the state Community College Chancellor's Office, the curriculum for the new courses offered for that major will be available to other community colleges statewide.

"Instead of starting from scratch, they can take examples of courses and modify them for their own use," said Don Jones, program coordinator of Cuyamaca's water/wastewater technology program and the primary author of the grant.

Other colleges that will be participating with Cuyamaca in the grant are:



- College of the Redwoods (Eureka)
- Santa Rosa Junior College (Sonoma County)
- Gavilan College (Gilroy/Salinas)
- College of the Canyons (Santa Clarita/Valencia)
- Santiago Canyon College (Orange County)
- Taft College (Kern County)

The major in water resource management at Cuyamaca is the result of a unique collaboration between the college's renowned ornamental horticulture department and the Water Conservation Garden at Cuyamaca College. Students will learn about using drought-tolerant plants and irrigation methods that save water when creating landscaping plans for a home or business.

In addition to the Water Conservation Garden, the college will also be partnering on the grant with the San Diego County Water Authority, city of San Diego Public Utilities Department, the Helix Water District and the Otay Water District.

With the addition of the new major in water resource management, Cuyamaca College will have one of most comprehensive offerings of water-industry programs in the state. The college already offers programs in water treatment, water distribution, wastewater treatment, wastewater collection and cross-connection control. About 400 students take classes each semester in water/wastewater technology, with virtually all of the courses taught by experts working in the field.

"We are always looking for ways to tailor our programs to the demands of the workforce," said Bill Garrett, president of the Grossmont-Cuyamaca Community College District board. "This is just another example of the innovative ways that Grossmont and Cuyamaca colleges are in the forefront for training the workforce of tomorrow."



## Water board investigates perchlorate contamination source

By [KATIE LUCIA](#), staff writer

2011-12-18 08:57:39



**BARSTOW** • It's been more than a year since officials discovered perchlorate in Barstow's drinking water, but a new wave of tests by water experts conducted last week should determine the extent of the plume.

Geologists and water experts began drilling and sampling groundwater Dec. 12. The sample areas are downgrade from 30433 Poplar Lane, an area believe to be the source of last year's perchlorate contamination, according to a release from the Lahontan Regional Water Quality Control Board. The team finished sampling the 20 sample points Friday.

In Nov. 2010, Golden State Water Company discovered one of their wells close to the Soapmine Road area was contaminated with perchlorates — a substance often used in the production of fireworks, rocket fuel and road flares. That well is no longer in operation, according to John Dewey, spokesperson for Golden State.

According to the release, the federal Environmental Protection Agency found high concentrations of perchlorate in the soil around Poplar Street in northern Barstow during an investigation of the contamination earlier this year. The investigation also found perchlorate in two private wells on Poplar Street and in Golden State's former public water supply well.

Federal, state, and local agencies are still investigating the former owners of a property the EPA believes to be the source of the perchlorate contamination. Former Mojave River Pyrotechnics Company, which ceased operation in the '80s, is believed to have illegally dumped chemicals containing perchlorate salts on the property. EPA investigators handling this case were not available for comment.

Results of the samples should be available in February said Tim Post, engineering geologist with the water board. Post explained that the water board was sampling only areas downgrade of the contamination source, where the water contamination was most likely to spread. In order to accurately define the plume Post said those sample points on the outskirts must test negative for perchlorate. If not, the board will have to continue sampling next year.

*Additional reporting by Karen Jonas.*

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## Local water agency hopes buying desert water may provide 'insurance' for dry years

Joe Blackstock and Andrew Edwards, Staff Writers

Created: 12/17/2011 06:08:41 AM PST

The Three Valleys Municipal Water District is one step closer to sealing the deal for an "insurance" policy for a new source of water for its 600,000 customers.

The district, serving the far eastern end of Los Angeles County, is part of a group of water distributors considering a plan to bring water from a remote Mojave Desert site to eastern Los Angeles County.

"It is a huge deal," said Richard Hansen, general manager for Three Valleys in Claremont. "I look at this as insurance. Nobody likes to pay for insurance, but when you need it, you thank your lucky stars you have it."

A Los Angeles company has proposed to pump 50,000 acre-feet of water a year from its holdings in the Cadiz Valley in the Mojave, 50 miles southwest of Needles.

A 42-mile pipeline would be built by the Cadiz Co. to deliver its water with the Metropolitan Water District's Colorado River Aqueduct to the Los Angeles metropolitan area.

Three Valleys, which provides wholesale water to 13 retail water agencies, would be able to receive up to 5,000 acre-feet of water each year from Cadiz. An acre-foot is generally considered the amount of water used by a suburban Southwest family over a year.

"We were approached about this a couple of

years ago, during a drought period," Hansen said. "We figured there would be no risk to be at the table, just to listen to the idea."

The plans have evolved to the point that an environmental report on the entire

project has been produced and is undergoing public comment.

Three Valleys has spent \$125,000 to help pay for the environmental study. If the agency decides not to join with Cadiz the money will be refunded.

Hansen said the water from this proposed plan would give Three Valleys "operational flexibility," especially in those years when MWD may not be able to supply all the water wholesaler's needs.

There is a good chance the Cadiz water may initially cost slightly more than MWD's supplies. However, by signing a long-term contract with Cadiz, "water costs 10, 15, 20 years down the road may be lower than MWD," Hansen said.

Three Valleys, San Dimas-based Golden State Water Co. and Jurupa Community Services District are participants with the Santa Margarita Water District in Orange County, which is serving as the lead agency. Santa Margarita's board of



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directors will be responsible for deciding whether to certify the environmental impact report.

Cadiz Co. CEO Scott Slater describes the proposed endeavor as a "conservation project" that would provide a method to use water that would otherwise evaporate into the air above a dry lake bed.

What's more, the pipeline itself would be built alongside an existing rail line in order to stay away from untouched desert land, he said.

"Our chances of environmental disruption should be reduced," Slater said.

But those promises must still be weighed against the the new pipeline's environmental impacts, which are outlined in the nearly 3,000-page report released earlier this month.

Aside from the air pollution that equipment would emit during construction, the environmental report generally gives favorable marks to the Cadiz proposal and projects the pipeline would have almost no significant long-term impacts on environmental resources.

But the report itself is subject to public review, and the National Parks Conservation Association has been studying the report to double-check the science, said Seth Shtier, the group's California desert field representative.

"We're concerned about the way pumping of groundwater may affect the Mojave National Preserve, and we're also concerned about air quality," he said.

The air quality concerns stem from the worry that if the Cadiz Valley's dry lake beds become too dry, their surfaces would become a new source of dust for the surrounding desert.

Interested parties can submit comments on the report until Feb. 13. The report is available at

[smwd.com](http://smwd.com).

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## **REDLANDS: Water meter calibration program brings more revenue**

BY JAN SEARS

STAFF WRITER

[jsears@pe.com](mailto:jsears@pe.com)

Published: 16 December 2011

01:38 PM

A Redlands municipal utilities program to test and calibrate large water meters is likely to return more than three times the project's cost in revenue from city water users who had been undercharged, city officials said this week.

The city in February allocated up to \$50,000 for the first phase of a project to test and calibrate large water meters, which are three inches or more in diameter. Such meters typically are installed for large water users, such as commercial and industrial customers and large apartment complexes, city spokesman Carl Baker said.

"We spent less than the \$50,000 and expect to get back more than \$150,000 in revenue," he said.

City workers tested 104 of the city's 300 large meters, repaired and recalibrated 21 meters and replaced seven. Improper calibration can result in incorrect water flow readings and under-billing on high water users, Baker said. The meters' average age is 10 years and there are no records of them ever being calibrated.

"These are large commercial and industrial customers who can better afford to pay those bills" than the small residential user, Baker said.

The increase in revenue, which is expected to be \$152,339 per year, will go into the Municipal Utilities and Engineering Department's budget and will help the city avoid raising water rates in the future, he said.

Last April, the Redlands City Council approved an unpopular water rate increase. Councilmen Jon Harrison and Jerry Bean voted against the 17.5 percent increase, which took effect in May and will play out over three years.

More than 100 city residents attended the council meeting and most objected to the rate hike, which they said they couldn't afford.

City water rates went up by 5.5 percent in May. They will increase by 6 percent next year and by the same amount in 2013.

The city will test the remaining 196 3-inch meters in the second and third phases of the calibration program. Staff could not estimate the potential revenue increase from those remaining meters, Baker said.

"The remainder probably won't return quite as much," he said. "We looked at the largest users first and probably got the biggest proportion in this first phase."



## Water concerns linger despite rains

By Mike Lee

Tuesday, December 13, 2011



A new poll by Field Research shows California residents remain worried about longterm water supplies even though reservoirs are at or near record levels.

The survey was conducted in late November for the Association of California Water Agencies, an alliance of departments that deliver water to most of the state's residents. It's part of a long walk-up toward a November 2012 vote on a bond that would pay for upgrades and expansion to the state's aging water supply system.

Three-fourths of respondents cited concern about water, with 28 percent "extremely" concerned and 47 percent "somewhat" concerned. In addition, 84 percent said the state has major water problems and must invest in its water infrastructure to ensure future reliability.

Mark DiCamillo, senior vice president with Field Research, said the findings show water remains a significant issue even though the economy is dominant.

"You still have a significant majority saying they are concerned about water," said a statement by DiCamillo, who has surveyed Californians regarding water and other issues for more than 20 years. "There is also a core base of support for investing public dollars in upgrading and expanding the state's water system through a water bond. That base is about 40 percent, with another 22 percent that is sympathetic and inclined to feel that way."

Field Research polled 1,000 registered voters in English and Spanish between Nov. 15 and 27.

Water association officials seized on the results.

"At a time when the public is hypersensitive about how dollars are spent, investing in water infrastructure may be in a class by itself because water is seen as such an essential service and a critical part of our economy and jobs," Executive Director Timothy Quinn said in a press release.

The California Building Industry Association, the California Farm Bureau Federation and other groups also said the poll underscored the importance of the state's water supply system -- but it's too soon to say whether residents will be willing to pay for major new costs when many are struggling to pay other bills.

[Region's water outlook bright for 2012]

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[Abalones cling to life as recovery plan forms]

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## Moneynews

# Study: US Needs Billions for Water, Sewers

Tuesday, December 13, 2011 05:40 PM

### By:

The United States needs to pour billions of dollars into repairing its pipes and wastewater systems in the coming decades, or it could face drinking water shortages and onerously high sewer rates, the American Society of Civil Engineers said on Tuesday.

In a report it will release later this week, the group found that the gap between needs and anticipated funding for wastewater and drinking water infrastructure will swell to \$84 billion by 2020.

"As the U.S. population has increased, the percentage served by public water systems has also increased. Each year new water lines are constructed to connect more distant dwellers to centralized systems, continuing to add users to aging systems," Gregory DiLoreto, its president-elect, told the Senate subcommittee on water of the Environment and Public Works Committee.

"Although new pipes are being added to expand service areas, drinking water systems degrade over time; they must be replaced at the end of their useful life, which ranges from 15 to 95 years," he said.

The demand is growing as the U.S. population increases, the Environmental Protection Agency's director of wastewater management, James Hanlon, told the subcommittee.

"Communities across the country identified the need for \$300 billion in wastewater and \$335 billion in drinking water infrastructure improvements for capital expenditures over the next 20 years," he said.

On a scale of A through F, where "F" stood for failure, the society gave the U.S. wastewater and drinking water infrastructure a "D-" in 2009.

"Each day, the condition of our water infrastructure results in significant losses and damages from broken water and sewer mains, sewage overflows, and other symptoms of water infrastructure that is reaching the end of its useful life cycle," said Sen. James Inhofe, the most powerful Republican on the Environment and Public Works Committee.

Most of the country obtains water from public systems operated by local authorities, which borrow from the federal government, charge users fees and issue bonds to fund repairs and new construction.

The federal Clean Water and Drinking Water State Revolving Funds have financed more than \$111 billion of infrastructure projects since 1987, Hanlon said. The federal stimulus plan in 2009 put nearly \$6 billion into 3,214

projects through the revolving funds.

The funds, which make loans and then use the debt repayments to make new loans, are "the basic mechanism for assistance to communities in addressing water quality issues," Joe Freeman, financial assistance division chief for the Oklahoma Water Resources Board, told the subcommittee.

"Currently, funding levels are decreasing while the restrictions and set-asides for those funds are increasing, thus making the program even less sustainable and growing the gap of un-met needs," he said, adding that the EPA's current oversight "stifles innovation and the abilities of states to best respond to local needs."

Nowhere is the struggle to cover the costs of sewer improvements more apparent than in Jefferson County, Alabama. It embarked on a complicated financing scheme to retrofit its sewers that ultimately led the county to file for bankruptcy and pushed taxpayers' monthly sewer bills close to \$100.

By 2050, the U.S. Census expects the country's population to have increased by 35 percent, Hanlon told the subcommittee.

"Many of the environmental successes of the past three decades may be overwhelmed by future demands," he said. "These water and wastewater infrastructure challenges will be faced by systems across the country, both in our large and growing urban centers as well as our rural towns."

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## Hinkley sludge plant moves forward

By [KATIE LUCIA](#), staff writer

2011-12-12 16:32:10



**HINKLEY** • Leaders of a proposed compost recycling plant near Hinkley say the facility could be built as early as next month after a judge ruled Monday approving the company's environmental impact report.

Nursery Products, LLC. has been trying to build the plant for six years, but have been stalled due to litigation from environmental firms associated with HelpHinkley.org, a group dedicated to fighting environmental issues on behalf of Hinkley residents.

Nursery Products Director of Operations Chris Seney said he believes this is the last legal obstacle the company has to building.

"It's been a long, long road," Seney said. "I look forward to showing them what (the plant) really is. It's great for the environment, great for taxpayers, and it's going to provide a lot of jobs."

When constructed, the 80-acre facility will accept 400,000 tons of waste product per year — half biosolids, or treated human waste, and half green waste, such as tree trimmings and grass clippings.

Seney said the plant is good for the community as it will provide 35 jobs and also handle Barstow's sludge waste at half the cost.

Bob Conaway, Hinkley resident and member of HelpHinkley.org, said the group opposes the plant due to the environmental and community impacts the facility will have on the Hinkley community. Conaway explained the group's biggest concerns are with odor, wind and water supply, among others. Each of these matters are addressed in the company's EIR, which has been under legal scrutiny these six years.

Conaway said he felt the information given to the judge in this case was inaccurate or incomplete, though he's not sure what the group's next steps will be.

"It's disappointing," Conaway said. "Disappointing because the actual facts are not the facts that are being recited."

San Bernardino Superior Court Judge John P. Vander Feer ruled in favor of Nursery Products over the latest concern: water supply.

The judge ordered Nursery Products in April to determine if there was sufficient groundwater available for the project. The case was heard after Nursery Products obtained an assessment of the area's groundwater; drafted an addendum to the EIR; and received approval from the San Bernardino County Board of Supervisors.

### Contact the writer:

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## Water rate hikes tied to aging infrastructure

Sandra Emerson, Staff Writer

Created: 12/10/2011 06:07:27 AM PST

Significant water rate hikes in San Bernardino and Los Angeles County cities since the beginning of the year has caused many angry ratepayers to speak up.

Residents in Claremont and Barstow are facing proposed hikes from the privately run Golden State Water Company, while residents on the east side of the San Bernardino Valley have already been hit with increases.

The reason for the hikes boils down to one major issue - aging infrastructure, according to Susan Longville, director of Cal State San Bernardino's Water Resources Institute.

"That's why San Bernardino had to raise its rates, which in turn forced East Valley Water District to raise their rates," Longville said. "It's why the private municipal water did the same thing. And that's where we're at. It's a terrible time for the consumer, no doubt about it."

As the state's resources dried up, so did grant money for water companies that was typically used for infrastructure repairs, so water companies are looking to customers to foot the bill, Longville said.

"You're paying for the power, the pump, to treat and to move that water from the ground or from the reservoir, from everywhere to your home," Longville said. "You're paying for those carrying costs and the infrastructure that delivers it, and water agencies just find themselves in the place where the rate the consumer is going to pay is the only place to turn. There's no other alternatives."

The city of San Bernardino in January raised its waste water treatment water rates by 12.5 percent, which resulted in several other cities increasing their rates, including Redlands, Loma Linda and Mentone.

Also, East Valley Water District board of directors last month agreed to increase sewer treatment charges between 16 percent and 60 percent for some commercial customers.

Golden State Water Co. is proposing to increase water rates in its cities by 24.54 percent in 2013.

According to the water company officials, the proposed increases are to pay for infrastructure repairs over the next 30 years including the replacement of a well and a seismic retrofit to a reservoir.

However, members of the group Claremonters Against Outrageous Water Rates view it differently.

"I really think if you were to ask me, it's corporate greed," said Claremont resident Hal Hargrave, a member of the group.

"They have posed profits of an increase of 77 percent over the last year. That's published. Their president is making over \$1.1 million. Their



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senior vice president is making \$754,000 and their CFO is making \$728,000."

The group is also angry over the Water Revenue Adjustment Mechanism, which charges residents for using less water. It reimburses the company for revenue lost by water conservation.

"We're in a down economy so you've got a company that has a monopoly and it gets back to charging for conservation, increasing rates with the salaries they've got for their executives, and their profits are going through the roof," Hargrave said.

"To me it's just unfathomable that they can even be serious about putting forward these additional rate increases."

Golden State also serves Barstow.

Barstow Mayor Joe Gomez has sent a letter to state Attorney General Kamala Harris requesting her office investigate the increases.

"The city of Barstow believes that GSWC has the right to achieve a fair, just, and reasonable level of profits as allowed by California law," Gomez said in his letter. "However, GSWC also has a legal obligation to adhere to a standard of reasonable care in the operation of their business."

The water company in November was awarded a 20.7 percent increase between 2011-12 by the state Public Utilities Commission.

"It is astounding that less than two years ago after such a significant increase was granted, the CPUC would be considering yet another rate enhancement for GSWC, this one installing 27.3 percent over three years," Gomez said in a news release.

Customers of privately owned water companies tend to pay higher rates than customers of public water agencies, said Ken Willis, Upland

councilman and San Antonio Water Co. board member. The city of Upland is the majority shareholder for San Antonio Water Co.

"Claremont pays twice as much for a glass of water as we do in Upland," Willis said.

For a public agency to raise rates, they have to go "more than an extra mile," or face possible legal action, Willis said. Whereas a private agency needs to request approval from the CPUC.

"For example in Upland, which is what I'm most familiar with, if we want to have a rate increase on water we would have to show the public first of all that we wanted to do that, but we would have to be able to demonstrate to the public that this was necessary," Willis said.

Private agencies are guaranteed a profit of up to 10 percent, but public agencies can only use their funds for water-related purposes, he said.

A rate hike by a privately owned water agency could mean a need to increase its profits or infrastructure repairs, Willis said.

"Well, it could be they just feel the rates were at a particular level for too long and want to make more money, if they want to fix something or



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expand something," Willis said. "They don't have to prove anything to the public, but they do have to file with the PUC."

Reach Sandra *via email*, call her at 909-483-8555, or find her on Twitter *@UplandNow* .



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## Hinkley's plume of contamination appears to be migrating northward at a much faster rate

Jim Steinberg, Staff Writer

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HINKLEY - The plume of chromium 6 contamination in this unincorporated community eight miles west of Barstow has leaped a mile in a year, according to maps released by the Lahontan Regional Water Quality Control Board.

Traditionally the plume has migrated about a foot per day, said Lisa Dernbach, senior engineering geologist with the water board.

"We surprised by the movement of the plume in the last last year," Dernbach said during a question and answer session following a town meeting hosted by the water board at Hinkley Elementary School late last week.

This site is the only school in this town of not quite 1,700 made famous by the year 2000 hit movie "Erin Brockovich".

Why is this happening?

Agricultural wells in the area could be pulling the plume along more quickly, she said.

Another action coming into play, is likely the narrowing of the underground valley on the plume's northern edge, which is naturally causing the plume to move more quickly, Dernbach said.

Imagine a wide, slow moving river that is gradually narrowing, Lauri Kemper, assistant executive officer with the water board, said in an

interview.

The water travels faster and faster as the river narrows. The same thing happens to underground rivers, she said.

In the 1950s and 1960s, utility company Pacific Gas & Electric Co. emptied water containing chromium 6 from its Hinkley natural gas pumping station, which then seeped in the town's groundwater.

At that time, before the cancer risks from chromium 6 were recognized, it was used to kill microbes and provide corrosion protection for the utility's massive cooling towers in Hinkley.

The resulting plume now measures four miles long by about two miles wide, Dernbach told about 60 people gathered in the school's gymnasium.

The plume map for the third quarter of 2010 showed the plume's northern edge extending to Thompson Road. The most recent map shows it crossing Somona Street, with one well showing a concentration of chromium 6 exceeding 4 parts per billion.

A study completed by Pacific Gas & Electric Company in 2007 establishes the naturally

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occurring background level of chromium 6 in Hinkley to be up to 3.1 parts per billion.

But the validity of that study has come under fire.

James Jacobs, a Bay Area hydrologist, one of three scientists recruited to review PG & E's background study, has called the scientific validity of groundwater sampling here "completely worthless."

The area where the test wells were located is so mixed up from decades of water pumping by PG & E - for remediation and agricultural purposes - that meaningful data can not be retrieved, he said in his study.

Anne Holden, a geologist with the agency, said last week that the papers by Jacobs and two other scientists are under review.

PG & E, at the request of the water board, has been drilling many new monitoring wells north of what was believed to be the well's northern boundary.

"We have found chromium levels higher than background in areas where we didn't expect to find it," said Jeff Smith, PG & E spokesman.

"We don't know whether the areas greater than background have something to do with the past actions of PG & E," Smith said.

Further investigation will be needed to determine that, Smith said.

Regardless, Smith said that PG & E is "committed to cleaning up the plume to background levels."

Several Hinkley residents attending the meeting said they had concerns that the PG & E test well drilling program was siphoning off too much water from their drinking wells.

Virtually all Hinkley property owners draw water

from private wells. There is no community water system for the area and many residents will tell you they wouldn't want it any other way.

Elaine and Greg Kearney, who live near two of those new water sampling wells, said that last week their well no longer produces water.

Dernbach said she would look into the question of whether sampling wells could impact residents' drinking water wells.

In the 1980s and early 1990s, Hinkley residents complained of gastric illnesses and cancers say they are related to Hinkley's water.

It was those concerns that led Erin Brockovich to intervene in the town's water pollution problems in the late 1990s.

That resulted in PG & E paying a legal settlement of \$333 million to 600 Hinkley residents.

"It's a shame that in the 20 some years since the settlement, nothing has been done and the plume has gotten much larger," said Scott Haislip, a Hinkley resident since 1977.

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