

# CHINO BASIN WATERMASTER



## NOTICE OF MEETINGS

Thursday, April 14, 2016

- 9:00 a.m. – Appropriative Pool Meeting
- 11:00 a.m. – Non-Agricultural Pool Meeting
- 1:30 p.m. – Agricultural Pool Meeting

*AT THE CHINO BASIN WATERMASTER OFFICES  
9641 San Bernardino Road  
Rancho Cucamonga, CA 91730  
(909) 484-3888*

# **CHINO BASIN WATERMASTER**

**Thursday, April 14, 2016**

- 9:00 a.m. – Appropriative Pool Meeting
- 11:00 a.m. – Non-Agricultural Pool Meeting
- 1:30 p.m. – Agricultural Pool Meeting

***POOL AGENDAS***

**CHINO BASIN WATERMASTER  
APPROPRIATIVE POOL MEETING**

9:00 a.m. – April 14, 2016

**WITH**

*Mr. Darron Poulsen, Chair*

*Mr. Todd Corbin, Vice-Chair*

**At The Offices Of**

**Chino Basin Watermaster**

9641 San Bernardino Road

Rancho Cucamonga, CA 91730

**AGENDA**

**CALL TO ORDER**

**AGENDA - ADDITIONS/REORDER**

**I. 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 Appropriative Pool Meeting held March 10, 2016 *(Page 1)*

**B. FINANCIAL REPORTS**

1. Cash Disbursements for the month of February 2016 *(Page 17)*
2. Watermaster VISA Check Detail for the month of February 2016 *(Page 31)*
3. Combining Schedule for the Period July 1, 2015 through February 29, 2016 *(Page 35)*
4. Treasurer's Report of Financial Affairs for the Period February 1, 2016 through February 29, 2016 *(Page 39)*
5. Budget vs. Actual Report for the Period July 1, 2015 through February 29, 2016 *(Page 43)*

**C. WATER TRANSACTIONS**

1. Notice of Sale or Transfer – The purchase of 1,200.000 acre-feet of water from Santa Ana River Water Company (SARWCo) by Jurupa Community Services District (JCSD). This purchase is made from SARWCo's Annual Production Right / Operating Safe Yield first, then any additional from storage. In addition, JCSD will purchase 99.000 acre-feet of water from SARWCo's excess carryover account. Date of application: March 15, 2016. *(Page 61)*
2. Notice of Sale or Transfer - The purchase of 1000.000 acre-feet of water from San Antonio Water Company by the City of Upland. This purchase is made from San Antonio Water Company's Annual Production Right/Operating Safe Yield first, then any additional from storage. The City of Upland is utilizing this transaction to produce its San Antonio Water Company shares. Date of application: January 22, 2016. *(Page 71)*

**II. BUSINESS ITEMS**

**A. EAST DECLEZ BASIN PROJECT** *(Page 81)*

The Pools have four options: (1) Cancel the purchase of the property; (2) Delay the decision on property acquisition; (3) Proceed with the purchase of the property through IEUA and approve additional funding for the preliminary design and environmental studies or (4) Proceed with the purchase of the property through IEUA and do not pursue the proposed East Declez Basin project at this time.

**III. REPORTS/UPDATES**

**A. LEGAL COUNSEL REPORT**

1. May 6, 2016 Hearing
2. Notice of Related Case No. CIVDS1601994
3. CalPERS Appeal Hearing

**B. ENGINEER REPORT**

1. 2015 Chino Basin Maximum Benefit Annual Report
2. IEUA Stormwater Resources – Grant Application
3. Prado Basin Habitat Adaptive Management Plan

**C. CFO REPORT**

None

**D. GM REPORT**

1. SGMA Update
2. RMPU Financing
3. Water Transactions – Submittal Process
4. Other

**IV. INFORMATION**

1. Cash Disbursements for March 2016 *(Page 125)*
2. Recharge Investigations and Projects Committee (RIPCom) *(Page 137)*
3. RMPU Status Report *(Page 173)*
4. Ground Level Monitoring Report *(Page 177)*
5. Update on South Archibald and Chino Airport Plumes *(Page 185)*

**V. POOL MEMBER COMMENTS**

**VI. OTHER BUSINESS**

**VII. CONFIDENTIAL SESSION - POSSIBLE ACTION**

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

1. Appropriative Pool Strategic Planning Discussion

**VIII. FUTURE MEETINGS AT WATERMASTER**

4/14/16	Thu	9:00 a.m.	Appropriative Pool
4/14/16	Thu	11:00 a.m.	Non-Agricultural Pool
4/14/16	Thu	1:30 p.m.	Agricultural Pool
4/18/16	Mon	1:30 p.m.	Fiscal Year 2016/17 Budget Distribution
4/21/16	Thu	8:00 a.m.	Appropriative Pool Strategic Planning (Confidential Session Only)
4/21/16	Thu	9:00 a.m.	Advisory Committee
4/21/16	Thu	9:30 a.m.	Recharge Investigations and Projects Committee (RIPCom)
4/27/16	Wed	9:00 a.m.	Fiscal Year 2016/17 Budget Workshop #1
4/28/16	Thu	11:00 a.m.	Watermaster Board
5/02/16	Mon	10:00 a.m.	Fiscal Year 2016/17 Budget Workshop #2 (If Needed)

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**CHINO BASIN WATERMASTER  
NON-AGRICULTURAL POOL MEETING**

11:00 a.m. – April 14, 2016

**WITH**

*Mr. Brian Geye, Chair*

*Mr. Bob Bowcock, Vice-Chair*

**(800) 930-9525 PASS CODE: 917924**

**Call can be taken at**

**Chino Basin Watermaster**

**9641 San Bernardino Road**

**Rancho Cucamonga, CA 91730**

**AGENDA**

**CALL TO ORDER**

**ROLL CALL**

**AGENDA – ADDITIONS/REORDER**

**I. BUSINESS ITEMS - ROUTINE**

**A. MINUTES**

1. Minutes of the Non-Agricultural Pool Meeting held March 10, 2016 *(Page 5)*

**B. FINANCIAL REPORTS**

1. Cash Disbursements for the month of February 2016 *(Page 17)*
2. Watermaster VISA Check Detail for the month of February 2016 *(Page 31)*
3. Combining Schedule for the Period July 1, 2015 through February 29, 2016 *(Page 35)*
4. Treasurer's Report of Financial Affairs for the Period February 1, 2016 through February 29, 2016 *(Page 39)*
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**C. WATER TRANSACTIONS**

1. Notice of Sale or Transfer – The purchase of 1,200.000 acre-feet of water from Santa Ana River Water Company (SARWCo) by Jurupa Community Services District (JCSD). This purchase is made from SARWCo's Annual Production Right / Operating Safe Yield first, then any additional from storage. In addition, JCSD will purchase 99.000 acre-feet of water from SARWCo's excess carryover account. Date of application: March 15, 2016. *(Page 61)*
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**II. BUSINESS ITEMS**

**A. EAST DECLEZ BASIN PROJECT *(Page 81)***

The Pools have four options: (1) Cancel the purchase of the property; (2) Delay the decision on property acquisition; (3) Proceed with the purchase of the property through IEUA and approve additional funding for the preliminary design and environmental studies or (4) Proceed with the purchase of the property through IEUA and do not pursue the proposed East Declez Basin project at this time.

**B. MEMBER STATUS CHANGES (For Discussion and Possible Action)**

1. Any proposed transfer of Safe Yield by a Member.
2. Any transfer of Safe Yield that has actually closed or been completed.
3. Any change in name or corporate identity of a Member (such as results from a merger or filing of a change of name certificate).
4. Any change in the name of a representative or alternate representative of a Member, or a change in e-mail address for either such person.

**III. REPORTS/UPDATES**

**A. LEGAL COUNSEL REPORT**

1. May 6, 2016 Hearing
2. Notice of Related Case No. CIVDS1601994
3. CalPERS Appeal Hearing

**B. ENGINEER REPORT**

1. 2015 Chino Basin Maximum Benefit Annual Report
2. IEUA Stormwater Resources – Grant Application
3. Prado Basin Habitat Adaptive Management Plan

**C. CFO REPORT**

None

**D. GM REPORT**

1. SGMA Update
2. RMPU Financing
3. Water Transactions –Submittal Process
4. Other

**IV. INFORMATION**

1. Cash Disbursements for March 2016 *(Page 125)*
2. Recharge Investigations and Projects Committee (RIPCom) *(Page 137)*
3. RMPU Status Report *(Page 173)*
4. Ground Level Monitoring Report *(Page 177)*
5. Update on South Archibald and Chino Airport Plumes *(Page 185)*

**V. POOL MEMBER COMMENTS**

**VI. OTHER BUSINESS**



**VII. CONFIDENTIAL SESSION - POSSIBLE ACTION**

Pursuant to the Non-Agricultural Pool Rules & Regulations, a Confidential Session may be held during the Watermaster Pool meeting for the purpose of discussion and possible action.

1. Non-Agricultural Pool Legal Services Budget for FY 2016/17

**VIII. FUTURE MEETINGS AT WATERMASTER**

4/14/16	Thu	9:00 a.m.	Appropriative Pool
4/14/16	Thu	11:00 a.m.	Non-Agricultural Pool
4/14/16	Thu	1:30 p.m.	Agricultural Pool
4/18/16	Mon	1:30 p.m.	Fiscal Year 2016/17 Budget Distribution
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4/28/16	Thu	11:00 a.m.	Watermaster Board
5/02/16	Mon	10:00 a.m.	Fiscal Year 2016/17 Budget Workshop #2 (If Needed)

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**CHINO BASIN WATERMASTER  
AGRICULTURAL POOL MEETING**

1:30 p.m. – April 14, 2016

**WITH**

*Mr. Bob Feenstra, Chair*

*Mr. Jeff Pierson, Vice-Chair*

**At The Offices Of**

**Chino Basin Watermaster**

9641 San Bernardino Road

Rancho Cucamonga, CA 91730

**AGENDA**

**CALL TO ORDER**

**AGENDA - ADDITIONS/REORDER**

**I. 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 Agricultural Pool Meeting held March 10, 2016 *(Page 9)*
2. Minutes of the Agricultural Pool Special Meeting held on March 23, 2016 *(Page 13)*

**B. FINANCIAL REPORTS**

1. Cash Disbursements for the month of February 2016 *(Page 17)*
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1. Notice of Sale or Transfer – The purchase of 1,200.000 acre-feet of water from Santa Ana River Water Company (SARWCo) by Jurupa Community Services District (JCSD). This purchase is made from SARWCo's Annual Production Right / Operating Safe Yield first, then any additional from storage. In addition, JCSD will purchase 99.000 acre-feet of water from SARWCo's excess carryover account. Date of application: March 15, 2016. *(Page 61)*
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**II. BUSINESS ITEMS**

**A. EAST DECLEZ BASIN PROJECT *(Page 81)***

The Pools have four options: (1) Cancel the purchase of the property; (2) Delay the decision on property acquisition; (3) Proceed with the purchase of the property through IEUA and approve additional funding for the preliminary design and environmental studies or (4) Proceed with the purchase of the property through IEUA and do not pursue the proposed East Declez Basin project at this time.

**B. OLD BUSINESS**

**III. REPORTS/UPDATES**

**A. LEGAL COUNSEL REPORT**

1. May 6, 2016 Hearing
2. Notice of Related Case No. CIVDS1601994
3. CalPERS Appeal Hearing

**B. ENGINEER REPORT**

1. 2015 Chino Basin Maximum Benefit Annual Report
2. IEUA Stormwater Resources – Grant Application
3. Prado Basin Habitat Adaptive Management Plan

**C. CFO REPORT**

None

**D. GM REPORT**

1. SGMA Update
2. RMPU Financing
3. Water Transactions – Submittal Process
4. Other

**E. AGRICULTURAL POOL LEGAL COUNSEL REPORT**

**IV. INFORMATION**

1. Cash Disbursements for March 2016 *(Page 125)*
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4. Ground Level Monitoring Report *(Page 177)*
5. Update on South Archibald and Chino Airport Plumes *(Page 185)*

**V. POOL DISCUSSION**

1. Chairman's Update
2. Pool Member Comments

**VI. OTHER BUSINESS**

**VII. CONFIDENTIAL SESSION - POSSIBLE ACTION**

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

1. Agricultural Pool Strategic Planning Discussion

**VIII. FUTURE MEETINGS AT WATERMASTER**

- |         |     |            |   |
|---------|-----|------------|---|
| 4/14/16 | Thu | 9:00 a.m.  | Appropriative Pool  |
| 4/14/16 | Thu | 11:00 a.m. | Non-Agricultural Pool   |
| 4/14/16 | Thu | 1:30 p.m.  | Agricultural Pool   |
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| 4/21/16 | Thu | 8:00 a.m.  | Appropriative Pool Strategic Planning (Confidential Session Only) |
| 4/21/16 | Thu | 9:00 a.m.  | Advisory Committee  |
| 4/21/16 | Thu | 9:30 a.m.  | Recharge Investigations and Projects Committee (RIPCom)           |
| 4/27/16 | Wed | 9:00 a.m.  | Fiscal Year 2016/17 Budget Workshop #1                            |
| 4/28/16 | Thu | 11:00 a.m. | Watermaster Board   |
| 5/02/16 | Mon | 10:00 a.m. | Fiscal Year 2016/17 Budget Workshop #2 (If Needed)                |

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# CHINO BASIN WATERMASTER

## I. CONSENT CALENDAR

### A. MINUTES

1. Appropriative Pool Meeting held on March 10, 2016

**DRAFT MINUTES**  
**CHINO BASIN WATERMASTER**  
**APPROPRIATIVE POOL MEETING**

March 10, 2016

The Appropriative Pool meeting was held at the offices of Chino Basin Watermaster located at 9641 San Bernardino Road, Rancho Cucamonga, CA on March 10, 2016.

**APPROPRIATIVE POOL MEMBERS PRESENT**

Darron Poulsen, Chair

Dave Crosley

Teri Layton

Justin Scott-Coe

Van Jew

Ron Craig

Jo Lynne Russo-Pereyra for Marty Zvirbulis

Josh Swift

Cris Fealy

Scott Burton

J. Arnold Rodriguez

City of Pomona

City of Chino

San Antonio Water Company

Monte Vista Water District

Monte Vista Irrigation Company

City of Chino Hills

Cucamonga Valley Water District

Fontana Water Company

Fontana Union Water Company

City of Ontario

Santa Ana River Water Company

**WATERMASTER STAFF PRESENT**

Peter Kavounas

Joseph Joswiak

Anna Truong

General Manager

Chief Financial Officer

Recording Secretary

**WATERMASTER CONSULTANTS PRESENT**

Brad Herrema

Andy Malone

Brownstein Hyatt Farber Schreck, LLP

Wildermuth Environmental, Inc.

**OTHERS PRESENT**

Pete Hall

Raul Garibay

David DeJesus

Curtis Paxton

Sheri Rojo

Eunice Ulloa

Shaun Stone

Joel Ignacio

John Scherck

John Bosler

Tom Harder

Paula Lantz

Garrett Rapp

State of California – CIM

City of Pomona

Three Valleys Municipal Water District

Chino Basin Desalter Authority

Fontana Water Company

Chino Basin Water Conservation District

Inland Empire Utilities Agency

Inland Empire Utilities Agency

Inland Empire Utilities Agency

Cucamonga Valley Water District

Thomas Harder & Company

City of Pomona

Wildermuth Environmental, Inc.

**CALL TO ORDER**

Chair Poulsen called the Appropriative Pool meeting to order at 9:02 a.m.

**AGENDA - ADDITIONS/REORDER**

None



**I. CONSENT CALENDAR**

**A. MINUTES**

1. Minutes of the Appropriative Pool Meeting held February 11, 2016

**B. FINANCIAL REPORTS**

1. Cash Disbursements for the month of January 2016
2. Watermaster VISA Check Detail for the month of January 2016
3. Combining Schedule for the Period July 1, 2015 through January 31, 2016
4. Treasurer's Report of Financial Affairs for the Period January 1, 2016 through January 31, 2016
5. Budget vs. Actual Report for the Period July 1, 2015 through January 31, 2016

**C. OBMP SEMI-ANNUAL STATUS REPORTS 2013-2 AND 2014-1**

Recommend that the Advisory Committee recommend to the Watermaster Board to adopt the Semi-Annual OBMP Status Reports 2013-2 and 2014-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

(0:00:31)

*Motion by Mr. Scott Burton, seconded by Ms. Teri Layton, and by unanimous vote*

***Moved to approve the Consent Calendar as presented***

**II. BUSINESS ITEMS**

**A. EAST DECLEZ BASIN (For Discussion and Possible Action)**

(0:00:53) Mr. Kavounas gave a report and invited Mr. Harder to give a presentation on the subsurface investigation. A discussion ensued.

(0:54:15) No action was taken; item deferred until the April 2016 meeting.

**III. REPORTS/UPDATES**

**A. LEGAL COUNSEL REPORT**

1. February 26, 2016 Hearing
2. April 8, 2016 Hearing

(0:56:05) Mr. Herrema gave a report and added an item regarding the 36<sup>th</sup> annual report. A discussion ensued.

**B. CFO REPORT**

(0:58:50) Mr. Joswiak gave a report and provided dates for the upcoming fiscal year 2016/17 budget cycle.

**C. GM REPORT**

1. Overlying Non-Agricultural Pool Available Water Per Judgment Exhibit "G"
2. Appropriative Pool Voting on Advisory Committee
3. SGMA Update
4. UC Santa Cruz Report: An Evaluation of CA's Adjudicated Groundwater Basins
5. Business Plan Update
6. Other

(1:01:07) Ms. Truong gave a report on the Overlying Non-Agricultural Pool Exhibit "G" water transactions.

(1:02:13) Mr. Kavounas gave the remainder of the GM Report. A discussion ensued.

**IV. INFORMATION**

1. Cash Disbursements for February 2016
2. Recharge Investigations and Projects Committee (RIPCom)

**V. POOL MEMBER COMMENTS**

None

**VI. OTHER BUSINESS**

None

**VII. CONFIDENTIAL SESSION - POSSIBLE ACTION**

Chair Poulsen called for a confidential session at 10:22 a.m. to discuss strategic planning. Confidential session concluded at 11:13 a.m. with no reportable action.

**ADJOURNMENT**

Chair Poulsen adjourned the Appropriative Pool meeting at 11:13 a.m.

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

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

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# CHINO BASIN WATERMASTER

## I. BUSINESS ITEM ROUTINE

### A. MINUTES

1. Non-Agricultural Pool Meeting held on March 10, 2016

**DRAFT MINUTES**  
**CHINO BASIN WATERMASTER**  
**NON-AGRICULTURAL POOL MEETING**

March 10, 2016

The Non-Agricultural Pool meeting was held at the offices of Chino Basin Watermaster and via conference call using the Chino Basin Watermaster conference call number on March 10, 2016.

**NON-AGRICULTURAL POOL MEMBERS PRESENT AT WATERMASTER**

Brian Geye, Chair	Auto Club Speedway
Bob Bowcock, Vice-Chair	Calmat Company (Vulcan Materials Co.)
Bob Page	County of San Bernardino
Ken Jeske	California Steel Industries (CSI)

**NON-AGRICULTURAL POOL MEMBER PRESENT ON CALL**

Tom O'Neill	Ontario City Non-Agricultural
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**WATERMASTER STAFF PRESENT AT WATERMASTER**

Peter Kavounas	General Manager
Joseph Joswiak	Chief Financial Officer
Anna Truong	Recording Secretary
Janine Wilson	Recording Secretary

**WATERMASTER CONSULTANTS PRESENT AT WATERMASTER**

Andy Malone	Wildermuth Environmental, Inc.
Brad Herrema	Brownstein Hyatt Farber Schreck, LLP

**OTHERS PRESENT ON CALL**

Ramsey Haddad	California Steel Industries (CSI)
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**NON-AGRICULTURAL POOL LEGAL COUNSEL PRESENT ON CALL**

Allen Hubsch	Hogan Lovells US, LLP
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**CALL TO ORDER**

Chair Geye called the Non-Agricultural Pool meeting to order at 11:00 a.m.

**ROLL CALL**

Ms. Wilson conducted the roll call.

**AGENDA – ADDITIONS/REORDER**

None

**I. BUSINESS ITEMS - ROUTINE**

**A. MINUTES**

1. Minutes of the Non-Agricultural Pool Meeting held February 11, 2016

(0:02:20)

*Motion by Mr. Bob Bowcock, seconded by Mr. Ken Jeske. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.*

***Moved to receive and file Business Item I.A. as presented.***

**B. FINANCIAL REPORTS**

1. Cash Disbursements for the month of January 2016
2. Watermaster VISA Check Detail for the month of January 2016
3. Combining Schedule for the Period July 1, 2015 through January 31, 2016
4. Treasurer's Report of Financial Affairs for the Period January 1, 2016 through January 31, 2016
5. Budget vs. Actual Report for the Period July 1, 2015 through January 31, 2016

(0:02:41)

*Motion by Mr. Bob Page, seconded by Mr. Ken Jeske. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.*

***Moved to receive and file Business Item I.B. without approval as presented.***

**C. OBMP SEMI-ANNUAL STATUS REPORTS 2013-2 AND 2014-1**

Recommend that the Advisory Committee recommend to the Watermaster Board to adopt the Semi-Annual OBMP Status Reports 2013-2 and 2014-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

(0:03:04) Mr. Kavounas gave a report.

(0:03:22)

*Motion by Mr. Ken Jeske, seconded by Mr. Bob Page. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.*

***Moved to direct the Pool representatives to support Business Item I.C. at the Advisory Committee and Watermaster Board meetings subject to changes which they deem appropriate.***

**II. BUSINESS ITEMS**

**A. EAST DECLEZ BASIN (For Discussion and Possible Action)**

Staff report to follow separately.

(0:03:48) Mr. Kavounas gave a report indicating the Appropriative Pool has deferred the item until the April 2016 meeting and that there is no action needed from the Non-Agricultural Pool today. A discussion ensued.

**B. MEMBER STATUS CHANGES (For Discussion and Possible Action)**

1. Any proposed transfer of Safe Yield by a Member.
2. Any transfer of Safe Yield that has actually closed or been completed.
3. Any change in name or corporate identity of a Member (such as results from a merger or filing of a change of name certificate).
4. Any change in the name of a representative or alternate representative of a Member, or a change in e-mail address for either such person.

(0:05:18) Mr. Kavounas stated there have been no member status changes since the publication of the agenda.

**III. REPORTS/UPDATES**

**A. LEGAL COUNSEL REPORT**

1. February 26, 2016 Hearing
2. April 8, 2016 Hearing

(0:05:33) Mr. Herrema gave a report and added an item on the 36<sup>th</sup> annual report.

**B. CFO REPORT**

None

**C. GM REPORT**

- 1. Overlying Non-Agricultural Pool Available Water Per Judgment Exhibit "G"
- 2. Appropriative Pool Voting on Advisory Committee
- 3. SGMA Update
- 4. UC Santa Cruz Report: An Evaluation of CA's Adjudicated Groundwater Basins
- 5. Business Plan Update
- 6. Other

(0:08:05) Mr. Herrema gave a report on Item 3, SGMA Update, on Mr. Kavounas' behalf.

(0:09:49) Mr. Kavounas rejoined the meeting and gave a report on the remainder of the SGMA Update report. A discussion ensued.

(0:11:34) Ms. Truong gave a report on Item 1, Overlying Non-Agricultural Pool Exhibit "G" water transactions.

(0:13:18) Mr. Kavounas gave the remainder of the GM report. A discussion ensued.

**IV. INFORMATION**

- 1. Cash Disbursements for February 2016
- 2. Recharge Investigations and Projects Committee (RIPCom)

**V. POOL MEMBER COMMENTS**

None

**VI. OTHER BUSINESS**

None

**VII. CONFIDENTIAL SESSION - POSSIBLE ACTION**

Chair Geye called for a confidential session at 11:27 a.m. to discuss the Safe Yield Reset. Confidential session concluded at 11:41 a.m. with no reportable action.

**ADJOURNMENT**

Chair Geye adjourned the Non-Agricultural Pool meeting at 11:41 a.m.

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

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

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# CHINO BASIN WATERMASTER

## I. CONSENT CALENDAR

### A. MINUTES

1. Agricultural Pool Meeting held on March 10, 2016
2. Agricultural Pool Special Meeting held on March 23, 2016

**DRAFT MINUTES**  
**CHINO BASIN WATERMASTER**  
**AGRICULTURAL POOL MEETING**

March 10, 2016

The Agricultural Pool meeting was held at the offices of Chino Basin Watermaster located at 9641 San Bernardino Road, Rancho Cucamonga, CA on March 10, 2016.

**AGRICULTURAL POOL MEMBERS PRESENT**

Bob Feenstra, Chair	Dairy
Jeff Pierson, Vice-Chair	Crops
Carol Boyd	State of California – CIM
Bob Page	County of San Bernardino
Pete Hall	State of California – CIM
Larry Dimock	State of California – CIM
John Huitsing	Dairy
Ron LaBrucherie, Jr.	Crops
Rob Vanden Heuvel	Dairy
Nathan deBoom	Dairy
Henry DeHaan, for Gene Koopman	Dairy

**WATERMASTER BOARD MEMBERS PRESENT**

Paul Hofer	Crops
Geoffrey Vanden Heuvel	Dairy

**WATERMASTER STAFF PRESENT**

Peter Kavounas	General Manager
Joseph Joswiak	Chief Financial Officer
Anna Truong	Recording Secretary

**WATERMASTER CONSULTANTS PRESENT**

Brad Herrema	Brownstein Hyatt Farber Schreck, LLP
Andy Malone	Wildermuth Environmental, Inc.

**OTHERS PRESENT**

Richard Rees	AMEC
Tom Ash	Inland Empire Utilities Agency
Tracy Egoscue	Egoscue Law Group
Diana Frederick	State of California – CDCR
Marilyn Levin	State of California – DOJ
Andy Campbell	Inland Empire Utilities Agency

**CALL TO ORDER**

Chair Feenstra called the Agricultural Pool meeting to order at 1:34 p.m.

**AGENDA - ADDITIONS/REORDER**

(0:00:31) Mr. Hall introduced Ms. Diana Frederick, an incoming 2016 State of California alternate on the Agricultural Pool.

(0:00:55) Mr. deBoom joined the meeting.

**I. CONSENT CALENDAR**

**A. MINUTES**

1. Minutes of the Agricultural Pool Meeting held February 11, 2016

**B. FINANCIAL REPORTS**

1. Cash Disbursements for the month of January 2016
2. Watermaster VISA Check Detail for the month of January 2016
3. Combining Schedule for the Period July 1, 2015 through January 31, 2016
4. Treasurer's Report of Financial Affairs for the Period January 1, 2016 through January 31, 2016
5. Budget vs. Actual Report for the Period July 1, 2015 through January 31, 2016

**C. OBMP SEMI-ANNUAL STATUS REPORTS 2013-2 AND 2014-1**

Recommend that the Advisory Committee recommend to the Watermaster Board to adopt the Semi-Annual OBMP Status Reports 2013-2 and 2014-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

(0:01:51)

*Motion by Mr. Pete Hall, seconded by Vice-Chair Pierson, and by unanimous vote  
**Moved to approve Consent Calendar as presented***

**II. BUSINESS ITEMS**

**A. EAST DECLEZ BASIN (For Discussion and Possible Action)**

(0:02:09) Mr. Kavounas gave a report and indicated that no action was needed. The Appropriative and Non-Agricultural Pools deferred the item until next month. A discussion ensued.

**B. OLD BUSINESS**

None

**III. REPORTS/UPDATES**

**A. LEGAL COUNSEL REPORT**

1. February 26, 2016 Hearing
2. April 8, 2016 Hearing

(0:05:10) Mr. Herrema gave a report and added an item on the 36<sup>th</sup> annual report. A discussion ensued.

**B. CFO REPORT**

(0:08:50) Mr. Joswiak gave a report and provided dates for the fiscal year 2016/17 budget distribution and workshops.

**C. GM REPORT**

1. Overlying Non-Agricultural Pool Available Water Per Judgment Exhibit "G"
2. Appropriative Pool Voting on Advisory Committee
3. SGMA Update
4. UC Santa Cruz Report: An Evaluation of CA's Adjudicated Groundwater Basins
5. Business Plan Update
6. Other

(0:10:45) Ms. Truong gave a report on the Overlying Non-Agricultural Pool Exhibit "G" water transactions.

(0:11:54) Mr. Kavounas gave the remainder of the GM Report. A discussion ensued.

**D. AGRICULTURAL POOL LEGAL COUNSEL REPORT**

None

**IV. INFORMATION**

1. Cash Disbursements for February 2016
2. Recharge Investigations and Projects Committee (RIPCom)

**V. POOL MEMBER COMMENTS**

(0:39:20) Chair Feenstra gave a report on the comment letter he signed relating to the City of Ontario's announcement regarding potable water for residents. A discussion ensued

**VI. OTHER BUSINESS**

None

**VII. CONFIDENTIAL SESSION - POSSIBLE ACTION**

Chair Feenstra called for a confidential session at 2:26 p.m. to discuss Pool matters. Confidential session concluded at 3:00 p.m. with no reportable action.

**ADJOURNMENT**

Chair Feenstra adjourned the Agricultural Pool meeting at 3:00 p.m.

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

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

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**DRAFT MINUTES**  
**CHINO BASIN WATERMASTER**  
**AGRICULTURAL POOL – SPECIAL MEETING**  
March 23, 2016

The Agricultural Pool special meeting was held at the offices of Chino Basin Watermaster located at 9641 San Bernardino Road, Rancho Cucamonga, CA and via conference call on March 23, 2016.

**AGRICULTURAL POOL MEMBERS PRESENT**

Bob Feenstra, Chair	Dairy
Ron LaBrucherie, Jr.	Crops

**WATERMASTER BOARD MEMBER PRESENT**

Paul Hofer	Crops
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**OTHERS PRESENT**

Tracy Egoscue	Egoscue Law Group
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**AGRICULTURAL POOL MEMBERS PRESENT VIA CONFERENCE CALL**

Jeff Pierson, Vice-Chair	Crops
Larry Dimock	State of California – CIM
Pete Hall	State of California – CIM
Carol Boyd	State of California – CIM
Nathan deBoom	Dairy
Bob Page	County of San Bernardino

**WATERMASTER BOARD MEMBER PRESENT VIA CONFERENCE CALL**

Geoff Vanden Heuvel	Dairy
---------------------	-------

**OTHERS PRESENT VIA CONFERENCE CALL**

Marilyn Levin	State of California – DOJ
Richard Rees	AMEC
Diana Frederick	State of California

**CALL TO ORDER**

Chair Feenstra called the Agricultural Pool special meeting to order at 1:30 p.m.

**AGENDA - ADDITIONS/REORDER**

**I. CONFIDENTIAL SESSION**

The Pool convened a special meeting in confidential session at 1:30 p.m. to discuss Strategic Planning. Confidential session concluded at 3:09 p.m. and the reportable action is attached to these minutes.

**ADJOURNMENT**

Chair Feenstra concluded the Agricultural Pool special meeting at 3:09 p.m.

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

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

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Ag Pool Special Meeting Closed Session Reportable Action

3/23/16

The Ag Pool appreciates the opportunity to review the April 1, 2016 Submittal to DWR (SGMA). During a Special Meeting of the Ag Pool held on March 23, 2016, the Ag Pool met and discussed the Submittal that was provided to the Pool on March 18, 2016 and subsequent to the March Pool meeting. The Ag Pool has significant concerns about the content of the report. Due to the fact that the deadline for submission is pending and will not allow the mandated and preferred Pool deliberation process, the Ag Pool will offer suggested edits to the Watermaster in this context and as a reportable item out of closed session.

As a preliminary matter, the Ag Pool strongly urges the Watermaster to immediately cease the practice of bypassing the Pools and Advisory Committee with submittals such as the present one to DWR in compliance with SGMA.

The Ag Pool provides the following suggested edit to paragraph "E" of the April 1, 2016 report. The Pool recognizes the less than desirable process we are using to offer these edits and would have preferred to have done so during a regularly scheduled Pool meeting.

**(E) Annual change in groundwater storage**

***Change in storage (AF): -11,000 Method used to determine:*** The storage change during the water year of October 1, 2014 through September 30, 2015 was estimated with the Chino Basin Watermaster Chino Basin groundwater model that was recently updated by extending the calibration period from July 1, 1960 through September 30, 2015. ~~For context, the Chino Basin Judgment and Peace Agreement~~



~~contain Court-approved storage depletion provisions that would cause a change in storage for water year October 1, 2014 through September 30, 2015 of about 20,000 AF. That is, the actual change in storage of 11,000 AF is less than the planned change in storage of 20,000 AF.~~

Moved by Jeff Pierson

Second by Carol Boyd

Passed by unanimous vote.

Meeting Adjourned at 3:09pm

# CHINO BASIN WATERMASTER

## **I. CONSENT CALENDAR (App & Ag Pool)**

### **B. FINANCIAL REPORTS**

1. Cash Disbursements for the month of February 2016
2. Watermaster VISA Check Detail for the month of February 2016
3. Combining Schedule for the Period July 1, 2015 through February 29, 2016
4. Treasurer's Report of Financial Affairs for the Period February 1, 2016 through February 29, 2016
5. Budget vs. Actual Report for the Period July 1, 2015 through February 29, 2016

## **I. BUSINESS ITEM ROUTINE (Non-Ag Pool)**

### **B. FINANCIAL REPORTS**

1. Cash Disbursements for the month of February 2016
2. Watermaster VISA Check Detail for the month of February 2016
3. Combining Schedule for the Period July 1, 2015 through February 29, 2016
4. Treasurer's Report of Financial Affairs for the Period February 1, 2016 through February 29, 2016
5. Budget vs. Actual Report for the Period July 1, 2015 through February 29, 2016



# 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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PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: April 14, 2016  
TO: Pool Committee Members  
SUBJECT: Cash Disbursement Report - Financial Report B1 (February 29, 2016)

### SUMMARY

Issue: Record of Cash Disbursements for the month of February 29, 2016.

Recommendation: Receive and file Cash Disbursements for February 29, 2016 as presented.

Financial Impact: Funds disbursed were included in the FY 2015/16 "Amended" Watermaster Budget.

### Future Consideration

Appropriative Pool: April 14, 2016; Receive and File  
Non-Agricultural Pool: April 14, 2016; Receive and File  
Agricultural Pool: April 14, 2016; Receive and File  
Advisory Committee: April 21, 2016; Receive and File  
Watermaster Board: April 28, 2016; Receive and File (Normal Course of Business)

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### ACTIONS:

April 14, 2016 – Appropriative Pool –  
April 14, 2016 – Non-Agricultural Pool –  
April 14, 2016 – Agricultural Pool –  
April 21, 2016 – Advisory Committee –  
April 28, 2016 – Watermaster Board –

## BACKGROUND

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

## DISCUSSION

Total cash disbursements during the month of February 2016 were \$415,514.01.

The most significant expenditures during the month were to Wildermuth Environmental, Inc. in the amount of \$152,144.67 (check number 19201 dated February 4, 2016); and Brownstein Hyatt Farber Schreck in the amount of \$74,705.43 (check number 19199 dated February 4, 2016).

## ATTACHMENTS

1. Financial Report - B1

**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**February 2016**

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	02/04/2016	19187	CHARTER COMMUNICATIONS	8245100651455350	1012 · Bank of America Gen'l Ckg	
Bill	02/01/2016	8245100651455350		2/06/16-3/05/16	6053 · Internet Expense	64.99
TOTAL						64.99
Bill Pmt -Check	02/04/2016	19188	CHEF DAVE'S CAFE & CATERING	5891	1012 · Bank of America Gen'l Ckg	
Bill	01/28/2016	5891		Lunch for 1/28/16 Watermaster Board meeting	6312 · Meeting Expenses	639.80
TOTAL						639.80
Bill Pmt -Check	02/04/2016	19189	EMPOWER LAB		1012 · Bank of America Gen'l Ckg	
Bill	12/11/2015	121115		Debrief w/Anna Danni, Joe	6013 · Human Resources Services	450.00
Bill	01/07/2016	10716		CVI group workshop	6013 · Human Resources Services	1,500.00
TOTAL						1,950.00
Bill Pmt -Check	02/04/2016	19190	OFFICE TEAM	44919306	1012 · Bank of America Gen'l Ckg	
Bill	01/28/2016	44919306		Week ending 1/22/16	6017.2 · Office Specialist Services	1,170.33
TOTAL						1,170.33
Bill Pmt -Check	02/04/2016	19191	PARK PLACE COMPUTER SOLUTIONS, INC.	508	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2016	508		IT Consulting Services - January 2016	6052.1 · Park Place Comp Solutn	1,650.00
TOTAL						1,650.00
Bill Pmt -Check	02/04/2016	19192	PETTY CASH	2561-2573	1012 · Bank of America Gen'l Ckg	
Bill	02/01/2016	2561-2573		Purchase supplies for Board meetings	6312 · Meeting Expenses	36.50
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	65.17
				Purchase supplies for field work	6151 · Small Tools & Equipment	26.99
				Mileage reimbursement for seminar	6192 · Seminars - General	37.80
				PK travel reimbursement	6191 · Conferences - General	38.26
				PK and A.Truong mtgs w/Appropriators	8312 · Meeting Expenses	80.92
				Purchase supplies for staff meeting	6141.1 · Meeting Supplies	15.99
TOTAL						301.63
Bill Pmt -Check	02/04/2016	19193	PRINTING RESOURCES	62854	1012 · Bank of America Gen'l Ckg	
Bill	01/28/2016	62854		Name plates-Thomas, Curatalo, Board Clerk	6031.7 · Other Office Supplies	92.02
TOTAL						92.02
Bill Pmt -Check	02/04/2016	19194	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
Bill	02/01/2016	1394905143		Annual Unfunded Accrued Liability	60180 · Employers PERS Expense	3,077.00
TOTAL						3,077.00

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
February 2016

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	02/04/2016	19195	PURCHASE POWER	8000909000168851	1012 · Bank of America Gen'l Ckg	
Bill	01/28/2016	8000-9090-0016-8851		Charges	6042 · Postage - General	2.17
TOTAL						2.17
Bill Pmt -Check	02/04/2016	19196	RR FRANCHISING, INC.	17178	1012 · Bank of America Gen'l Ckg	
Bill	02/01/2016	17178		Monthly service charge for February 2016	6024 · Building Repair & Maintenance	740.00
TOTAL						740.00
Bill Pmt -Check	02/04/2016	19197	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'l Ckg	
Bill	01/28/2016	00-101789-0001		Vision Insurance - February 2016	60182.2 · Dental & Vision Ins	85.60
TOTAL						85.60
Bill Pmt -Check	02/04/2016	19198	YUKON DISPOSAL SERVICE	08-K2 213849	1012 · Bank of America Gen'l Ckg	
Bill	02/01/2016	08-k2 213849		Disposal Service - February 2016	6024 · Building Repair & Maintenance	111.57
TOTAL						111.57
Bill Pmt -Check	02/04/2016	19199	BROWNSTEIN HYATT FARBER SCHRECK		1012 · Bank of America Gen'l Ckg	
Bill	12/31/2015	625989		625989	6078 · BHFS Legal - Miscellaneous	27,762.30
				625989	6907.42 · Safe Yield Recalculation	226.80
Bill	12/31/2015	625990		Alvarez-CalPERS	6073 · BHFS Legal - Personnel Matters	2,257.20
				Personnel	6073 · BHFS Legal - Personnel Matters	1,723.95
Bill	12/31/2015	625991		625991	8375 · BHFS Legal - Appropriative Pool	76.50
Bill	12/31/2015	625992		625992	8475 · BHFS Legal - Agricultural Pool	76.50
Bill	12/31/2015	625993		625993	8575 · BHFS Legal - Non-Ag Pool	76.50
Bill	12/31/2015	625994		625994	6071 · BHFS Legal - Court Coordination	267.75
Bill	12/31/2015	625995		625995	6907.39 · Recharge Master Plan	339.75
Bill	12/31/2015	625996		625996	6907.41 · Prado Basin Habitat Sustain	3,828.15
Bill	12/31/2015	625997		625997	6907.42 · Safe Yield Recalculation	38,025.90
				Expenses	6907.42 · Safe Yield Recalculation	44.13
TOTAL						74,705.43
Bill Pmt -Check	02/04/2016	19200	EUROFINS EATON ANALYTICAL		1012 · Bank of America Gen'l Ckg	
Bill	12/31/2015	L0243889		L0243889	7103.5 · Grdwtr Qual-Lab Svcs	1,476.00
Bill	12/31/2015	L0243891		L0243891	7103.5 · Grdwtr Qual-Lab Svcs	1,386.00
Bill	12/31/2015	L0243893		L0243893	7103.5 · Grdwtr Qual-Lab Svcs	2,014.00
Bill	12/31/2015	L0243894		L0243894	7103.5 · Grdwtr Qual-Lab Svcs	483.00
Bill	12/31/2015	L0243896		L0243896	7103.5 · Grdwtr Qual-Lab Svcs	1,386.00
Bill	12/31/2015	L0245660		L0245660	7108.41 · Hydraulic Control - PBHSP	2,732.00
Bill	12/31/2015	L0245766		L0245766	7108.41 · Hydraulic Control - PBHSP	2,732.00
Bill	12/31/2015	L0246665		L0246665	7108.41 · Hydraulic Control - PBHSP	2,732.00

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**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**February 2016**

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	12/31/2015	L0246666		L0246666	7108.41 · Hydraulic Control - PBHSP	3,988.00
TOTAL						18,929.00
Bill Pmt -Check	02/04/2016	19201	WILDERMUTH ENVIRONMENTAL INC		1012 · Bank of America Gen'l Ckg	
Bill	12/31/2015	2015380		2015380	6906.32 · OBMP-Other General Meetings	4,790.48
Bill	12/31/2015	2015381		2015381	6906.74 · OBMP-Mat'l Phy. Injury Requests	1,460.00
Bill	12/31/2015	2015382		2015382	6906.71 · OBMP-Data Req.-CBWM Staff	14,215.10
Bill	12/31/2015	2015383		2015383	6906.72 · OBMP-Data Req.-Non CBWM Staff	538.25
Bill	12/31/2015	2015384		2015384	6906.23 · SGMA Reporting Requirements	1,415.50
Bill	12/31/2015	2015385		2015385	6906 · OBMP Engineering Services	2,033.75
Bill	12/31/2015	2015386		2015386	6906.1 · OBMP-Watermaster Model Update	48,323.50
Bill	12/31/2015	2015387		2015387	7103.3 · Grdwtr Qual-Engineering	2,130.93
Bill	12/31/2015	2015388		2015388	7104.3 · Grdwtr Level-Engineering	6,972.65
Bill	12/31/2015	2015389		2015389	7107.2 · Grd Level-Engineering	1,779.35
Bill	12/31/2015	2015390		2015390	7108.32 · HCMP - Adaptive Mgmt Plan	1,330.00
Bill	12/31/2015	2015391		2015391	7108.31 · Hydraulic Control - PBHSP	27,362.61
Bill	12/31/2015	2015392		2015392	7202.2 · Engineering Svc	2,868.75
Bill	12/31/2015	2015393		2015393	7402 · PE4-Engineering	536.25
P21 Bill	12/31/2015	2015394		2015394	7402.10 · PE4 - MZ1 Pomona Project	17,983.05
Bill	12/31/2015	2015395		2015395	7502 · PE6&7-Engineering	3,868.50
Bill	12/31/2015	2015396		2015396	7602 · PE8&9-Engineering	14,536.00
TOTAL						152,144.67
Bill Pmt -Check	02/05/2016	ACH 020516	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	01/30/2016	02/05/2016	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 01/17/16-01/30/16	2000 · Accounts Payable	6,437.65
TOTAL						6,437.65
Bill Pmt -Check	02/12/2016	19202	ACWA JOINT POWERS INSURANCE AUTHORITY	0394835	1012 · Bank of America Gen'l Ckg	
Bill	02/08/2016	0394835		Prepayment - March 2016	1409 · Prepaid Life, BAD&D & LTD	135.13
				February 2016	60191 · Life & Disab.Ins Benefits	130.91
TOTAL						266.04
Bill Pmt -Check	02/12/2016	19203	BOWCOCK, ROBERT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	02/12/2016	19204	BOWMAN, JIM	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00

**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**February 2016**

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	02/12/2016	19205	CORELOGIC INFORMATION SOLUTIONS	81662009	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2016	81662009		81662009	7103.7 · Grdwtr Qual-Computer Svc	62.50
				81662009	7101.4 · Prod Monitor-Computer	62.50
TOTAL						125.00
Bill Pmt -Check	02/12/2016	19206	COSTCO WHOLESALE	7003-7309-1000-2744	1012 · Bank of America Gen'l Ckg	
Bill	01/29/2016	7003-7309-1000-2744		Miscellaneous office supplies	6031.7 · Other Office Supplies	78.15
TOTAL						78.15
Bill Pmt -Check	02/12/2016	19207	CURATALO, JAMES	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	02/12/2016	19208	DE BOOM, NATHAN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/14/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
<b>P22</b>						
Bill Pmt -Check	02/12/2016	19209	DE HAAN, HENRY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/14/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	02/12/2016	19210	ELIE, STEVEN	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/04/2016	1/04 Admin Mtg		1/04/16 Administrative meeting w/PK	6311 · Board Member Compensation	125.00
Bill	01/21/2016	1/21 Personnel Comm		1/21/16 Personnel Committee Meeting	6311 · Board Member Compensation	125.00
Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Mtg	6311 · Board Member Compensation	125.00
TOTAL						375.00
Bill Pmt -Check	02/12/2016	19211	FEENSTRA, BOB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/06/2016	1/06 Mtg w/PK		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/06/16 Ag Pool business meeting w/Kavounas	8470 · Ag Meeting Attend -Special	100.00
Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/14/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	01/21/2016	1/21 Personnel Comm		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/21/16 Personnel Committee meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	01/28/2016	1/28 Board Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/28/16 Board Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						500.00



**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**February 2016**

Financial Report - B1

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	02/12/2016	19212	HALL, PETE*	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/14/2016	1/14 Appro Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/14/16 Appropriative Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	01/14/2016	1/14 Non Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/14/16 Non Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/14/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	01/21/2016	1/21 RIPCom Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/21/16 RIPCom Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	01/28/2016	1/28 Board Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/28/16 Board Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						625.00
Bill Pmt -Check	02/12/2016	19213	HUITSING, JOHN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/14/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
P23 Bill Pmt -Check	02/12/2016	19214	IPSWITCH, INC.	2015-166810	1012 · Bank of America Gen'l Ckg	
Bill	02/08/2016	2015-166810		1 year support for FTP Server	6055 · Computer Hardware	257.00
TOTAL						257.00
Bill Pmt -Check	02/12/2016	19215	OFFICE TEAM	44979135	1012 · Bank of America Gen'l Ckg	
Bill	01/29/2016	44979135		Week ending 1/29/16	6017.2 · Office Specialist Services	1,108.00
TOTAL						1,108.00
Bill Pmt -Check	02/12/2016	19216	PAYCHEX	2016012800	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2016	2016012800		January 2016	6012 · Payroll Services	507.61
TOTAL						507.61
Bill Pmt -Check	02/12/2016	19217	PIERSON, JEFFREY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/14/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	01/28/2016	1/28 Board Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/28/16 Board meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						250.00
Bill Pmt -Check	02/12/2016	19218	PREMIERE GLOBAL SERVICES	20342573	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2016	20342573		WM coordination call on 1/04	6909.1 · OBMP Meetings	30.48

**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**February 2016**

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
				Board call w/Elie, Kavounas, Slater on 1/04	6312 · Meeting Expenses	10.57
				WM coordination call on 1/11	6909.1 · OBMP Meetings	26.48
				Safe Yield Reset call on 1/12	6906.73 · OBMP-Safe Yield Recalculation	29.49
				Pool mtgs check call on 1/13	8512 · Meeting Expense	6.18
				Pool mtgs check call on 1/13	8412 · Meeting Expenses	6.18
				Pool mtgs check call on 1/13	8312 · Meeting Expenses	6.18
				Non-Ag Pool mtg call on 1/14	8512 · Meeting Expense	36.62
				WM coordination call on 1/18	6909.1 · OBMP Meetings	21.49
				WM coordination call on 1/18	6909.1 · OBMP Meetings	6.14
				WM coordination call on 1/18	6909.1 · OBMP Meetings	6.15
				Volume Vote call on 1/19	6909.1 · OBMP Meetings	21.71
				WM coordination call on 1/25	6909.1 · OBMP Meetings	27.14
				Fee - Confidential	6022 · Telephone	49.00
				Fee - General	6022 · Telephone	49.00
				Service fee	6022 · Telephone	8.22
TOTAL						<u>341.03</u>
<b>P224</b>						
Bill Pmt -Check	02/12/2016	19219	SANTA ANA RIVER WATER COMPANY	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/21/2016	1/21 Personnel Comm		1/21/16 Personnel Committee Meeting - Rodriguez	6311 · Board Member Compensation	125.00
TOTAL						<u>125.00</u>
Bill Pmt -Check	02/12/2016	19220	THOMAS, THOMAS R.	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						<u>125.00</u>
Bill Pmt -Check	02/12/2016	19221	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg	
Bill	01/29/2016	7076-2245-3035-5049		Fuel - January 2016	6175 · Vehicle Fuel	186.01
TOTAL						<u>186.01</u>
Bill Pmt -Check	02/12/2016	19222	VANDEN HEUVEL, GEOFFREY	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						<u>125.00</u>
Bill Pmt -Check	02/12/2016	19223	VANDEN HEUVEL, ROB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/14/16 Ag Pool meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						<u>125.00</u>
Bill Pmt -Check	02/12/2016	19224	WESTERN MUNICIPAL WATER DISTRICT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Meeting - Galleano	6311 · Board Member Compensation	125.00

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
February 2016

Financial Report - B1

Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						125.00
Bill Pmt -Check	02/12/2016	19225	HOGAN LOVELLS	2961520	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2016	2961520		Non-Ag Pool Legal Services - December 2015	8567 · Non-Ag Legal Service	4,346.55
TOTAL						4,346.55
General Journal	02/13/2016	02/13/2016	Payroll and Taxes for 01/31/16-02/13/16	Payroll and Taxes for 01/31/16-02/13/16	1012 · Bank of America Gen'l Ckg	
				Direct Deposits for 01/31/16-02/13/16	1012 · Bank of America Gen'l Ckg	23,382.95
				Payroll Taxes for 01/31/16-02/13/16	1012 · Bank of America Gen'l Ckg	8,975.64
				Checks for 01/31/16-02/13/16	1014 · Bank of America P/R Ckg	983.27
			ICMA-RC	457(f) Employee Deductions for 01/31/16-02/13/16	1012 · Bank of America Gen'l Ckg	3,874.52
			ICMA-RC	401(a) Employee Deductions for 01/31/16-02/13/16	1012 · Bank of America Gen'l Ckg	1,200.05
TOTAL						38,416.43
Check	02/16/2016	02/16/2016	Service Charge	Service Charge	1012 · Bank of America Gen'l Ckg	
				Service Charge	6039.1 · Banking Service Charges	418.90
TOTAL						418.90
P25 Bill Pmt -Check	02/19/2016	ACH 021916	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	02/13/2016	02/13/2016	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 01/31/16-02/13/16	2000 · Accounts Payable	6,470.32
TOTAL						6,470.32
Bill Pmt -Check	02/23/2016	19226	BOWMAN, JIM	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/13/2016	1/13 Admin Mtg		1/13/16 Administrative Meeting w/PK	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	02/23/2016	19227	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
Bill	02/08/2016	1394905143		1394905143	60182.1 · Medical Insurance	10,370.88
TOTAL						10,370.88
Bill Pmt -Check	02/23/2016	19228	CLEAN TECH SERVICES	5278	1012 · Bank of America Gen'l Ckg	
Bill	02/17/2016	5278		Window cleaning, hard water spot removal	6024 · Building Repair & Maintenance	426.00
TOTAL						426.00
Bill Pmt -Check	02/23/2016	19229	CUCAMONGA VALLEY WATER DISTRICT	Lease due March 1, 2016	1012 · Bank of America Gen'l Ckg	
Bill	02/16/2016			Lease due March 1, 2016	1422 · Prepaid Rent	6,371.16
TOTAL						6,371.16
Bill Pmt -Check	02/23/2016	19230	DE BOOM, NATHAN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/21/2016	1/21 Advisory Comm		Ag Pool Member Compensation	8411 · Compensation	25.00

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
February 2016

Type	Date	Num	Name	Memo	Account	Paid Amount
				1/21/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	02/23/2016	19231	EGOSCUE LAW GROUP	11143	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2016	11143		Ag Pool Legal Services - January 2016	8467 · Ag Legal & Technical Services	41,732.50
TOTAL						41,732.50
Bill Pmt -Check	02/23/2016	19232	ELIE, STEVEN	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/21/2016	1/21 Advisory Comm		1/21/16 Advisory Committee Meeting	6311 · Board Member Compensation	125.00
Bill	01/26/2016	1/26 Admin Mtg		1/26/2016 Administrative Meeting w/PK	6311 · Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	02/23/2016	19233	FEENSTRA, BOB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/21/2016	1/21 Advisory Comm		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/21/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	02/23/2016	19234	GALAXY AUDIO VISUAL	1206	1012 · Bank of America Gen'l Ckg	
Bill	02/08/2016	1206		Board room handheld microphones	6055 · Computer Hardware	2,547.77
TOTAL						2,547.77
Bill Pmt -Check	02/23/2016	19235	HALL, PETE*	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/21/2016	1/21 Advisory Comm		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/21/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	02/23/2016	19236	KAVOUNAS, PETER	Travel Expense Reimbursement	1012 · Bank of America Gen'l Ckg	
Bill	02/16/2016			Travel-GRA SGMA Event-Davis, CA	6171.1 · GM - Reimbursement	467.64
				Meals-GRA SGMA Event-Davis, CA	6191 · Conferences - General	32.66
TOTAL						500.30
Bill Pmt -Check	02/23/2016	19237	KUHN, BOB	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/14/2016	1/14 Appro Pool Mtg		1/14/16 Appropriate Pool Meeting	6311 · Board Member Compensation	125.00
Bill	01/18/2016	1/18 Admin Mtg		1/18/16 Administrative Meeting w/PK	6311 · Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	02/23/2016	19238	LEGAL SHIELD	0111802	1012 · Bank of America Gen'l Ckg	
Bill	02/17/2016	0111802		Employee deductions - February 2016	60194 · Other Employee Insurance	51.80
TOTAL						51.80

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**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**February 2016**

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	02/23/2016	19239	OFFICE DEPOT		1012 · Bank of America Gen'l Ckg	
Bill	02/06/2016	822785957001		Miscellaneous office supplies	6031.7 · Other Office Supplies	35.29
Bill	02/08/2016	822785294001		Miscellaneous office supplies	6031.7 · Other Office Supplies	21.14
Bill	02/08/2016	822785956001		Miscellaneous office supplies	6031.7 · Other Office Supplies	12.93
TOTAL						69.36
Bill Pmt -Check	02/23/2016	19240	PIERSON, JEFFREY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/21/2016	1/21 Advisory Comm		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/21/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	01/21/2016	1/21 RIPCom Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/21/16 RIPCom meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						250.00
Bill Pmt -Check	02/23/2016	19241	PITNEY BOWES CREDIT CORPORATION	6684246	1012 · Bank of America Gen'l Ckg	
Bill	02/17/2016	6684246		Postage meter lease	6044 · Postage Meter Lease	402.85
TOTAL						402.85
Bill Pmt -Check	02/23/2016	19242	PRINTING RESOURCES	62891	1012 · Bank of America Gen'l Ckg	
Bill	02/09/2016	62891		Business cards - A. Truong, R. Zapien	6031.7 · Other Office Supplies	151.71
TOTAL						151.71
Bill Pmt -Check	02/23/2016	19243	RON SHELLEY'S AUTOMOTIVE		1012 · Bank of America Gen'l Ckg	
Bill	02/11/2016	7951		Maintenance for F-150	6177 · Vehicle Repairs & Maintenance	193.91
Bill	02/16/2016	7986		Maintenance for 2001 Dakota	6177 · Vehicle Repairs & Maintenance	68.35
TOTAL						262.26
Bill Pmt -Check	02/23/2016	19244	STAPLES BUSINESS ADVANTAGE	8037946377	1012 · Bank of America Gen'l Ckg	
Bill	02/06/2016	8037946377		Miscellaneous office supplies	6031.7 · Other Office Supplies	127.00
TOTAL						127.00
Bill Pmt -Check	02/23/2016	19245	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
Bill	02/16/2016				60182.4 · Retiree Medical	23.62
TOTAL						23.62
Bill Pmt -Check	02/23/2016	19246	THOMAS, THOMAS R.	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/26/2016	1/26 Admin Mtg		1/26/16 Administrative Meeting w/PK	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	02/23/2016	19247	VANDEN HEUVEL, ROB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/19/2016	1/19 Call Vol Vote		Ag Pool Member Compensation	8411 · Compensation	25.00

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
February 2016

Type	Date	Num	Name	Memo	Account	Paid Amount
				1/19/16 Conference Call re Volume Votes	8470 · Ag Meeting Attend -Special	100.00
Bill	01/21/2016	1/21 Advisory Comm		Ag Pool Member Compensation	8411 · Compensation	25.00
				1/21/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						250.00
Bill Pmt -Check	02/23/2016	19248	VERIZON	012519128144592510	1012 · Bank of America Gen'l Ckg	
Bill	02/17/2016	012519128144592510		012519128144592510	6022 · Telephone	132.09
TOTAL						132.09
Bill Pmt -Check	02/23/2016	19249	VERIZON WIRELESS	9759944834	1012 · Bank of America Gen'l Ckg	
Bill	02/16/2016	9759944834		9759944834	6022 · Telephone	390.37
TOTAL						390.37
Bill Pmt -Check	02/24/2016	19250	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2016	XXXX-XXXX-XXXX-9341		Purchase book "Scaling Up" for GM	6031.7 · Other Office Supplies	19.04
				Purchase USB wall charger/plug for CFO phone	6031.7 · Other Office Supplies	12.41
				Purchase USB cable for CFO phone	6031.7 · Other Office Supplies	8.63
				Purchase data cable for CFO phone	6031.7 · Other Office Supplies	6.95
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	95.91
				Purchase copy paper	6031.1 · Copy Paper	127.96
				Purchase shirts w/logo for new field staff	6154 · Uniforms	306.06
				Send legal docs to Stradling Yocca Carlson Rauth	6042 · Postage - General	54.98
				Purchase vehicle batteries for WM trucks	6177 · Vehicle Repairs & Maintenance	283.47
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	60.96
				Purchase copy paper	6031.1 · Copy Paper	159.95
				Mail legal filings-from 2/1/16 to board, pool chairs	6042 · Postage - General	147.95
				Purchase Adobe Acrobat upgrade software	6054 · Computer Software	199.00
				Service call: check/adjust boardroom microphones	6024 · Building Repair & Maintenance	250.00
				License for FTP server support & implementation	6054 · Computer Software	1,330.00
				Service call: reset voltage controller in boardroom	6024 · Building Repair & Maintenance	250.00
				PK breakfast for meeting in Sacramento	6191 · Conferences - General	7.90
				Airport parking-PK-attend meeting in Sacramento	6191 · Conferences - General	18.00
				Deposit hold-2/17/16 Vistage Mtg. hosted by PK	6191 · Conferences - General	175.00
				PK meeting w/Ontario - J. Bowman, S. Burton	6312 · Meeting Expenses	59.25
				PK meeting w/B. Kuhn, D. DeJesus	6312 · Meeting Expenses	25.80
				PK meeting w/J. Grindstaff IEUA	8312 · Meeting Expenses	31.16
				Lunch for management between meetings	6141.3 · Admin Meetings	65.08
				PK meeting w/Upland - T. Thomas, R. Hoerning	6312 · Meeting Expenses	51.79
				Photographer-new Board members, Pool Chairs	6147 · Other Admin Expenses	350.00
				Lunch for management for court filing coordination	6141.3 · Admin Meetings	25.88

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**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**February 2016**

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>	
				PK meeting w/B. DiPrimio	6909.1 · OBMP Meetings	25.47	
				Reg.-Nakano, Yoo-2/17/2016 AGWA-AGWT Conf.	6193.2 · Conference - Registration Fee	420.00	
				Reg.-Zapien-2/17/2016 AGWA-AGWT Conference	6193.2 · Conference - Registration Fee	195.00	
				Final payment-2/17/16 Vistage mtg. hosted by PK	6191 · Conferences - General	634.18	
TOTAL						5,397.78	
Bill Pmt -Check	02/24/2016	19251	GREAT AMERICA LEASING CORP.	18306494	1012 · Bank of America Gen'l Ckg		
Bill	02/23/2016	18306494		Invoice	6043.1 · Ricoh Lease Fee	3,285.29	
TOTAL						3,285.29	
Bill Pmt -Check	02/24/2016	19252	PRINTING RESOURCES	62890	1012 · Bank of America Gen'l Ckg		
Bill	02/15/2016	62890		Name badge: A. Truong w/new title	6031.7 · Other Office Supplies	46.22	
TOTAL						46.22	
Bill Pmt -Check	02/24/2016	19253	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg		
Bill	02/23/2016	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	741.75	
TOTAL						741.75	
P29	Bill Pmt -Check	02/24/2016	19254	STAPLES BUSINESS ADVANTAGE	8038039289	1012 · Bank of America Gen'l Ckg	
	Bill	02/23/2016	8038039289	Miscellaneous office supplies	6031.7 · Other Office Supplies	72.58	
TOTAL						72.58	
Bill Pmt -Check	02/24/2016	19255	STATE COMPENSATION INSURANCE FUND	1970970-15	1012 · Bank of America Gen'l Ckg		
Bill	03/01/2016	1970970-15		1970970-15	60183 · Worker's Comp Insurance	961.58	
TOTAL						961.58	
Bill Pmt -Check	02/24/2016	19256	UNITED HEALTHCARE	039900535	1012 · Bank of America Gen'l Ckg		
Bill	02/23/2016	0039900535		Dental Insurance - March 2016	60182.2 · Dental & Vision Ins	833.15	
TOTAL						833.15	
Bill Pmt -Check	02/24/2016	19257	VANDEN HEUVEL, GEOFFREY	Board Member Compensation	1012 · Bank of America Gen'l Ckg		
Bill	01/14/2016	1/14 Ag Pool Mtg		1/14/2016 Ag Pool Annual Meeting	6311 · Board Member Compensation	125.00	
TOTAL						125.00	
Bill Pmt -Check	02/24/2016	19258	VERIZON	642013270-00001	1012 · Bank of America Gen'l Ckg		
Bill	02/23/2016	642073270-00001		642013270-00001	7103.7 · Grdwtr Qual-Computer Svc	100.04	
TOTAL						100.04	
General Journal	02/27/2016	02/27/2016	Payroll and Taxes for 02/14/16-02/27/16	Payroll and Taxes for 02/14/16-02/27/16	1012 · Bank of America Gen'l Ckg		
				Direct Deposits for 02/14/16-02/27/16	1012 · Bank of America Gen'l Ckg	19,956.47	

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
February 2016

Type	Date	Num	Name	Memo	Account	Paid Amount
				Payroll Checks for 02/14/16 - 02/27/16	1012 - Bank of America Gen'l Ckg	15,830.28
				Payroll Taxes for 02/14/16-02/27/16	1012 - Bank of America Gen'l Ckg	14,602.44
			ICMA-RC	457(f) Employee Deductions for 02/14/16-02/27/16	1012 - Bank of America Gen'l Ckg	3,934.20
			ICMA-RC	401(a) Employee Deductions for 02/14/16-02/27/16	1012 - Bank of America Gen'l Ckg	1,228.88
TOTAL						<u>55,552.27</u>
General Journal	02/29/2016	02/29/2016	Wage Works FSA Direct Debits - Feb. 2016	Wage Works FSA Direct Debits - Feb. 2016	1012 - Bank of America Gen'l Ckg	
				Wage Works FSA Direct Debits - Feb. 2016	1012 - Bank of America Gen'l Ckg	81.50
				Wage Works FSA Direct Debits - Feb. 2016	1012 - Bank of America Gen'l Ckg	692.14
				Wage Works FSA Direct Debits - Feb. 2016	1012 - Bank of America Gen'l Ckg	692.14
TOTAL						<u>1,465.78</u>
					<b>Total Disbursements:</b>	<u><u>451,514.01</u></u>





# 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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PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: April 14, 2016  
TO: Pool Committee Members  
SUBJECT: VISA Check Detail Report - Financial Report B2 (February 29, 2016)

### SUMMARY

Issue: Record of VISA credit card payment disbursed for the month of February 29, 2016.

Recommendation: Receive and file VISA Check Detail Report for February 29, 2016 as presented.

Financial Impact: Funds disbursed were included in the FY 2015/16 "Amended" Watermaster Budget.

### Future Consideration

Appropriative Pool: April 14, 2016; Receive and File  
Non-Agricultural Pool: April 14, 2016; Receive and File  
Agricultural Pool: April 14, 2016; Receive and File  
Advisory Committee: April 21, 2016; Receive and File  
Watermaster Board: April 28, 2016; Receive and File (Normal Course of Business)

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### ACTIONS:

April 14, 2016 – Appropriative Pool –  
April 14, 2016 – Non-Agricultural Pool –  
April 14, 2016 – Agricultural Pool –  
April 21, 2016 – Advisory Committee –  
April 28, 2016 – Watermaster Board –

## BACKGROUND

A monthly VISA Check Detail report is provided to keep all members apprised of Watermaster expenditures charged against the General Manager and Chief Financial Officer's Bank of America VISA card.

## DISCUSSION

The total cash disbursement during the month of February 2016 was \$5,397.78. The payment was processed by check number 19250 dated February 24, 2016. The monthly charges for February 2016 of \$5,397.78 were for routine and customary expenditures and properly documented with receipts.

## ATTACHMENTS

1. Financial Report - B2

CHINO BASIN WATERMASTER  
 VISA Check Detail Report  
 February 2016

Type	Num	Date	Name	Memo	Account	Paid Amount
Bill Pmt -Check	02/24/2016	19250	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2016	XXXX-XXXX-XXXX-9341		Purchase book "Scaling Up" for GM	6031.7 · Other Office Supplies	19.04
				Purchase USB wall charger/plug for CFO phone	6031.7 · Other Office Supplies	12.41
				Purchase USB cable for CFO phone	6031.7 · Other Office Supplies	8.63
				Purchase data cable for CFO phone	6031.7 · Other Office Supplies	6.95
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	95.91
				Purchase copy paper	6031.1 · Copy Paper	127.96
				Purchase shirts w/logo for new field staff	6154 · Uniforms	306.06
				Send legal docs to Stradling Yocca Carlson Rauth	6042 · Postage - General	54.98
				Purchase vehicle batteries for WM trucks	6177 · Vehicle Repairs & Maintenance	283.47
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	60.96
				Purchase copy paper	6031.1 · Copy Paper	159.95
				Mail legal filings-from 2/1/16 to board, pool chairs	6042 · Postage - General	147.95
				Purchase Adobe Acrobat upgrade software	6054 · Computer Software	199.00
				Service call: check/adjust boardroom microphones	6024 · Building Repair & Maintenance	250.00
				License for FTP server support & implementation	6054 · Computer Software	1,330.00
				Service call: reset voltage controller in boardroom	6024 · Building Repair & Maintenance	250.00
				PK breakfast for meeting in Sacramento	6191 · Conferences - General	7.90
				Airport parking-PK-attend meeting in Sacramento	6191 · Conferences - General	18.00
				Deposit hold-2/17/16 Vistage Mtg. hosted by PK	6191 · Conferences - General	175.00
				PK meeting w/Ontario - J. Bowman, S. Burton	6312 · Meeting Expenses	59.25
				PK meeting w/B. Kuhn, D. DeJesus	6312 · Meeting Expenses	25.80
				PK meeting w/J. Grindstaff IEUA	8312 · Meeting Expenses	31.16
				Lunch for management between meetings	6141.3 · Admin Meetings	65.08
				PK meeting w/Upland - T. Thomas, R. Hoerning	6312 · Meeting Expenses	51.79
				Photographer-new Board members, Pool Chairs	6147 · Other Admin Expenses	350.00
				Lunch for management for court filing coordination	6141.3 · Admin Meetings	25.88
				PK meeting w/B. DiPrimio	6909.1 · OBMP Meetings	25.47
				Reg.-Nakano, Yoo-2/17/2016 AGWA-AGWT Conf.	6193.2 · Conference - Registration Fee	420.00
				Reg.-Zapien-2/17/2016 AGWA-AGWT Conference	6193.2 · Conference - Registration Fee	195.00
				Final payment-2/17/16 Vistage mtg. hosted by PK	6191 · Conferences - General	634.18
					<b>Total Disbursements:</b>	<b><u>5,397.78</u></b>

TOTAL

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# CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: April 14, 2016  
TO: Pool Committee Members  
SUBJECT: Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2015 through February 29, 2016 - Financial Report B3 (February 29, 2016)

### SUMMARY

Issue: Record of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2015 through February 29, 2016.

Recommendation: Receive and file Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2015 through February 29, 2016 as presented.

Financial Impact: Funds disbursed were included in the FY 2015/16 "Amended" Watermaster Budget.

### Future Consideration

Appropriative Pool: April 14, 2016; Receive and File  
Non-Agricultural Pool: April 14, 2016; Receive and File  
Agricultural Pool: April 14, 2016; Receive and File  
Advisory Committee: April 21, 2016; Receive and File  
Watermaster Board: April 28, 2016; Receive and File (Normal Course of Business)

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### ACTIONS:

April 14, 2016 – Appropriative Pool –  
April 14, 2016 – Non-Agricultural Pool –  
April 14, 2016 – Agricultural Pool –  
April 21, 2016 – Advisory Committee –  
April 28, 2016 – Watermaster Board –

## BACKGROUND

A Combining Schedule of Revenue, Expenses and Changes in Net Assets for the period July 1, 2015 through February 29, 2016 is provided to keep all members apprised of the FY 2015/16 cumulative Watermaster revenues, expenditures and changes in net assets for the period listed.

## DISCUSSION

The Combining Schedule of Revenue, Expenses and Changes in Net Assets has been created from various financial reports and statements created from Intuit QuickBooks Enterprise Solutions 15.0, the Watermaster accounting system. The Combining Schedule provided balances to the supporting documentation in the Watermaster accounting system as presented.

## ATTACHMENTS:

1. Financial Report - B3

CHINO BASIN WATERMASTER  
COMBINING SCHEDULE OF REVENUE, EXPENSES AND CHANGES IN NET ASSETS  
FOR THE PERIOD JULY 1, 2015 THROUGH FEBRUARY 29, 2016

Financial Report - B3

WATERMASTER ADMINISTRATION	OPTIMUM BASIN MANAGEMENT	POOL ADMINISTRATION & SPECIAL PROJECTS			GROUNDWATER OPERATIONS		LAIF VALUE ADJ.	GASB 68 BEG. NET POSITION	GRAND TOTALS	AMENDED BUDGET 2015-2016
		APPROPRIATIVE POOL	AG POOL	NON-AG POOL	GROUNDWATER REPLENISHMENT	SB222 FUNDS				
Administrative Revenues:										
Administrative Assessments		3,569,781		151,739					3,721,520	8,934,215
Interest Revenue		9,201	837	60					10,098	22,050
Mutual Agency Project Revenue	157,349								157,349	157,941
Miscellaneous Income									-	0
<b>Total Revenues</b>	<b>157,349</b>	<b>3,578,982</b>	<b>837</b>	<b>151,800</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,888,968</b>	<b>9,114,206</b>
Administrative & Project Expenditures:										
Watermaster Administration	920,567								920,567	1,227,268
Watermaster Board-Advisory Committee	104,871								104,871	222,418
Ag Pool Misc. Expense - Ag Fund									-	400
Pool Administration		32,814	263,399	69,404					365,617	595,933
Optimum Basin Mgmt Administration		1,300,289							1,300,289	1,473,093
OBMP Project Costs		1,377,620							1,377,620	3,525,355
Debt Service		304,376							304,376	460,200
Basin Recharge Improvements		386,128							386,128	3,472,477
Mutual Agency Project Costs									-	10,000
<b>Total Administrative/OBMP Expenses</b>	<b>1,025,438</b>	<b>3,368,412</b>	<b>32,814</b>	<b>263,399</b>	<b>69,404</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,759,468</b>	<b>10,987,144</b>
Net Administrative/OBMP Expenses	(868,089)	(3,368,412)								
Allocate Net Admin Expenses To Pools	868,089		628,491	211,068	28,530					
Allocate Net OBMP Expenses To Pools		2,677,909	1,938,789	651,109	88,010					
Allocate Debt Service to App Pool		304,376	304,376							
Allocate Basin Recharge to App Pool		386,128	386,128							
Agricultural Expense Transfer*			1,125,576	(1,125,576)						
<b>Total Expenses</b>			<b>4,416,174</b>	<b>-</b>	<b>185,944</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,759,468</b>	<b>10,987,144</b>
<b>Net Administrative Income</b>			<b>(837,192)</b>	<b>837</b>	<b>(34,145)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(870,499)</b>	<b>(1,872,938)</b>
Other Income/(Expense)										
Replenishment Water Assessments									-	0
Non-Ag Stored Water Purchases									-	0
Exhibit "G" Non-Ag Pool Water									-	0
Interest Revenue						2,403			2,403	0
MWD Water Purchases									-	0
Non-Ag Stored Water Purchases									-	0
Exhibit "G" Non-Ag Pool Water									-	0
MWD Water Purchases									-	0
Groundwater Replenishment									-	0
LAIF - Fair Market Value Adjustment									-	0
Other Post-Employment Benefits (OPEB)									-	0
Refund-Excess Reserves									-	0
Refund-Recharge Debt									-	0
<b>Net Other Income/(Expense)</b>			<b>-</b>	<b>-</b>	<b>-</b>	<b>2,403</b>	<b>-</b>	<b>-</b>	<b>2,403</b>	<b>0</b>
<b>Net Transfers To/(From) Reserves</b>	<b>(868,096)</b>	<b>(837,192)</b>	<b>837</b>	<b>(34,145)</b>	<b>2,403</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(868,096)</b>	<b>(1,872,938)</b>
<b>Net Assets, July 1, 2015</b>		<b>6,346,620</b>	<b>481,130</b>	<b>69,774</b>	<b>1,388,080</b>	<b>158,251</b>	<b>3,446</b>	<b>(740,195)</b>	<b>7,707,106</b>	
<b>Net Assets, End of Period</b>		<b>5,509,428</b>	<b>481,968</b>	<b>35,629</b>	<b>1,390,482</b>	<b>158,251</b>	<b>3,446</b>	<b>(740,195)</b>	<b>6,839,009</b>	<b>6,839,009</b>
<b>13/14 Assessable Production</b>		<b>100,165,551</b>	<b>33,638,883</b>	<b>4,546,972</b>					<b>138,351,406</b>	
<b>13/14 Production Percentages</b>		<b>72.399%</b>	<b>24.314%</b>	<b>3.287%</b>					<b>100.000%</b>	

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

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# CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: April 14, 2016  
TO: Pool Committee Members  
SUBJECT: Treasurer's Report of Financial Affairs for the Period February 1, 2016 through February 29, 2016 - Financial Report B4 (February 29, 2016)

### SUMMARY

Issue: Record of increases or decreases in the cash position, assets and liabilities of Watermaster for the Period of February 1, 2016 through February 29, 2016.

Recommendation: Receive and file Treasurer's Report of Financial Affairs for the Period February 1, 2016 through February 29, 2016 as presented.

Financial Impact: Funds disbursed were included in the FY 2015/16 "Amended" Watermaster Budget.

### Future Consideration

Appropriative Pool: April 14, 2016; Receive and File  
Non-Agricultural Pool: April 14, 2016; Receive and File  
Agricultural Pool: April 14, 2016; Receive and File  
Advisory Committee: April 21, 2016; Receive and File  
Watermaster Board: April 28, 2016; Receive and File (Normal Course of Business)

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### ACTIONS:

April 14, 2016 – Appropriative Pool –  
April 14, 2016 – Non-Agricultural Pool –  
April 14, 2016 – Agricultural Pool –  
April 21, 2016 – Advisory Committee –  
April 28, 2016 – Watermaster Board –

## BACKGROUND

A Treasurer's Report of Financial Affairs for the Period February 1, 2016 through February 29, 2016 is provided to keep all members apprised of the total cash in banks (Bank of America, LAIF, and CalTRUST) 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) and/or CalTRUST, 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 Intuit QuickBooks Enterprise Solutions 15.0, 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.

## ATTACHMENTS

1. Financial Report - B4

**CHINO BASIN WATERMASTER  
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD  
FEBRUARY 1, 2016 THROUGH FEBRUARY 29, 2016**

Financial Report - B4

**DEPOSITORIES:**

Cash on Hand - Petty Cash			\$	500
Bank of America				
Governmental Checking-Demand Deposits	\$	109,244		
Zero Balance Account - Payroll	\$	-		109,244
Local Agency Investment Fund - Sacramento				8,463,927
<b>TOTAL CASH IN BANKS AND ON HAND</b>		<b>2/29/2016</b>	<b>\$</b>	<b>8,573,671</b>
<b>TOTAL CASH IN BANKS AND ON HAND</b>		<b>1/31/2016</b>		<b>9,025,181</b>
<b>PERIOD INCREASE (DECREASE)</b>			<b>\$</b>	<b>(451,510)</b>

**CHANGE IN CASH POSITION DUE TO:**

Decrease/(Increase) in Assets: Accounts Receivable			\$	(7,385)
Assessments Receivable				-
Prepaid Expenses, Deposits & Other Current Assets				1,381
(Decrease)/Increase in Liabilities: Accounts Payable				40,846
Accrued Payroll, Payroll Taxes & Other Current Liabilities				-
Long Term Liabilities				749
Transfer to/(from) Reserves				(487,101)
<b>PERIOD INCREASE (DECREASE)</b>			<b>\$</b>	<b>(451,510)</b>

**SUMMARY OF FINANCIAL TRANSACTIONS:**

	Petty Cash	Govt'l Checking Demand	Zero Balance Account Payroll	Local Agency Investment Funds	Totals
Balances as of 1/31/2016	\$ 500	\$ 35,754	\$ -	\$ 8,988,927	\$ 9,025,181
Deposits	-	525,004	-	-	525,004
Transfers	-	98,302	(73,371)	(525,000)	(500,069)
Withdrawals/Checks	-	(549,816)	73,371	-	(476,445)
<b>Balances as of 2/29/2016</b>	<b>\$ 500</b>	<b>\$ 109,244</b>	<b>\$ -</b>	<b>\$ 8,463,927</b>	<b>\$ 8,573,671</b>
<b>PERIOD INCREASE OR (DECREASE)</b>	<b>\$ -</b>	<b>\$ 73,490</b>	<b>\$ -</b>	<b>\$ (525,000)</b>	<b>\$ (451,510)</b>

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**CHINO BASIN WATERMASTER  
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD  
FEBRUARY 1, 2016 THROUGH FEBRUARY 29, 2016**

**INVESTMENT TRANSACTIONS**

Effective Date	Transaction	Depository	Activity	Redeemed	Days to Maturity	Interest Rate(*)	Maturity Yield
2/1/2016	Withdrawal		\$ (525,000)				
<b>TOTAL INVESTMENT TRANSACTIONS</b>			<b>\$ (525,000)</b>	<b>-</b>			

\* The earnings rate for L.A.I.F. is a daily variable rate; 0.37% was the effective yield rate at the Quarter ended December 31, 2015.

**INVESTMENT STATUS  
February 29, 2016**

<u>Financial Institution</u>	<u>Principal Amount</u>	<u>Number of Days</u>	<u>Interest Rate</u>	<u>Maturity Date</u>
Local Agency Investment Fund	\$ 8,463,927			
<b>TOTAL INVESTMENTS</b>	<b>\$ 8,463,927</b>			

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

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# CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: April 14, 2016  
TO: Pool Committee Members  
SUBJECT: Budget vs. Actual Report for the Period July 1, 2015 through February 29, 2016 -  
Financial Report B5 (February 29, 2016)

### SUMMARY

Issue: Record of revenues and expenses of Watermaster for the Period of July 1, 2015 through February 29, 2016.

Recommendation: Receive and file Budget vs. Actual Report for the Period July 1, 2015 through February 29, 2016 as presented.

Financial Impact: Funds disbursed were included in the FY 2015/16 "Amended" Watermaster Budget.

### Future Consideration

Appropriative Pool: April 14, 2016; Receive and File  
Non-Agricultural Pool: April 14, 2016; Receive and File  
Agricultural Pool: April 14, 2016; Receive and File  
Advisory Committee: April 21, 2016; Receive and File  
Watermaster Board: April 28, 2016; Receive and File (Normal Course of Business)

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### ACTIONS:

April 14, 2016 – Appropriative Pool –  
April 14, 2016 – Non-Agricultural Pool –  
April 14, 2016 – Agricultural Pool –  
April 21, 2016 – Advisory Committee –  
April 28, 2016 – Watermaster Board –

## BACKGROUND

A Budget vs. Actual Report for the period July 1, 2015 through February 29, 2016 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; Optimum Basin Management Program Expenses; Project Expenses; and Other Income/Expenses. The Budget vs. Actual report has been created from Intuit QuickBooks Enterprise Solutions 15.0, 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.

## DISCUSSION

### CURRENT MONTH – FEBRUARY 2016

Year-To-Date (YTD) for the eight months ending February 29, 2016, all but six categories were at or below the projected budget. The categories over budget were Watermaster Legal Services expenses (6070's) which were over budget by \$38,808 or 26.6% as a result of increased miscellaneous legal expenses, additional personnel related expenses, and the unanticipated CCG Motion related legal expenses not budgeted for FY 2015/16; Training, Conferences and Seminars expenses (6190's) which were over budget by \$343 or 1.9% as a result of a membership in Vistage which provides leadership training and development which was not part of the original budget for FY 2015/16; Agricultural Legal Services expenses (8467) which were over budget by \$80,086 or 58.6% as a result of ongoing Safe Yield Redetermination and Reset efforts; Agricultural Pool Meeting Attendance expenses (8470's) which were over budget by \$5,425 or 36.7% as a result of the Agricultural Pool's Special Meetings which were not anticipated when the FY 2015/16 budget was developed; OBMP expenses (6900's) were over budget by \$246,042 or 24.7% as a result of engineering and legal services supporting the ongoing Safe Yield Redetermination and Reset efforts; and Production Monitoring expenses (7101's) which were over budget by \$16,621 or 43.9% as a direct result of ongoing efforts of Watermaster staff in production reporting.

The Watermaster budget for FY 2015/16 is divided into 12-monthly amounts and allocated accordingly. As the fiscal year progresses, several of the above listed categories might level out over time and be within the budget levels.

Overall, the Watermaster (YTD) Actual Expenses were \$3,584,268 or 43.0% below the (YTD) Budgeted Expenses of \$8,343,735.

### PREVIOUSLY REPORTED ACTIONS (Descending Order)

#### July 2015:

During the month of July 2015, the "Carry Over" funding was calculated. The Total "Carry Over" funding amount of \$1,872,937.85 has been posted to the general ledger accounts. The total amount of \$1,872,937.85 consisted of \$1,686,955.86 from Capital Improvement Projects, \$136,696 from Engineering Services, \$29,285.99 from Chino Hills ASR, and \$20,000 from the Administrative section for the Annual Reports. More detailed information is provided regarding this issue under the "Carry Over" Funding section.

The Amended Budget for FY 2015/16 is \$10,987,143.85 which includes \$1,872,937.85 for the prior years "Carry Over" funding. The Original Approved budget for FY 2015/16 of \$9,114,206 was approved by the Watermaster Board on May 28, 2015 ( $\$9,114,206 + \$1,872,937.85 = \$10,987,143.85$ ).

## SALARIES EXPENSE

### CURRENT MONTH – FEBRUARY 2016

As of February 29, 2016, the total (YTD) Watermaster salary expenses were \$52,369 or 5.0% below the (YTD) budgeted amount of \$1,051,585. The overall staffing budget was developed with a staffing level of

nine Full-Time Equivalents (FTE's), and staffing is currently at eight Full-Time Equivalents (FTE's).

Watermaster started the recruitment process for the Water Resources professional position on March 16, 2016. It is expected that the recruitment process could take between two to three months before a new hire would start.

Watermaster utilizes an in-house database time and attendance system to track and record staff's actual hours worked and records those hours to a specific project or activity. This time and attendance database of captured staff hours and activities is the basis for the bi-weekly payrolls which are processed using an external payroll processing service. Watermaster staff can record time to a large number of activities but the five most used categories are as follows (1) General Administrative activities; (2) Paid Leaves of vacation, sick or holiday; (3) Pools, Advisory or Board Meeting attendance; (4) OBMP activities; and (5) OBMP Implementation Program Elements 1 through 9 activities.

When the FY 2015/16 budget was developed, basic assumptions were used in allocating how staff's time would be spent and on which of the projects or activities. The staffing dollars were then allocated into those specific areas and budgeted on a 1/12 monthly budget. When actual staffing activities vary from the budgeted assumptions, a positive or negative variance can be created. Currently, the allocations are tracking within budget.

The table summarizes the Year-To-Date (YTD) Actual Watermaster salary costs compared to the Year-To-Date (YTD) Budget as of February 29, 2016. Please be advised that the "\$ Over Budget" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	<u>Jul '15 - Feb '16</u> <u>Actual</u>	<u>Jul '15 - Feb '16</u> <u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>	<u>FY 2015/16</u> <u>Annual Budget</u>
<b>WM Salary Expense</b>					
6011 · WM Staff Salaries	575,979.14	568,105.00	7,874.14	101.39%	848,891.00
6017 · Temporary Services	0.00	14,000.00	-14,000.00	0.0%	21,000.00
6017.2 · Office Specialist Services	7,385.46	0.00	7,385.46	100.0%	0.00
6201 · Advisory Committee - WM Staff Salaries	10,855.14	14,906.00	-4,050.86	72.82%	22,274.00
6301 · Watermaster Board - WM Staff Salaries	20,223.84	24,680.00	-4,456.16	81.94%	36,879.00
8301 · Appropriative Pool - WM Staff Salaries	20,879.87	19,889.00	990.87	104.98%	29,719.00
8401 · Agricultural Pool - WM Staff Salaries	14,014.83	17,460.00	-3,445.17	80.27%	26,090.00
8501 · Non-Agricultural Pool - WM Staff Salaries	12,310.64	10,422.00	1,888.64	118.12%	15,574.00
6901 · OBMP - WM Staff Salaries	89,966.64	83,459.00	6,507.64	107.8%	124,709.00
7101.1 · Production Monitor - WM Staff Salaries	53,962.44	37,341.00	16,621.44	144.51%	55,797.00
7102.1 · In-line Meter - WM Staff Salaries	3,610.98	6,166.00	-2,555.02	58.56%	9,212.00
7103.1 · Grdwater Quality - WM Staff Salaries	5,078.10	36,481.00	-31,402.90	13.92%	54,511.00
7104.1 · Grdwater Level - WM Staff Salaries	40,843.95	28,407.00	12,436.95	143.78%	42,447.00
7108.1 · Hydraulic Control - WM Staff Salaries	0.00	1,649.00	-1,649.00	0.0%	2,464.00
7108.11 · Prado Basin - WM Staff Salaries	3,587.65	5,558.00	-1,970.35	64.55%	8,305.00
7201 · Comp Recharge - WM Staff Salaries	36,859.08	29,619.00	7,240.08	124.44%	44,259.00
7301 · PE3&5 - WM Staff Salaries	0.00	9,966.00	-9,966.00	0.0%	14,892.00
7401 · PE4 - WM Staff Salaries	129.67	6,052.00	-5,922.33	2.14%	9,042.00
7501.1 · PE 6&7 - WM Staff Salaries (Plume)	0.00	4,512.00	-4,512.00	0.0%	6,743.00
7501 · PE6&7 - WM Staff Salaries	0.00	2,934.00	-2,934.00	0.0%	4,383.00
7601 · PE8&9 - WM Staff Salaries	0.00	8,185.00	-8,185.00	0.0%	12,231.00
<b>Subtotal WM Staff Costs</b>	<b>895,687.43</b>	<b>929,791.00</b>	<b>-34,103.57</b>	<b>96.33%</b>	<b>1,389,422.00</b>
60185 · Vacation	55,708.17	48,319.00	7,389.17	115.29%	72,479.00
60186 · Sick Leave	8,546.66	30,937.00	-22,390.34	27.63%	46,405.00
60187 · Holidays	39,273.50	42,538.00	-3,264.50	92.33%	46,405.00
<b>Subtotal WM Paid Leaves</b>	<b>103,528.33</b>	<b>121,794.00</b>	<b>-18,265.67</b>	<b>85.0%</b>	<b>165,289.00</b>
<b>Total WM Salary Costs</b>	<b>999,215.76</b>	<b>1,051,585.00</b>	<b>-52,369.24</b>	<b>95.02%</b>	<b>1,554,711.00</b>

PREVIOUSLY REPORTED ACTIONS (Descending Order)

January 2016:

Watermaster completed the recruiting process for the position of Field Operations Specialist which became vacant as of August 27, 2015. Rick Zapien started on Monday, January 4, 2016.

On September 16, 2015, Office Specialist/Receptionist was placed on Pregnancy Disability Leave (PDL) by her physician. Based upon the PDL leave and concurrently running FMLA leave, the employee was scheduled, and did return on Monday, February 22, 2016. During her absence, Watermaster utilized a temporary employee to perform the duties and responsibilities.

LEGAL SERVICES

BROWNSTEIN HYATT FARBER SCHRECK EXPENSES

CURRENT MONTH – FEBRUARY 2016

As of February 29, 2016, the total (YTD) Watermaster Legal Services expenses (consolidating the three categories of Watermaster Administrative Legal Services, Pool/Advisory/Board Meeting legal expenses, and OBMP legal expenses) were \$238,118 or 37.7% above the (YTD) budgeted amount of \$632,176. The Watermaster Legal Services budget was developed jointly by the Watermaster staff and Brownstein Hyatt Farber Schreck staff with specific assumptions regarding the tasks and legal activities that would occur during FY 2015/16. The "Approved" budget amount was adopted for the amount of \$933,815. The total budget was developed by multiplying the number of hours that would be required to complete the specific tasks by the hourly rate.

WATERMASTER ADMINISTRATIVE LEGAL SERVICES:

Overall, the Watermaster Administrative Legal Services expense (6070's), as of February 29, 2016, was \$38,808 or 26.6% above the budgeted amount of \$146,165. The specific items within the Administrative Legal Services expenses (6070's) which were under budget were the expenses for Court Coordination (6071) under budget by \$9,941 or 36.4%; Annotated Judgment (6072) under budget by \$26,766 or 100.0%; Interagency Issues (6074) under budget by \$20,400 or 100.0%; and the Party Status Maintenance (6077) under budget by \$18,674 or 97.6%. The specific items within the Administrative Legal Services expenses (6070's) which were over budget were the expenses for Personnel Matters (6073) over budget by \$20,507 or 70.7%; Miscellaneous (6078) over budget by \$91,002 or 386.2%; and CCG Motion (6078.12) over budget by \$3,080 or 100.0%.

Personnel Matters: As reported during the previous monthly meetings, Watermaster's legal counsel filed an appeal with CalPERS regarding CalPERS original determination (from February 2013) which rejected the base salary of the former CEO, Desi Alvarez, with regards to his retirement pension benefit. There have been several filings of appeal and we are awaiting CalPERS determination. On December 9, 2013 CalPERS notified the attorneys of record that the CalPERS Legal Office received the case on November 22, 2013 and we would be notified when the case has been assigned to an attorney who will represent CalPERS regarding the appeal. On February 27, 2014 the case was assigned to Wesley E. Kennedy, Senior Staff Attorney for CalPERS. On July 17, 2014 a document request from CalPERS was received by Watermaster related to the pending case. On August 22, 2014 the specific documents were provided to CalPERS. On September 9, 2014 Watermaster received the Notice of Hearing from CalPERS and the hearing has been scheduled for March 11-13, 2015 at the Glendale CalPERS Regional office. On October 1, 2014 Watermaster received from CalPERS a discovery request for Case No. 2013-1113. On December 31, 2014 Brownstein Hyatt Farber Schreck provided the information to Mr. Kennedy of CalPERS as requested on October 1, 2014. On January 16, 2015 a Prehearing conference along with a Settlement conference was conducted in Los Angeles. On March 2, 2015 a Motion to Continue was granted and the new Administrative Hearing (OAH Case No. 2014080757) was scheduled for November 16-18, 2015 at the Glendale CalPERS Regional Office. On September 28, 2015 the attorney for Mr. Alvarez (Mr. Jensen), at the suggestion of Mr. Kennedy, requested a short continuance of the OAH hearing because CalPERS has scheduled a full Board hearing on the claims of one of Mr. Jensen's clients for April 14, 2016 which is right in the middle of the three-day hearing scheduled for Mr. Alvarez's



case. On October 9, 2015, an Order Granting Continuance; Notice of New Hearing Dates was provided by the State of California, Department of General Services, Office of Administrative Hearings. The administrative hearing was rescheduled for January 4-6, 2016 at the Glendale CalPERS Regional Office. On October 14, 2015 a Notice of Case Reassignment was received from the CalPERS providing notice that OAH Case No. 2014080757 has been reassigned from attorney Wesley Kennedy to Preet Kaur, Staff Attorney. On November 20, 2015, a Request for Continuance was issued from CalPERS to reschedule the hearing to either the period of April 4 through April 6, 2016 or April 11 through April 15, 2016. On December 11, 2015, an Order Granting Continuance; Notice of New Hearing Dates was issued from the State of California, Department of General Services, Office of Administrative Hearings to reschedule the hearing to April 11-13, 2016.

WATERMASTER POOLS, ADVISORY AND BOARD LEGAL SERVICES:

The Pools, Advisory Committee and the Board meeting legal expenses from BHFS are captured by month within the accounts (6275, 6375, 8375, 8475 and 8575). Overall, this category of legal expenses as of February 29, 2016 was \$58,114 or 39.8% below the budgeted amount of \$145,844. Normal Brownstein Hyatt Farber Schreck meeting attendance during any given month includes attendance at all three pool meetings, one Advisory Committee meeting and one Board meeting. The Watermaster parties agreed that during the month of December 2015, the three Pools, the Advisory Committee and the Watermaster Board meetings would not be held, adding additional cost savings to this category.

OBMP LEGAL SERVICES:

The OBMP legal expenses (accounts 6907.31 through 6907.90) were above the budget for the month. As of February 29, 2016 the category of OBMP legal expenses were \$257,424 or 75.7% above the budgeted amount of \$340,167. The majority of expenses within this OBMP category were under budget (Y-T-D), however, the BHFS Safe Yield Redetermination and Reset legal expenses (6907.42) continue to increase and exceed the monthly budget. As of February 29, 2016, the Safe Yield Redetermination and Reset legal expenses were \$445,730 or 431.5% above the budgeted amount of \$103,300. It should be noted that the 12-month annual legal budget for the Safe Yield Redetermination and Reset category was approved at an amount of \$103,300 and anticipated to be allocated within the first six months of the FY 2015/16 (July 2015 – December 2015). The approved BHFS legal budget anticipated 230 labor hours for consolidated legal staff time with regards to the Safe Yield Redetermination and Reset effort. The Mid-Year Review presentation during the February 2016 meetings discussed the anticipated over budget of the Safe Yield Redetermination and Reset category. The presentation suggested that in the next few months a Budget Amendment would be proposed to add additional budget to this category and the funding would come from the FY 2015/16 OBMP Budget Reserves. The OBMP Budget Reserve amount is calculated at 15% of the OBMP Approved Budget which is \$715,363 ( $\$4,769,087 \times 15\% = \$715,363$ ) for FY 2015/16.

The table listed below summarizes the Brownstein Hyatt Farber Schreck (BHFS) expenses as of February 29, 2016 compared to the Year-To-Date (YTD) budget. Please be advised that the "\$ Over Budget" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '15 - Feb '16 Actual	Jul '15 - Feb '16 Budget	\$ Over Budget	% of Budget	FY 2015/16 Annual Budget
<b>6070 · Watermaster Legal Services</b>					
6071 · BHFS Legal - Court Coordination	17,358.86	27,300.00	-9,941.14	63.59%	40,950.00
6072 · BHFS Legal - Annotated Judgment	0.00	26,766.00	-26,766.00	0.0%	40,150.00
6073 · BHFS Legal - Personnel Matters	49,506.93	29,000.00	20,506.93	170.71%	80,700.00
6074 · BHFS Legal - Interagency Issues	0.00	20,400.00	-20,400.00	0.0%	30,600.00
6076 · BHFS Legal - Storage Issues	0.00	0.00	0.00	0.0%	0.00
6077 · BHFS Legal - Party Status Maintenance	459.00	19,133.00	-18,674.00	2.4%	28,700.00
6078 · BHFS Legal - Miscellaneous (Note 1)	114,568.33	23,566.00	91,002.33	486.16%	35,350.00
6078.12 · BHFS Legal - CCG Motion	3,079.82	0.00	3,079.82	100.0%	0.00
<b>Total 6070 · Watermaster Legal Services</b>	<b>184,972.94</b>	<b>146,165.00</b>	<b>38,807.94</b>	<b>126.55%</b>	<b>256,450.00</b>
<b>6275 · BHFS Legal - Advisory Committee</b>	<b>11,025.05</b>	<b>13,600.00</b>	<b>-2,574.95</b>	<b>81.07%</b>	<b>20,400.00</b>
6375 · BHFS Legal - Board Meeting	43,024.01	71,044.00	-28,019.99	60.56%	106,565.00
8375 · BHFS Legal - Appropriative Pool	11,475.86	20,400.00	-8,924.14	56.25%	30,600.00
8475 · BHFS Legal - Agricultural Pool	10,853.64	20,400.00	-9,546.36	53.2%	30,600.00
8575 · BHFS Legal - Non-Ag Pool	11,351.76	20,400.00	-9,048.24	55.65%	30,600.00
<b>Total BHFS Legal Services</b>	<b>87,730.32</b>	<b>145,844.00</b>	<b>-58,113.68</b>	<b>60.15%</b>	<b>218,765.00</b>
<b>6907.3 · WM Legal Counsel</b>					
6907.31 · Archibald South Plume	0.00	16,333.33	-16,333.33	0.0%	24,500.00
6907.32 · Chino Airport Plume	0.00	16,333.33	-16,333.33	0.0%	24,500.00
6907.33 · Desalter/Hydraulic Control	0.00	32,600.00	-32,600.00	0.0%	48,900.00
6907.34 · Santa Ana River Water Rights	2,517.85	16,866.67	-14,348.82	14.93%	25,300.00
6907.36 · Santa Ana River Habitat	964.80	13,133.33	-12,168.53	7.35%	19,700.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	9,566.67	-9,566.67	0.0%	14,350.00
6907.39 · Recharge Master Plan	8,042.80	45,400.00	-37,357.20	17.72%	68,100.00
6907.40 · Storage Agreements	535.50	57,400.00	-56,864.50	0.93%	86,100.00
6907.41 · Prado Basin Habitat Sustainability	5,704.65	9,566.67	-3,862.02	59.63%	14,350.00
6907.42 · Safe Yield Recalculation	549,029.54	103,300.00	445,729.54	531.49%	103,300.00
6907.44 · SGMA Compliance	30,795.20	0.00	30,795.20	100.0%	0.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	19,666.67	-19,666.67	0.0%	29,500.00
<b>Total 6907 · WM Legal Counsel</b>	<b>597,590.34</b>	<b>340,166.67</b>	<b>257,423.67</b>	<b>175.68%</b>	<b>458,600.00</b>
<b>Total Brownstein, Hyatt, Farber, Schreck Costs</b>	<b>870,293.60</b>	<b>632,175.67</b>	<b>238,117.93</b>	<b>137.67%</b>	<b>933,815.00</b>

Note 1: The types of legal activities that have been charged against the "Miscellaneous" legal category account 6078 are as follows: (1) Correspondence and discussions with Watermaster staff regarding current issues/topics; (2) Correspondence with Watermaster staff regarding special projects (assessment package, annual report, audit report, business plan, etc.); (3) Brownstein's status review of ongoing Watermaster projects and issues; (4) Brownstein's update of the outstanding issues list; (5) Coordination of ongoing Watermaster projects; (6) Review of draft documents; (7) Review transfer documents; (8) Land Subsidence Committee reports/meetings; (9) Review process and criteria for re-appointment of the Watermaster 9 member Board; (10) Review current California issued drought regulations; (11) Review and comment on Waters of the United States rule making; (12) Review and draft documents for basin boundary regulations; and (13) Miscellaneous legal research on current and pending issues.

## OBMP ENGINEERING SERVICES AND LEGAL COSTS

### CURRENT MONTH – FEBRUARY 2016

Reviewing in total the OBMP Engineering Services and Legal Costs (consolidating the four categories of OBMP Watermaster Staff and SAWPA, OBMP Engineering Services, OBMP Legal Costs, and OBMP Other Expenses) for the eight month period ending February 29, 2016, the actual expenses of \$1,243,329 were above the budgeted amount of \$997,287 by \$246,043 or 24.7%. For a detailed discussion, the following is provided.

For February 29, 2016, the accounts 6901-6903 (Optimum Basin Mgmt Program) section was above the Year-To-Date (YTD) budget by \$6,167 or 6.4%. Watermaster utilizes an in-house database time and attendance system to record and document staff's actual hours worked and also allocates those hours to a specific project or activity. Watermaster staff time could be charged to Administrative, OBMP, or Implementation Project categories. Recently, Watermaster staff spent more time on specific OBMP

related areas and less time on administrative related tasks. As a result, Watermaster staff allocated more actual time to the OBMP project as budgeted, which resulted in an over budget variance of \$6,508 or 7.8%. The remaining expense was the Santa Ana Watershed Project Authority (SAWPA) FY 2015/16 Basin Monitoring Program Task Force Contribution which was budgeted at \$12,500 but actual expenses were billed at \$12,159 which was below the budget by \$341 or 2.7% as of February 29, 2016.

For February 29, 2016, the accounts 6906 (Optimum Basin Mgmt Program Engineering Services) section was below the Year-To-Date (YTD) budget by \$11,679 or 2.1%. For FY 2015/16, the OBMP-Safe Yield Redetermination and Reset expenses (6906.73) did not have a budget amount assigned. For the month of February 2016, there were no expenses charged to the OBMP-Safe Yield Redetermination and Reset expenses. As of the Year-To-Date (YTD), this account was over budget by \$91,685 or 100.0%. The OBMP-Watermaster Model Update and the Material Physical Injury Request expenses had a budget provided for the month, but there was a small amount of activity and Engineering expenses recorded for this period. These two expenses, along with several other engineering related line items within the (6906's) assisted in reducing the overall budget variance and is a large factor as to why this expense category was under budget for the month.

Within the category 6907 (Optimum Basin Mgmt Program Legal Fees) are the remaining Brownstein Hyatt Farber Schreck (BHFS) Watermaster's legal expenses. Within the legal expense category, some individual line item activities were above the budget by \$476,525 while some other line item activities were below the budget by \$219,101. Above the budget line items were the Safe Yield Redetermination and Reset of \$445,730; and the SGMA Compliance of \$30,795. Please note the SGMA Compliance is a new GL account created in January 2016 to capture these costs. The individual legal projects/activities that were below budget for the Year-To-Date (YTD) period were the Archibald South Plume of \$16,333; the Chino Airport Plume of \$16,333; the Desalter/Hydraulic Control of \$32,600; the Santa Ana River Water Rights of \$14,349; the Santa Ana River Habitat of \$12,169; the Regional Water Quality Control Board of \$9,567; the Recharge Master Plan of \$37,357; Storage Agreements of \$56,864; the Prado Basin Habitat Sustainability of \$3,862; and the WM Unanticipated of \$19,667. For the eight months ended February 29, 2016, the overall cumulative (YTD) budget was \$340,167 and the actual (BHFS) legal expenses totaled \$597,590 which resulted in an over budget variance of \$257,424 or 75.7%.

As mentioned in the Brownstein Hyatt Farber Schreck section, the annual legal budget for the Safe Yield Redetermination and Reset was approved at an amount of \$103,300. The approved BHFS legal budget anticipated 230 labor hours for consolidated legal staff time with regards to the Safe Yield Redetermination and Reset effort. The budget assumed these expenses would be recorded during the period of July 2015 through December 2015. The Mid-Year Review presentation during the February 2016 meetings discussed the anticipated over budget of the Safe Yield Redetermination and Reset category. The presentation suggested that in the next few months a Budget Amendment would be proposed to add additional budget to this category and the funding would come from the FY 2015/16 OBMP Budget Reserves. The OBMP Budget Reserve amount is calculated at 15% of the OBMP Approved Budget which is \$715,363 ( $\$4,769,087 \times 15\% = \$715,363$ ) for FY 2015/16.

The OBMP Other Expenses (6909's) were below the budget for the month. These expenses are typically conference calls, meeting expenses, supplies, annual inspection fees, and other miscellaneous type expenses. As of February 29, 2016 this category of expenses was \$5,869 or 65.2% below the budgeted amount of \$9,000.

The Integrated Resource Plan expenses (6910's) and the Preparation of a Compliance Demonstration for Stormwater Recharge expenses (6910's) are billed directly to IEUA on the following month once the payment has been issued to Wildermuth Environmental, Inc. per the contract. As of February 29, 2016 this category of expenses was fully invoiced to IEUA in the amount of \$58,123.

Overall, the Optimum Basin Management Program (OBMP) category was \$1,243,329 compared to a (YTD) budget of \$997,287 for an over budget of \$246,042 or 24.7% as of February 29, 2016.

The table listed below summarizes the Optimum Basin Management Program (OBMP) expenses as of February 29, 2016 compared to the Year-To-Date (YTD) budget. Please be advised that the "\$ Over Budget" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '15 - Feb '16 Actual	Jul '15 - Feb '16 Budget	\$ Over Budget	% of Budget	FY 2015/16 Annual Budget
6900 · Optimum Basin Mgmt Plan					
6901 · WM Staff Salaries	89,966.64	83,459.00	6,507.64	107.8%	124,709.00
6903 · OBMP SAWPA Group	12,159.00	12,500.00	-341.00	97.27%	12,500.00
Total 6901-6903 · OBMP WM Staff/SAWPA	102,125.64	95,959.00	6,166.64	106.43%	137,209.00
6906 · OBMP Engineering Services					
6906.1 · OBMP - Watermaster Model Update	202,071.80	248,302.22	-46,230.42	81.38%	279,340.00
6906.21 · State of the Basin Report	0.00	0.00	0.00	0.0%	0.00
6906.22 · Water Rights Compliance Reporting	15,593.75	16,269.32	-675.57	95.85%	24,404.00
6906.23 · SGMA Reporting Requirements	9,269.95	11,594.68	-2,324.73	79.95%	17,392.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	48,862.32	58,439.33	-9,577.01	83.61%	87,659.00
6906.32 · OBMP - Other General Meetings	15,142.60	21,918.00	-6,775.40	69.09%	32,877.00
6906.33 · OBMP - App. Pool Issue Resolution	0.00	36,642.67	-36,642.67	0.0%	54,964.00
6906.71 · OBMP - Data Requests - CBWM Staff	121,016.08	42,709.33	78,306.75	283.35%	64,064.00
6906.72 · OBMP - Data Requests - Non CBWM	7,706.75	25,472.00	-17,765.25	30.26%	38,208.00
6906.73 · OBMP - Safe Yield Recalculation	91,684.60	0.00	91,684.60	100.0%	0.00
6906.74 · OBMP - Mat'l Phy. Injury Requests	4,785.41	73,533.33	-68,747.92	6.51%	110,300.00
6906 · OBMP Engineering Services - Other	24,348.50	17,280.00	7,068.50	140.91%	25,920.00
Total 6906 · OBMP Engineering Services	540,481.76	552,160.88	-11,679.12	97.89%	735,128.00
6907 · OBMP Legal Fees					
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	16,333.33	-16,333.33	0.0%	24,500.00
6907.32 · Chino Airport Plume	0.00	16,333.33	-16,333.33	0.0%	24,500.00
6907.33 · Desalter/Hydraulic Control	0.00	32,600.00	-32,600.00	0.0%	48,900.00
6907.34 · Santa Ana River Water Rights	2,517.85	16,866.67	-14,348.82	14.93%	25,300.00
6907.36 · Santa Ana River Habitat	964.80	13,133.33	-12,168.53	7.35%	19,700.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	9,566.67	-9,566.67	0.0%	14,350.00
6907.39 · Recharge Master Plan	8,042.80	45,400.00	-37,357.20	17.72%	68,100.00
6907.40 · Storage Agreements	535.50	57,400.00	-56,864.50	0.93%	86,100.00
6907.41 · Prado Basin Habitat Sustainability	5,704.65	9,566.67	-3,862.02	59.63%	14,350.00
6907.42 · Safe Yield Recalculation	549,029.54	103,300.00	445,729.54	531.49%	103,300.00
6907.44 · SGMA Compliance	30,795.20	0.00	30,795.20	100.0%	0.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	19,666.67	-19,666.67	0.0%	29,500.00
Total 6907 · WM Legal Counsel	597,590.34	340,166.67	257,423.67	175.68%	458,600.00
Total 6907 · OBMP Legal Fees	597,590.34	340,166.67	257,423.67	175.68%	458,600.00
6909 · OBMP Other Expenses					
6909.1 · OBMP Meetings	1,816.27	1,000.00	816.27	181.63%	1,500.00
6909.3 · Other OBMP Expenses	1,315.00	1,333.33	-18.33	98.63%	2,000.00
6909.6 · OBMP Expenses - Miscellaneous	0.00	6,666.67	-6,666.67	0.0%	10,000.00
Total 6909 · OBMP Other Expenses	3,131.27	9,000.00	-5,868.73	34.79%	13,500.00
6910 · Integrated Resource Plan					
6910.1 · IRP Groundwater Modeling - WEI	58,122.75	0.00	58,122.75	100.0%	0.00
6910.15 · IRP Groundwater Modeling - IEUA	-58,122.75	0.00	-58,122.75	100.0%	0.00
Total 6910 · Integrated Resource Plan	0.00	0.00	0.00	0.0%	0.00
Total 6900 · Optimum Basin Mgmt Plan	1,243,329.01	997,286.55	246,042.46	124.67%	1,344,437.00

ENGINEERING SERVICES - OBMP IMPLEMENTATION PROJECTS COSTS  
WILDERMUTH ENVIRONMENTAL, INC.

CURRENT MONTH – FEBRUARY 2016

As of February 29, 2016, the total (YTD) Engineering Services expenses were \$561,260 or 28.9% below the (YTD) budget amount of \$1,940,458. The OBMP Implementation Projects (consolidated accounts

7100's – 7700's) were all (Under) budget as of February 29, 2016.

Wildermuth Environmental, Inc. provides Watermaster an Estimated Cost at Completion (ECAC) report each quarter. The purpose of this ECAC report is to update Watermaster on whether or not the Engineering Services budget will be above or below budget at the end of the fiscal year. If the Engineering Services budget is expected to be above budget at fiscal year-end, a Budget Amendment or Budget Transfer Form would need to be approved to ensure funding.

The Third quarter ECAC report is scheduled to be issued in mid-May 2016 for the period January 2016 through March 2016. Watermaster does not plan to present any Budget Transfers or Budget Amendments at this time.

#### PREVIOUSLY REPORTED ACTIONS (Descending Order)

##### February 2015:

The Second quarter ECAC report was provided as part of the FY 2015/16 Mid-Year Review during the February 2016 meetings. The ECAC report for the period ending December 31, 2015 showed a projected under budget of \$19,870. Watermaster does not plan to present any Budget Transfers or Budget Amendments at this time.

##### November 2015:

The First quarter ECAC report for the current fiscal year has been provided for the period ending September 30, 2015 and showed a projected over budget of \$30,411. The Second quarter ECAC report is scheduled to be issued in mid-February 2016 for the period July 2015 through December 2015.

##### July 2015:

The breakdown of the total FY 2015/16 Task Order amount of \$2,595,942 includes direct labor costs for Wildermuth Environmental, Inc. (80%) along with other direct charges such as equipment rental, laboratory fees, travel costs, reproduction costs, and outside professional services (20%).

The approved "Original" Engineering Services budget of \$2,595,942 was increased by "Carry Over" funding in the amount of \$136,696 to the "Amended" amount of \$2,732,638 for FY 2015/16 as provided in the Engineering Services Task Order. The "Carry Over" amount of \$136,696 from FY 2014/15 to the FY 2015/16 budget are expenses related to the ongoing long-term pumping test (\$9,813 for account 7107.2 and \$34,770 for account 7107.6), the PBHSP monitoring program (\$12,127 for account 7108.31 and \$35,986 for account 7108.41), the hydraulic control monitoring program Adaptive Management Plan (\$33,000 for account 7107.8), and expenses related to the upload of GeoTracker and EnviroStor data (\$11,000 for account 7502). All of the "Carry Over" funding is for projects or activities that have bridged previous fiscal years and are expected to be completed in the FY 2015/16 timeframe.

The table listed below summarized the Year-To-Date (YTD) Actual Wildermuth Environmental, Inc., (WEI) and other Engineering costs compared to the Year-To-Date (YTD) Budget as of February 29, 2016. Please be advised that the "\$ Over Budget" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '15 - Feb '16	Jul '15 - Feb '16	\$ Over Budget	% of Budget	FY 2015/16
	Actual	Budget			Annual Budget
6906 · OBMP Engineering Services - Other	24,348.50	17,280.00	7,068.50	140.91%	25,920.00
6906.1 · OBMP - Watermaster Model Update	202,071.80	248,302.22	-46,230.42	81.38%	279,340.00
6906.21 · State of the Basin Report	0.00	0.00	0.00	0.0%	0.00
6906.22 · Water Rights Compliance Reporting	15,593.75	16,269.32	-675.57	95.85%	24,404.00
6906.23 · SGMA Reporting Requirements	9,269.95	11,594.68	-2,324.73	79.95%	17,392.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	48,862.32	58,439.33	-9,577.01	83.61%	87,659.00
6906.32 · OBMP - Other General Meetings	15,142.60	21,918.00	-6,775.40	69.09%	32,877.00
6906.33 · OBMP - App. Pool Issue Resolution	0.00	36,642.67	-36,642.67	0.0%	54,964.00
6906.71 · OBMP - Data Requests - CBWM Staff	121,016.08	42,709.33	78,306.75	283.35%	64,064.00
6906.72 · OBMP - Data Requests - Non CBWM	7,706.75	25,472.00	-17,765.25	30.26%	38,208.00
6906.73 · OBMP - Safe Yield Recalculation	91,684.60	0.00	91,684.60	100.0%	0.00
6906.74 · OBMP - Mat'l Physical Injury Requests	4,785.41	73,533.33	-68,747.92	6.51%	110,300.00
7103.3 · Grdwtr Qual-Engineering	76,223.59	80,344.00	-4,120.41	94.87%	120,516.00
7103.5 · Grdwtr Qual-Lab Svcs	48,037.00	26,136.67	21,900.33	183.79%	39,205.00
7104.3 · Grdwtr Level-Engineering	118,794.94	117,620.00	1,174.94	101.0%	176,430.00
7104.8 · Grdwtr Level-Contracted Services	0.00	6,666.67	-6,666.67	0.0%	10,000.00
7104.9 · Grdwtr Level-Capital Equipment	0.00	5,250.00	-5,250.00	0.0%	7,000.00
7107.2 · Grd Level-Engineering	35,287.77	40,835.67	-5,547.90	86.41%	56,347.00
7107.3 · Grd Level-SAR Imagery	29,000.00	63,750.00	-34,750.00	45.49%	85,000.00
7107.6 · Grd Level-Contract Svcs	23,542.58	112,296.00	-88,753.42	20.97%	151,059.00
7107.8 · Grd Level-Capital Equipment	0.00	3,733.33	-3,733.33	0.0%	5,600.00
7108.3 · Hydraulic Control-Engineering	17,325.20	33,312.00	-15,986.80	52.01%	49,968.00
7108.31 · Hydraulic Control-PBHSP	83,785.16	90,139.67	-6,354.51	92.95%	129,146.00
7108.32 · Hydraulic Control-Adaptive Mgmt Plan	49,974.47	43,176.00	6,798.47	115.75%	43,176.00
7108.4 · Hydraulic Control-Lab Svcs	6,496.00	16,720.67	-10,224.67	38.85%	25,081.00
7108.41 · Hydraulic Control-PBHSP	22,930.00	44,726.00	-21,796.00	51.27%	49,096.00
7108.6 · Hydraulic Control-Outside Professionals	0.00	60,000.00	-60,000.00	0.0%	90,000.00
7108.7 · Hydraulic Control-Prado Basin Habitat	4,428.00	0.00	4,428.00	100.0%	0.00
7109.3 · Recharge & Well - Engineering	10,003.00	13,244.67	-3,241.67	0.0%	19,867.00
7202.2 · Comp Recharge-Engineering Services	59,317.47	106,336.00	-47,018.53	55.78%	159,504.00
7303 · PE3&5-Engineering - Other	0.00	15,589.33	-15,589.33	0.0%	23,384.00
7402 · PE4-Engineering	13,032.45	56,472.00	-43,439.55	23.08%	84,708.00
7402.10 · PE4-MZ1 Pomona Project	196,192.88	337,503.33	-141,310.45	58.13%	506,255.00
7403 · PE4-Contract Svcs	4,800.00	13,333.33	-8,533.33	36.0%	20,000.00
7502 · PE6&7-Engineering	25,009.75	58,226.67	-33,216.92	42.95%	81,840.00
7602 · PE8&9-Engineering	14,536.00	42,885.33	-28,349.33	33.9%	64,328.00
<b>Total Engineering Services Costs</b>	<b>1,379,198.02</b>	<b>1,940,458.22</b>	<b>-561,260.20</b>	<b>71.08%</b>	<b>2,732,638.00 *</b>

\* Wildermuth and Subcontractor Engineering Budget of \$2,595,942 plus Carryover Funds from FY 2014/15 of \$136,696 = \$2,732,638  
Carryover Funds from FY 2014/15 = \$9,813 (7107.2); \$34,770 (7107.6); \$12,127 (7108.31); \$35,986 (7108.41); \$33,000 (7108.7); and \$11,000 (7502) = \$136,696

## PRADO BASIN HABITAT SUSTAINABILITY PROGRAM

The Prado Basin Habitat Sustainability Program came about as a result of the Peace II Agreement SEIR mitigation measure 4.4-3 and was adopted by IEUA's Board in October, 2010. The purpose of the mitigation measure is to ensure that the Prado Basin riparian habitat will not be impacted by Hydraulic Control. The basic program tasks are to convene a committee that will develop this adaptive management plan, to install necessary monitoring wells, to complete vegetation and aerial surveys, and to implement photo station monitoring. In terms of the financial aspects of this program, there is a cost sharing agreement, which was approved by the Watermaster Board in September, 2012 for a total budget of \$440,000. The cost sharing agreement between IEUA and Watermaster was increased from \$220,000 to \$300,000 effective August 22, 2013 with the approval of the Board. This is a 50/50 cost sharing agreement between Watermaster and IEUA with a not to exceed amount of \$300,000 for each party. Included in that cost is hiring a consultant to develop the adaptive management plan, WEI performing the project management tasks related to the monitoring well installation, hiring a contractor to construct and install up to seventeen monitoring wells at nine separate sites, and United States Bureau of Reclamation

performing vegetation monitoring every three years. Grants have been applied for to offset the cost of this program; however, the Grants were not approved.

The process of invoicing IEUA for their 50% portion of the (WEI) invoices will be completed by Watermaster staff at the end of every quarter. The information listed below is provided for the period of May 1, 2012 through February 29, 2016:

	Wildermuth Environmental, Inc.	50% Billing "TO" IEUA	50% Billing "FROM" IEUA	Costs For Watermaster	Watermaster Staff "Hours"	Watermaster Staff "Costs"
May 2012 - Jun. 2012	\$ 11,143.75	\$ (5,571.88)	\$ -	\$ 5,571.88	4.00	\$ 411.38
Jul. 2012 - Jun. 2013	\$ 120,945.28	\$ (60,472.64)	\$ 6,275.92	\$ 66,748.56	73.00	\$ 7,837.27
Jul. 2013 - Jun. 2014	\$ 21,722.09	\$ (10,861.05)	\$ 474.09	\$ 11,335.14	56.00	\$ 5,719.30
Jul. 2014 - Jun. 2015	\$ 198,138.44	\$ (99,069.22)	\$ -	\$ 99,069.22	9.00	\$ 1,141.63
Jul. 2015 - Feb. 2016	\$ 4,428.00	\$ (2,214.00)	\$ -	\$ 2,214.00	30.00	\$ 3,587.65
<b>Totals</b>	<b>\$ 356,377.56</b>	<b>\$ (178,188.78)</b>	<b>\$ 6,750.01</b>	<b>\$ 184,938.79</b>	<b>172.00</b>	<b>\$ 18,697.23</b>
	7108.7	7108.71, 7108.72	7108.75			7108.11

#### OTHER INCOME AND EXPENSE

There were no other significant items to report within the category of Other Income and Expenses for the month ending February 29, 2016.

#### PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2015:

Per section VI.D.3 of the Groundwater Storage Program Funding Agreement No. 49960 in the Chino Basin with The Metropolitan Water District of Southern California, the FY 2015/16 annual administrative fee invoice was issued on July 1, 2015 in the amount of \$157,349.47 under invoice number DYY 15-01. On August 3, 2015 payment in the amount of \$157,349.47 was received from The Metropolitan Water District of Southern California.

#### "CARRY OVER" FUNDING

##### CURRENT MONTH – FEBRUARY 2016

As of February 29, 2016, the total (YTD) amount remaining of the "Carried Over" funding is \$1,476,243.40 (\$1,872,937.85 - \$396,694.45 = \$1,476,243.40). The following details are provided:

"Carried Over" Expenses At June 30, 2015

			<u>GL Account</u>		
Printing - Annual Report	\$ 5,000.00	A	6045	FY 2014/15	ADM
Rauch Communication Consultants - Annual Report	\$ 15,000.00	B	6061.3	FY 2014/15	ADM
Ground Level Monitoring - Engineering	\$ 9,813.00	C	7107.2 <sup>1</sup>	FY 2014/15	ENG
Ground Level - Contracted Services	\$ 34,770.00	D	7107.6 <sup>1</sup>	FY 2014/15	ENG
Chino Hills ASR Project	\$ 29,285.99	E	7107.62	FY 2014/15	ASR
Hydraulic Control Engineering - PBHSP	\$ 12,127.00	F	7108.31 <sup>2</sup>	FY 2014/15	ENG
Hydraulic Control Monitoring Lab Services - PBHSP	\$ 35,986.00	G	7108.41 <sup>2</sup>	FY 2014/15	ENG
Hydraulic Control Monitoring - Adaptive Mgmt Plan	\$ 33,000.00	H	7108.32 <sup>3</sup>	FY 2014/15	ENG
Jurupa Pumping Station (TO #5)	\$ 37,981.33	I	7209.1	FY 2014/15	PROJ
Wineville Basin Proof of Concept (TO #6)	\$ 35,397.53	J	7209.2	FY 2014/15	PROJ
PE 6&7 - Engineering Services	\$ 11,000.00	K	7502 <sup>4</sup>	FY 2014/15	ENG
Hickory Basin Recharge Improvement Project	\$ 3,877.00	L	7690.3	FY 2014/15	PROJ
San Sevaine Recharge Improvement Project (TO #8)	\$ 475,000.00	M	7690.4	FY 2014/15	PROJ
CB20 Turnout Noise Abatement Project	\$ 80,000.00	N	7690.5	FY 2014/15	PROJ
GWR SCADA Upgrades (TO #4)	\$ 383,200.00	O	7690.61	FY 2014/15	PROJ
SCADA Communication Upgrades (TO #3)	\$ 547,500.00	P	7690.62	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$ 75,000.00	Q	7690.7	FY 2014/15	PROJ
Lower Day Basin RMPU (TO #2)	\$ 49,000.00	R	7690.8	FY 2014/15	PROJ
<b>Total Balance, June 30, 2015</b>	<b>\$ 1,872,937.85</b>				

"Carried Over" Balance, July 1, 2015 \$ 1,872,937.85

Less: (Invoices Received To Date FY 2015/16)

Rauch Communication Consultants - Annual Report	\$ (15,000.00)	B	6061.3	FY 2014/15	ADM
Hydraulic Control Monitoring Lab Services - PBHSP	\$ (9,820.00)	G	7108.41 <sup>2</sup>	FY 2014/15	ENG
Hydraulic Control Monitoring - Adaptive Mgmt Plan	\$ (33,000.00)	H	7108.32 <sup>3</sup>	FY 2014/15	ENG
San Sevaine Recharge Improvement Project (TO #8)	\$ (111,118.08)	M	7690.4	FY 2014/15	PROJ
CB20 Turnout Noise Abatement Project	\$ (25,207.74)	N	7690.5	FY 2014/15	PROJ
GWR SCADA Upgrades (TO #4)	\$ (56,514.47)	O	7690.61	FY 2014/15	PROJ
SCADA Communication Upgrades (TO #3)	\$ (97,034.16)	P	7690.62	FY 2014/15	PROJ
Lower Day Basin RMPU (TO #2)	\$ (49,000.00)	R	7690.8	FY 2014/15	PROJ
<b>Updated Balance as of February 29, 2016</b>	<b>\$ 1,476,243.40</b>				

<sup>1</sup> Long-Term Pumping Test

<sup>3</sup> Adaptive Management Plan

<sup>2</sup> Prado Basin Habitat Sustainability Program monitoring program

<sup>4</sup> Upload GeoTracker and EnviroStor sites

## BACKGROUND OF "CARRY OVER" FUNDING

Once the FY 2014/15 period as of June 30, 2015 was closed, the amount of unfinished capital projects and related engineering costs was calculated and the "Carry Over" funding amount was added to the current FY 2015/16 budget. The Total "Carry Over" funding amount of \$1,872,937.852 was posted to the accounts as of February 29, 2016. The total amount of \$1,872,937.85 consisted of \$1,686,955.86 from Capital Improvement Projects; \$136,696.00 from Engineering Services; \$29,285.99 from the Chino Hills ASR Project; and \$20,000.00 from the Administration budget for completion of the Annual Reports.

Several projects were completed during FY 2014/15 and have remaining funds available to be either (1) transferred to other project(s) that need additional funding, (2) keep amounts on reserve for future Capital



Improvement Projects, or (3) refunded back to the Appropriative Pool when the Assessment package is invoiced. The funding amounts available are as follows: Jurupa Pumping Station in the amount of \$37,981.33 (account 7209.1); Wineville Basin Proof of Concept in the amount of \$35,397.53 (account 7209.2); and Hickory Basin Recharge Improvement Project in the amount of \$3,877.00 (account 7690.3). The total amount available is \$77,255.86 ( $\$37,981.33 + \$35,397.53 + \$3,877.00 = \$77,255.86$ ).

The San Sevaine Recharge Improvement Project-Task Order #8 has a remaining funded budget balance of \$475,000 in account (7690.4); the CB 20 Turnout project has a remaining funded budget balance of \$80,000 in account (7690.5); the GWR SCADA Upgrades-Task Order #4 has a remaining funded budget balance of \$383,200 in account (7960.61); the SCADA Communication Upgrades-Task Order #3 has a remaining funded budget balance of \$547,500 in account (7690.62); the Upper Santa Ana River HCP-Task Order #7 has a remaining funded balance of \$75,000 in account (7690.7); and the Lower Day Basin RMPU-Task Order #2 has a remaining funded budget balance of \$49,000 in account (7690.8). The total funded budget for these combined projects is \$1,609,700.

Unspent funds related to ongoing projects and associated activities from the Engineering Services budget from FY 2014/15 in several accounts totaling \$136,696 were "Carried Over" into the current FY 2015/16 budget. These funds were from the Ground Level Monitoring-Engineering (7107.2) in the amount of \$9,813; Ground Level Monitoring-Contracted Services (7107.6) in the amount of \$34,770; Hydraulic Control Monitoring-Engineering-PBHSP (7108.31) in the amount of \$12,127; Hydraulic Control Monitoring-Lab Services-PBHSP (7108.41) in the amount of \$35,986; Hydraulic Control Monitoring-Adaptive Management Plan (7108.7) in the amount of \$33,000; and Cooperative Efforts/Salt Management Engineering Services (7502) in the amount of \$11,000.

The ongoing Chino Hills ASR Project continues into FY 2015/16 and previous years funding of \$29,285.99 has been carried over into account (7107.62).

Unspent funds of \$20,000 related to the ongoing Annual Reports for development, production, and printing from the Administrative budget from FY 2014/15 from two accounts were "Carried Over" into the current FY 2015/16 budget. These funds were from the Printing-Annual Report (6045) in the amount of \$5,000; and Rauch Communication Consultants-Annual Report (6061.3) in the amount of \$15,000.

As invoices are received from the vendors and booked against these items listed above, the "Carried Over" balance will be reduced throughout the current fiscal year. At June 30, 2016, any remaining balances of the FY 2015/16 and prior years funding (if any), along with any new FY 2015/16 expenses, will then be "Carried Over" into the FY 2016/17 budget.

## AUDIT FIELD WORK

### FY 2015/16

Auditors from the audit firm of Fedak & Brown, LLP were onsite at the Watermaster offices on March 28, 2016. This was the start of the interim field work for the period of July 1, 2015 through January 31, 2016. The final field work for the period of February 1, 2016 through June 30, 2016 is planned for August 2016, with the Annual Financial and Audit Reports presented to the Watermaster Board at the November 17, 2016 Board meeting. The Annual Financial and Audit Reports for FY 2015/16 will be posted to the Watermaster website in December 2016.

### FY 2014/15

Auditors from the audit firm of Fedak & Brown LLP were onsite at the Watermaster offices on August 10 and August 11, 2015. This was the final field work and the start of the development of the audited financial reports and statements for FY 2014/15. The initial field work was completed on June 15 and June 16, 2015. On November 19, 2015, the Senior Manager of Fedak & Brown, LLP presented the Annual Financial and Audit Reports to the Watermaster Board. The Annual Financial and Audit Reports for FY 2014/15 were posted to the Watermaster website on November 23, 2015.

## FY 2015/16 EXHIBIT "G" NON-AGRICULTURAL POOL SALE OF WATER

Pursuant to Exhibit "G" of the Restated Judgment, members of the Overlying (Non-Agricultural) Pool may annually transfer water to members of the Appropriative Pool through a Watermaster clearinghouse process. Watermaster purchases water from the Overlying (Non-Agricultural) Pool members, which Watermaster then transfers to the members of the Appropriative Pool based on the prescribed process. Members of the Appropriative Pool purchasing water through the process must complete their payments to Watermaster by June 30 of the fiscal year. Watermaster has determined that California Steel Industries, Inc. (CSI), California Speedway Corporation (Auto Club Speedway), and NRG CA South, LP are in compliance with Restated Judgment, Exhibit "G" ¶9(g), authorizing 2015-2016 Exhibit "G" Physical Solution Transfers.

The invoices to the eleven Appropriators who purchased Exhibit "G" water from the Non-Agricultural Pool were issued on March 25, 2016 totaling \$2,540,000. Once Watermaster has received all of the payments from the Appropriators and those payments have cleared the bank, Watermaster will issue payment to California Steel Industries, Inc. (CSI) in the amount of \$1,270,000 (2,500.000 AF x \$508.00 = \$1,270,000); California Speedway Corporation (Auto Club Speedway) in the amount of \$508,000 (1,000.000 AF x \$508.00 = \$508,000); and NRG CA South, LP in the amount of \$762,000 (1,500.000 AF x \$508.00 = \$762,000).

### ASSESSMENT INVOICING

#### CURRENT MONTH – FEBRUARY 2016

No Assessment activity for the month to report.

#### PREVIOUSLY REPORTED ACTIONS (Descending Order)

##### February 2015:

As discussed during the FY 2015/16 Mid-Year Review during the February 2016 meetings, if the Safe Yield Redetermination and Reset is resolved and completed during the April 8, 2016 court hearing, the FY 2015/16 Assessment Package (Production Year FY 2014/15) could be completed and presented in the June or July 2016 timeframe. If the Assessment invoices were then issued in July 2016, payment would be due to Watermaster in August 2016. As presented during the FY 2015/16 Mid-Year Review, Watermaster projects the current cash flow could sustain Watermaster until late September 2016.

##### December 2015:

Due to the Safe Yield Reset process this year, and the effects that it had on the Assessment Package, production of the Assessment Package was delayed. The Assessment Package will not be produced until the Court has considered the Safe Yield Reset Agreement, which is expected in a few months. However, Watermaster cannot wait until that time to collect assessments, as the funds will be needed sooner than that in order to keep Watermaster operational.

On November 19, 2015 the Watermaster Board approved staff's recommendation for collection of an interim partial assessment based upon fifty percent of last year's Appropriative Pool Admin and OBMP assessments, including those paid on behalf of the Agricultural Pool, in addition to fifty percent of last year's Recharge Debt and Recharge Improvement assessments, and to collect fifty percent of last year's Non-Ag Pool Admin and OBMP assessments. The balance, accounting for the interim assessment, would be collected when the Assessment Package is produced, following consideration of the Safe Yield Reset Agreement by the Court. Note that if a Party has an amount due of less than \$500 (including special assessments), collection was deferred until the final assessment invoice later in the fiscal year.

Included as part of the interim assessment invoicing, the Non-Agricultural Pool had a Special Assessment of \$60,000 as approved during a Confidential Session on November 12, 2015. The \$60,000 was

allocated to the Non-Agricultural Pool members based upon the tentative actual production numbers from 2014/15 and will be adjusted once all Water Activity Reports (WARs) have been received.

The Watermaster staff issued and emailed the "interim" Assessment invoices on Thursday, November 19, 2015. The Assessment invoices were due 30 days from invoice date, on or before Monday, December 21, 2015. New for this payment cycle is the ability for parties to pay their invoice either by check or by wire transfer.

All "interim" Assessment invoice payments have been received.

#### ATTACHMENTS

1. Financial Report - B5

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1/12th (8.33%) of the Total Budget

8/12th (67%) of the Total Budget

100% of the Total Budget

For The Month of February 2016

Year-To-Date as of February 29, 2016

Fiscal Year End as of June 30, 2016

	1/12th (8.33%) of the Total Budget				8/12th (67%) of the Total Budget				100% of the Total Budget			
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
7108 · Hydraulic Control Monitoring	8,977.25	25,428.16	-16,450.91	35.3%	188,526.48	295,281.34	-106,754.86	63.85%	374,344.70	397,236.00	-22,891.30	94.24%
7109 · Recharge & Well Monitoring Prog	6,293.25	1,655.58	4,637.67	380.12%	10,003.00	13,244.67	-3,241.67	75.53%	12,419.50	19,867.00	-7,447.50	62.51%
7200 · PE2- Comp Recharge Pgm	26,828.54	16,863.67	9,964.87	159.09%	391,432.73	812,098.19	-420,665.46	48.2%	1,010,552.00	1,078,549.86	-67,997.86	93.7%
7300 · PE3&5-Water Supply/Desalte	0.00	3,678.00	-3,678.00	0.0%	0.00	30,222.00	-30,222.00	0.0%	0.00	45,276.00	-45,276.00	0.0%
7400 · PE4- Mgmt Plan	32,421.17	51,817.92	-19,396.75	62.57%	215,765.83	415,027.33	-199,261.50	51.99%	565,215.04	622,505.00	-57,289.96	90.8%
7500 · PE6&7-CoopEfforts/SaltMgmt	426.25	6,759.33	-6,333.08	6.31%	25,009.75	65,672.67	-40,662.92	38.08%	71,609.50	92,966.00	-21,356.50	77.03%
7600 · PE8&9-StorageMgmt/Conj Use	0.00	6,330.84	-6,330.84	0.0%	14,589.18	51,303.66	-36,714.48	28.44%	49,178.36	76,909.00	-27,730.64	63.94%
7690 · Recharge Improvement Debt Pymt	0.00	0.00	0.00	0.0%	690,503.45	3,369,227.00	-2,678,723.55	20.49%	2,786,006.90	3,932,677.00	-1,146,670.10	70.84%
7700 · Inactive Well Protection Prgm	0.00	41.67	-41.67	0.0%	0.00	333.33	-333.33	0.0%	0.00	500.00	-500.00	0.0%
9502 · G&A Expenses Allocated-Projects	9,346.58	22,720.92	-13,374.34	41.14%	93,114.15	181,767.33	-88,653.18	51.23%	136,543.44	272,651.00	-136,107.56	50.08%
<b>Total Expense</b>	<b>487,100.67</b>	<b>469,149.78</b>	<b>17,950.89</b>	<b>103.83%</b>	<b>4,759,467.50</b>	<b>8,343,735.07</b>	<b>-3,584,267.57</b>	<b>57.04%</b>	<b>9,796,406.97</b>	<b>10,987,143.85</b>	<b>-1,190,736.88</b>	<b>89.16%</b>
<b>Net Ordinary Income</b>	<b>-487,100.67</b>	<b>-469,149.78</b>	<b>-17,950.89</b>	<b>103.83%</b>	<b>-870,499.09</b>	<b>759,445.93</b>	<b>-1,629,945.02</b>	<b>-114.62%</b>	<b>-682,200.97</b>	<b>-1,872,937.85</b>	<b>1,190,736.88</b>	<b>36.42%</b>
<b>Other Income</b>												
4210 · Approp Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4220 · Non-Ag Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4225 · Interest Income	0.00	0.00	0.00	0.0%	2,402.77	0.00	2,402.77	100.0%	4,800.00	0.00	4,800.00	100.0%
4226 · LAIF Fair Market Value	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
6600 · Groundwater Sales	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
<b>Total Other Income</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>2,402.77</b>	<b>0.00</b>	<b>2,402.77</b>	<b>100.0%</b>	<b>4,800.00</b>	<b>0.00</b>	<b>4,800.00</b>	<b>100.0%</b>
<b>Other Expense</b>												
5010 · Groundwater Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
5100 · Other Water Purchases	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9200 · Interest Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9251 · Other Post Employment Benefits	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9996 · Refund-Excess Reserves-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9997 · Refund-Excess Reserves-NonAg	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9998 · Refund-Recharge Debt-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9999 · To/(From) Reserves	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
<b>Total Other Expense</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>
<b>Net Other Income</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>2,402.77</b>	<b>0.00</b>	<b>2,402.77</b>	<b>100.0%</b>	<b>4,800.00</b>	<b>0.00</b>	<b>4,800.00</b>	<b>100.0%</b>
<b>Net Income</b>	<b>-487,100.67</b>	<b>-469,149.78</b>	<b>-17,950.89</b>	<b>103.83%</b>	<b>-868,096.32</b>	<b>759,445.93</b>	<b>-1,627,542.25</b>	<b>-114.31%</b>	<b>-677,400.97</b>	<b>-1,872,937.85</b>	<b>1,195,536.88</b>	<b>36.17%</b>

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

# **CHINO BASIN WATERMASTER**

I. CONSENT CALENDAR (App & Ag Pool)  
C. WATER TRANSACTIONS

I. BUSINESS ITEMS – ROUTINE (Non-Ag Pool)  
C. WATER TRANSACTIONS

*CHINO BASIN WATERMASTER*

**NOTICE**

OF

**APPLICATION(S)**

**RECEIVED FOR**

**WATER TRANSACTIONS – ACTIVITIES**

Date of Notice:

April 7, 2016

This notice is to advise interested persons that the attached application(s) will come before the Watermaster Board on or after 30 days from the date of this notice.



# CHINO BASIN WATERMASTER

## NOTICE OF TRANSFER OF WATER

Notification Dated: April 7, 2016

A party to the Judgment has submitted a proposed transfer of water for Watermaster approval. Unless contrary evidence is presented to Watermaster that overcomes the rebuttable presumption provided in Section 5.3(b)(iii) of the Peace Agreement, Watermaster must find that there is “no material physical injury” and approve the transfer. Watermaster staff is not aware of any evidence to suggest that this transfer would cause material physical injury and hereby provides this notice to advise interested persons that this transfer will come before the Watermaster Board on or after 30 days from the date of this notice. The attached staff report will be included in the meeting package at the time the transfer begins the Watermaster process (comes before Watermaster).

NOTICE OF APPLICATION(S) RECEIVED

Date of Application: **March 15, 2016**

Date of this Notice: **April 7, 2016**

Please take notice that the following Application has been received by Watermaster:

- Notice of Sale or Transfer – The purchase of **1,200.000** acre-feet of water from Santa Ana River Water Company (SARWCo) by Jurupa Community Services District (JCSD). This purchase is made from SARWCo’s Annual Production Right / Operating Safe Yield first, then any additional from storage. In addition, JCSD will purchase **99.000** acre-feet of water from SARWCo’s excess carryover account.

This *Application* will first be considered by each of the respective pool committees on the following dates:

Appropriative Pool:	April 14, 2016
Non-Agricultural Pool:	April 14, 2016
Agricultural Pool:	April 14, 2016

This *Application* will be scheduled for consideration by the Advisory Committee *no earlier than thirty days from the date of this notice and a minimum of twenty-one calendar days* after the last pool committee reviews it.

After consideration by the Advisory Committee, the *Application* will be considered by the Board.

Unless the *Application* is amended, parties to the Judgment may file *Contests* to the *Application* with Watermaster *within seven calendar days* of when the last pool committee considers it. Any *Contest* must be in writing and state the basis of the *Contest*.

Watermaster address:

Chino Basin Watermaster  
 9641 San Bernardino Road  
 Rancho Cucamonga, CA 91730

Tel: (909) 484-3888  
 Fax: (909) 484-3890

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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

---

PETER KAVOUNAS, P.E.  
General Manager

**DATE:** April 7, 2016  
**TO:** Watermaster Interested Parties  
**SUBJECT:** Summary and Analysis of Application for Water Transaction

### Summary –

There does not appear to be a potential material physical injury to a party or to the basin from the proposed transaction as presented.

### Issue –

- Notice of Sale or Transfer – The purchase of **1,200.000** acre-feet of water from Santa Ana River Water Company (SARWCo) by Jurupa Community Services District (JCSD). This purchase is made from SARWCo's Annual Production Right / Operating Safe Yield first, then any additional from storage. In addition, JCSD will purchase **99.000** acre-feet of water from SARWCo's excess carryover account.

### Recommendation –

1. Continue monitoring as planned in the Optimum Basin Management Program.
2. Use all new or revised information when analyzing the hydrologic balance and report to Watermaster if a potential for material physical injury is discovered, and
3. Approve the transaction as presented.

### Fiscal Impact –

- None
- May reduce assessments under the 85/15 rule
- Reduce desalter replenishment costs

### 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.

Where there is no material physical injury, Watermaster must approve the transaction. Where the request for Watermaster approval is submitted by a party to the Judgment, there is a rebuttable presumption that

most of the transactions do not result in Material Physical Injury to a party to the Judgment or the Basin (Storage and Recovery Programs do not have this presumption).

The following application for water transaction is attached with the notice of application.

- Notice of Sale or Transfer – The purchase of **1,200.000** acre-feet of water from Santa Ana River Water Company (SARWCo) by Jurupa Community Services District (JCSD). This purchase is made from SARWCo's Annual Production Right / Operating Safe Yield first, then any additional from storage. In addition, JCSD will purchase **99.000** acre-feet of water from SARWCo's excess carryover account.

Notice of the water transaction identified above was mailed on April 7, 2016 along with the materials submitted by the requestors.

#### **DISCUSSION**

Water transactions occur each year and are included as production by the respective entity (if produced) in any relevant analyses conducted by Wildermuth Environmental pursuant to the Peace Agreement and the Rules & Regulations. There is no indication additional analysis regarding this transaction is necessary at this time. As part of the OBMP Implementation Plan, continued measurement of water levels and the installation of extensometers are planned. Based on no real change in the available data, we cannot conclude that the proposed water transaction will cause material physical injury to a party or to the Basin.

**CONSOLIDATED WATER TRANSFER FORMS:  
 FORM 3: APPLICATION FOR SALE OR TRANSFER OF RIGHT TO PRODUCE WATER FROM STORAGE  
 FORM 4: APPLICATION OR AMENDMENT TO APPLICATION TO RECAPTURE WATER IN STORAGE  
 FORM 5: APPLICATION TO TRANSFER ANNUAL PRODUCTION RIGHT OR SAFE YIELD**

FISCAL YEAR 2015 - 2016

DATE REQUESTED: March 15, 2016

AMOUNT REQUESTED: 1299,000 Acre-Feet

<p><b>TRANSFER FROM (SELLER / TRANSFEROR):</b></p> <p><u>Santa Ana River Water Company</u> Name of Party</p> <p><u>10530 54<sup>th</sup> Street</u> Street Address</p> <p><u>Jurupa Valley</u>      <u>CA</u>      <u>91752</u> City                      State      Zip Code</p> <p><u>951-685-6503</u> Telephone</p> <p><u>951-685-1978</u> Facsimile</p>	<p><b>TRANSFER TO (BUYER / TRANSFEREE):</b></p> <p><u>Jurupa Community Services District</u> Name of Party</p> <p><u>11201 Harrel Street</u> Street Address</p> <p><u>Jurupa Valley</u>      <u>CA</u>      <u>91752</u> City                      State      Zip Code</p> <p><u>951-685-7434</u> Telephone</p> <p><u>951-685-1153</u> Facsimile</p>
---	--

Have any other transfers been approved by Watermaster between these parties covering the same fiscal year?      Yes      No

**PURPOSE OF TRANSFER:**

- 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 \_\_\_\_\_

**WATER IS TO BE TRANSFERRED FROM:**

- Annual Production Right (Appropriative Pool) or Operating Safe Yield (Non-Agricultural Pool) Storage
- Annual Production Right / Operating Safe Yield first, then any additional from Storage
- Other, explain 1200,000 Annual Production Right, 99,000 from Excess Carry Over (ECO)

**WATER IS TO BE TRANSFERRED TO:**

- Annual Production Right / Operating Safe Yield (common)
- Storage (rare)
- Other, explain \_\_\_\_\_

IS THE 85/15 RULE EXPECTED TO APPLY? (If yes, all answers below must be "yes.") Yes  No  
Is the Buyer an 85/15 Party? Yes  No  
Is the purpose of the transfer to meet a current demand over and above production right? Yes  No  
Is the water being placed into the Buyer's Annual Account? Yes  No

<b>IF WATER IS TO BE TRANSFERRED FROM STORAGE:</b>	
<u>Varied</u>	<u>One Production Year</u>
Projected Rate of Recapture	Projected Duration of Recapture
<b>METHOD OF RECAPTURE (e.g. pumping, exchange, etc.):</b>	
Pumping	
<b>PLACE OF USE OF WATER TO BE RECAPTURED:</b>	
JCSD service area	
<b>LOCATION OF RECAPTURE FACILITIES (IF DIFFERENT FROM REGULAR PRODUCTION FACILITIES):</b>	

**WATER QUALITY AND WATER LEVELS**

Are the Parties aware of any water quality issues that exist in the area? Yes  No

If yes, please explain:

Wells that do not exceed the MCL for nitrates are used to blend with other wells in District; Other treatment via Ion Exchange

What are the existing water levels in the areas that are likely to be affected?

Water levels range from 150-300 feet.

**MATERIAL PHYSICAL INJURY**

Are any of the recapture wells located within Management Zone 1? Yes No

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?

**SAID TRANSFER SHALL BE CONDITIONED UPON:**

- (1) Transferee shall exercise said right on behalf of Transferor under the terms of the Judgment, the Peace Agreement, the Peace II Agreement, and the Management Zone 1 Subsidence Management Plan for the period described above. The first water produced in any year shall be that produced pursuant to carry-over rights defined in the Judgment. After production of its carry-over rights, if any, the next (or first if no carry-over rights) water produced by Transferee from the Chino Basin shall be that produced hereunder.
- (2) Transferee shall put all waters utilized pursuant to said Transfer to reasonable beneficial use.
- (3) Transferee shall pay all Watermaster assessments on account of the water production hereby Transferred.
- (4) Any Transferee not already a party must Intervene and become a party to the Judgment.

ADDITIONAL INFORMATION ATTACHED

Yes

No

  
\_\_\_\_\_  
Seller / Transferor Representative Signature

J. Arnold Rodriguez  
\_\_\_\_\_  
Seller / Transferor Representative Name (Printed)

  
\_\_\_\_\_  
Buyer / Transferee Representative Signature

Todd M. Corbin  
\_\_\_\_\_  
Buyer / Transferee Representative Name (Printed)

**TO BE COMPLETED BY WATERMASTER STAFF:**

DATE OF WATERMASTER NOTICE: \_\_\_\_\_

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

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

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

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

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

DATE OF BOARD APPROVAL: \_\_\_\_\_



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***CHINO BASIN WATERMASTER***

**NOTICE**

**OF**

**APPLICATION(S)**

**RECEIVED FOR**

**WATER TRANSACTIONS – ACTIVITIES**

Date of Notice:

April 7, 2016

This notice is to advise interested persons that the attached application(s) will come before the Watermaster Board on or after 30 days from the date of this notice.

NOTICE OF APPLICATION(S) RECEIVED

Date of Application: January 22, 2016

Date of this notice: April 7, 2016

Please take notice that the following Application has been received by Watermaster:

- Notice of Sale or Transfer – The purchase of 1000.000 acre-feet of water from San Antonio Water Company by the City of Upland. This purchase is made from San Antonio Water Company’s Annual Production Right/Operating Safe Yield first, then any additional from storage. The City of Upland is utilizing this transaction to produce its San Antonio Water Company shares.

This *Application* will first be considered by each of the respective pool committees on the following dates:

Appropriative Pool: April 14, 2016

Non-Agricultural Pool: April 14, 2016

Agricultural Pool: April 14, 2016

This *Application* will be scheduled for consideration by the Advisory Committee *no earlier than thirty days from the date of this notice and a minimum of twenty-one calendar days* after the last pool committee reviews it.

After consideration by the Advisory Committee, the *Application* will be considered by the Board.

Unless the *Application is* amended, parties to the Judgment may file *Contests* to the *Application* with Watermaster *within seven calendar days* of when the last pool committee considers it. Any *Contest* must be in writing and state the basis of the *Contest*.

Watermaster address:

Chino Basin Watermaster  
9641 San Bernardino Road  
Rancho Cucamonga, CA 91730

Tel: (909) 484-3888  
Fax: (909) 484-3890

# CHINO BASIN WATERMASTER

## NOTICE OF TRANSFER OF WATER

Notification Dated: April 7, 2016

A party to the Judgment has submitted a proposed transfer of water for Watermaster approval. Unless contrary evidence is presented to Watermaster that overcomes the rebuttable presumption provided in Section 5.3(b)(iii) of the Peace Agreement, Watermaster must find that there is “no material physical injury” and approve the transfer. Watermaster staff is not aware of any evidence to suggest that this transfer would cause material physical injury and hereby provides this notice to advise interested persons that this transfer will come before the Watermaster Board on or after 30 days from the date of this notice. The attached staff report will be included in the meeting package at the time the transfer begins the Watermaster process (comes before Watermaster).

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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

---

PETER KAVOUNAS, P.E.  
General Manager

**DATE:** April 7, 2016  
**TO:** Watermaster Interested Parties  
**SUBJECT:** Summary and Analysis of Application for Water Transaction

### Summary –

There does not appear to be a potential material physical injury to a party or to the basin from the proposed transaction as presented.

### Issue –

- Notice of Sale or Transfer – The purchase of 1000.000 acre-feet of water from San Antonio Water Company by the City of Upland. This purchase is made from San Antonio Water Company's Annual Production Right / Operating Safe Yield first, then any additional from storage. The City of Upland is utilizing this transaction to produce its San Antonio Water Company shares.

### Recommendation –

1. Continue monitoring as planned in the Optimum Basin Management Program.
2. Use all new or revised information when analyzing the hydrologic balance and report to Watermaster if a potential for material physical injury is discovered, and
3. Approve the transaction as presented.

### Fiscal Impact –

- None
- May reduce assessments under the 85/15 rule
- Reduce desalter replenishment costs

### 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.

Where there is no material physical injury, Watermaster must approve the transaction. Where the request for Watermaster approval is submitted by a party to the Judgment, there is a rebuttable presumption that most of the transactions do not result in Material Physical Injury to a party to the Judgment or the Basin (Storage and Recovery Programs do not have this presumption).

The following application for water transaction is attached with the notice of application.

- Notice of Sale or Transfer – The purchase of 1000.000 acre-feet of water from San Antonio Water Company by the City of Upland. This purchase is made from San Antonio Water Company's Annual Production Right / Operating Safe Yield first, then any additional from storage. The City of Upland is utilizing this transaction to produce its San Antonio Water Company shares

Notice of the water transaction identified above was mailed on April 7, 2016 along with the materials submitted by the requestors.

#### **DISCUSSION**

Water transactions occur each year and are included as production by the respective entity (if produced) in any relevant analyses conducted by Wildermuth Environmental pursuant to the Peace Agreement and the Rules & Regulations. There is no indication additional analysis regarding this transaction is necessary at this time. As part of the OBMP Implementation Plan, continued measurement of water levels and the installation of extensometers are planned. Based on no real change in the available data, we cannot conclude that the proposed water transaction will cause material physical injury to a party or to the Basin.

The 85/15 rule does not apply for this water transaction because the City of Upland is utilizing this transaction to produce its San Antonio Water Company shares.

**CONSOLIDATED WATER TRANSFER FORMS:  
 FORM 3: APPLICATION FOR SALE OR TRANSFER OF RIGHT TO PRODUCE WATER FROM STORAGE  
 FORM 4: APPLICATION OR AMENDMENT TO APPLICATION TO RECAPTURE WATER IN STORAGE  
 FORM 5: APPLICATION TO TRANSFER ANNUAL PRODUCTION RIGHT OR SAFE YIELD**

FISCAL YEAR 2015-2016

DATE REQUESTED: January 22, 2016

AMOUNT REQUESTED: 1,000 Acre-Feet

<b>TRANSFER FROM (SELLER / TRANSFEROR):</b> San Antonio Water Company			<b>TRANSFER TO (BUYER / TRANSFEREE):</b> City of Upland		
Name of Party 139 N. Euclid Avenue			Name of Party 460 N. Euclid Avenue		
Street Address Upland CA 91786			Street Address Upland CA 91786		
City	State	Zip Code	City	State	Zip Code
(909)982-4107			(909)931-4100		
Telephone (909)920-3047			Telephone (909)291-2974		
Facsimile			Facsimile		

Have any other transfers been approved by Watermaster between these parties covering the same fiscal year? Yes  No

**PURPOSE OF TRANSFER:**

- 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 Transfer undelivered entitlement

**WATER IS TO BE TRANSFERRED FROM:**

- Annual Production Right (Appropriative Pool) or Operating Safe Yield (Non-Agricultural Pool)
- Storage
- Annual Production Right / Operating Safe Yield first, then any additional from Storage
- Other, explain \_\_\_\_\_

**WATER IS TO BE TRANSFERRED TO:**

- Annual Production Right / Operating Safe Yield (common)
- Storage (rare)
- Other, explain \_\_\_\_\_



IS THE 85/15 RULE EXPECTED TO APPLY? (If yes, all answers below must be "yes.") Yes  No   
 Is the Buyer an 85/15 Party? Yes  No   
 Is the purpose of the transfer to meet a current demand over and above production right? Yes  No   
 Is the water being placed into the Buyer's Annual Account? Yes  No

**IF WATER IS TO BE TRANSFERRED FROM STORAGE:**

700-1000 gpm  
 Projected Rate of Recapture \_\_\_\_\_ Projected Duration of Recapture \_\_\_\_\_

**METHOD OF RECAPTURE (e.g. pumping, exchange, etc.):**  
pumping

**PLACE OF USE OF WATER TO BE RECAPTURED:**  
Regular production wells

**LOCATION OF RECAPTURE FACILITIES (IF DIFFERENT FROM REGULAR PRODUCTION FACILITIES):**  
 \_\_\_\_\_

**WATER QUALITY AND WATER LEVELS**

Are the Parties aware of any water quality issues that exist in the area? Yes  No

If yes, please explain:

NITRATE ~ 56ppm & DBCP - 0.35 ppb

What are the existing water levels in the areas that are likely to be affected?

STATIC WATER LEVEL ~ 550 to 600 feet bgs

**MATERIAL PHYSICAL INJURY**

Are any of the recapture wells located within Management Zone 1? Yes  No

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?

\_\_\_\_\_

\_\_\_\_\_


\_\_\_\_\_

**SAID TRANSFER SHALL BE CONDITIONED UPON:**

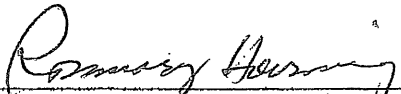
- (1) Transferee shall exercise said right on behalf of Transferor under the terms of the Judgment, the Peace Agreement, the Peace II Agreement, and the Management Zone 1 Subsidence Management Plan for the period described above. The first water produced in any year shall be that produced pursuant to carry-over rights defined in the Judgment. After production of its carry-over rights, if any, the next (or first if no carry-over rights) water produced by Transferee from the Chino Basin shall be that produced hereunder.
- (2) Transferee shall put all waters utilized pursuant to said Transfer to reasonable beneficial use.
- (3) Transferee shall pay all Watermaster assessments on account of the water production hereby Transferred.
- (4) Any Transferee not already a party must Intervene and become a party to the Judgment.

**ADDITIONAL INFORMATION ATTACHED**

Yes  No

  
\_\_\_\_\_  
Seller / Transferor Representative Signature

Charles Moorrees  
\_\_\_\_\_  
Seller / Transferor Representative Name (Printed)

  
\_\_\_\_\_  
Buyer / Transferee Representative Signature

ROSEMARY HEERNING  
\_\_\_\_\_  
Buyer / Transferee Representative Name (Printed)

**TO BE COMPLETED BY WATERMASTER STAFF:**

- DATE OF WATERMASTER NOTICE: \_\_\_\_\_
- DATE OF APPROVAL FROM APPROPRIATIVE POOL: \_\_\_\_\_
- DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: \_\_\_\_\_
- DATE OF APPROVAL FROM AGRICULTURAL POOL: \_\_\_\_\_
- HEARING DATE, IF ANY: \_\_\_\_\_
- DATE OF ADVISORY COMMITTEE APPROVAL: \_\_\_\_\_
- DATE OF BOARD APPROVAL: \_\_\_\_\_

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# CHINO BASIN WATERMASTER

## II. BUSINESS ITEMS

### A. EAST DECLEZ BASIN PROJECT



# CHINO BASIN WATERMASTER

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

---

PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: April 14, 2016  
TO: Pool Committee Members  
SUBJECT: East Declez Basin Project

### SUMMARY

Issue: A decision on funding the East Declez project, or potentially only the associated land acquisition, needs to be made.

Recommendation: The Pools have four options: (1) Cancel the purchase of the property; (2) Delay the decision on property acquisition; (3) Proceed with the purchase of the property through IEUA and approve additional funding for the preliminary design and environmental studies or (4) Proceed with the purchase of the property through IEUA and do not pursue the proposed East Declez Basin project at this time.

Financial Impact: There is no impact to the fiscal year 2015/16 budget. The financial impact for future years would vary based on the decision made. If the purchase is canceled (option #1), Task Order #1 (2013 Amendment Yield Enhancement Projects - Planning, Permitting and Design) would be amended from \$7.5 Million to \$3.9 Million; this reflects removing the unspent project soft costs of \$3,551,000 from the Task Order.

If the decision is delayed (option #2), the Appropriative Pool is committing to an additional project expense of \$10,000 per month of delay, up to three (3), thirty (30) day periods, which will be withheld from the \$50,000 deposit. This cost will be captured in a new Task Order.

If the property is purchased and pre-design and environmental work are approved (option #3), repayment for the property cost would occur on an annual basis to IEUA in future years through the Watermaster's Recharge Improvement Debt account starting in Fiscal Year 2016/17; this would be authorized under a new Task Order. The cost of the property is listed at \$3,000,500. The funding for predesign (\$511,000) and environmental studies (\$197,000) are already budgeted in Task Order #1, though Pool approval is required in order to proceed.

If the property is purchased but the project does not proceed (option #4), then repayment for the property would occur on an annual basis to IEUA in future years through the Watermaster's Recharge Improvement Debt account starting in Fiscal Year 2016/17 under a new Task Order. As a result, Task Order #1 would then be amended from \$7.5 Million to \$3.9 Million; this reflects removing the unspent project soft costs of \$3,551,000 from the Task Order.

Future Consideration

Appropriative Pool: April 14, 2016; Review and recommend one of the four options presented.

Non-Agricultural Pool: April 14, 2016; Review and recommend one of the four options presented.

Agricultural Pool: April 14, 2016; Review and recommend one of the four options presented.

Advisory Committee: April 21, 2016; Recommend Board Approval

Watermaster Board: April 28, 2016; Approval (Advisory Committee Approval required)

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ACTIONS:

April 14, 2016 – Appropriative Pool –

April 14, 2016 – Non-Agricultural Pool –

April 14, 2016 – Agricultural Pool –

April 21, 2016 – Advisory Committee –

April 28, 2016 – Watermaster Board –

## BACKGROUND

The East Declez site was originally identified by the Jurupa Community Services District (JCSD) as part of an initial due diligence program in consideration of purchasing the property. JCSD drilled two boreholes and had three infiltration test pits. The results appeared favorable, so in 2014 it was brought to the Joint Projects Committee at Chino Basin Watermaster.

The scope of the project proposed to expand the Declez Recharge facility with an added individual basin. It also included some upstream improvements to divert and convey additional storm water to the new basin. The original concept of the basin would increase storm water recharge by 913 acre-feet per year. At the March 26, 2015 Watermaster Board meeting, the soft costs of the projects were approved with the condition that only funds of approximately \$114,000 be made available to complete a feasibility study. The results of that study would be provided to Watermaster parties for discussion before any further development takes place with the project.

Task Order 1 (2013 RMPU Amendment Yield Enhancement Projects - Planning, Permitting and Design) was amended on April 1, 2015 to reflect the soft costs of the project (\$3,665,000). (Attachments 1 and 2); to-date, \$114,000 of this amount has been spent on the field investigation work. The unspent soft costs for the project still included in Task Order #1 are \$3,551,000. The purpose of Task Order No. 1 is to govern the planning, permitting and design of the Yield Enhancement Projects recommended in the 2013 Amendment to the 2010 Recharge Master Plan Update. It also governs the cost allocation among Watermaster and Inland Empire Utilities Agency for those projects. The management and cost allocation for the construction, and construction management for the Yield Enhancement projects, will be done by separate Task Order.

In November 2015, IEUA opened escrow with the property owners with a \$50,000 deposit. While the deposit is fully refundable until May 17, 2016, in order to hold the property in escrow in June, July and August \$10,000 would be taken from the deposit per month. A decision in April 2016 would be necessary to avoid losing funds from the deposit. Reimbursement to IEUA for the deposit has not been authorized at this time. If the property is purchased, the deposit will be included in the total cost of the sale. If the decision is not to proceed with the purchase at this time, then IEUA will be refunded their deposit and there will be no expense. A delay in the decision would incur an expense of \$10,000 per month for up to three (3), thirty (30) day periods. All expenses related to the deposit, sale of the land and project construction will be included in a separate Task Order for Watermaster to reimburse IEUA.

## DISCUSSION

In February 2016, the feasibility study, "Subsurface Investigation-East Declez Basin Site" prepared by Thomas Harder and Co. was made available for review and presented at the February 18, 2016 RIPCom meeting (Attachment 3). Based on the findings of the report, a new basin concept was developed which would expand Cell 1 of the existing Declez Basin, graded at the same bottom elevation, which would add an additional 150 acre-feet of storage. Assuming that no recharge would take place in the area of the expanded basin, the new net recharge was calculated to be an additional 414 acre-feet per year with a unit cost of \$2,420 per acre-foot. If the expanded portion of the basin were to percolate at a rate similar to the existing Cell 1 of Declez Basin, a yield of 601 acre-feet of storm water at a cost of \$1,678 per year is possible.

On March 10, 2016, Thomas Harder gave the Subsurface Investigation presentation at the Appropriative Pool meeting. A spreadsheet showing the impacts of the East Declez Project to the melded cost of all the RMPU projects was also presented at the request of the Pool (Attachment 4). The Appropriative Pool decided to delay the decision for one month, also requesting Watermaster to revisit the potential projects from the 2013 Amendment to the 2010 Recharge Master Plan Update (RMPUA) Table 8-2a to see how the East Declez Project would compare. At the March 2016 RIPCom meeting, the requested revisit of the RMPUA Table 8-2a list was presented (Attachment 5).

In light of the expiring deposit on the land, IEUA is seeking direction from Watermaster as how to proceed. The given options are provided in the recommendation above and the financial impacts are also provided above.

ATTACHMENTS

1. Task Order No.1
2. 1<sup>st</sup> Amendment to Task Order No. 1 Yield Enhancement
3. Subsurface Investigation- East Declez Basin Site Presentation
4. Effects of East Declez Options on Yield and Melded Rate
5. East Declez and 2013 RMPU Proposed Projects



**MASTER AGREEMENT BETWEEN CHINO BASIN WATERMASTER AND INLAND EMPIRE UTILITIES AGENCY REGARDING THE MANAGEMENT OF COLLABORATIVE RECHARGE PROJECTS**

**TASK ORDER NO. 1**

**2013 RMPU AMENDMENT YIELD ENHANCEMENT PROJECTS – PLANNING, PERMITTING AND DESIGN**

This Task Order is made and entered into as of the 28<sup>th</sup> day of August, 2014 by and between the Chino Basin Watermaster, hereinafter referred to as "Watermaster" and the Inland Empire Utilities Agency, hereinafter referred to as "IEUA" (each a "Party" and collectively, the "Parties").

In consideration of the mutual promises, covenants, and conditions as addressed in the Master Agreement dated July 24, 2014 and as specifically hereinafter set forth, the parties do hereby agree as follows:

1. PURPOSE

The purpose of this Task Order is to govern the planning, permitting and design of the Yield Enhancement Projects recommended in the 2013 Amendment to the 2010 Recharge Master Plan Update ("2013 RMPU Amendment"), and the cost allocations among Watermaster and IEUA for those Projects, pursuant to the Peace II Agreement. The management and cost allocation for construction of, and construction bidding for, the 2013 RMPU Amendment Yield Enhancement projects will be the subject of a separate Task Order.

2. SCOPE

The activities to be undertaken pursuant to this Task Order include preliminary design, proof-of-concept analyses, completion of the CEQA process, permitting, and final design for the following 2013 RMPU Amendment Yield Enhancement Projects, as those projects are further described in the 2013 RMPU Amendment:

Project ID	Project
MZ3 Projects	
18a	CSI Storm Water Basin
23a	2013 RMPU Proposed Wineville PS to Jurupa, Expanded Jurupa PS to RP3 Basin, and 2013 Proposed RP3 Improvements
25a	Sierra
27	Declez Basin
MZ2 Projects	
11	Victoria Basin
14	Turner Basin
15a	Ely Basin
17a	Lower San Sevaine Basin (2010 RMPU)
MZ1 Projects	
2	Montclair Basins

Under this task order the following is an estimated schedule and projected cost break down for each phases of the design:

Phase	Start	Finish	Projected Cost
Project Development	01/07/2014	02/18/2015	\$58,100
Preliminary Design	02/19/2015	06/30/2016	\$1,475,100
Environmental	02/19/2015	06/30/2016	\$577,100
Design	07/01/2016	12/29/2017	\$5,605,100
Permits	09/30/2016	12/29/2017	\$407,100
<b>Total</b>			<b>\$8,122,500</b>

### 3. IEUA RESPONSIBILITIES

IEUA agrees to provide project management and contract administration services that include, but are not limited to:

- Engagement of consulting services as needed for:
  - Project design;
  - California Environmental Quality Act (CEQA) compliance;
  - Permitting;
- Management of consultants for the above;
- Approval of progress payments for consultants;

- Recommendation as to change orders for consultants;
- Payment of consultant invoices

IEUA will supply all personnel and equipment required to perform the assigned services.

4. WATERMASTER RESPONSIBILITIES

Watermaster agrees that it and its employees and consultants will cooperate with IEUA and its contractors in the performance of services under this Task Order and will provide any necessary documentation and information in Watermaster's possession.

5. BUDGET AND COST ALLOCATION

The budget for the activities to be undertaken pursuant to this Task Order is seven million eight hundred seventy-two thousand two hundred fifty dollars (\$7,872,250) unless the scope of work is changed and an increase is authorized by the Parties ("Budget"). The Parties agree that these costs are shared consistent with the methodology described in Peace II Agreement Section 8.1(b), and that IEUA's share of the costs is based on a 50% allocation of the costs of those portions of the project for which there is a recycled water component. The Budget includes IEUA capital, administrative, and overhead expenses associated with IEUA's provision of the services described in Section 3, above. The fiscal year budget allocation is as follows:

Design - RMPU YE Design	Fiscal Year 2014/15	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Watermaster	-	\$1,800,000	\$3,500,000	\$2,572,250	\$7,872,250
IEUA	\$250,250	-	-	-	\$250,250
<b>Total</b>	<b>\$250,250</b>	<b>\$1,800,000</b>	<b>\$3,500,000</b>	<b>\$2,572,250</b>	<b>\$8,122,500</b>

6. TOTAL BUDGETED COST

The Parties agree to pay their respective portion of the total costs, and the parties shall not be required to pay more than \$8,122,500 ("Total Budgeted Cost").

7. MAXIMUM COSTS TO WATERMASTER

The costs to be required of Watermaster under this Agreement shall not exceed its share of the Total Budgeted Cost, as shown in Section 5 above, or \$7,872,250.

8. MAXIMUM COSTS TO IEUA

The costs to be required of IEUA under this Agreement shall not exceed its share of the Total Budgeted Cost, as shown in Section 5 above, or \$250,250.

9. TERM

Work to be undertaken pursuant to this Task order shall be initiated upon the Effective Date, as described in Section 11, below. The terms of this Task Order shall remain effective until IEUA's receipt of Watermaster's share of costs expended pursuant to the Budget shown above, so that IEUA may close out the activities.

10. REIMBURSEMENT

Watermaster's reimbursement of IEUA for work performed under this Task Order shall be as provided in Article 3 of the July 24, 2014 Master Agreement.

11. EFFECTIVE DATE

This Task Order No. 1 will become effective upon execution by both Parties.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the day and year and at the place first above written.

CHINO BASIN WATERMASTER

By  \_\_\_\_\_  
PETER KAVOUNAS  
General Manager

INLAND EMPIRE UTILITIES AGENCY

By  \_\_\_\_\_  
P. JOSEPH GRINDSTAFF  
General Manager

**FIRST AMENDMENT**  
**to**  
**TASK ORDER NO. 1**  
**2013 RMPU AMENDMENT YIELD ENHANCEMENT PROJECTS**  
**PLANNING, PERMITTING AND DESIGN**  
**under the**  
**MASTER AGREEMENT REGARDING THE**  
**MANAGEMENT OF COLLABORATIVE RECHARGE PROJECTS**  
**between**  
**INLAND EMPIRE UTILITIES AGENCY**  
**and**  
**CHINO BASIN WATERMASTER**

This First Amendment to Task Order No. 1 is made and entered into as of the 1<sup>st</sup> day of April, 2015 by and between the Inland Empire Utilities Agency (IEUA) and the Chino Basin Watermaster (Watermaster) (each a "Party" and collectively, the "Parties").

**RECITALS**

A. Task Order No. 1 for the 2013 RMPU Amendment Yield Enhancement Projects Planning, Permitting and Design (the "Task Order") was approved by IEUA on April August 20, 2014, and by Watermaster on August 28, 2014.

B. During the January 15, 2015 Joint Projects Committee Meeting, staff recommended the inclusion of a new project, the East Decler Project, within the Recharge Master Plan list of projects and the removal of Sierra Basin and Lower San Sevaine which are no longer viable RMPU project. The Sierra Basin was no longer an option due to the City of Fontana's desire to use the land for other purposes, while Lower San Sevaine is no longer an option due to the land where the project was to be located was sold to a home developer.

C. IEUA and Watermaster wish to amend Task Order No. 1 to reflect these changes on the listed RMPU projects which are considered for design, decrease the total projected design cost, and to adjust the reimbursement schedule under which Watermaster provides its share of the costs to IEUA.

**NOW THEREFORE IT IS AGREED TO AMEND THE TASK ORDER AS FOLLOWS:**

1. Section 2 of the Task Order titled SCOPE shall be amended to read:

The activities to be undertaken pursuant to this Task Order include preliminary design, proof-of-concept analyses, completion of the CEQA process, permitting, and final design for the following 2013 RMPU Amendment Yield Enhancement Projects, as those projects are further described in the 2013 RMPU Amendment:

ID	Basin Projects
18a	CSI Storm Water Basin
23a	2013 RMPU Proposed Wineville PS to Jurupa, Expanded Jurupa PS to RP3 Basin, and 2013 Proposed RP3 Improvements
-	East Declez Basin
11	Victoria Basin
14	Turner Basin
15a	Ely Basin
2	Montclair Basins

Under this task order the following is an estimated scheduled and projected cost break down for each phase of work:

Phases	Start	Finish	Projected Cost
<b>Project Development</b>	07/01/14	04/15/15	\$53,547
<b>Preliminary Design</b>	04/16/15	08/26/16	\$1,360,328
<b>Environmental</b>	02/19/15	08/29/16	\$532,190
<b>Design</b>	08/29/16	12/29/17	\$5,169,055
<b>Permits</b>	08/29/16	12/29/17	\$375,380
		<b>Total</b>	<b>\$7,490,500</b>

- Section 5 of the Task Order titled BUDGET AND COST ALLOCATION shall be amended to read:

The budget for the activities to be undertaken pursuant to this Task Order is five million four hundred sixty-nine thousand five hundred dollars (\$7,490,500) unless the scope of work is changed and an increase is authorized by the Parties ("Budget"). The Parties agree that these costs are shared consistent with the methodology described in Peace II Agreement Section 8.1(b), and that IEUA's share of the costs is based on a 50% allocation of the costs of those portions of the project for which there is a recycled water component. The Budget includes IEUA capital, administrative, and overhead expenses associated with IEUA's provision of the services described in Section 3, above. The fiscal year budget allocation is as follows:

Design - RMPU YE Design	Fiscal Year 2015/16	Fiscal Year 2016/17	Fiscal Year 2017/18	Total
Watermaster	\$569,750	\$3,100,000	\$3,570,500	\$7,240,250
IEUA	\$250,250	-	-	\$250,250
<b>Total</b>	<b>\$820,000</b>	<b>\$3,100,000</b>	<b>\$3,549,500</b>	<b>\$7,490,500</b>

3. Section 6 of the Task Order titled TOTAL BUDGETED COST shall be amended to read:

The Parties agree to pay their respective portion of the total costs, and the parties shall not be required to pay more than \$7,490,500 ("Total Budgeted Cost").

4. Section 7 of the Task Order titled MAXIMUM COSTS TO WATERMASTER shall be amended to read:

The costs to be required of Watermaster under this Agreement shall not exceed its share of the Total Budgeted Cost, as shown in Section 5 above, or \$7,240,250.

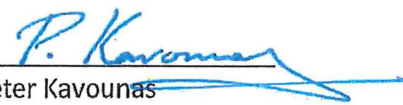
**ALL OTHER PROVISIONS SHALL REMAIN UNCHANGED.**

IN WITNESS WHEREOF, the parties hereby have caused this Amendment to be entered into as of the day and year written above.

INLAND EMPIRE UTILITIES AGENCY:

  
 \_\_\_\_\_  
 Joseph Grindstaff  
 General Manager

CHINO BASIN WATERMASTER:

  
 \_\_\_\_\_  
 Peter Kavounas  
 General Manager

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# Inland Empire Utilities Agency Chino Basin Watermaster

Recharge Investigations/Projects Committee (RIPCom) Meeting

February 18, 2016

## Findings of the East Declez Basin Site Subsurface Investigation



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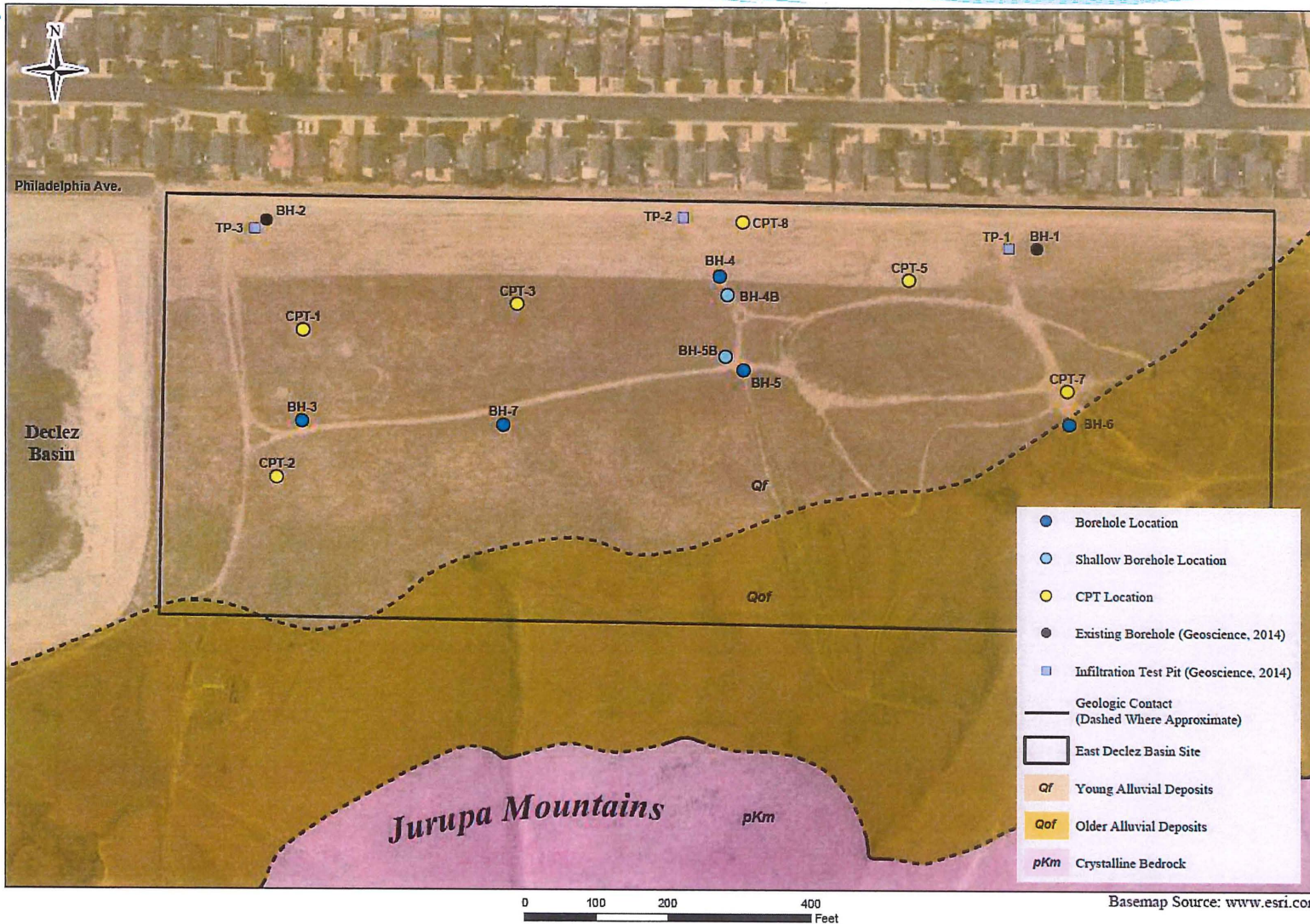
# Presentation Overview

- Overview of Subsurface Investigation
  - Investigation Locations
  - Subsurface Soil Characteristics
  - Implications of Data for Recharge Potential
- Potential Site Uses Based on Data Collected
- Finding/Conclusions
- Wildermuth's supplement evaluation
- Recommendations
- Schedule



# Borehole, CPT, and Test Pit Locations

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# BH-7 Lithologic Log

Depth	Graphic Log	Sample Recovery (Percent)	Blow Counts	Color	Sample Description
0		100		10 YR 2/2 Very Dark Brown	POORLY-GRADED SAND: Dry. Fine-grained sand, some medium-grained sand, less than 5 percent gravel up to 20 mm; subangular to subrounded; 5-10 percent silt.
-5		0			
-10		70	12, 18, 27	7.5 YR 4/1 Dark Gray	POORLY-GRADED SAND WITH GRAVEL: Dry. Medium-grained sand, with coarse-grained sand, some fine-grained sand, 40-50 percent gravel up to 20 mm; angular to subangular; less than 5 percent silt.
-15		0			
-16		20		7.5 YR 4/1 Dark Gray	Fine sand at 16 feet and 19 feet.
-20		30	38, 50.5 (5-inch)	7.5 YR 4/1 Dark Gray	Gravel to 50 mm at 24 feet.
-25		5			

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# BH-7 Lithologic Log

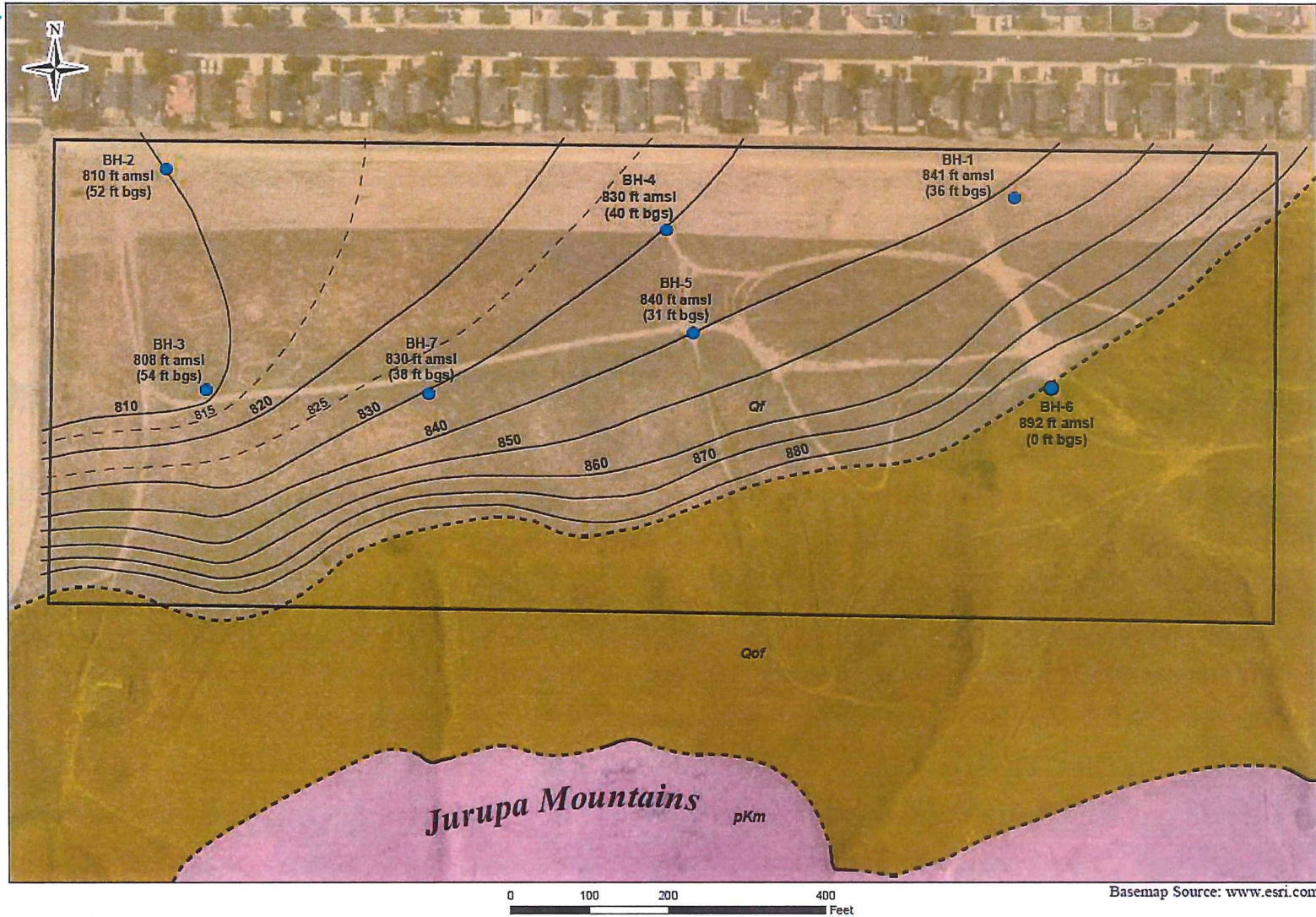
Depth	Graphic Log	Sample Recovery (Percent)	Blow Counts	Color	Sample Description
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-25	SP	10		5Y 4/1 Dark Gray	POORLY-GRADED SAND: Moist. Fine-grained sand, trace medium-grained sand, trace gravel to 35 mm; subrounded to subangular, less than 5 percent silt.
-30		80	12, 13, 14	5Y 4/1 Dark Gray	Gravel to 45 mm at 34 feet. Rig chatter at 38 feet.
		30			
-35	GL	40			LEAN CLAY: Dry to moist, firm consistency. 90 percent clay, 10 percent fine-grained sand, trace medium-grained sand, less than 5 percent gravel up to 25 mm; subrounded to rounded. Clay: very high dry strength, slow dilatancy, medium toughness, medium plasticity. Gravel up to 50 mm at 42 feet.
-40		90	15, 25, 50	7.5 YR 4/4 Brown	
		100			
-45	ML	50		7.5 YR 5/6 Strong Brown	SILT: Dry to moist, hard consistency. 90 percent silt, 10 percent fine-grained sand, trace medium-grained sand, less than 5 percent gravel up to 30 mm. Silt: High dry strength, slow dilatancy, low toughness, low plasticity. Increase in gravel 49-50 feet.
-50		5	22, 29, 34	7.5 YR 5/6 Strong Brown	Driller reports "tight" drilling at 53 feet. Gravel up to 40 mm at 54 feet.
		70			
-55		70			

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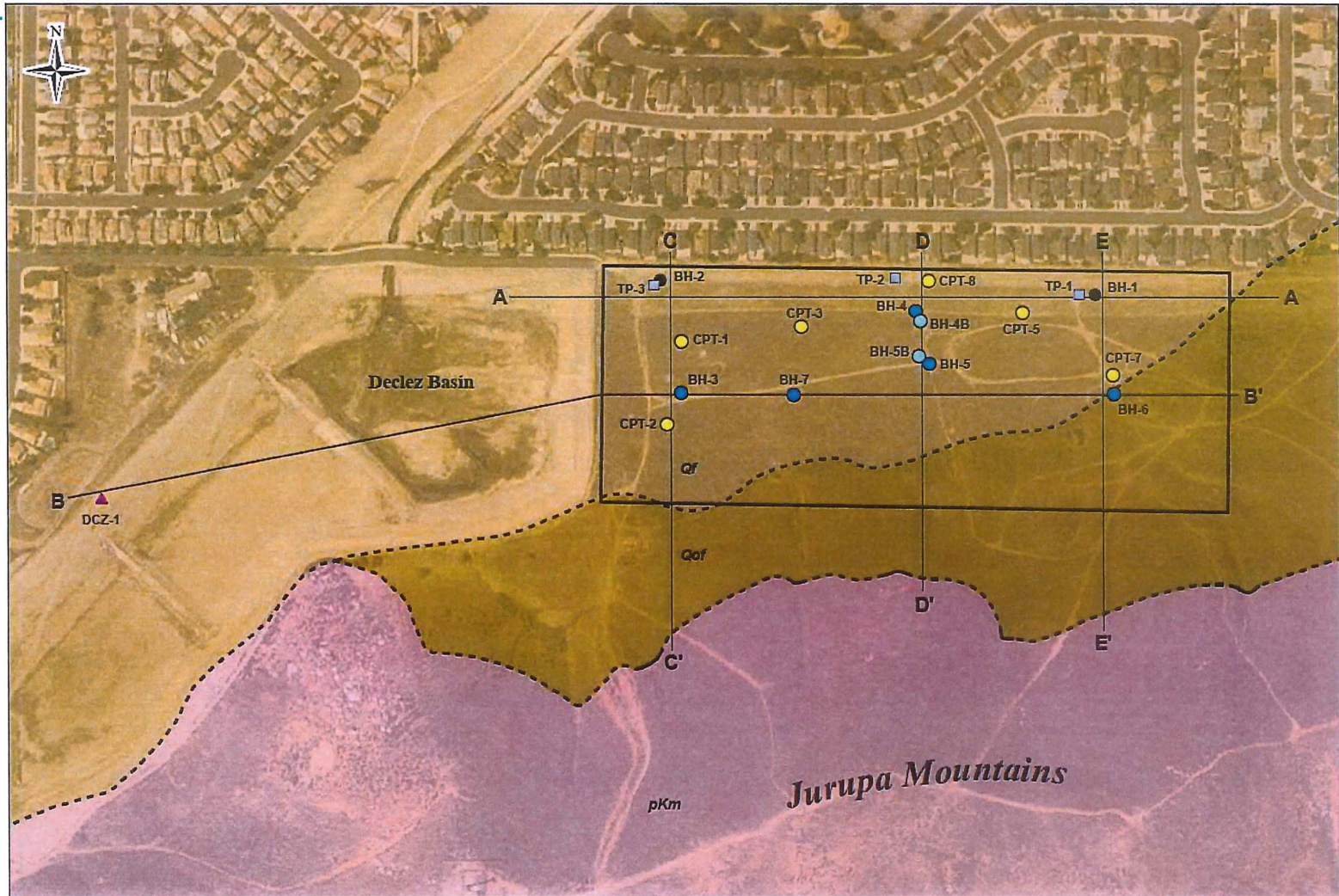


# Bottom of Younger Alluvium



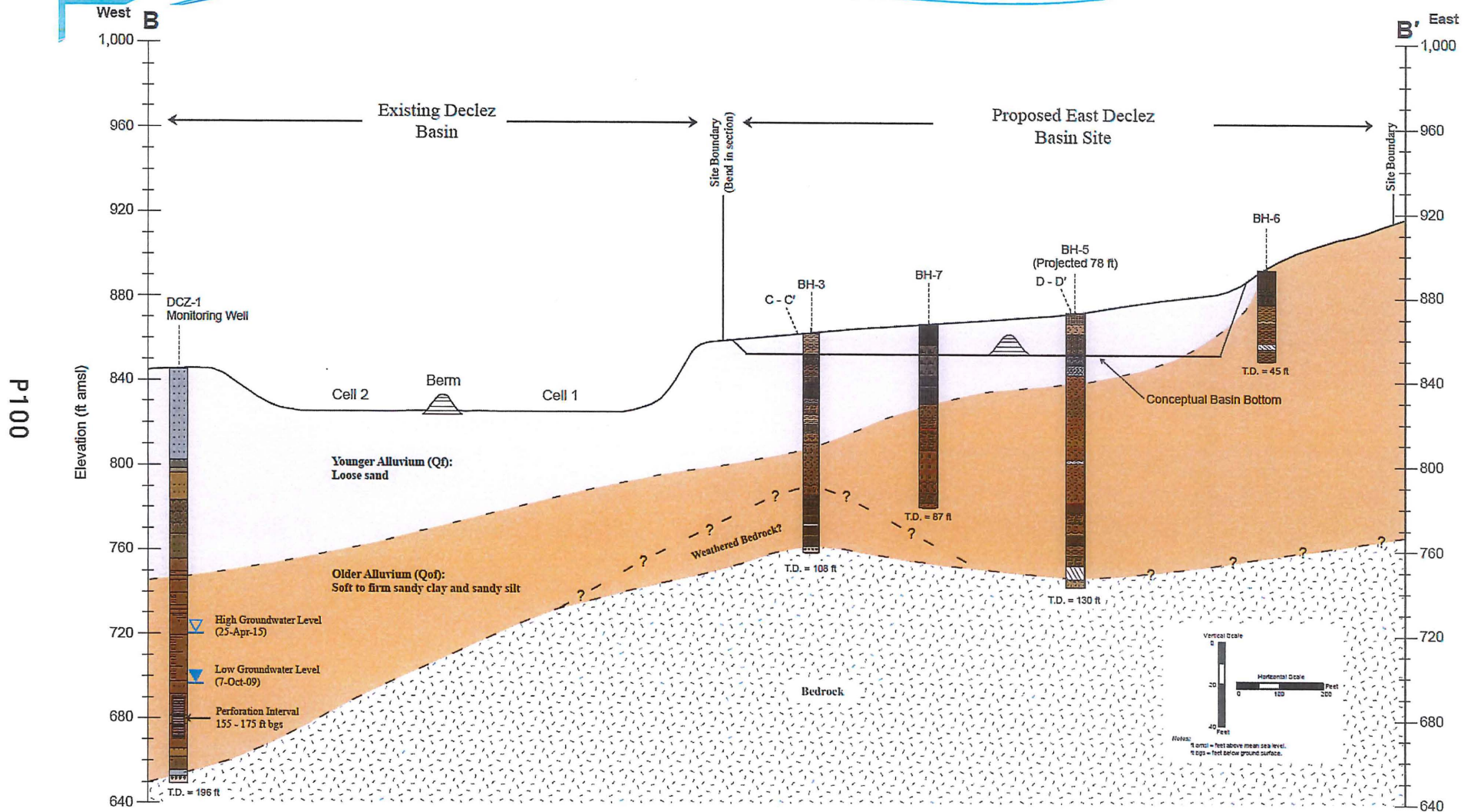
P 98

# Cross Section Locations



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# Conceptual Basin Layout – Shallow Basin

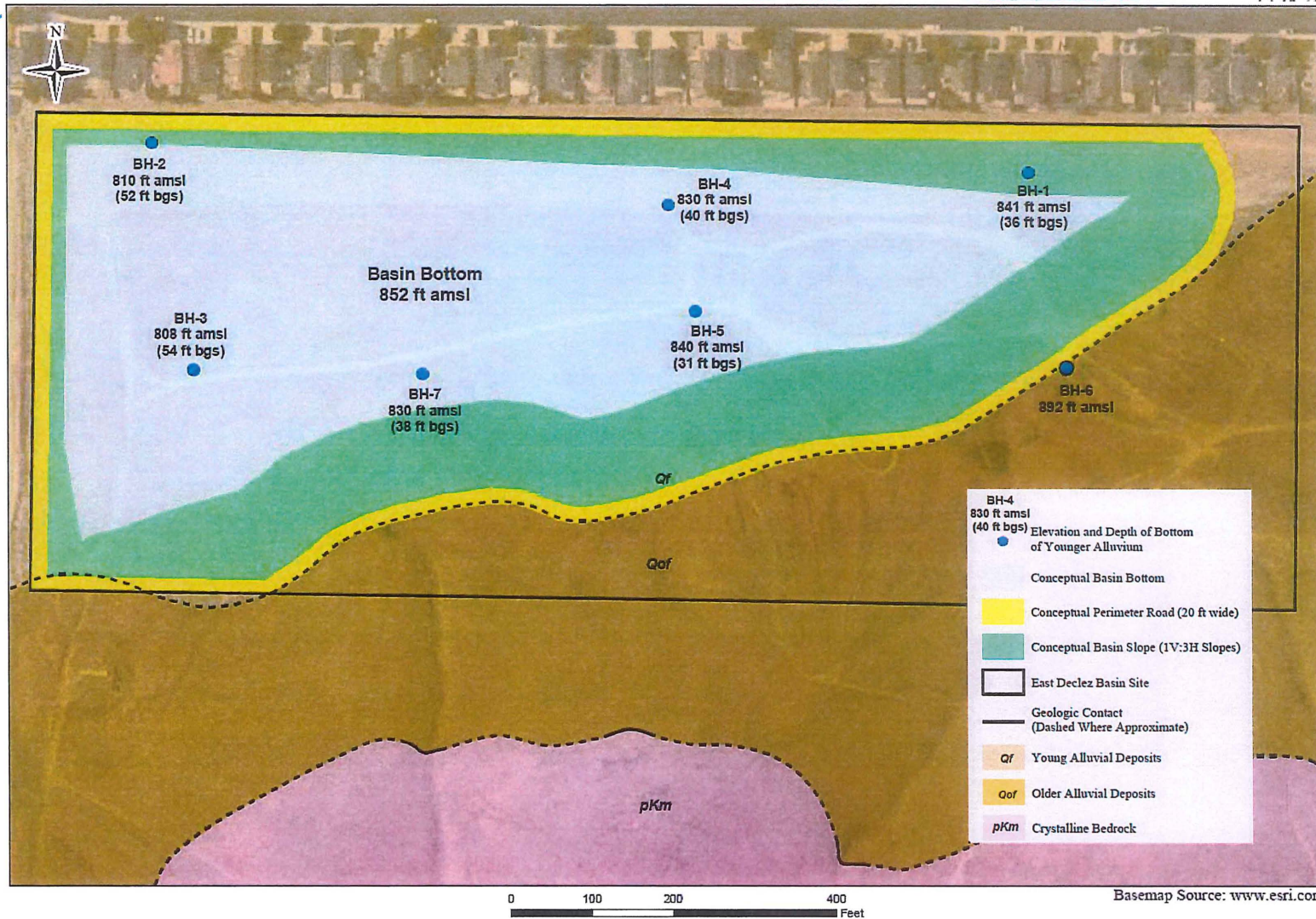


P100



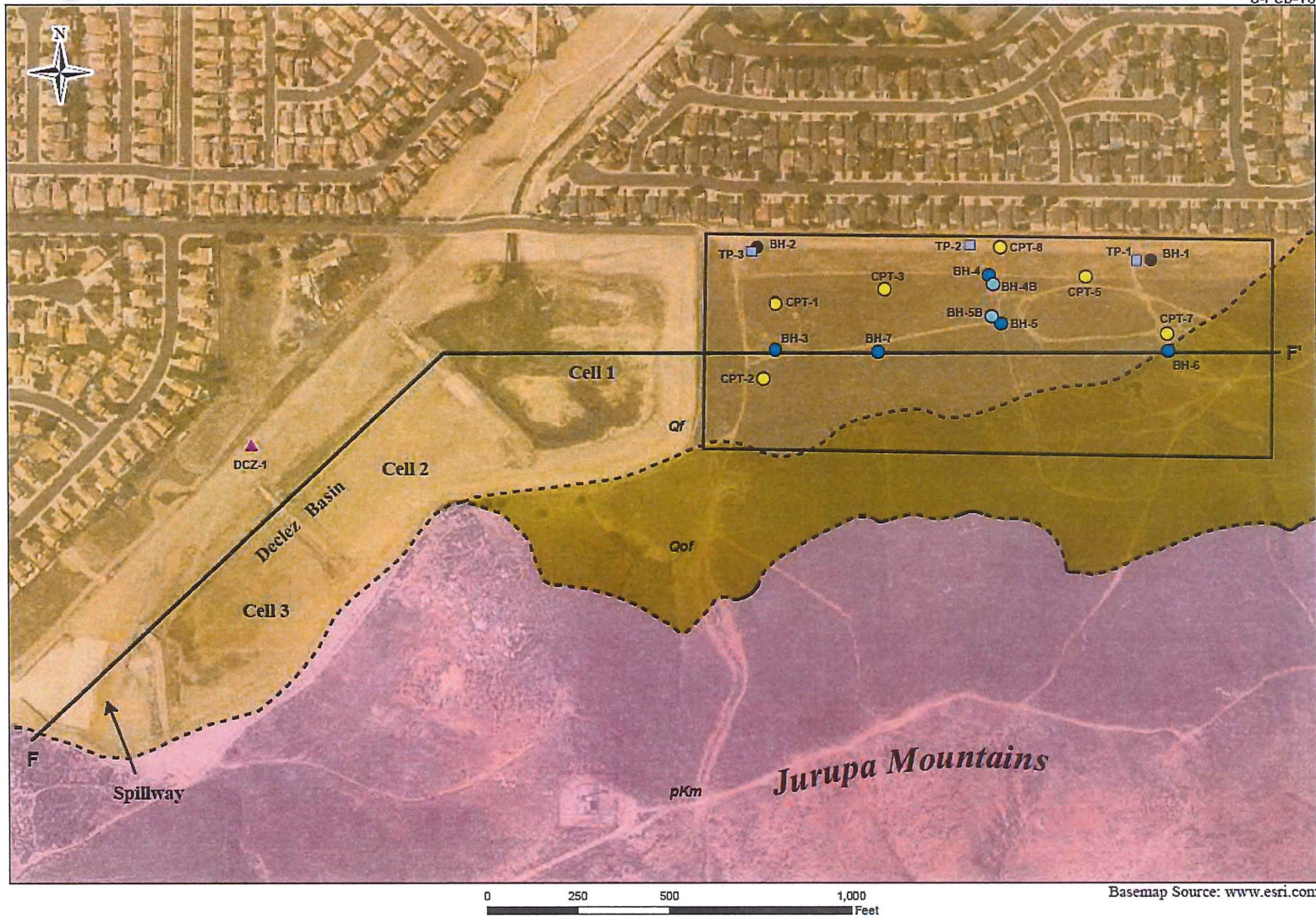
# Conceptual Basin Layout – Shallow Basin

P101

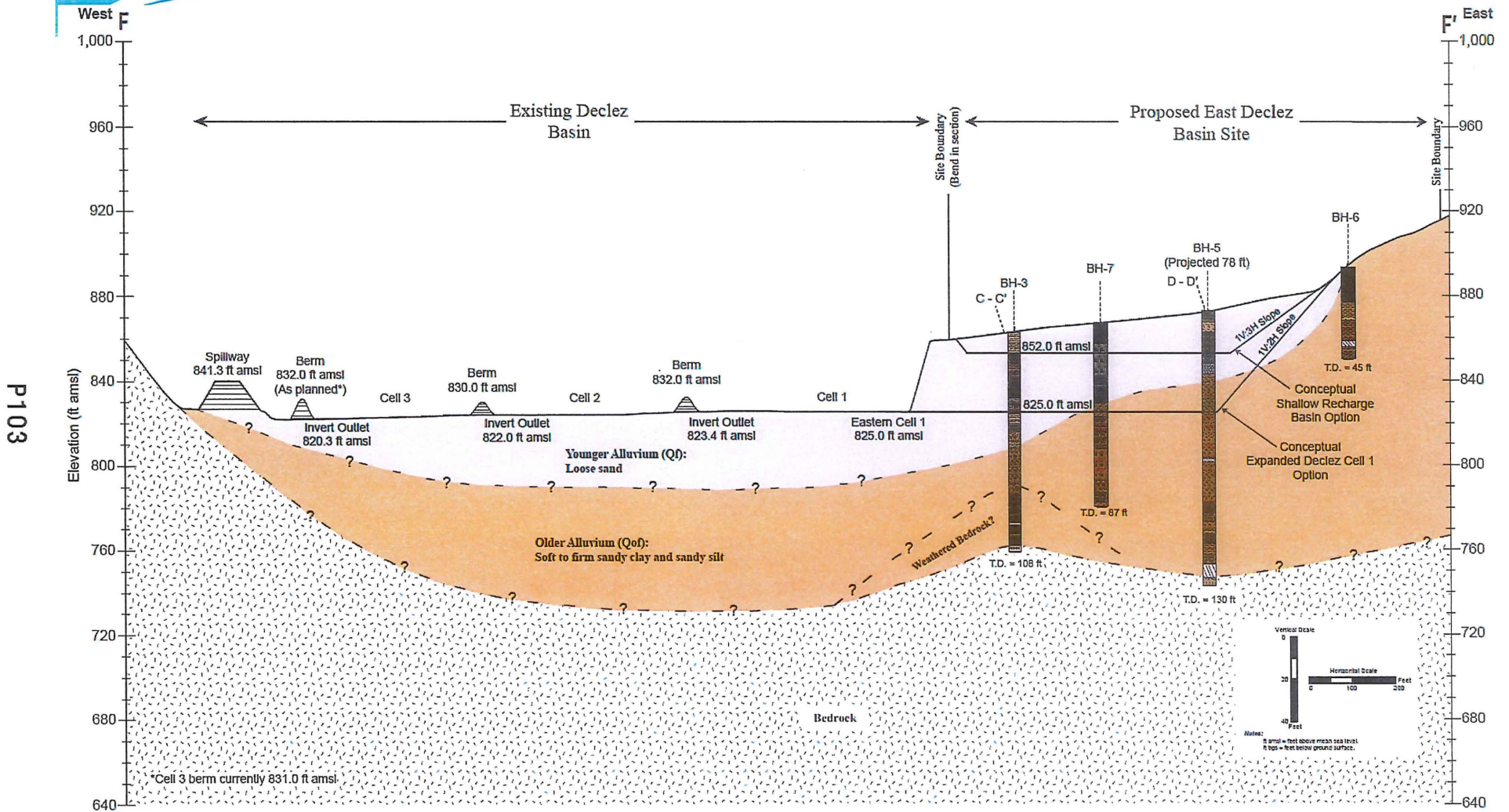


# Conceptual Basin Layout – Storage Basin

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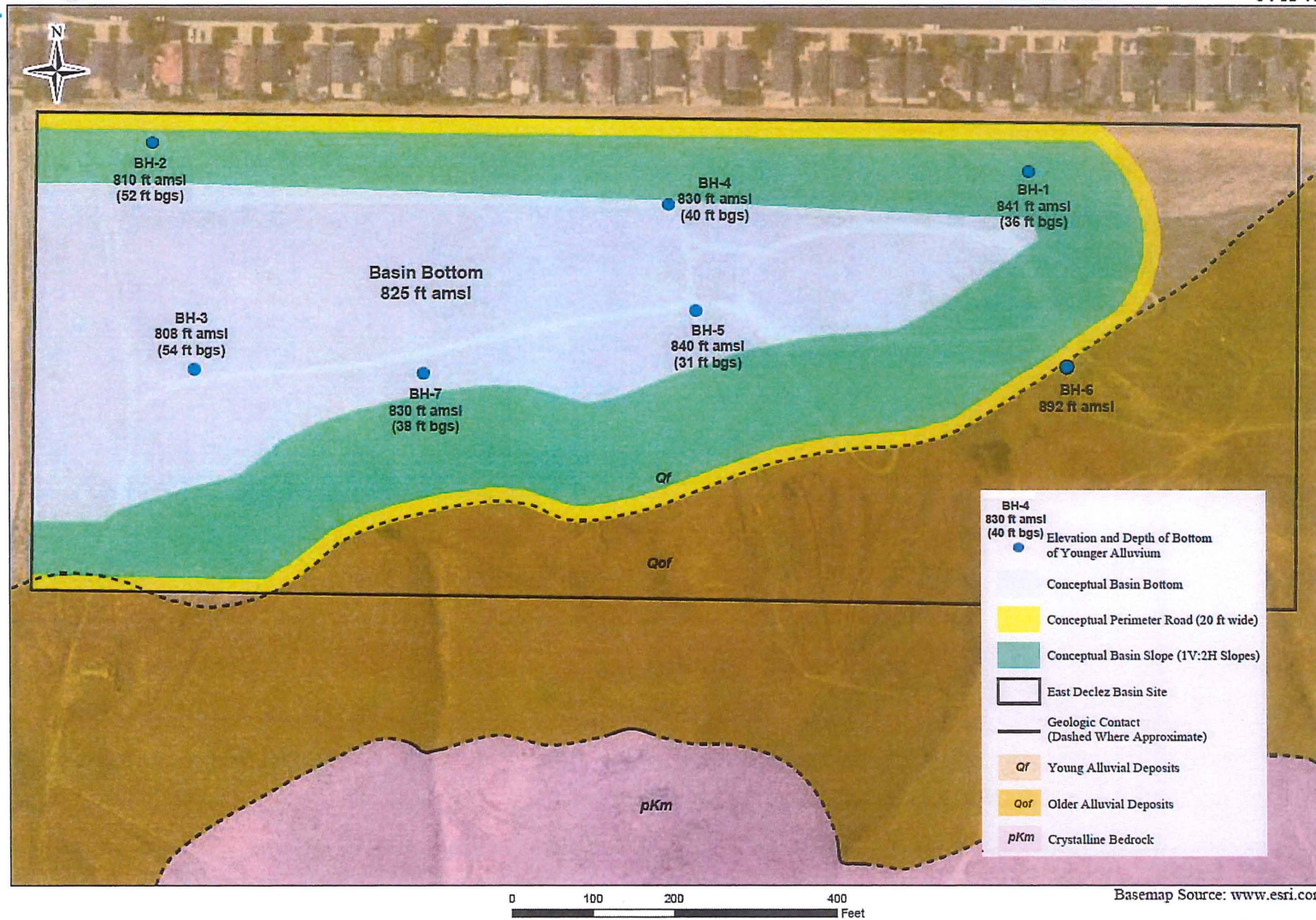


# Conceptual Basin Layout – Storage Basin



# Conceptual Basin Layout – Storage Basin

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# Conclusions

- A Recharge Basin at the East Declez Site would have to be Designed with a Shallow Bottom Due to Thin Permeable Alluvium.
- A Shallow Recharge Basin Concept is not Feasible Due to the High Basin Bottom Elevation Relative to the Declez Channel Diversion Point.
- The Site Could Alternatively Be Used As an Expansion of the Existing Declez Basin.

# Conclusions

- Wildermuth Environmental prepared a supplementary study and report to evaluate potential Net Increase in Recharge on the expansion of the Existing Declez Basin

# Wildermuth's Scope

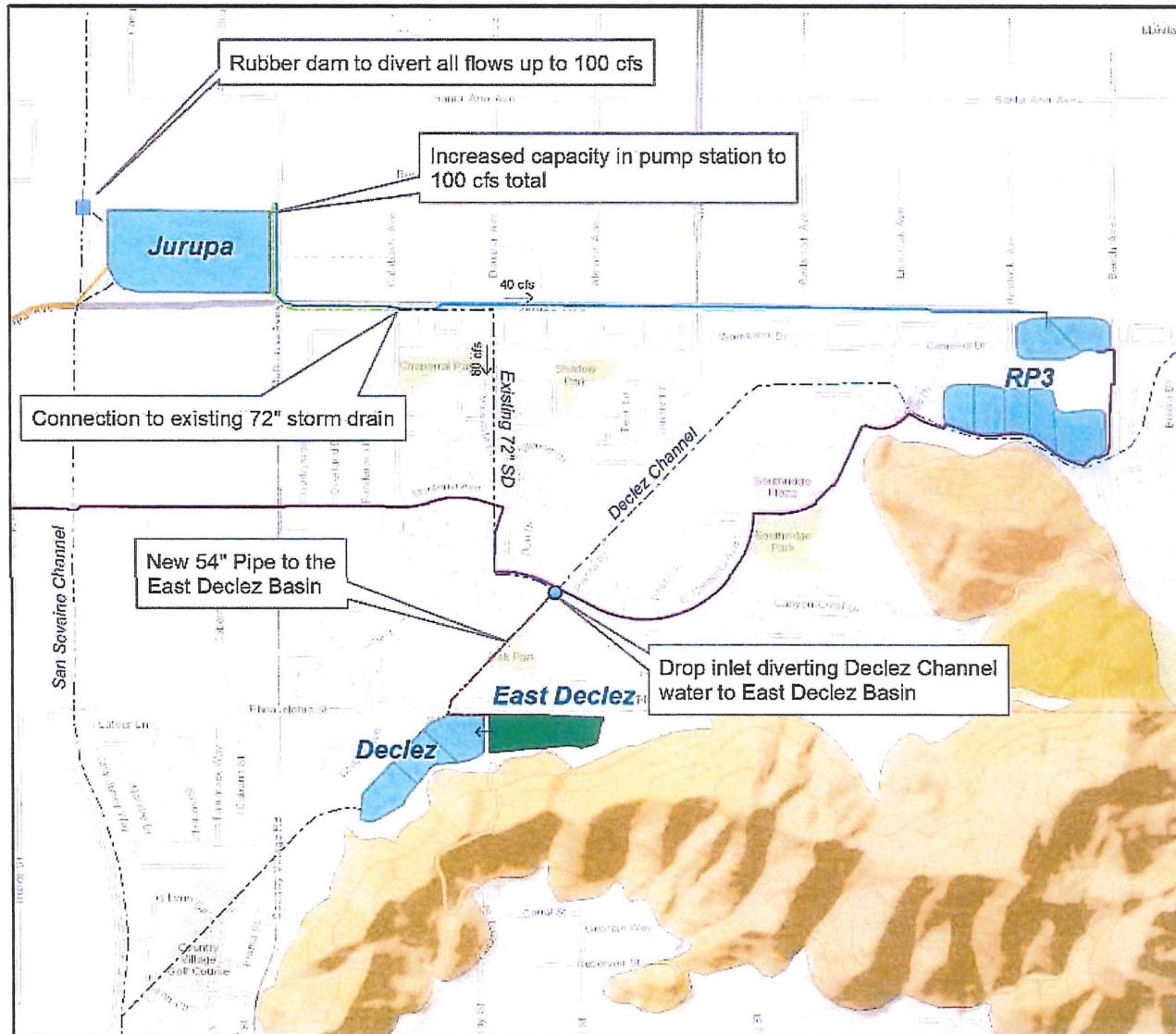
- Evaluate the range of expected recharge and unit cost for the proposed East Declez Basin project based on the new information from Thomas Harder and Company's subsurface investigation

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# Original Basin Design Concept

- 35 foot deep, 300 acre-ft basin with spillway to Declez Basin
- Infiltration rate is same as Declez Basin (0.6 ft/day)
- Three alternatives evaluated; optimal alternative  
– 913 acre-ft/yr at \$1,700/acre-ft/yr





**Planned Structures for the East Declez Basin Project**

- Rubber Dam
- Drop Inlet

**Piping Infrastructure**

- Jurupa Force Main
- Wineville Recycled Water Pipeline
- Proposed Pipe from Wineville Basin (PID 23a)
- - - 54" Diversion Pipe
- 42" Pipe from Jurupa Basin to Existing Storm Drain

**Basins**

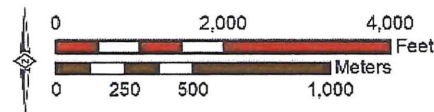
- Existing
- Proposed East Declez Basin



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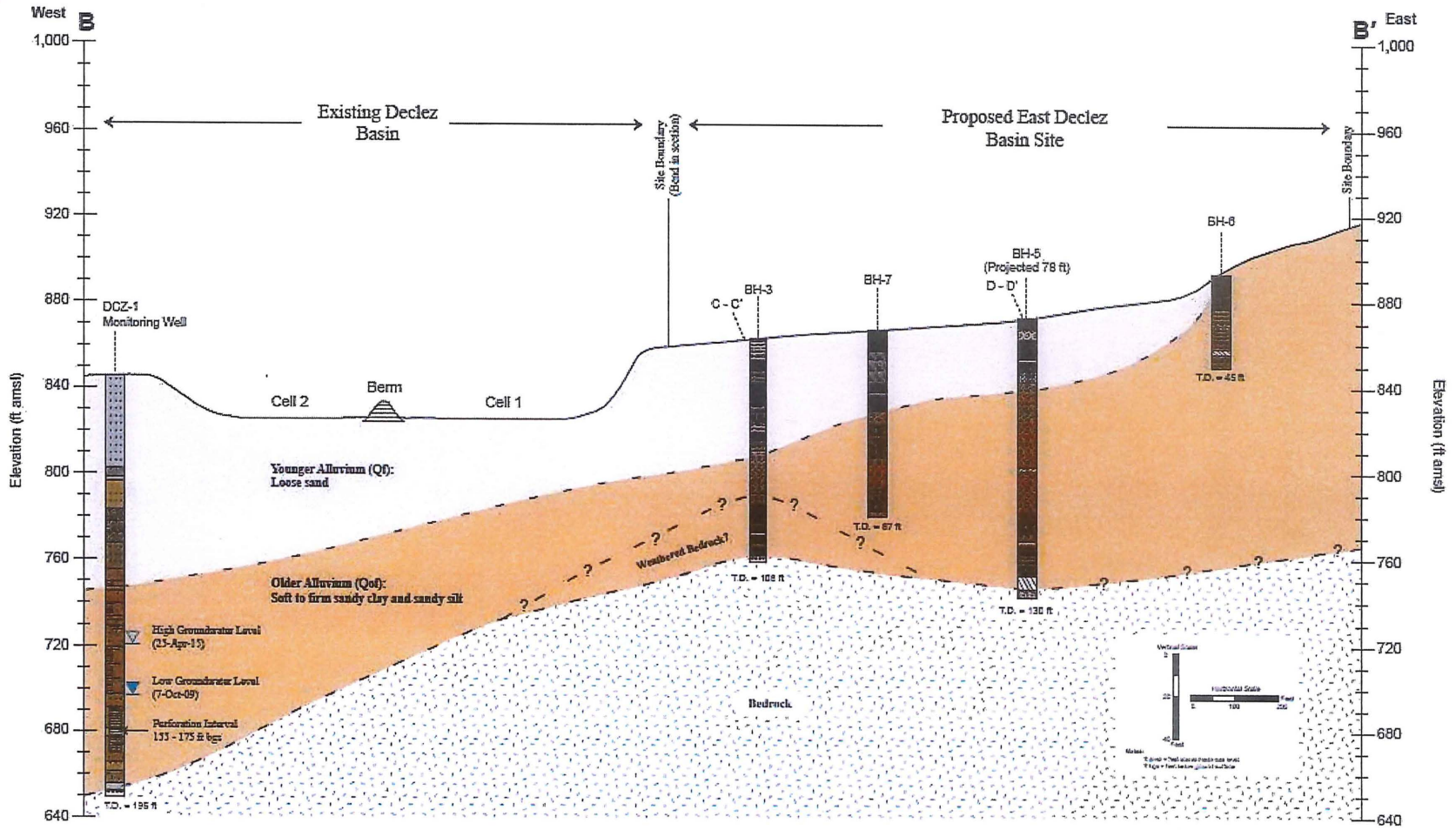
Author: GAR  
Date: 11/19/2014  
Name: EDDeclez\_A12b



Implementation of 2013 Amendment to the 2010 RMPU

**East Declez Basin Project Alternative 2b**

Figure 4



Thomas Harder & Co.  
Groundwater Consulting

Figure 4b



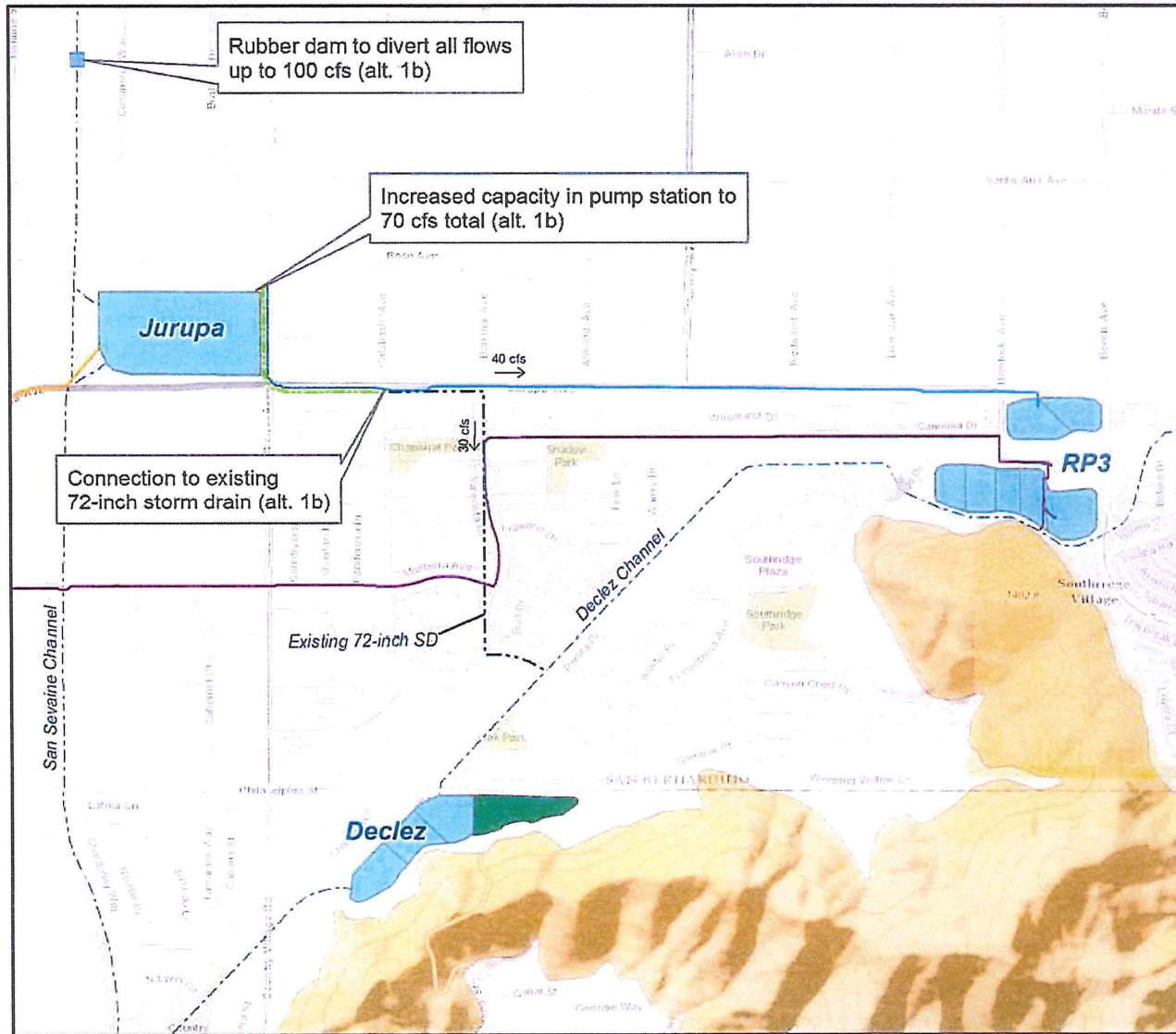
# Project Evaluation

- Two new basin concepts were developed
  1. Expansion of cell 1 of the existing Declez Basin graded at the same bottom elevation as cell 1 of existing basin
    - ~150 acre-ft of additional storage
  2. Shallow basin acting as a separate basin adjacent to Declez
    - 75 acre-ft volume
    - 8 feet deep

# Project Evaluation

- Shallow basin concept was not hydraulically feasible without pumping
- Expansion of Declez Basin cell 1 was evaluated:
  - With and without diversion of stormwater from the Jurupa Basin
  - Infiltration rates in the expansion area of 0.0 and 0.6 ft/day

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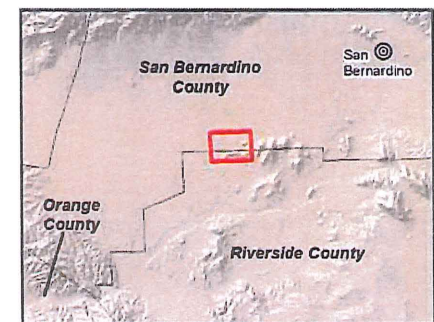


### Piping Infrastructure

- Jurupa Force Main
- Wineville Recycled Water Pipeline
- Proposed Pipeline from Wineville Basin (PID 23a)
- 36" Pipeline from Jurupa Basin to Existing Storm Drain (alt. 1b)

### Basins

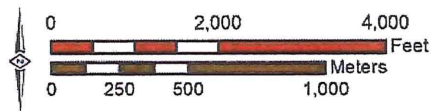
- Existing
- Proposed Declez Basin Cell 1 Extension



Produced by:



Author: GAR  
 Date: 2/17/2016  
 Name: EDeclez\_2016\_all\_1



Implementation of 2013 Amendment  
 to the 2010 RMPU

## East Declez Basin New Project Alternatives 1a/1b

Figure 1

# Evaluation Results

Net New Recharge and Unit Costs for the East Declez Basin Project with and without Infiltration over Project Area

Alternative	Net New Recharge (acre-ft/yr)		Annual Unit Cost (\$/acre-ft)	
	Infiltration Rate in Expanded Cell 1 Area = 0.0 ft/day	Infiltration Rate in Expanded Cell 1 Area = 0.6 ft/day	Infiltration Rate in Expanded Cell 1 Area = 0.0 ft/day	Infiltration Rate in Expanded Cell 1 Area = 0.6 ft/day
1a	144	300	\$5,099	\$2,467
1b	414	601	\$2,420	\$1,678

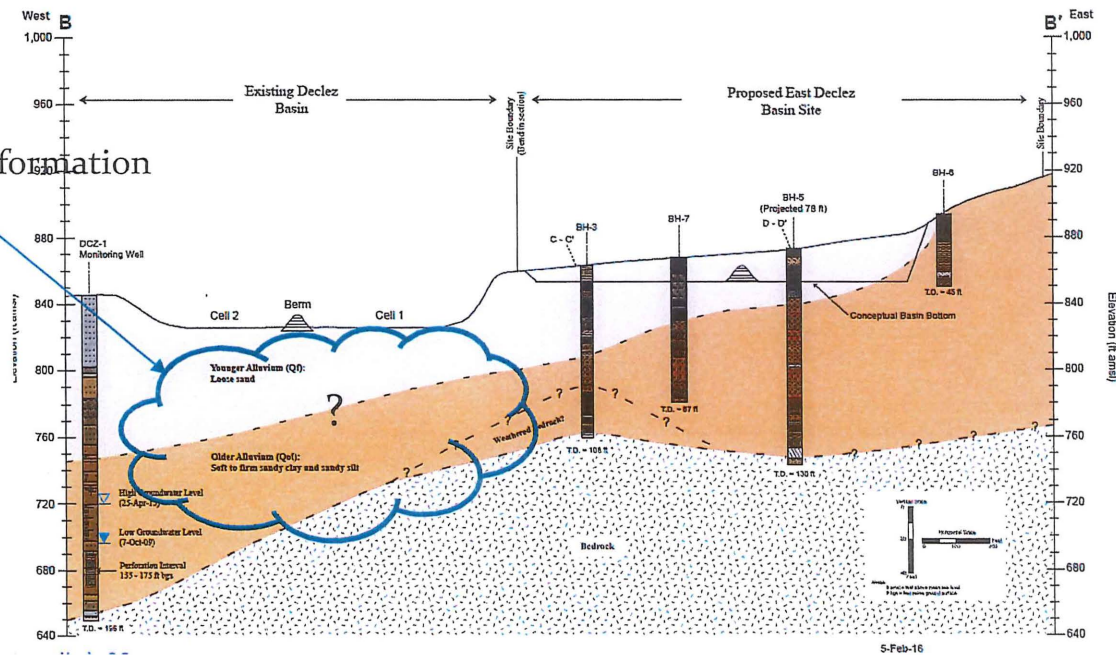
P114

# Recommendations

- No Current Subsurface Information Beneath Existing Declez Basin to Compare with East Declez.

P115

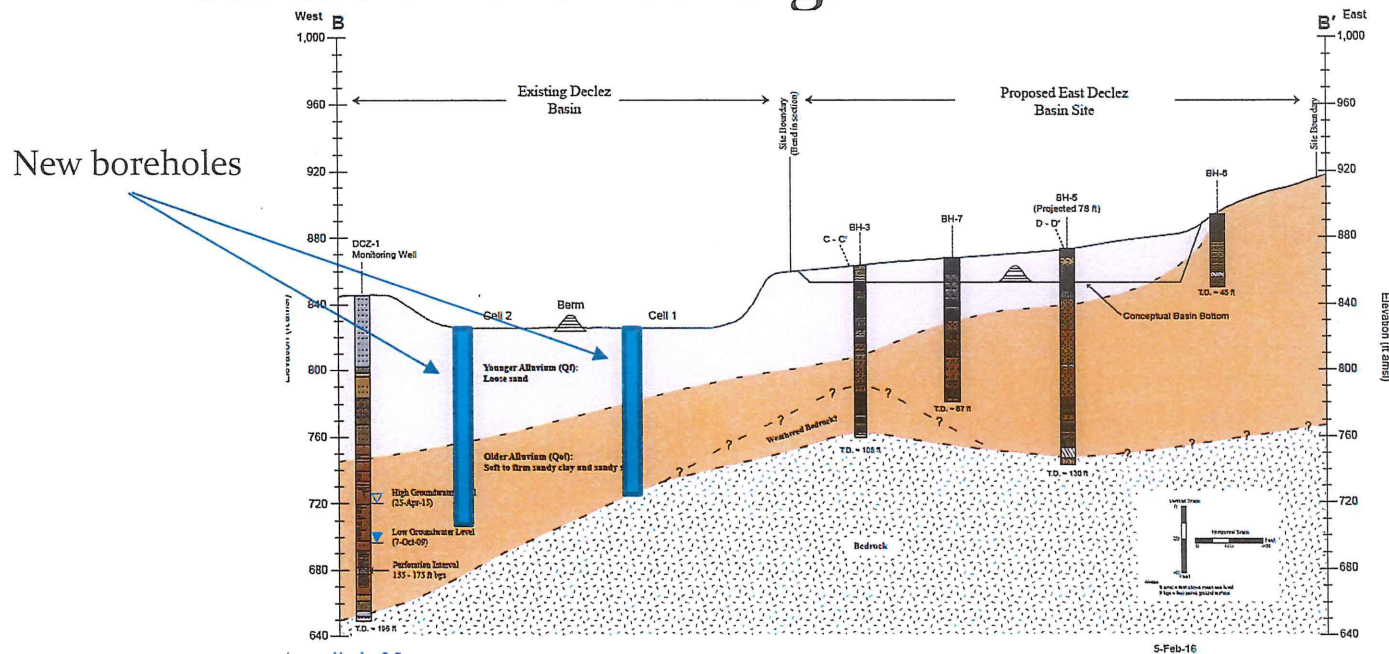
No subsurface information



# Recommendations

- Further field investigations - two boreholes to provide Subsurface Data that could be used to condition the Recharge Estimates from WEI.

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# Recommendations

- Fiscal and Schedule impacts to additional field investigation:

Realistic Schedule for additional field investigation			
Drilling/Reporting/Administrative support	\$35,000	6 - weeks	Considers mobilizing the driller, meeting permits, access to basin, delays with rain, etc.
Extension to the feasibility period with property owner	\$25,000	N/A	Requires extending feasibility period by one month to meet projected duration. \$25k of the \$50k becomes non-refundable

Optimist Schedule for additional field investigation			
Drilling/Reporting/Administrative support	\$35,000	3 - weeks	Aggressive timeline

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# Property Purchase Schedule

- Opened Escrow – Nov. 19, 2015
- Finalize Board decision on property purchase – March 2016
- Reply to property owner of decision – April 2016
- Feasibility period expires – May 17, 2016
- Close of Escrow – (on or before) July 18, 2016

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# Questions



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Effects of East Declez Options on Yield and Melded Rate

	SW Yield	RW	Melded Rate	Capital Cost	Annual Cost
Original 8-2c	6781	4936	612	\$56,962,000	\$4,150,372
TO #1 Amended	6410	7125	665.9	\$58,750,000	\$4,271,696
Alt 1a East Declez	5641/5797	7125	610/595	\$46,490,000	\$3443011/\$3448783
Alt 1b East Declez	5911/6098	7125	628/610	\$50,369,000	\$3710401/\$3717420
No East Declez	5497	7125	493	\$35,280,000	\$2,708,683

#/ = Infiltration rate of .06 per day in expanded area

Alt 1b assumes improvement to divert water from Jurupa

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# East Declez and 2013 RMPU Proposed Projects

## East Declez Project Alternatives

PID	Project	Yield (acre-ft/yr)	Storm Water Recharge Unit Cost (\$/acre-ft)	Capital Cost	Total Annual Cost	Comment
	2016 East Declez 1a (0 ft/day)	144	\$5,099	\$11,210,000	\$734,300	
	2016 East Declez 1b (0 ft/day)	414	\$2,420	\$15,090,000	\$1,001,800	
	2016 East Declez 1a (0.6 ft/day)	300	\$2,467	\$11,210,000	\$740,100	
	2016 East Declez 1b (0.6 ft/day)	601	\$1,678	\$15,090,000	\$1,008,700	

Table 8-2a Projects Recommended for Discussion

PID	Project	Yield (acre-ft/yr)	Storm Water Recharge Unit Cost (\$/acre-ft)	Capital Cost	Total Annual Cost	Comment
1a	Montclair Basins - Transfer water between Montclair Basins and deepen MC 4	71	\$4,634	\$5,050,000	\$331,100	Unit Cost is too high.
5a	North West Upland Basin - Increase drainage area and basin enlargement	93	\$3,267	\$4,640,000	\$305,300	Unit Cost is too high.
21a	RP3 Basin Improvements (2010 RMPU) - Inlet improvements and enlargement	406	\$2,197	\$13,464,000	\$890,900	The existing RP3 Basins combined with the 2013 RMPU Proposed RP3 Improvements (PID 23a in Table 8-2c) will capture most of the water passing through the RP3 Basins. The remaining benefit would result in a unit cost that is too high.
26a	Sultana Avenue - Deepen basin by 10 feet	7	\$4,697	\$502,200	\$33,000	Unit Cost is too high.

Table 8-2a Projects Not Recommended for Discussion

PID	Project	Yield (acre-ft/yr)	Storm Water Recharge Unit Cost (\$/acre-ft)	Capital Cost	Total Annual Cost	Comment
3	Montclair Basins - Automate inlet to MC 16	0	-	\$50,000	(\$2,700)	Reduce operation cost, no yield.
4	Montclair Basins - Construct low-level drains from Basin 1 to 2 and 2 to 3	0	-	\$790,000	\$51,400	No new yield.
6	Princeton Basin - Basin enlargement and increased drainage area	0	-	-	-	The SBCFCD did not allow the City of Ontario to connect the new 5th Street storm drain to the Princeton Basin. The SBCFCD required improvements to the Princeton Basin which made the cost infeasible before a Cost Opinion was done.
8 and 9	San Sevaïne Basins - Extend IEUA recycled water pipeline to SS 3 and construct internal berm in SS 5, and Construct internal berms in SS 1 and SS 2 and install a gate between SS 1 and SS 2	345	\$340	\$1,610,000	\$117,400	Similar work recommended in PDR, 345 SW Yield part of 642 acre-feet projection.
10	San Sevaïne Basins - Increase CB13T capacity and power supply	0	-	-	\$0	CB13T is the imported water turnout.
13	Lower Day Basin - Install gate on mid-level outlet	75	\$554	\$600,000	\$41,800	Included in PID 12.
16	Ontario Bioswale Project - New bioswale	8	\$0	\$650,000	\$42,600	Project completed.
24	Vulcan Pit- Construct new inflow and outflow structures	857	\$2,293	\$30,220,000	\$1,965,500	The reconnaissance-level construction cost opinion of this project was completed in 2006 and should be updated to reflect current land acquisition and construction costs.

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# CHINO BASIN WATERMASTER

## IV. INFORMATION

1. Cash Disbursements for March 2016

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
March 2016

For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	03/04/2016	ACH 030416	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	02/25/2016	16/02/08	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 02/14/16 - 02/25/16	2000 · Accounts Payable	1,125.49
General Journal	02/27/2016	16/02/06	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 02/14/16-02/27/16	2000 · Accounts Payable	5,435.76
TOTAL						6,561.25
Bill Pmt -Check	03/08/2016	19259	ADVANCED OFFICE SMART OFFICE SOLUTION: AR606359		1012 · Bank of America Gen'l Ckg	
Bill	02/24/2016	AR606359		Staples for color copier - acct. # 28019	6031.7 · Other Office Supplies	81.48
TOTAL						81.48
Bill Pmt -Check	03/08/2016	19260	APPLIED COMPUTER TECHNOLOGIES	2662	1012 · Bank of America Gen'l Ckg	
Bill	02/28/2016	2662		Database Consulting - February 2016	6052.2 · Applied Computer Technol	4,069.00
TOTAL						4,069.00
Bill Pmt -Check	03/08/2016	19261	CHARTER COMMUNICATIONS	8245100651455350	1012 · Bank of America Gen'l Ckg	
Bill	03/03/2016	8245100651455350		3/06/16-4/05/16	6053 · Internet Expense	64.99
TOTAL						64.99
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Bill Pmt -Check	03/08/2016	19262	EGOSCUE LAW GROUP	11178	1012 · Bank of America Gen'l Ckg	
Bill	02/28/2016	11178		Ag Pool Legal Services - February 2016	8467 · Ag Legal & Technical Services	9,092.50
TOTAL						9,092.50
Bill Pmt -Check	03/08/2016	19263	EUROFINS EATON ANALYTICAL		1012 · Bank of America Gen'l Ckg	
Bill	02/25/2016	L0251704		L0251704	7108.4 · Hydraulic Control-Lab Svcs	440.00
Bill	02/25/2016	L0250377		L0250377	7108.4 · Hydraulic Control-Lab Svcs	1,592.00
TOTAL						2,032.00
Bill Pmt -Check	03/08/2016	19264	LEVEL 3 COMMUNICATIONS	42280355	1012 · Bank of America Gen'l Ckg	
Bill	02/23/2016	42280355		2/17/16-3/16/16	6053 · Internet Expense	1,335.58
TOTAL						1,335.58
Bill Pmt -Check	03/08/2016	19265	MIJAC ALARM	385090	1012 · Bank of America Gen'l Ckg	
Bill	03/01/2016	385090		Fire monitoring 3/01/16-5/31/16	6026 · Security Services	411.00
				Opening/closing reports 3/01/16-5/31/16	6026 · Security Services	54.00
				Annex - opening/closing reports 3/01/16-5/31/16	6026 · Security Services	45.00
				Commercial monitoring 3/01/16-5/31/16	6026 · Security Services	147.00
TOTAL						657.00
Bill Pmt -Check	03/08/2016	19266	PARK PLACE COMPUTER SOLUTIONS, INC.	509	1012 · Bank of America Gen'l Ckg	
Bill	02/29/2016	509		IT Consulting Services - February 1-29, 2016	6052.1 · Park Place Comp Solutn	3,000.00

**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**March 2016**

For Informational Purposes Only

TOTAL	Type	Date	Num	Name	Memo	Account	Paid Amount
							3,000.00
	Bill Pmt -Check	03/08/2016	19267	PREMIERE GLOBAL SERVICES	20549353	1012 · Bank of America Gen'l Ckg	
	Bill	02/28/2016	20549353		WM coordination call on 2/01	6909.1 · OBMP Meetings	24.10
					Appropriative Pool agenda prep call on 2/02	8312 · Meeting Expenses	6.17
					Ag Pool agenda prep call on 2/02	8412 · Meeting Expenses	6.18
					Non-Ag Pool agenda prep call on 2/02	8512 · Meeting Expense	6.18
					Appropriative Pool agenda call on 2/03	8312 · Meeting Expenses	7.11
					SGMA discussion call on 2/03	6906.23 · SGMA Reporting Requirements	22.36
					Appropriative Pool meeting check call on 2/10	8312 · Meeting Expenses	10.26
					Ag Pool meeting check call on 2/10	8412 · Meeting Expenses	10.26
					Non-Ag Pool meeting check call on 2/10	8512 · Meeting Expense	10.27
					Non-Ag Pool meeting call on 2/11	8512 · Meeting Expense	60.10
					Annual Report kickoff call on 2/12	6909.1 · OBMP Meetings	41.91
					WM coordination call on 5/15	6909.1 · OBMP Meetings	40.93
					Approp. Pool confidential meeting call on 2/18	8312 · Meeting Expenses	6.14
					WM Coordination call on 2/19	6909.1 · OBMP Meetings	14.48
					SGMA compliance call on 2/22	6906.23 · SGMA Reporting Requirements	9.60
					WM coordination call on 2/22	6909.1 · OBMP Meetings	12.30
					SGMA compliance call on 2/24	6906.23 · SGMA Reporting Requirements	10.70
					SGMA compliance call on 2/24	6906.23 · SGMA Reporting Requirements	18.18
					WM coordination call on 2/26	6909.1 · OBMP Meetings	25.41
					Fee - Confidential	6022 · Telephone	49.00
					Fee - General	6022 · Telephone	49.00
					Service fee	6022 · Telephone	11.99
							<u>452.63</u>
							452.63
	Bill Pmt -Check	03/08/2016	19268	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	Bill	03/02/2016	1394905143		Annual Unfunderd Accrued Liability	60180 · Employers PERS Expense	3,077.00
							<u>3,077.00</u>
							3,077.00
	Bill Pmt -Check	03/08/2016	19269	PURCHASE POWER	8000909000168851	1012 · Bank of America Gen'l Ckg	
	Bill	02/28/2016	8000909000168851		Tape strips and ink cartridges	6042 · Postage - General	541.03
							<u>541.03</u>
							541.03
	Bill Pmt -Check	03/08/2016	19270	RAUCH COMMUNICATION CONSULTANTS, LLC Feb-1604		1012 · Bank of America Gen'l Ckg	
	Bill	02/28/2016	Feb-1604		Annual Report work through January 31, 2016	6061.3 · Rauch	1,275.00
							<u>1,275.00</u>
							1,275.00
	Bill Pmt -Check	03/08/2016	19271	READY REFRESH BY NESTLE	0023230253	1012 · Bank of America Gen'l Ckg	

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**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	02/29/2016	0023230253		Office Water Bottle - February 2016	6031.7 · Other Office Supplies	80.88
TOTAL						80.88
Bill Pmt -Check	03/08/2016	19272	RR FRANCHISING, INC.	18639	1012 · Bank of America Gen'l Ckg	
Bill	03/01/2016	18639		Monthly service charge for March 2016	6024 · Building Repair & Maintenance	740.00
TOTAL						740.00
Bill Pmt -Check	03/08/2016	19273	SAN BERNARDINO COUNTY - DEPT. AIRPORTS	Lease No. CNO-1843	1012 · Bank of America Gen'l Ckg	
Bill	03/01/2016	Lease No. CNO-1843		Annual rental payment for extensometer site	7107.9 · Grd Level-Other	1,596.00
TOTAL						1,596.00
Bill Pmt -Check	03/08/2016	19274	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'l Ckg	
Bill	02/23/2016	001017890001		Vision Insurance Premium - March 2016	60182.2 · Dental & Vision Ins	85.60
TOTAL						85.60
Bill Pmt -Check	03/08/2016	19275	WILDERMUTH ENVIRONMENTAL INC		1012 · Bank of America Gen'l Ckg	
Bill	01/31/2016	2016003		2016003	6906.31 · OBMP-Pool, Adv. Board Mtgs	5,109.54
Bill	01/31/2016	2016004		2016004	6906.32 · OBMP-Other General Meetings	1,105.00
Bill	01/31/2016	2016005		2016005	6906.74 · OBMP-Mat'l Phy. Injury Requests	41.25
Bill	01/31/2016	2016006		2016006	6906.71 · OBMP-Data Req.-CBWM Staff	26,404.43
Bill	01/31/2016	2016007		2016007	6906.23 · SGMA Reporting Requirements	1,812.00
Bill	01/31/2016	2016008		2016008	6906 · OBMP Engineering Services	1,538.00
Bill	01/31/2016	2016009		2016009	6906.1 · OBMP-Watermaster Model Update	27,280.50
Bill	01/31/2016	2016010		2016010	7103.3 · Grdwtr Qual-Engineering	271.25
Bill	01/31/2016	2016011		2016011	7104.3 · Grdwtr Level-Engineering	16,617.13
Bill	01/31/2016	2016012		Neva Ridge	7107.3 · Grd Level-SAR Imagery	17,000.00
Bill	01/31/2016	2016013		Michael Carpenter	7107.6 · Grd Level-Contract Svcs	1,400.00
				2016013	7107.2 · Grd Level-Engineering	5,987.20
Bill	01/31/2016	2016014		2016014	7108.3 · Hydraulic Control-Engineering	669.95
Bill	01/31/2016	2016015		2016015	7108.3 · Hydraulic Control-Engineering	1,211.16
Bill	01/31/2016	2016016		2016016	7108.3 · Hydraulic Control-Engineering	310.00
Bill	01/31/2016	2016017		2016017	7108.32 · HCMP - Adaptive Mgmt Plan	5,752.50
Bill	01/31/2016	2016018		2016018	7108.31 · Hydraulic Control - PBHSP	21,803.60
Bill	01/31/2016	2016019		2016019	7202.2 · Engineering Svc	8,467.46
Bill	01/31/2016	2016020		2016020	7402 · PE4-Engineering	2,628.75
				Michael Carpenter	7403 · PE4-Contract Svcs	4,800.00
Bill	01/31/2016	2016021		2016021	7402.10 · PE4 - MZ1 Pomona Project	43,178.72
Bill	01/31/2016	2016022		2016022	7502 · PE6&7-Engineering	1,278.75
Bill	01/31/2016	2016023		2016023	6906.73 · OBMP-Safe Yield Recalculation	12,262.22
Bill	01/31/2016	2016024		2016024	6910.1 · IRP Groundwater Modeling - WEI	18,993.75

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**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
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	<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
TOTAL							225,923.16
	Bill Pmt -Check	03/08/2016	19276	YUKON DISPOSAL SERVICE	08-K2 213849	1012 · Bank of America Gen'l Ckg	
	Bill	03/01/2016	08-k2 213849		Disposal Service - March 2016	6024 · Building Repair & Maintenance	111.57
TOTAL							111.57
	Bill Pmt -Check	03/09/2016	19277	MAURIZIO, DANIELLE		1012 · Bank of America Gen'l Ckg	
	Bill	03/08/2016			UPS reimbursement - Returned laptop	6042 · Postage - General	12.00
TOTAL							12.00
	Bill Pmt -Check	03/09/2016	19278	BROWNSTEIN HYATT FARBER SCHRECK		1012 · Bank of America Gen'l Ckg	
	Bill	01/31/2016	629374		629374	6907.44 · SGMA Compliance	3,368.70
	Bill	01/31/2016	629375		629375	6907.42 · Safe Yield Recalculation	117,403.65
					Expenses	6907.42 · Safe Yield Recalculation	108.25
	Bill	01/31/2016	629376		629376	6907.39 · Recharge Master Plan	1,962.90
	Bill	01/31/2016	629377		629377	6071 · BHFS Legal - Court Coordination	1,359.45
					Expenses	6071 · BHFS Legal - Court Coordination	35.31
	Bill	01/31/2016	629378		629378	8575 · BHFS Legal - Non-Ag Pool	1,568.25
	Bill	01/31/2016	629379		629379	8475 · BHFS Legal - Agricultural Pool	1,568.25
	Bill	01/31/2016	629380		629380	8375 · BHFS Legal - Appropriative Pool	1,568.25
	Bill	01/31/2016	629381		629381	6375 · BHFS Legal - Board Meeting	4,017.60
					Expenses	6375 · BHFS Legal - Board Meeting	35.31
	Bill	01/31/2016	629382		629382	6275 · BHFS Legal - Advisory Committee	1,185.75
					Expenses	6275 · BHFS Legal - Advisory Committee	35.31
	Bill	01/31/2016	629383		629383	6907.36 · Santa Ana River Habitat	181.80
	Bill	01/31/2016	629384		Personnel	6073 · BHFS Legal - Personnel Matters	7,866.00
					Contracts	6073 · BHFS Legal - Personnel Matters	729.00
					Alvarez-CalPERS	6073 · BHFS Legal - Personnel Matters	20.70
					Expenses	6073 · BHFS Legal - Personnel Matters	11.06
	Bill	01/31/2016	629385		629385	6078 · BHFS Legal - Miscellaneous	6,763.95
					Expenses	6078 · BHFS Legal - Miscellaneous	198.20
TOTAL							149,987.69
	Bill Pmt -Check	03/10/2016	19279	ACWA JOINT POWERS INSURANCE AUTHORITY	0399884	1012 · Bank of America Gen'l Ckg	
	Bill	02/29/2016	0399884		Prepayment - April 2016	1409 · Prepaid Life, BAD&D & LTD	70.87
					March 2016	60191 · Life & Disab.Ins Benefits	106.38
TOTAL							177.25
	Bill Pmt -Check	03/10/2016	19280	CORELOGIC INFORMATION SOLUTIONS	81665734	1012 · Bank of America Gen'l Ckg	
	Bill	02/29/2016	81665734		81665734	7103.7 · Grdwtr Qual-Computer Svc	62.50

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CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
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Type	Date	Num	Name	Memo	Account	Paid Amount
				81665734	7101.4 · Prod Monitor-Computer	62.50
TOTAL						125.00
Bill Pmt -Check	03/10/2016	19281	DIRECTV	019447404	1012 · Bank of America Gen'l Ckg	
Bill	03/07/2016	019447404		Final bill - service cancelled	6031.7 · Other Office Supplies	32.07
TOTAL						32.07
Bill Pmt -Check	03/10/2016	19282	MINDSHIFT	0212674	1012 · Bank of America Gen'l Ckg	
Bill	03/07/2016	0212674		Installation charge	6052.4 · mindSHIFT Technologies, Inc.	3,770.00
				Prorated monthly service 2/19/16-2/29/16	6052.4 · mindSHIFT Technologies, Inc.	1,432.60
TOTAL						5,202.60
Bill Pmt -Check	03/10/2016	19283	PAYCHEX	2016022500	1012 · Bank of America Gen'l Ckg	
Bill	02/29/2016	2016022500		February 2016	6012 · Payroll Services	456.19
TOTAL						456.19
Bill Pmt -Check	03/10/2016	19284	STAPLES BUSINESS ADVANTAGE	8038241336	1012 · Bank of America Gen'l Ckg	
Bill	02/27/2016	8038241336		Miscellaneous office supplies	6031.7 · Other Office Supplies	270.74
TOTAL						270.74
Bill Pmt -Check	03/10/2016	19285	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg	
Bill	02/27/2016	7076224530355049		February 2016	6175 · Vehicle Fuel	105.07
TOTAL						105.07
General Journal	03/12/2016	03/12/2016	Payroll and Taxes for 02/28/16-03/12/16	Payroll and Taxes for 02/28/16-03/12/16	1012 · Bank of America Gen'l Ckg	
				Direct Deposits for 02/28/16-03/12/16	1012 · Bank of America Gen'l Ckg	20,263.89
				Payroll Taxes for 02/28/16-03/12/16	1012 · Bank of America Gen'l Ckg	6,741.49
			ICMA-RC	457(f) Employee Deductions for 02/28/16-03/12/16	1012 · Bank of America Gen'l Ckg	3,390.52
			ICMA-RC	401(a) Employee Deductions for 02/28/16-03/12/16	1012 · Bank of America Gen'l Ckg	974.11
TOTAL						31,370.01
Bill Pmt -Check	03/16/2016	ACH 031616	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	03/12/2016	16/03/03	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 02/28/16-03/12/16	2000 · Accounts Payable	5,524.82
TOTAL						5,524.82
Bill Pmt -Check	03/16/2016	19286	BOWCOCK, ROBERT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	02/25/2016	2/25 Board Mtg		2/25/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	03/16/2016	19287	BOWMAN, JIM	Board Member Compensation	1012 · Bank of America Gen'l Ckg	

**CHINO BASIN WATERMASTER**  
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<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
Bill	02/25/2016	2/25 Board Mtg		2/25/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	03/16/2016	19288	CURATALO, JAMES	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	02/08/2016	2/08 Admin Mtg		2/08/16 Administrative Meeting	6311 · Board Member Compensation	125.00
Bill	02/22/2016	2/22 Board Agenda		2/22/16 Board Agenda Preview Meeting	6311 · Board Member Compensation	125.00
Bill	02/25/2016	2/25 Board Mtg		2/25/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						375.00
Bill Pmt -Check	03/16/2016	19289	DE BOOM, NATHAN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	02/18/2016	2/18 Advisory Comm		Ag Pool Member Compensation	8411 · Compensation	25.00
				2/18/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	03/16/2016	19290	ELIE, STEVEN	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	02/18/2016	2/18 Admin Mtg		2/18/16 Administrative Meeting	6311 · Board Member Compensation	125.00
Bill	02/22/2016	2/22 Board Agenda		2/22/16 Board Agenda Preview Meeting	6311 · Board Member Compensation	125.00
Bill	02/24/2016	2/24 Admin Mtg		2/24/16 Administrative Meeting	6311 · Board Member Compensation	125.00
Bill	02/25/2016	2/25 Board Mtg		2/25/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						500.00
Bill Pmt -Check	03/16/2016	19291	FEENSTRA, BOB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	02/11/2016	2/11 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				2/11/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	02/25/2016	2/25 Board Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				2/25/16 Board Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						250.00
Bill Pmt -Check	03/16/2016	19292	HALL, PETE*	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	02/11/2016	2/11 Appro Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				2/11/16 Appropriate Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	02/11/2016	2/11 Non Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				2/11/16 Non Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	02/11/2016	2/11 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				2/11/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	02/18/2016	2/18 Advisory Comm		Ag Pool Member Compensation	8411 · Compensation	25.00
				2/18/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	02/18/2016	2/18 RIPCom Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				2/18/16 RIPCom Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	02/25/2016	2/25 Board Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00

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**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
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Type	Date	Num	Name	Memo	Account	Paid Amount
				2/25/16 Board Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						750.00
Bill Pmt -Check	03/16/2016	19293	HOGAN LOVELLS	2967036	1012 · Bank of America Gen'l Ckg	
Bill	02/29/2016	2967036		Non-Ag Pool Legal Services - January 2016	8567 · Non-Ag Legal Service	10,346.59
TOTAL						10,346.59
Bill Pmt -Check	03/16/2016	19294	HUITSING, JOHN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	02/11/2016	2/11 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				2/11/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	03/16/2016	19295	KUHN, BOB	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	02/05/2016	2/05 Admin Mtg		2/05/16 Administrative Meeting	6311 · Board Member Compensation	125.00
Bill	02/11/2016	2/11 Appro Pool Mtg		2/11/16 Appropriative Pool Meeting	6311 · Board Member Compensation	125.00
Bill	02/25/2016	2/25 Board Mtg		2/25/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						375.00
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Bill Pmt -Check	03/16/2016	19296	PIERSON, JEFFREY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	02/11/2016	2/11 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				2/11/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	02/25/2016	2/25 Board Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
				2/25/16 Board Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						250.00
Bill Pmt -Check	03/16/2016	19297	R&D PEST SERVICES	0199446	1012 · Bank of America Gen'l Ckg	
Bill	03/10/2016	0199446		Pest control-ant and fleas	6024 · Building Repair & Maintenance	100.00
TOTAL						100.00
Bill Pmt -Check	03/16/2016	19298	THOMAS, THOMAS R.	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	02/25/2016	2/25 Board Mtg		2/25/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	03/16/2016	19299	VANDEN HEUVEL, GEOFFREY	6311	1012 · Bank of America Gen'l Ckg	
Bill	02/11/2016	2/11 Ag Pool mtg		2/11/16 Ag Pool Meeting	6311 · Board Member Compensation	125.00
Bill	02/25/2016	2/25 Board Mtg		2/25/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	03/16/2016	19300	VANDEN HEUVEL, ROB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	02/11/2016	2/11 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00



CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
March 2016

For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
				2/11/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	02/18/2016	2/18 Advisory Comm		Ag Pool Member Compensation	8411 · Compensation	25.00
				2/18/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						250.00
Bill Pmt -Check	03/25/2016	19301	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	02/29/2016	XXXX-XXXX-XXXX-9341		Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	286.06
				Purchase windshield wipers for field vehicles	6177 · Vehicle Repairs & Maintenance	115.48
				Purchase miscellaneous office supplies/toner	6031.7 · Other Office Supplies	474.24
				Purchase styrofoam coolers for HR use	6031.7 · Other Office Supplies	18.34
				Purchase door stoppers for office doors	6031.7 · Other Office Supplies	15.95
				Purchase software for office	6054 · Computer Software	177.00
				Purchase backup power supply for workstation	6055 · Computer Hardware	132.78
				Purchase backup power supply for workstation	6055 · Computer Hardware	132.78
				Purchase backup power supply for workstation	6055 · Computer Hardware	132.78
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	44.41
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	271.07
				Purchase lunch bag/cooler for HR use	6031.7 · Other Office Supplies	16.14
				Purchase outdoor antenna for office	6031.7 · Other Office Supplies	97.19
				Purchase wall bracket for tv for lunchroom	6031.7 · Other Office Supplies	34.99
				Hotel-PK-Feb. 7-8, 2016 GRA/SGMA-Sacramento	6191 · Conferences - General	383.54
				Purchase tv for office	6031.7 · Other Office Supplies	399.59
				Purchase key tags for keys for well locks	7104.6 · Grdwtr Level-Supplies	29.97
				Hotel fee for 2/17/16 Vistage Event	6191 · Conferences - General	102.82
				Purchase Amazon Prime Membership-office use	6111 · Membership Dues	106.92
				PK-meeting w/counsel-Court hearing on 2/26/16	6909.1 · OBMP Meetings	30.92
				Renew PK membership in GRA	6111 · Membership Dues	125.00
TOTAL						3,127.97
Bill Pmt -Check	03/29/2016	19302	FOOTHILL AUTO BODY	36252	1012 · Bank of America Gen'l Ckg	
Bill	03/29/2016	36252		Repair Expedition bumper	6177 · Vehicle Repairs & Maintenance	1,116.43
TOTAL						1,116.43
Bill Pmt -Check	03/29/2016	19303	WILDERMUTH ENVIRONMENTAL INC		1012 · Bank of America Gen'l Ckg	
Bill	02/29/2016	2016051		2016051	6906.31 · OBMP-Pool, Adv. Board Mtgs	6,678.29
Bill	02/29/2016	2016052		2016052	6906.32 · OBMP-Other General Meetings	2,884.98
Bill	02/29/2016	2016053		2016053	6906.74 · OBMP-Mat'l Phy. Injury Requests	3,284.16
Bill	02/29/2016	2016054		2016054	6906.71 · OBMP-Data Req.-CBWM Staff	36,699.55
Bill	02/29/2016	2016055		2016055	6906.23 · SGMA Reporting Requirements	5,372.86
Bill	02/29/2016	2016056		2016056	6906 · OBMP Engineering Services	2,370.75

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**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**March 2016**

For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	02/29/2016	2016057		2016057	6906.1 · OBMP-Watermaster Model Update	30,064.00
Bill	02/29/2016	2016058		2016058	7103.3 · Grdwtr Qual-Engineering	4,103.75
Bill	02/29/2016	2016059		2016059	7104.3 · Grdwtr Level-Engineering	13,996.15
Bill	02/29/2016	2016060		2016060	7107.2 · Grd Level-Engineering	1,528.75
Bill	02/29/2016	2016061		2016061	7107.2 · Grd Level-Engineering	4,075.18
				Parsons Brinckerhoff, Inc.	7107.6 · Grd Level-Contract Svcs	21,743.08
Bill	02/29/2016	2016062		2016062	7108.3 · Hydraulic Control-Engineering	178.75
Bill	02/29/2016	2016063		20196063	7108.3 · Hydraulic Control-Engineering	193.75
Bill	02/29/2016	2016064		2016064	7108.3 · Hydraulic Control-Engineering	3,979.00
Bill	02/29/2016	2016065		2016065	7108.32 · HCMP - Adaptive Mgmt Plan	957.50
Bill	02/29/2016	2016066		2016066	7108.31 · Hydraulic Control - PBHSP	1,636.25
Bill	02/29/2016	2016067		2016067	7109.3 · Recharge & Well - Engineering	6,293.25
Bill	02/29/2016	2016068		2016068	7202.2 · Engineering Svc	20,529.15
Bill	02/29/2016	2016069		2016069	7402 · PE4-Engineering	4,684.95
Bill	02/29/2016	2016070		2016070	7402.10 · PE4 - MZ1 Pomona Project	27,736.22
Bill	02/29/2016	2016071		2016071	7502 · PE6&7-Engineering	426.25
Bill	02/29/2016	2016072		2016072	6910.1 · IRP Groundwater Modeling - WEI	7,385.00
TOTAL						206,801.57
<b>P133</b>						
Bill Pmt -Check	03/30/2016	19304	BUSINESS TELECOMMUNICATION SYSTEMS IN 10541		1012 · Bank of America Gen'l Ckg	
Bill	03/25/2016	10541		Phone for filing room-vault area	6022 · Telephone	370.32
TOTAL						370.32
Bill Pmt -Check	03/30/2016	19305	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
Bill	03/16/2016	1394905143		1394905143	60182.1 · Medical Insurance	8,384.05
TOTAL						8,384.05
Bill Pmt -Check	03/30/2016	19306	CUCAMONGA VALLEY WATER DISTRICT	Lease due April 1, 2016	1012 · Bank of America Gen'l Ckg	
Bill	03/16/2016			Lease due April 1, 2016	1422 · Prepaid Rent	6,371.16
TOTAL						6,371.16
Bill Pmt -Check	03/30/2016	19307	GREAT AMERICA LEASING CORP.	18458778	1012 · Bank of America Gen'l Ckg	
Bill	03/25/2016	18458778		Invoice	6043.1 · Ricoh Lease Fee	3,285.31
TOTAL						3,285.31
Bill Pmt -Check	03/30/2016	19308	LEGAL SHIELD	0111802	1012 · Bank of America Gen'l Ckg	
Bill	03/25/2016	0111802		Employee deductions - March 2016	60194 · Other Employee Insurance	51.80
TOTAL						51.80
Bill Pmt -Check	03/30/2016	19309	LEVEL 3 COMMUNICATIONS	42869646	1012 · Bank of America Gen'l Ckg	

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
March 2016

For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	03/25/2016	42869646		3/17/16-4/16/16	6053 · Internet Expense	1,086.23
TOTAL						1,086.23
Bill Pmt -Check	03/30/2016	19310	MINDSHIFT	0212690	1012 · Bank of America Gen'l Ckg	
Bill	03/14/2016	0212690		IT Services - March 2016 monthly services	6052.4 · mindSHIFT Technologies, Inc.	3,770.00
TOTAL						3,770.00
Bill Pmt -Check	03/30/2016	19311	SANDERS, LAURA		1012 · Bank of America Gen'l Ckg	
Bill	03/28/2016	2/26/16 Transcript		Transcript for 2/26/16 Court Hearing	6046 · Legal Publications/Services	204.00
TOTAL						204.00
Bill Pmt -Check	03/30/2016	19312	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
Bill	03/25/2016	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	618.93
TOTAL						618.93
Bill Pmt -Check	03/30/2016	19313	STAPLES BUSINESS ADVANTAGE	8038340955	1012 · Bank of America Gen'l Ckg	
Bill	02/29/2016	8038340955		Miscellaneous office supplies	6031.7 · Other Office Supplies	107.43
TOTAL						107.43
Bill Pmt -Check	03/30/2016	19314	STATE COMPENSATION INSURANCE FUND	1970970-15	1012 · Bank of America Gen'l Ckg	
Bill	03/25/2016	1970970-15		1970970-15	60183 · Worker's Comp Insurance	961.58
TOTAL						961.58
Bill Pmt -Check	03/30/2016	19315	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
Bill	03/31/2016				60182.4 · Retiree Medical	23.62
TOTAL						23.62
Bill Pmt -Check	03/30/2016	19316	UNITED HEALTHCARE	0040150896	1012 · Bank of America Gen'l Ckg	
Bill	03/25/2016	0040150896		Dental Insurance Premium - April 2016	60182.2 · Dental & Vision Ins	764.54
TOTAL						764.54
Bill Pmt -Check	03/30/2016	19317	VERIZON	012519128144592510	1012 · Bank of America Gen'l Ckg	
Bill	03/25/2016	012519128144592510		012519128144592510	6022 · Telephone	137.72
TOTAL						137.72
Bill Pmt -Check	03/30/2016	19318	VERIZON WIRELESS	9762055779	1012 · Bank of America Gen'l Ckg	
Bill	03/25/2016	9762055779		9762055779	7103.7 · Grdwtr Qual-Computer Svc	100.06
TOTAL						100.06
Bill Pmt -Check	03/30/2016	19319	VERIZON WIRELESS	9761576819	1012 · Bank of America Gen'l Ckg	

CHINO BASIN WATERMASTER  
Cash Disbursements For The Month of  
March 2016

For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	03/14/2016	9761576819		9761576819	6022 · Telephone	274.58
TOTAL						<u>274.58</u>
General Journal	03/31/2016	03/31/2016	Payroll and Taxes for 03/13/16-03/26/16	Payroll and Taxes for 03/13/16-03/26/16	1012 · Bank of America Gen'l Ckg	
				Direct Deposist for 03/13/16-03/26/16	1012 · Bank of America Gen'l Ckg	20,392.69
				Payroll Taxes for 03/13/16-03/26/16	1012 · Bank of America Gen'l Ckg	6,799.81
			ICMA-RC	457(f) Employee Deductions for 03/13/16-03/26/16	1012 · Bank of America Gen'l Ckg	3,390.52
			ICMA-RC	401(a) Employee Deductions for 03/13/16-03/26/16	1012 · Bank of America Gen'l Ckg	974.11
TOTAL						<u>31,557.13</u>
Bill Pmt -Check	03/31/2016	ACH 033116	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	03/31/2016	16/03/06	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 03/13/16-03/26/16	2000 · Accounts Payable	5,524.82
TOTAL						<u>5,524.82</u>
					<b>Total Disbursements:</b>	<u><u>742,750.95</u></u>

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# CHINO BASIN WATERMASTER

## IV. INFORMATION

2. Recharge Investigations and Projects Committee (RIPCom)

# Recharge Investigations and Projects

## Committee Meeting

### Agenda

**When:** Thursday, March 17, 2016 @ 9:30 a.m.

**Where:** Chino Basin Watermaster  
9641 San Bernardino Rd.  
Rancho Cucamonga, CA 91730

**Topics:**

1. Introductions
2. RMPU Financing Plan
  - a) Status updates
    - i. 2013 Recharge Master Plan Update Financing Plan
3. New/Old Projects consideration
  - a) Open forum for potential new projects
  - b) 2013 RMPUA Project list (Table 8-2a) review
4. IEUA/CBWM joint projects
  - a) Status updates
  - b) Budget updates
5. RMPU Implementation updates
  - a) Sustainability projects
    - i. Vulcan Pit
  - b) Contact with sand and gravel companies
  - c) AP New Yield and cost allocation agreement
  - d) Flood Control and water conservation agreement
  - e) Agreement with property owners
  - f) MS4
6. Declez/East Declez Basin Tour (Just east of 9970 Philadelphia Ave, Jurupa Valley, 92509)

**\*The March 17<sup>th</sup> RIPCom meeting will end promptly at 10 AM for the Basin Tour**

Next Meeting Date: Thursday, April 21, 2016 @ 9:30 A.M.

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Recharge Investigation and Projects Committee, PAGE 1 OF 2

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Project Name	Project Status	Anticipated (Or Actual) Project Completion Date	Project Cost To Date	TOTAL PROJECT BUDGET			PERCENT COST SHARE		Lifetime of Project BUDGET ALLOCATION			IEUA PROJECT COSTS		CBWM PROJECT COSTS		
				Original Budget	Proposed Revised Budget	Approved Revised Budget	IEUA	CBWM	Grant Funding	IEUA	CBWM	Actual Cost To Date	Remaining Balance Available (Based on Project Budget)	Actual Share (Based on Actual Cost To Date)	Invoices Paid To Date	Remaining Balance Available (Based on Project Budget)
<b>Pre-RMPU Ongoing Projects</b>																
GWR SCADA Upgrades (Task No. 4) <sup>3</sup>	Design	2/14/2017	\$ 171,563	\$ 892,000	\$ -	\$ 892,000	50%	50%	\$ 139,650	\$ 376,175	\$ 421,875	\$ 72,352	\$ 303,823	\$ 72,352	\$ 56,514	\$ 365,361
COMMUNICATION Upgrades (Task No. 3)	Construction	2/12/2016	\$ 1,122,293	\$ 1,245,000	\$ -	\$ 1,245,000	50%	50%	\$ 192,850	\$ 526,075	\$ 526,075	\$ 474,225	\$ 51,850	\$ 474,225	\$ 97,034	\$ 429,041
CB20 Noise Mitigation (CBFIP Phase II Agreement)	Construction	2/17/2016	\$ 143,539	\$ 160,000	\$ -	\$ 160,000	50%	50%	\$ -	\$ 80,000	\$ 80,000	\$ 71,770	\$ 8,231	\$ 71,770	\$ 25,208	\$ 54,792
Upper Santa Ana River Habitat Conservation Plan (Task No. 7)	Evaluation	6/30/2017	\$ 37,680	\$ 160,000	\$ -	\$ 160,000	50%	50%	\$ -	\$ 80,000	\$ 80,000	\$ 18,840	\$ 61,160	\$ 18,840	\$ -	\$ 80,000
East Declez Basin (1st Amendment - Task No. 1)	Pre-Design	12/29/2017	\$ 139,821	\$ -	\$ -	\$ 3,665,000 *	-	100%	\$ -	\$ -	\$ 3,665,000	\$ -	\$ -	\$ 139,821	\$ -	\$ 3,665,000
<b>SUBTOTAL PRE-RMPU PROJECTS</b>	---	---	<b>\$ 1,614,896</b>	<b>\$ 2,457,000</b>	<b>\$ -</b>	<b>\$ 6,122,000</b>	---	---	<b>\$ 332,500</b>	<b>\$ 1,062,250</b>	<b>\$ 4,772,950</b>	<b>\$ 637,186</b>	<b>\$ 425,064</b>	<b>\$ 777,007</b>	<b>\$ 178,756</b>	<b>\$ 4,594,194</b>
<b>RMPU Projects</b>																
San Sevaine Improvements (Task No. 8)	Design	7/5/2017	\$ 386,619	\$ 2,500,000	\$ -	\$ 6,460,000	50%	50%	\$ 1,125,000	\$ 2,667,500	\$ 2,667,500	\$ 159,645	\$ 2,507,855	\$ 159,645	\$ 111,118	\$ 2,556,382
2013 RMPU Amendment Yield Enhancement Projects (Task No. 1)	Pre-Design	12/29/2017	\$ 168,218	\$ 8,122,500	\$ -	\$ 3,825,500 **	7%	93%	\$ -	\$ 250,250	\$ 3,575,250	\$ 11,004	\$ 239,246	\$ 157,214	\$ -	\$ 3,575,250
Lower Day Basin RMPU Improvement Project (Task No. 2)	Pre-Design	1/5/2018	\$ 169,630	\$ 2,480,000	\$ -	\$ 2,480,000	0%	100%	\$ 1,125,000	\$ -	\$ 1,355,000	\$ -	\$ -	\$ 92,681	\$ 96,254	\$ 1,258,746
2013 RMPU Amendment Yield Enhancement Projects Construction	Pending - Note <sup>1</sup>	6/30/2020	\$ -	\$ -	\$ 38,622,500	\$ -	0%	100%	\$ -	\$ -	\$ 38,622,500	\$ -	\$ -	\$ -	\$ -	\$ 38,622,500
2013 RMPU Amendment - Victoria Basin Construction	Pending - Note <sup>2</sup>	6/30/2019	\$ -	\$ -	\$ 130,000	\$ -	50%	50%	\$ -	\$ 65,000	\$ 65,000	\$ -	\$ 65,000	\$ -	\$ -	\$ 65,000
2013 RMPU Amendment - RP-3 Construction	Pending - Note <sup>2</sup>	6/30/2020	\$ -	\$ -	\$ 3,300,000	\$ -	50%	50%	\$ -	\$ 1,650,000	\$ 1,650,000	\$ -	\$ 1,650,000	\$ -	\$ -	\$ 1,650,000
<b>SUBTOTAL RMPU PROJECTS</b>	---	---	<b>\$ 724,467</b>	<b>\$ 13,102,500</b>	<b>\$ 42,052,500</b>	<b>\$ 12,765,500</b>	---	---	<b>\$ 2,250,000</b>	<b>\$ 4,632,750</b>	<b>\$ 47,935,250</b>	<b>\$ 170,649</b>	<b>\$ 4,462,101</b>	<b>\$ 409,540</b>	<b>\$ 207,372</b>	<b>\$ 47,727,878</b>
<b>GRAND TOTALS</b>	---	---	<b>\$ 2,339,363</b>	<b>\$ 15,559,500</b>	<b>\$ 42,052,500</b>	<b>\$ 18,887,500</b>	---	---	<b>\$ 2,582,500</b>	<b>\$ 5,695,000</b>	<b>\$ 52,708,200</b>	<b>\$ 807,835</b>	<b>\$ 4,887,165</b>	<b>\$ 1,186,547</b>	<b>\$ 386,128</b>	<b>\$ 52,322,072</b>

**NOTES:**  
 \* The total design cost of \$3,665,000 is part of the total approved budget as stated within the first amendment to Task Order No. 1. However, the full design for East Declez will not be implemented until the initial pre-design report is completed and accepted by both IEUA and CBWM  
 \*\* The total design cost of \$3,825,500 is a part of the total approved budget as stated within the first amendment to Task Order No. 1.  
<sup>1</sup> Pending project awaiting evaluation by IEUA. Project has not been funded by an approved Task Order or approved by the Watermaster Board. 100% of construction costs are allocated to Watermaster  
<sup>2</sup> Project(s) are under review by IEUA. Projects have not been funded by an approved Task Order or approved by the Watermaster Board. Project construction costs are allocated 50% to IEUA and 50% to Watermaster.  
<sup>3</sup> Watermaster Board approved an additional amount of \$45,700 (50% of the anticipated additional costs of \$91,400) on November 25, 2014 for the Programmable Logic Controller (PLC) replacements at the five Rubber Dam/Basin systems.

Recharge Investigation and Projects Committee, PAGE 2 OF 2

[2A] [2B] [2C] [2D] [2E] [2F] [2G] [2H] [2I] [2J] [2K] [2L] [2M] [2N] [2O]

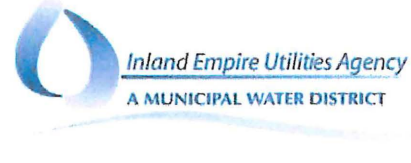
Project Name	CBWM Fiscal Year 2015/16										CBWM Future Years				
	CURRENT YEAR CBWM BUDGET				CURRENT YEAR CBWM ACTUALS						CBWM FUTURE BUDGET NEEDS				
	Budget Carry-Over	Approved Budget	Budget Amendments/ Transfers	Total Fiscal Year Budget	Actual to Date (Including Paid & Outstanding Invoices)	Remaining Balance Available	Completed Projects With Available Funds To Be Distributed <sup>1</sup>	CBWM Remaining Projected Costs	Budget Amendment Required? (Yes/No)	Projected CarryOver Funds FY 2016/17	Fiscal Year 2016/17	Fiscal Year 2017/18	Fiscal Year 2018/19	Fiscal Year 2019/20	
<b>Pre RMPU Ongoing Projects</b>															
GWR SCADA Upgrades (7690.61) (Task No. 4)	\$ 383,200	\$ 38,675	\$ -	\$ 421,875	\$ 56,514	\$ 365,361	\$ -	\$ 365,361	No	\$ -	\$ -	\$ -	\$ -	\$ -	
COMMUNICATION Upgrades (7690.62) (Task No. 3)	\$ 547,500	\$ (21,425)	\$ -	\$ 526,075	\$ 97,034	\$ 429,041	\$ -	\$ 429,041	No	\$ -	\$ -	\$ -	\$ -	\$ -	
CB20 Noise Mitigation (7690.5)	\$ 80,000	\$ -	\$ -	\$ 80,000	\$ 25,208	\$ 54,792	\$ -	\$ 54,792	No	\$ -	\$ -	\$ -	\$ -	\$ -	
Upper Santa Ana River Habitat Conservation Plan (7690.7) (Task No. 7)	\$ 75,000	\$ 5,000	\$ -	\$ 80,000	\$ -	\$ 80,000	\$ -	\$ 80,000	No	\$ -	\$ -	\$ -	\$ -	\$ -	
East Decler Basin (1st Amendment - Task No. 1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No	\$ -	\$ 1,550,000	\$ 2,115,000	\$ -	\$ -	
Wineville Proof of Concept (7209.2) (Task No. 6)	\$ 35,398	\$ -	\$ -	\$ 35,398	\$ -	\$ -	\$ 35,398	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -	
Jurupa Pump Station (7209.1) (Task No. 5)	\$ 37,981	\$ -	\$ -	\$ 37,981	\$ -	\$ -	\$ 37,981	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -	
Hickory Basin (7690.3) COMPLETED	\$ 3,877	\$ -	\$ -	\$ 3,877	\$ -	\$ -	\$ 3,877	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>SUBTOTAL PRE-RMPU PROJECTS</b>	<b>\$ 1,162,956</b>	<b>\$ 22,250</b>	<b>\$ -</b>	<b>\$ 1,185,206</b>	<b>\$ 178,756</b>	<b>\$ 929,194</b>	<b>\$ 77,256</b>	<b>\$ 929,194</b>	<b>No</b>	<b>\$ -</b>	<b>\$ 1,550,000</b>	<b>\$ 2,115,000</b>	<b>\$ -</b>	<b>\$ -</b>	
<b>RMPU Projects</b>															
San Sevaime Improvements (7690.4) (Task No. 8)	\$ 475,000	\$ 1,126,900	\$ -	\$ 1,601,900	\$ 111,118	\$ 1,490,782	\$ -	\$ 1,490,782	No	\$ -	\$ 1,065,600	\$ -	\$ -	\$ -	
2013 RMPU Amendment Yield Enhancement Projects (7690.15) (Task No. 1)	\$ -	\$ 569,750	\$ -	\$ 569,750	\$ -	\$ 569,750	\$ -	\$ 569,750	No	\$ -	\$ 1,550,000	\$ 1,455,500	\$ -	\$ -	
Lower Day Basin RMPU Improvement Project (7690.8) (Task No. 2)	\$ 49,000	\$ 140,000	\$ -	\$ 189,000	\$ 96,254	\$ 92,746	\$ -	\$ 92,746	No	\$ -	\$ 140,000	\$ 1,026,000	\$ -	\$ -	
2013 RMPU Amendment Yield Enhancement Projects	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No	\$ -	\$ -	\$ 8,300,000	\$ 22,022,500	\$ 8,300,000	
Victoria Basin Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No	\$ -	\$ -	\$ 32,500	\$ 32,500	\$ -	
RP-3 Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No	\$ -	\$ -	\$ 325,000	\$ 825,000	\$ 500,000	
<b>SUBTOTAL RMPU PROJECTS</b>	<b>\$ 524,000</b>	<b>\$ 1,836,650</b>	<b>\$ -</b>	<b>\$ 2,360,650</b>	<b>\$ 207,372</b>	<b>\$ 2,153,278</b>	<b>\$ -</b>	<b>\$ 2,153,278</b>	<b>---</b>	<b>\$ -</b>	<b>\$ 2,755,600</b>	<b>\$ 11,139,000</b>	<b>\$ 22,880,000</b>	<b>\$ 8,800,000</b>	
<b>GRAND TOTALS</b>	<b>\$ 1,686,956</b>	<b>\$ 1,858,900</b>	<b>\$ -</b>	<b>\$ 3,545,856</b>	<b>\$ 386,128</b>	<b>\$ 3,082,472</b>	<b>\$ 77,256</b>	<b>\$ 3,082,472</b>	<b>---</b>	<b>\$ -</b>	<b>\$ 4,305,600</b>	<b>\$ 13,254,000</b>	<b>\$ 22,880,000</b>	<b>\$ 8,800,000</b>	

NOTES:  
<sup>1</sup> \$77,256 of the Carry-Over funds could be (1) allocated to other projects; (2) kept in reserve; or (3) refunded to the Appropriators on the next Assessment. Wineville Project of \$35,398; Jurupa Pump Station of \$37,981; and Hickory Basin of \$3,877 = \$77,256.

# Non-RMPU Ongoing Projects



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**GWR SCADA UPGRADES  
PROJECT NO. EN14047  
STATUS UPDATE: March 07, 2016**

During Inland Empire Utilities Agency’s asset review of the existing Supervisory Control & Data Acquisition (SCADA) system, a thorough and comprehensive evaluation of the recycled water and groundwater recharge control system was conducted. A Master Plan was developed; and it recommended critical upgrades to the RW and GWR SCADA systems. The purpose of this project is to provide control system improvements to sustain and support the continued growth of the RW and GWR programs. Under this project, five recharge basins which operate a rubber dam system will be replaced with newer, reliable and fully supported programmable logic controllers (PLCs). The current PLCs are outdated and lack critical product and technical support. The upgrade will extend the site’s reliability by 10 years and provide the initial development model when transitioning other sites to newer controllers.

**Schedule:**

<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$892,000	\$171,563

<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	11/11/11	02/24/14	Completed	\$450	\$422
Design	02/26/14	01/15/16	Completed	\$162,000	\$161,797
Permits	09/12/14	01/15/16	Completed	\$50	\$42
Bid and Award	01/18/16	04/20/16	In Progress	\$10,000	\$9,302
Construction	04/21/16	02/14/17	Not Started	\$719,500	-
				\$892,000	\$171,563

**Grant/Loan Update:**

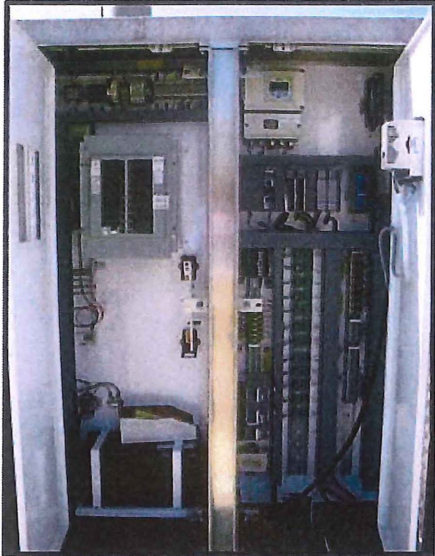
Awarded a \$139,650 grant and a 1% interest 30-year loan at \$740,145 from the Santa Ana Project Water Authority and Clean Water State Revolving Fund loan program respectively.

**Cost Sharing Document:** Task Order No. 4 of the Master Agreement of 2014

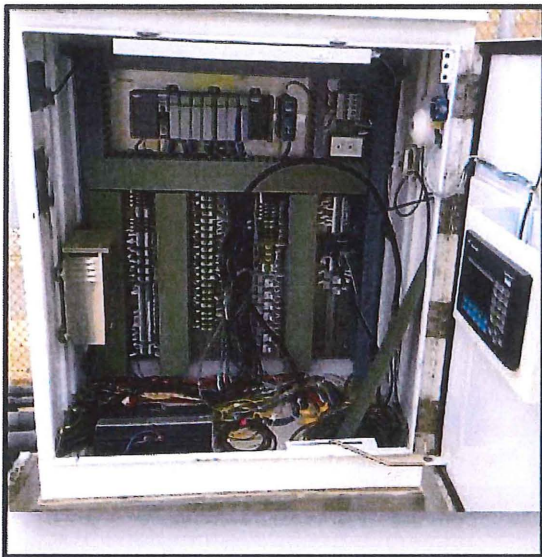
**Project Update:**

On January 14, 2016 staff released the final design document for public bidding through IEUA’s pre-qualified contractors. A job walk was conducted on January 28<sup>th</sup> where five contracting companies attended. Bids were scheduled to close on February 25, 2016 but was extended to March 17<sup>th</sup> to allow the bidders to meet the required disadvantage business enterprise requirements. However, the contract award date is still April 20, 2016. Project completion is scheduled for February 2017.

Project Photos:



San Sevaine Turnout control panel



Turner Basin control panel



**COMMUNICATION UPGRADES  
PROJECT NO. EN12019  
STATUS UPDATE: March 07, 2016**

This project will transition the communication equipment within the remote GWR and RW sites (totaling over 20 sites) onto the new, faster and more reliable communication network. The upgrade will replace the radio equipment for each site and add several new communication towers to send all communication onto the Agency’s new 18GHz Motorola network back-haul. The Communication System Upgrades Project proposes to upgrade all GWR remote sites to the new communication radio systems. Each site will be equipped with new antennas and radios. The proposed plan to include new towers at select sites will be deferred and planned for later capital projects because these sites do not require immediate remote communication and control.

**Schedule:**

<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$1,245,000	\$1,122,293

<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	11/11/11	01/17/14	Completed	\$5,771	\$5,771
Pre-Design	01/20/14	11/27/14	Completed	\$130,000	\$130,000
RFP/Solicitation	11/30/14	03/18/15	Completed	\$44,000	\$44,000
Design/Construction	03/19/15	02/12/16	Completed	\$1,065,229	\$942,522
				\$1,245,000	\$1,122,293

**Grant/Loan Update:**

Awarded a \$192,850 grant and a 1% interest 30-year loan at \$1,022,105 from the Clean Water State Revolving Fund loan program, as part of the Proposition 50 grant program, and a Department of Water Resources Proposition 84 grant program through The Santa Ana Project Water Authority.

**Cost Sharing Document:** Task Order No. 3 of the Master Agreement of 2014

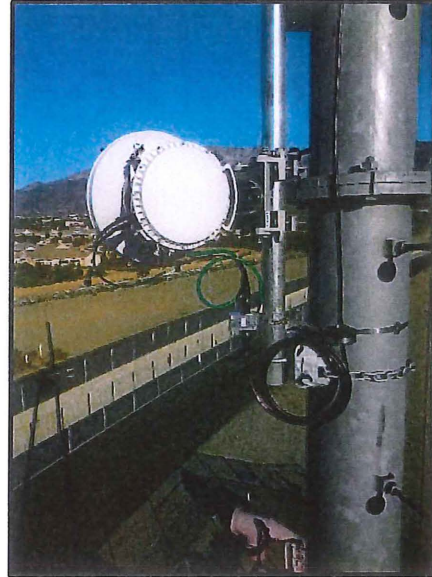
**Project Update:**

Design/Construction efforts are fully completed. The new equipment is installed and in use. The project is in the close-out phase. All costs will be finalized by April, 2016.

**Project Photos:**



6B Tower – New Receiving Dishes



San Sevaine Basin – New Radio Dish





**CB20 NOISE MITIGATION  
PROJECT NO. EN14038  
STATUS UPDATE: March 07, 2016**

In 2010, a recharge basin turnout structure was constructed within the Metropolitan Water District's right-of-way in the residential area of the City of Upland. The turnout was to provide immediate access to available raw water for the purpose of groundwater storage. Current sound studies reveal the facility generates noise levels above the allowable limits permitted by Upland's Ordinances. As a public service effort, IEUA and Chino Basin Watermaster initiated a capital project to design and build a sound enclosure by a qualified sound specialist. The objective is to maintain compliance with City Ordinance and reduce the impact of noise to nearby residents.

**Schedule:**

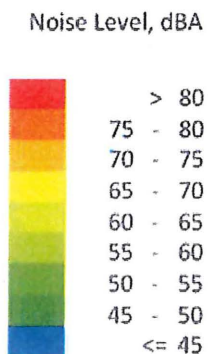
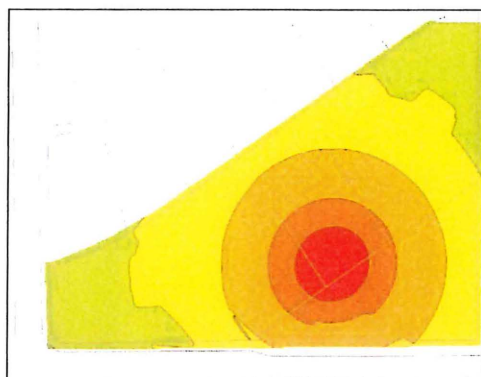
	<u>Project Budget</u>		<u>Actual Cost to Date</u>		
	\$160,000		\$143,539		
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	09/25/13	01/23/14	Completed	\$200	\$182
Design	01/24/14	11/26/14	Completed	\$29,000	\$28,850
Construction	11/30/14	02/17/16	Completed	\$130,800	\$114,507
				<u>\$160,000</u>	<u>\$143,539</u>

**Cost Sharing Document:** CBFIP, Phase II Cost Sharing Agreement of 2006

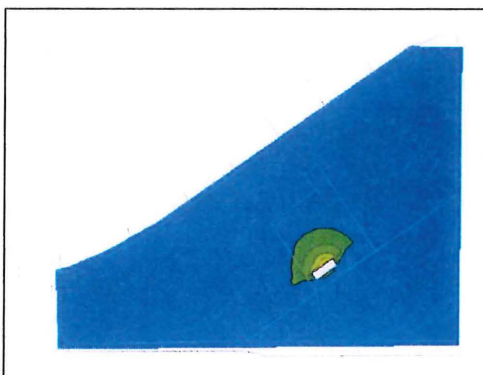
**Project Update:**

The installation of the sound enclosure is completed. IEUA staff is scheduled to perform a field test of the sound enclosure in March, 2016. This will complete the project if the final test results meet the performance requirements. In the meantime, staff is preparing to close out the project. All final project costs are expected to be completed by April 2016.

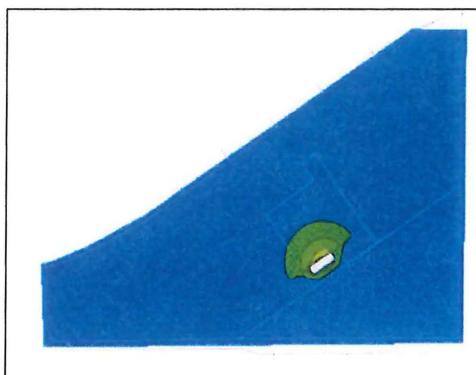
Results of sound modeling to confirm the proposed enclosure will meet project goal:



Noise level at 1st level without mitigation



Noise level at 1st level with mitigation



Noise level at 2nd level with mitigation

**Project Photo:**



Completed installation of sound enclosure (facing south)



**UPPER SANTA ANA RIVER WATERSHED HABITAT CONSERVATION PLAN  
PROJECT NO. RW15002  
STATUS UPDATE: March 07, 2016**

The purpose of the Habitat Conservation Plan (HCP) is to investigate and develop a plan to offset the biological impact of future water and recharge improvement projects in the Chino Basin area that have the potential to affect federally-listed endangered, threatened or special status species. This project will be a part of a regional plan with other proposed projects within the Upper Santa Ana River Region. The goal of the project is to identify, in advance, sites that may require biological offset/mitigation and avoid permitting delays on future RMPU projects or other identified recharge improvement projects.

**Schedule:**

<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$160,000	\$37,680

<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Investigate/Plan	07/01/14	06/30/17	In Progress	\$160,000	\$37,680
				\$160,000	\$37,680

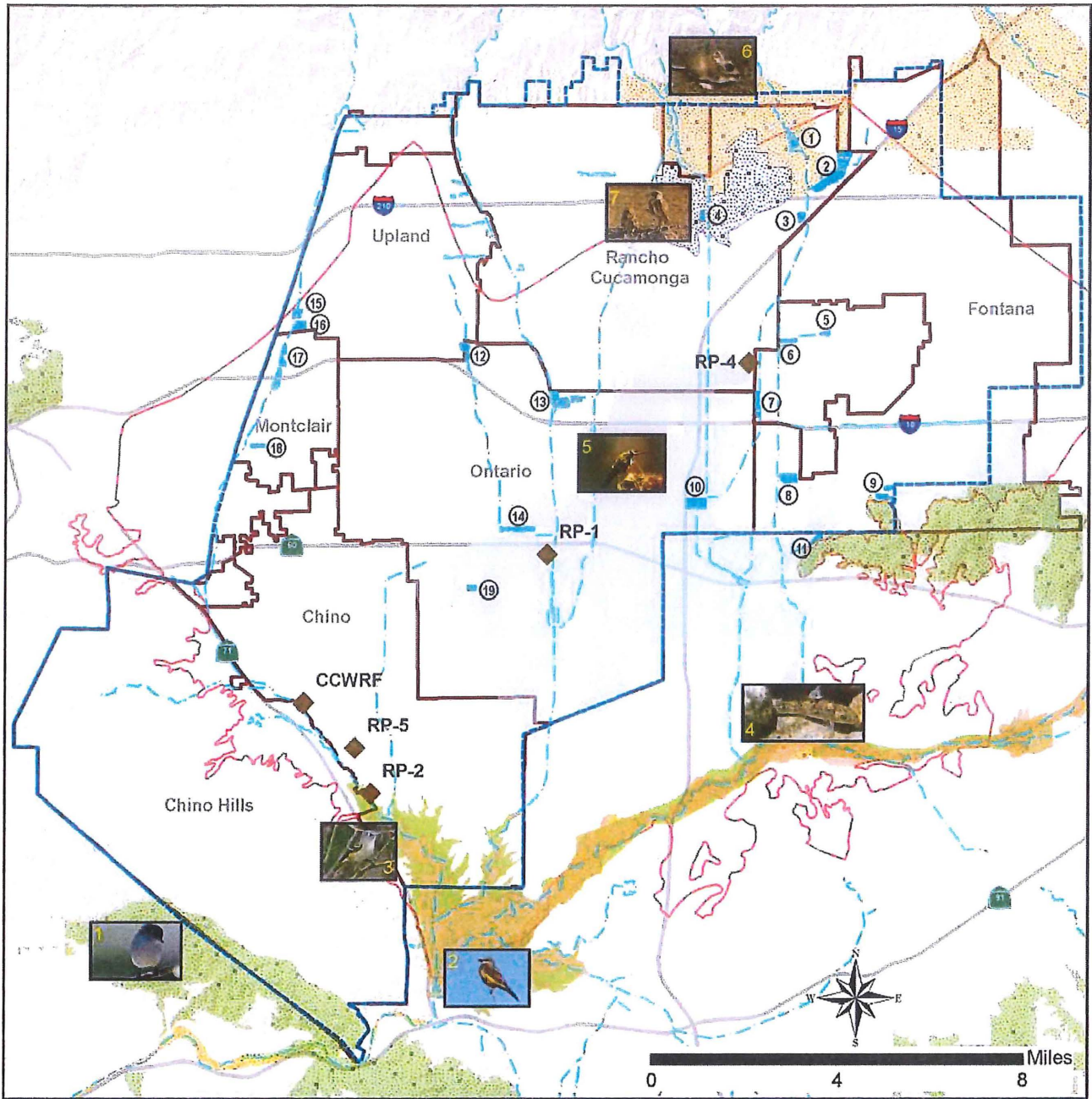
**Cost Sharing Document:** Task Order No. 7 of the Master Agreement of 2014

**Project Update:**

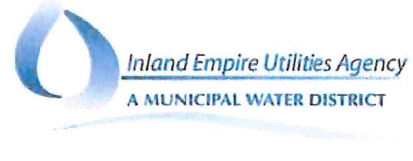
The HCP team has completed mapping and GIS data gathering. The hydraulic impact modeling, is in progress. The following table is a part of the list of RMPU projects that will be a part of the study, however, IEUA recently confirmed that all existing recharge basins and RMPU projects will be evaluated under this study as well. This additional work is not expected to impact the total budget.

<u>RMPU Projects</u>	<u>Location</u>	<u>Potential Species</u>
PID - 19a	Wineville Basin	DSF
PID - 12	Lower Day Basin	SBKR,CAGN,BUOW
PID - 7	San Sevaine Basins (1-5)	SBKR
PID - 11	Victoria Basin	SBKR
PID - 2	Montclair Basins (1-3)	CAGN

*DSF=Delhi Sands Flower-Loving Fly; SBKR=Merriam's San Bernardino Kangaroo Rat; CAGN=California Gnatcatcher; BUOW=Burrowing Owl*



Legend		Endangered Species Habitat Ranges		Recharge Basins	
	Regional Plants		1. California Gnatcatcher		1. Etiwanda Debris Basin - (SBCFCD)
	Rivers/Channels		2. Southwestern Willow Flycatcher		2. San Sevaine Basins - (SBCFCD)
	CBWM Service Area		3. Least Bell's Vireo		3. Victoria Basin - (SBCFCD)
	IEUA Service Area		4. Santa Ana Sucker		4. Lower Day Basin - (SBCFCD)
	Cities Boundary		5. Delhi Sands Flower-Loving Fly		5. Banana Basin - (SBCFCD)
	Freeways		6. Merriam's San Bernardino Kangaroo Rat		6. Hickory Basin - (SBCFCD)
			7. Borrowing Owl		7. Etiwanda Conservation Basins - (SCE)
					8. Jurupa Basin - (SBCFCD)
					9. RP-3 Basin - (IEUA)
					10. Wineville Basin - (SBCFCD)
					11. Declerz Basin - (SBCFCD)
					12. 8th Street Basin - (SBCFCD)
					13. Turner Basins - (SBCFCD/CBWCD)
					14. Ely Basins 1, 2 and 3 - (SBCFCD/CBWCD)
					15. College Heights Basins - (CBWCD)
					16. Upland Basin - (Upland)
					17. Montclair Basins - (CBWCD)
					18. Brooks Street Basins - (CBWCD)
					19. Grove Basin - (SBCFCD)



**EAST DECLEZ BASIN IMPROVEMENTS**  
**PROJECT NO. RW15003.01**  
**STATUS UPDATE: March 07, 2016**

In 2014 Watermaster members proposed the utilization of the available land east of the existing Declez Basins. This project proposes to expand the Declez Recharge Facility with an added basin. It also includes upstream improvements to divert and convey additional stormwater to the new basin. The potential increase in recharge capacity is 913 acre-feet per year. Project improvements include the following:

- Excavating and hauling offsite over 1,030,000 cubic yards of soil material to develop the new east basin.
- Constructing a diversion structure from the Declez Channel into the new basin with approximately 2,700 linear feet of new piping.
- Constructing a new spillway structure and outlet between the new and existing basins.
- Constructing a rubber dam system to divert flow from the San Sevaine Channel into the Jurupa Basin. The Jurupa Basin will act as a flow through basin to Declez Basin.
- Increasing the flow capacity to over 100 cfs on an existing pump station within Jurupa Basin.
- Construct approximately 2,800 linear feet of new conveyance piping from Jurupa to the Declez Channel.

**Schedule:**

	<u>Project Budget</u>		<u>Actual Cost to Date</u>		
	\$3,665,000		\$139,821		
<u>Soft Cost Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	07/01/15	07/21/15	Completed	\$26,000	-
Pre-Environmental	07/22/15	02/01/16	Completed	\$11,000	-
Feasibility Study (PDR)	07/22/15	02/19/16	Completed	\$103,000	\$89,733
Preliminary Design	02/20/16	08/29/16	Pending	\$511,000	-
Land Acquisition	11/18/15	05/17/16	Pending	-	\$50,088*
Environmental	02/02/16	08/29/16	Pending	\$197,000	-
Design	08/30/16	12/29/17	Not Started	\$2,542,000	-
Permits	08/30/16	12/29/17	Not Started	\$275,000	-
				\$3,665,000	\$139,821

\*Refundable deposit to hold the property during the feasibility period

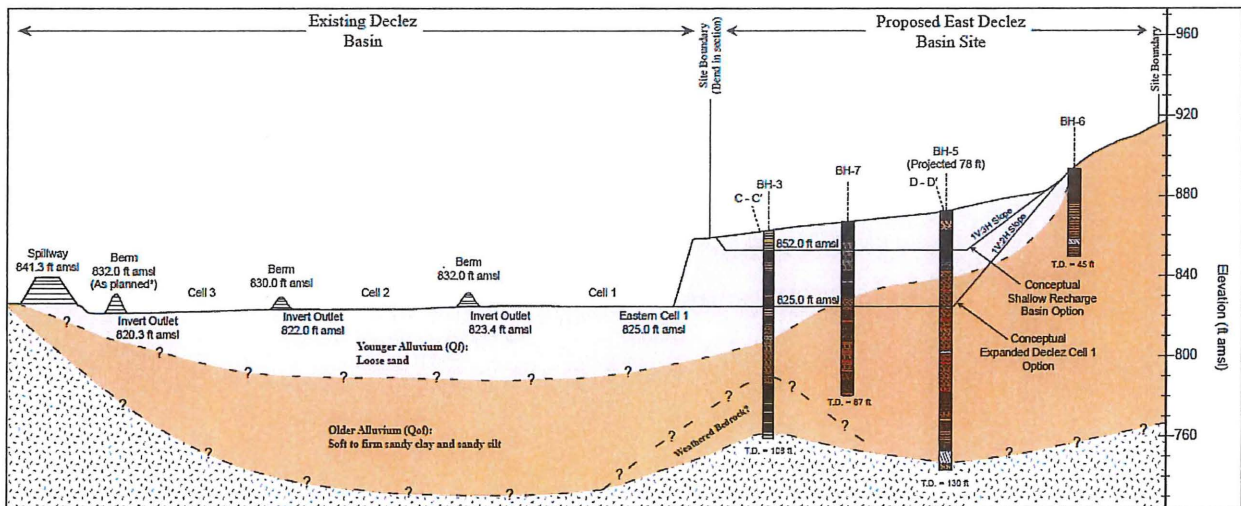
**Cost Sharing Documents:**

- Task Order No. 1 of the Master Agreement of 2014 (Aug, 2014)
- 1<sup>st</sup>Amendment Task Order No. 1 of the Master Agreement of 2014 (April, 2015)

### Project Update:

In February 2016, the feasibility study, "Subsurface Investigation-East Declez Basin Site" prepared by Thomas Harder and Co. was made available for review and presented at the February 18th RIPCom meeting. Based on the findings of the report, a new basin concept was developed which would expand cell 1 of the existing Declez Basin, graded at the same bottom elevation, which would add an additional 150 acre-feet of storage. Assuming that no recharge would take place in the area of the expanded basin, the new net recharge was calculated to be an additional 414 acre-feet per year with a unit cost of \$2,420 per acre-foot. However, assuming the expanded portion of the basin would percolate similar to the existing cell 1 of Declez Basin, a yield of 601 acre-feet of storm water at a cost of \$1,678 per year is possible.

### Project Photo:



Profile of the proposed East Declez with bore hole testing locations

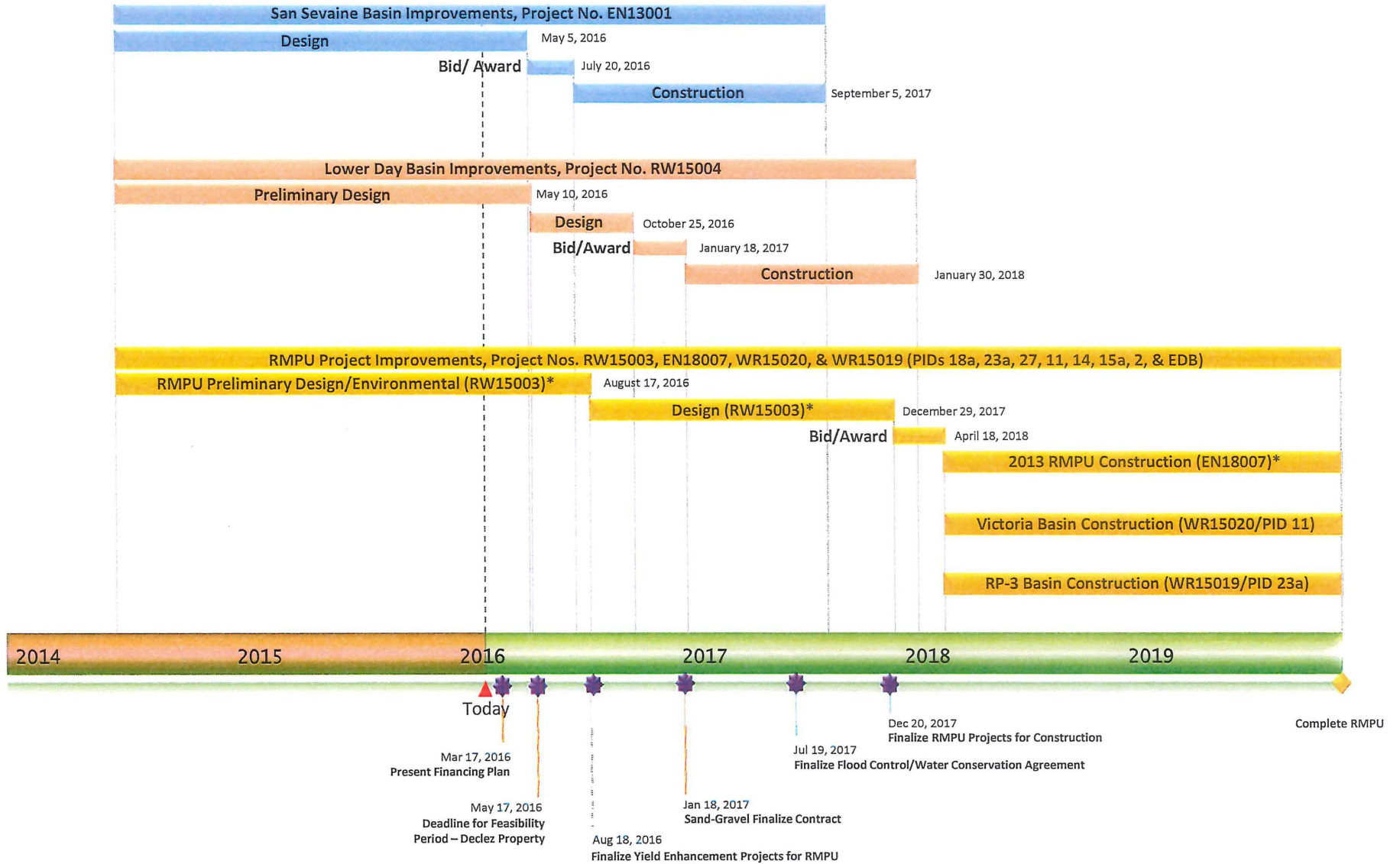
# RMPU PROJECTS



# Recharge Master Plan Update (RMPU) – Project Timeline



P154



Notes:

\* Current task includes efforts for the proposed East Declez expansion





**SAN SEVAINE IMPROVEMENTS PROJECT  
PROJECT NO. EN13001  
STATUS UPDATE: March 07, 2016**

As part of the 2013 Amendment to the 2010 Recharge Master Plan Update (RMPU), this Project will evaluate, design, and construct basin improvements needed to maximize infiltration and recharge capture at the San Sevaine Basins. The final recommendation from the preliminary development report proposes to implement: (1) a new stormwater / recycled water pump station in Basin 5, (2) directly tie into an existing RW pipeline, (3) place new pipelines and headwalls into Basins 1, 2, and 3, and (4) install monitoring wells and lysimeters. The proposed improvements will add 642 acre-feet per year of stormwater and 4,100 acre-feet per year of recycled water for groundwater recharge.

**Schedule:**

	<u>Project Budget</u> \$6,460,000	<u>Actual Cost to Date</u> \$386,619			
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Pre-design	10/01/12	05/14/15	Completed	\$160,000	\$159,596
Environmental Impact	06/26/13	01/20/16	Completed	\$30,000	\$22,518
Design	05/15/15	05/05/16	In Progress	\$400,000	\$179,505
Permits	05/15/13	05/05/16	In Progress	\$25,000	\$25,000
Bid and Award	05/06/16	07/20/16	Not Started	\$5,000	-
Construction	07/21/16	09/05/17	Not Started	\$5,840,000	-
				<hr/> \$6,460,000	\$386,619

**Grant/Loan Update:**

Awarded a \$750,000 state grant from the Department of Water Resources through the Santa Ana Watershed Project Authority as part of Proposition 84 and a \$375,000 federal grant from the US Bureau of Reclamation.

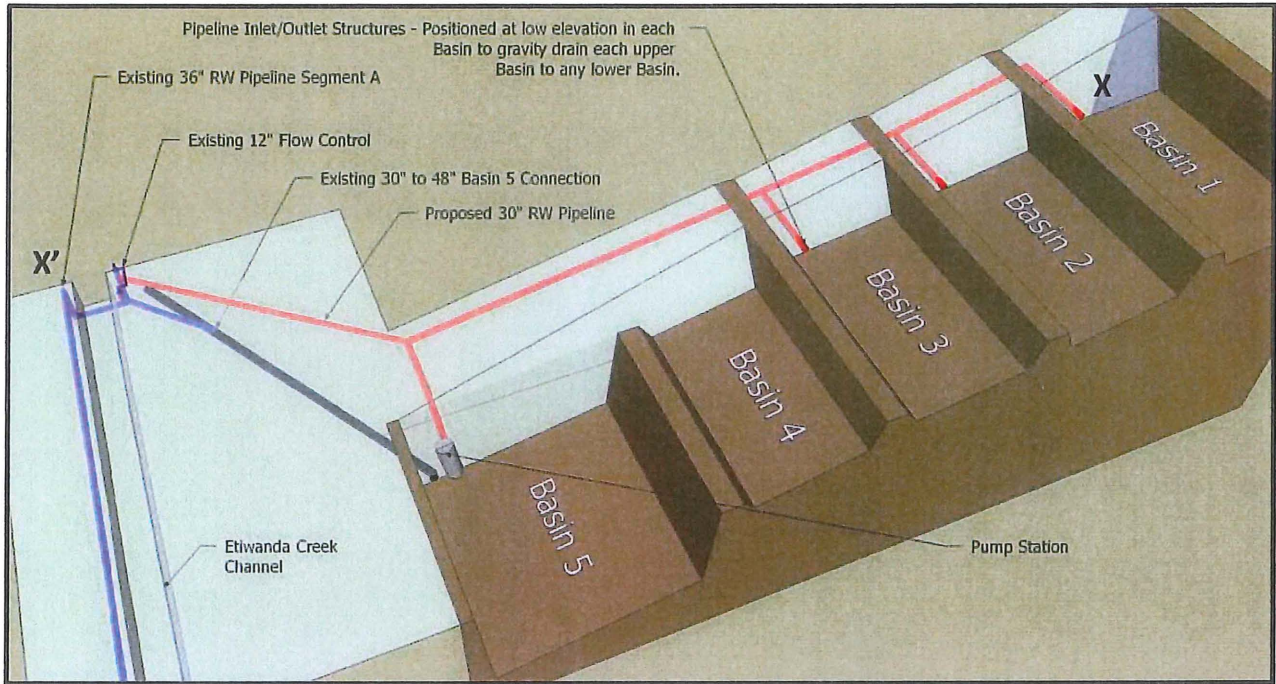
**Cost Sharing Document:**

- Task Order No. 8 of the Master Agreement of 2014 (August, 2014)
- 1<sup>st</sup> Amendment Task Order No. 8 of the Master Agreement of 2014 (April, 2015)

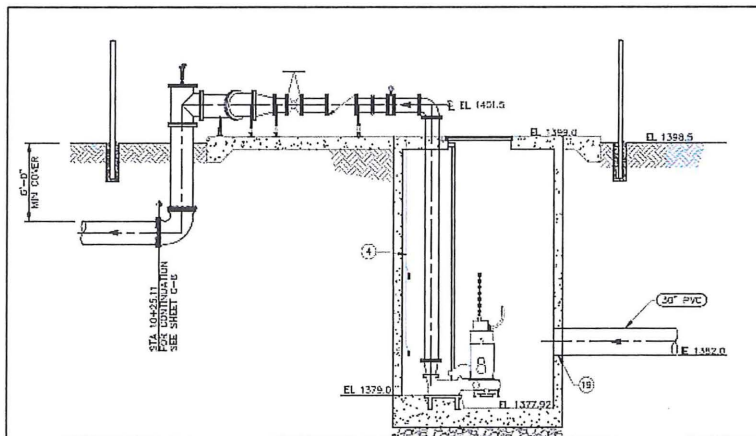
**Project Update:**

The design phase was extended to allow for additional permit review of the proposed basin improvement and placement of the new monitoring well within Flood Control District's right of way. In the meantime, the Dudek team is preparing all electrical plans for their next submittal.

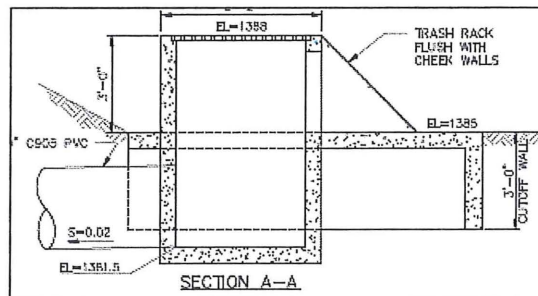
**Conceptual Design:**



Isometric View of the Recommended Basin Improvement  
Pump Station in Basin 5 and Extension of the Recycled Water Pipeline to Basins 1, 2, and 3



Design Profile of proposed Pump Station in Basin 5



Design Profile of proposed inlet to Pump Station



**2013 RMPU AMENDMENT YIELD ENHANCEMENT PROJECTS**  
**PROJECT NO. RW15003.00**  
**STATUS UPDATE: March 07, 2016**

The 2013 Amendment to the 2010 Recharge Master Plan Update recommended that the yield enhancement projects listed below be implemented for preliminary-design, environmental review, permitting, and final design.

ID	Basin Projects	Key Project Improvements	Original RMPU Yield		Adjusted Yield	
			SW	RW	SW	RW
			acre-feet per year			
18a	CSI Storm Water Basin	New storage and recharge facility by deepening/removing 36,000 CY	81	-	81	-
23a	Wineville, Jurupa, and RP3	Improve storage and recharge capacity with pumps/conveyance systems between basins and provide new diversion structures	3,166	2,905	3,166	2,905
27	Declez Basin	Improve capacity by modifying existing/adding new structures	241	-	241	-
11	Victoria Basin	Improve the infiltration rate and increase storage by removing settled deposits	43	120	43	120
14	Turner Basin	Increase storage and recharge by raising the spillway height	66	-	66	-
15a	Ely Basin	Improve storage and recharge by removing 470,000 CY	221	-	221	-
2	Montclair Basins	Increase storage and recharge capacity by directing more channel flow	248	-	248	-
25a	Sierra	Improve storage and recharge by removing 40,000 CY <i>(Removed-no longer feasible)</i>	64	-		
17a	Lower San Sevaine Basin	Construct a new storage flow through basin <i>(Removed-no longer feasible)</i>	1,221	-		
			<b>5,351</b>	<b>3,025</b>	<b>4,066</b>	<b>3,025</b>

**Schedule:**

Soft Cost Phases	Amended Soft Cost*			Actual Cost to Date	
	Start	Finish	Status	Projected Cost	Actual Cost
Project Development	07/01/14	06/17/15	Completed	\$27,000	\$1,678
Preliminary Design	06/25/15	08/17/16	In Progress	\$735,000	\$163,824
Environmental	02/19/15	08/17/16	In Progress	\$325,000	\$2,716
Design	08/18/16	12/29/17	Not Started	\$2,638,500	-
Permits	08/18/16	12/29/17	Not Started	\$100,000	-
				<b>\$3,825,500</b>	<b>\$168,218</b>

\*PID 25a and PID 17a are removed from the design and not included within the total soft cost.

**Grant/Loan Update:**

IEUA is preparing to apply for state grants and loans through the SWRCB Prop. 1 Stormwater Grant and the Clean Water SRF Loans. The potential grant and loan amount is near \$14M and \$45M respectively.

**Cost Sharing Document:**

- Task Order No. 1 of the Master Agreement of 2014 (August, 2014)
- 1<sup>st</sup> Amendment Task Order No. 1 of the Master Agreement of 2014 (April, 2015)

**Project Update:**

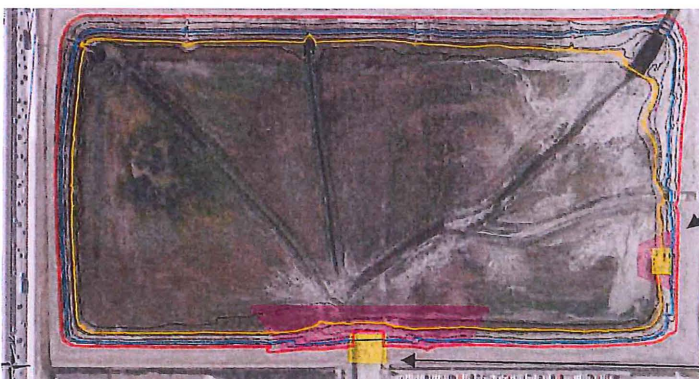
Stantec recently completed basin surveys of each basin. They are currently reviewing each site to establish the required electrical plan to implement and support the proposed basin improvements. IEUA is coordinating with Stantec to provide an initial findings meeting to review progress and discuss potential design alternatives. In the meantime, Dodson & Associates is working to develop a Programmatic Environmental Impact Report for the proposed RMPU projects. The scheduled completion date for both the preliminary design report and the environmental study is August, 2016.

**Project Photos:**



Heighten existing basin outlet structure

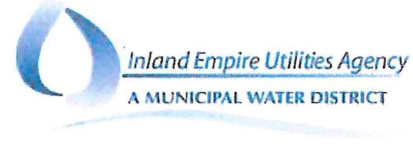
Aerial of Victoria Basin



Place a new Pump Station

Heighten existing basin spillway structure

Aerial of Wineville Basin



**LOWER DAY RMPU IMPROVEMENTS  
PROJECT NO. RW15004  
STATUS UPDATE: March 07, 2016**

This project will modify the existing intake structure and install pneumatic gates in the channel. The pneumatic gates will monitor and self-adjust to maintain a water level or rate of discharge over the gate structure in accordance with an established programmable logic controller. The basin's existing embankment will be evaluated and reconstructed to meet the requirements of a dam embankment with the Division of Safety of Dams. Improvement to the embankment may include excavation and keying to prevent piping and seepage. Per the 2013 RMPUA, this project proposes to increase in recharge to the basin by 789 acre-feet per year.

**Schedule:**

	<u>Project Budget</u>		<u>Actual Cost to Date</u>		
	\$2,480,000		\$169,630		
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	07/01/14	12/17/14	Completed	\$25,000	\$24,790
Pre-Design	12/18/14	05/10/16	In Progress	\$120,000	\$98,980
Environmental Impact	02/02/15	04/20/16	In Progress	\$45,000	\$37,440
Permits	05/04/15	10/05/16	In Progress	\$20,000	\$8,420
Design	05/11/16	10/25/16	Not Started	\$183,000	-
Bid and Award	10/06/16	01/18/17	Not Started	8,000	-
Construction	01/19/17	01/30/18	Not Started	\$2,079,000	-
				\$2,480,000	\$169,630

**Grant/Loan Update:**

Awarded a \$750,000 state grant from the Department of Water Resources through the Santa Ana Watershed Project Authority as part of Proposition 84 and a \$375,000 federal grant from the US Bureau of Reclamation.

**Cost Sharing Document:** Task Order No. 2 of the Master Agreement of 2014

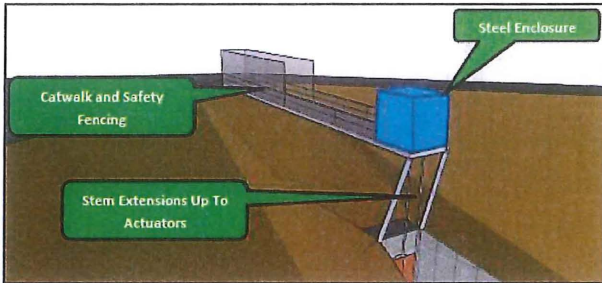
**Project Update:**

During the past few months, IEUA/CBWM/WEI and Scheevel have been discussing and meeting to address concerns on how the project will impact the Flood Control District's Day Creek Channel diversion into Lower Day Basin. A plan is being proposed to reevaluate past preliminary design alternatives and consider which design option is best to develop a flow model on. There are over six options to do a flow model, but the only alternatives being considered are those that do not have a high construction cost. Staff will review and develop a firm action plan in approaching the modeling effort. The extended effort is expected to increase pre-design and design cost project by an additional \$35,000 due to the added scope and staff support. This cost is currently within available budget, however a total budget amendment may be required if the

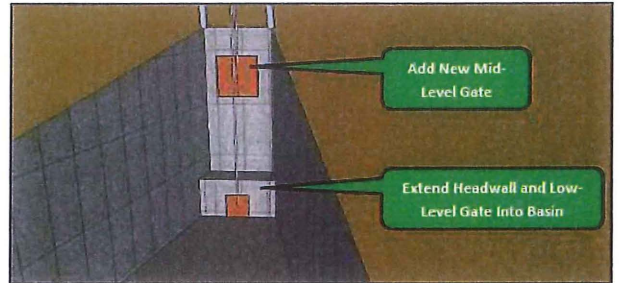
proposed design does not reduce projected construction cost. Staff will continue to monitor and report further budget changes.

In the meantime, Tom Dodson & Associates will be completing the required CEQA documentations in March. Staff is scheduled in the month of April, 2016 to forward the recommendation to have IEUA's Board adopt the environmental findings.

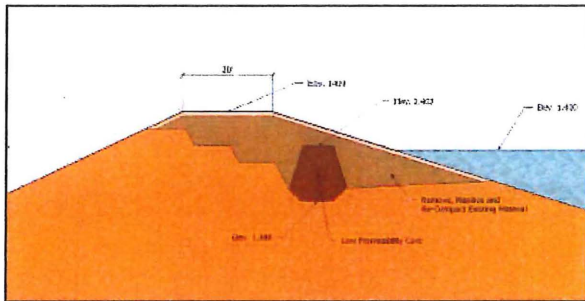
**Conceptual Design of the Proposed Improvements:**



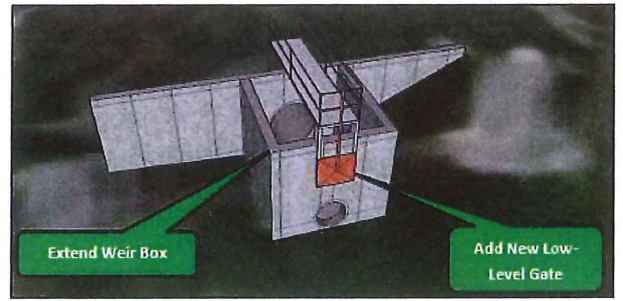
Mid-level Outlet Modifications – Increase Storage to the Lower Basin



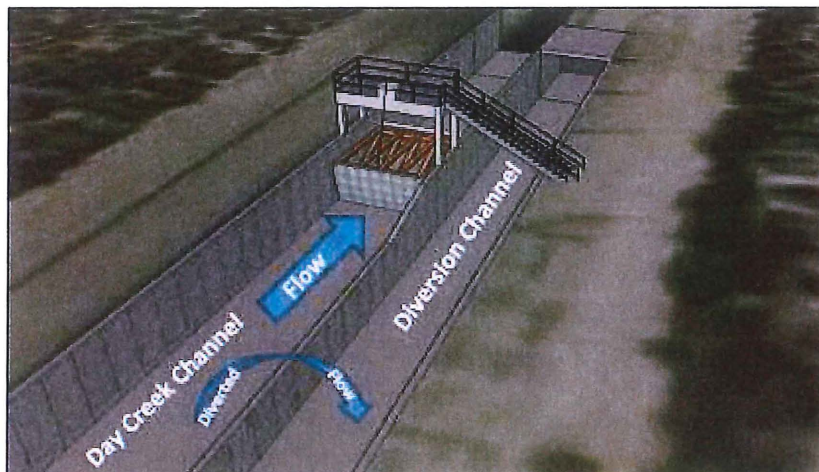
Coating Existing 36" & 72" Outlet Pipes – Maintain Flood Control requirements of immediate dewatering



Reconstruction of Southern Berm – Prevent Seepage



Modifications to Upper Basin Outlet – Increase Storage to the Upper Basin

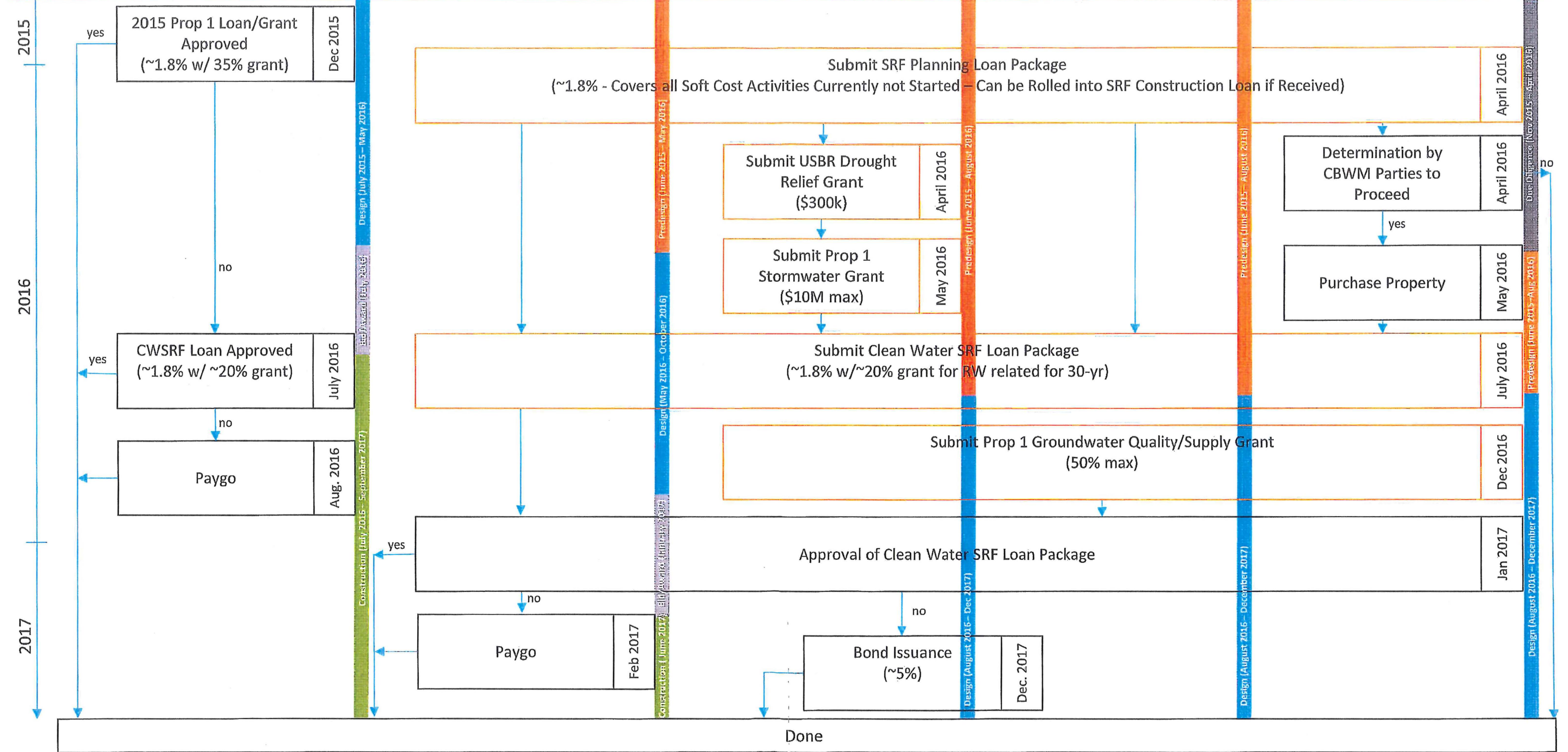


Proposed Radial Gate Concept – diverts non-flood flows for added groundwater storage

# 2013 RMPU Financing Plan

Draft - March 17, 2016

Project: San Sevaine (PID 7)	Lower Day (PID 12)	RP-3/Wineville/Jurupa (23a)	Remaining RMPU Projects	East Declez
Start Construction: July 2016	January 2017	April 2018	April 2018	April 2018
Est. Cost: \$6.5M	\$2.5M	\$21.3M	\$10.1M	\$23.5M
Est. AFY – SW/RW: 642/4,100	789/0	3,166/2,905	1,689/120	913/0



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## 2013 Recharge Master Plan Update Financing Plan

As part of the 2013 Recharge Master Plan Update (RMPU), a financing plan is to be developed for the yield enhancement projects. The purpose of the financing plan is to define the IEUA/CBWM cost shares, identify funding sources and outline the allocation of cost and benefit among the Appropriators. The following sections are from the RMPU. Each section includes an outline of the proposed approach/methodologies used to develop the financing plan and will be finalized following input and consensus from the RMPU Steering Committee.

***Identify the IEUA and Watermaster cost share. Watermaster and the IEUA will determine each party's cost share based on the Peace II Agreement and on the benefit to the parties. This will be negotiated and memorialized in an agreement as identified in the Implementation Plan above.***

The cost share is consistent with Table 8c of the RMPU and the Peace II Agreement. Stormwater exclusive projects will be funded 100% by CBWM. Projects that do or can receive recycled water will be cost shared 50%/50% by CBWM and IEUA.

***Once the scope of the Montclair Basins project is defined, the IEUA and Watermaster will request that the CBWCD consider contributing funding to recharge improvements at the Montclair Basins.***

Chino Basin Water Conservation District (CBWCD) has asked to wait until the preliminary design is completed before they commit to any funding contribution to the recharge improvement. CBWCD wanted to base their decision on a detailed design approach and an engineer's estimate instead of the current planning-level scope and cost. The preliminary design recommendation for Montclair Basin is scheduled to be complete in August 2016. At that time, CBWCD will provide a response to cost sharing of capital improvements at Montclair Basins.

***Identify grant-funding share. The IEUA, Watermaster, and the Appropriators will combine their efforts to secure grant funding and low-interest financing from the State Water Resources Control Board, the DWR, and others.***

Grant Opportunities: IEUA has identified several grant funding opportunities for the RMPU projects. Fundamental to formal grant submission and approval is the local commitment to proceed with projects as planned. Following commitment during the Chino Basin Facilities Improvement Project (CBFIP), IEUA/CBWM were successful in grant funding nearly 50% of the \$65M in capital projects constructed (\$36M in grants were received). In preparation for CBWM approval of the proposed RMPU projects, IEUA has initiated efforts to secure funding through the following grant programs:

1. Proposition 84 (State) – \$1,500,000 was received for the San Sevaine and Lower Day RMPU projects. These funds have already been approved and resulted in the acceleration of these projects within specific Task Order Nos. 2 & 8.
2. USBR (Federal) – \$750,000 was received for the San Sevaine and Lower Day RMPU projects. These funds have already been approved and resulted in the acceleration of these projects within specific Task Order Nos. 2 & 8.
3. Proposition 1 (State) – Stormwater Grant (Round 1) – During round 1 of this program, \$80M will be made available to applicants. A pre-application will be submitted in April 2016 for funding through this program. The final grant application is due in July 2016. The first round of this grant will provide up to

\$10M in grant funding per agency, with a minimum of a 50% local match. Special consideration is made for multi-benefit projects. This program requires that a Storm Water Resources Plan be completed by the applicant prior to submission – IEUA has been working with WEI (at the request of CBWM) to complete the Plan. The Plan is scheduled to be adopted by the SAWPA Board in March 2016. This program will be highly competitive with limited funding. Successful applicants will be notified in late 2016.

4. Proposition 1 (State) – Stormwater Grant (Round 2) – During round 2 of this program, \$80M will be made available to applicants. The second round of this grant will provide up to \$10M in grant funding per agency, with a minimum of a 50% local match. Special consideration is made for multi-benefit projects. This program will be even more highly competitive than the first round as more potential applicants may have completed their Storm Water Resources Plan by then. Successful applicants will be notified in late 2018.
5. Proposition 1 (State) – Groundwater Quality Grant – This program is designed to support the cleanup of human and natural contaminated groundwater. This program is scheduled to fund up to \$900M in projects in multiple rounds, with a minimum of a 50% local match. In addition, this program is tied to the Drinking Water SRF program to assist in funding remaining local match. Special consideration is made for groundwater contamination cleanup with multi-benefit projects. Pre-applications for this program are being accepted, with final applications being due in early 2017. This program will be highly competitive and complete applications should be submitted as early as possible.

It is important to note that duplication of State grants is not permitted. In the event that we are successful getting two State grants, we will need to ensure that neither of the limits for State funding are exceeded; if this is the case, we will need to prioritize grant opportunities to accept.

Low Interest Loan Opportunities: The State Water Resource Control Board offers low interest loan opportunities for public agencies through the State Revolving Fund (SRF). There are several opportunities that IEUA/CBWM could pursue to provide low interest SRF funding for the RMPU projects. It is important to note that if SRF loan(s) are used to fund these projects, IEUA intends to use the Chino Basin Regional Financing Authority (CBRFA) to issue this debt. The CBRFA is governed by the IEUA Board of Directors, but enables IEUA to track and issue debt separately from IEUA capital project debt.

1. SRF Planning Loan – IEUA submitted a pre-application in March 2016 for a planning loan for the remaining RMPU design work. It is anticipated that approximately \$5,000,000 may be needed to fund all remaining “soft costs”. If successful in attaining this loan, all remaining soft costs will be funded through the loan and will not result in any special assessments or assessment adjustments. Repayment would not be triggered until after the completion of corresponding efforts (5-year repayment period) and can be rolled into SRF construction loan (if received). Interest rates for these loans are currently at 1.8% (30-year).
2. SRF Construction Loan – It is anticipated that IEUA will submit several SRF loan packages for the RMPU projects. To maximize the potential of receiving some matching principle forgiveness (grant), loan packages should be sized at approximately \$25,000,000. Dependent upon the status of the RMPU project list approval, loan packages should start to be submitted to the State in mid-2016. Interest rates for these loans are currently at 1.8% (30-year). SRF loans can be applied through either of the following state programs:
  - a. Drinking Water SRF Program – typical for drinking water projects (stormwater also qualifies) at standard low interest rate. Term for DWSRF is typically 20-year.
  - b. Clean Water SRF Program – typical for wastewater projects (wastewater treatment, recycled water and potentially groundwater recharge with stormwater may qualify for this program at

standard low interest rate with the potential of principle forgiveness (IEUA has secured an average of 20% principle forgiveness [grant] for last several CWSRF loans). Term for CWSRF is typically 30-year.

To put the value of the SRF program in perspective, the following table shows the relative benefits of both the SRF loan and grant programs vs. funding through a bond (assumed at 5% consistent with the RMPU). Assuming a total program cost of \$75M, it is expected that the region would save nearly \$49M in financing costs over 30-years (or approximately \$28M in present value) by just using the SRF program at current rates. Alternatively, it is expected that the region would save nearly \$88M in financing costs in 30-years (or approximately \$50M in present value) based on estimated grant and SRF loan opportunities.

**Table 1 – Funding Alternative Payment Schedule (dollars in 1,000's)**

\$75M Bond					\$75M SRF Loan					\$30M Grant & \$45M SRF Loan				
Bond Fee	\$ 75,000	5.00%	30 years		Loan Grant	75,000	1.80%	30 years		Loan Grant	45,000	1.80%	30 years	
	\$ 1,000					0					30,000			
Project Cost	\$ 75,000				Project Cost	75,000				Project Cost	75,000			
Years	Principal Outstanding	Interest Payment	Principal Payment	Total Payment	Years	Principal Outstanding	Interest Payment	Principal Payment	Total Payment	Years	Principal Outstanding	Interest Payment	Principal Payment	Total Payment
1	\$ 75,000	\$ 3,750	\$ 1,129	\$ 4,879	1	\$ 75,000	\$ 1,350	\$ 1,907	\$ 3,257	1	\$ 45,000	\$ 810	\$ 1,144	\$ 1,954
2	\$ 73,871	\$ 3,694	\$ 1,185	\$ 4,879	2	\$ 73,093	\$ 1,316	\$ 1,942	\$ 3,257	2	\$ 43,856	\$ 789	\$ 1,165	\$ 1,954
3	\$ 72,686	\$ 3,634	\$ 1,245	\$ 4,879	3	\$ 71,151	\$ 1,281	\$ 1,977	\$ 3,257	3	\$ 42,691	\$ 768	\$ 1,186	\$ 1,954
4	\$ 71,441	\$ 3,572	\$ 1,307	\$ 4,879	4	\$ 69,174	\$ 1,245	\$ 2,012	\$ 3,257	4	\$ 41,505	\$ 747	\$ 1,207	\$ 1,954
5	\$ 70,134	\$ 3,507	\$ 1,372	\$ 4,879	5	\$ 67,162	\$ 1,209	\$ 2,048	\$ 3,257	5	\$ 40,297	\$ 725	\$ 1,229	\$ 1,954
6	\$ 68,762	\$ 3,438	\$ 1,441	\$ 4,879	6	\$ 65,114	\$ 1,172	\$ 2,085	\$ 3,257	6	\$ 39,068	\$ 703	\$ 1,251	\$ 1,954
7	\$ 67,322	\$ 3,366	\$ 1,513	\$ 4,879	7	\$ 63,028	\$ 1,135	\$ 2,123	\$ 3,257	7	\$ 37,817	\$ 681	\$ 1,274	\$ 1,954
8	\$ 65,809	\$ 3,290	\$ 1,588	\$ 4,879	8	\$ 60,905	\$ 1,096	\$ 2,161	\$ 3,257	8	\$ 36,543	\$ 658	\$ 1,297	\$ 1,954
9	\$ 64,220	\$ 3,211	\$ 1,668	\$ 4,879	9	\$ 58,744	\$ 1,057	\$ 2,200	\$ 3,257	9	\$ 35,247	\$ 634	\$ 1,320	\$ 1,954
10	\$ 62,553	\$ 3,128	\$ 1,751	\$ 4,879	10	\$ 56,544	\$ 1,018	\$ 2,240	\$ 3,257	10	\$ 33,927	\$ 611	\$ 1,344	\$ 1,954
11	\$ 60,801	\$ 3,040	\$ 1,839	\$ 4,879	11	\$ 54,305	\$ 977	\$ 2,280	\$ 3,257	11	\$ 32,583	\$ 586	\$ 1,368	\$ 1,954
12	\$ 58,963	\$ 2,948	\$ 1,931	\$ 4,879	12	\$ 52,025	\$ 936	\$ 2,321	\$ 3,257	12	\$ 31,215	\$ 562	\$ 1,393	\$ 1,954
13	\$ 57,032	\$ 2,852	\$ 2,027	\$ 4,879	13	\$ 49,704	\$ 895	\$ 2,363	\$ 3,257	13	\$ 29,822	\$ 537	\$ 1,418	\$ 1,954
14	\$ 55,005	\$ 2,750	\$ 2,129	\$ 4,879	14	\$ 47,341	\$ 852	\$ 2,405	\$ 3,257	14	\$ 28,405	\$ 511	\$ 1,443	\$ 1,954
15	\$ 52,876	\$ 2,644	\$ 2,235	\$ 4,879	15	\$ 44,936	\$ 809	\$ 2,449	\$ 3,257	15	\$ 26,962	\$ 485	\$ 1,469	\$ 1,954
16	\$ 50,641	\$ 2,532	\$ 2,347	\$ 4,879	16	\$ 42,488	\$ 765	\$ 2,493	\$ 3,257	16	\$ 25,493	\$ 459	\$ 1,496	\$ 1,954
17	\$ 48,294	\$ 2,415	\$ 2,464	\$ 4,879	17	\$ 39,995	\$ 720	\$ 2,537	\$ 3,257	17	\$ 23,997	\$ 432	\$ 1,522	\$ 1,954
18	\$ 45,830	\$ 2,291	\$ 2,587	\$ 4,879	18	\$ 37,458	\$ 674	\$ 2,583	\$ 3,257	18	\$ 22,475	\$ 405	\$ 1,550	\$ 1,954
19	\$ 43,243	\$ 2,162	\$ 2,717	\$ 4,879	19	\$ 34,875	\$ 628	\$ 2,630	\$ 3,257	19	\$ 20,925	\$ 377	\$ 1,578	\$ 1,954
20	\$ 40,526	\$ 2,026	\$ 2,853	\$ 4,879	20	\$ 32,245	\$ 580	\$ 2,677	\$ 3,257	20	\$ 19,347	\$ 348	\$ 1,606	\$ 1,954
21	\$ 37,673	\$ 1,884	\$ 2,995	\$ 4,879	21	\$ 29,568	\$ 532	\$ 2,725	\$ 3,257	21	\$ 17,741	\$ 319	\$ 1,635	\$ 1,954
22	\$ 34,678	\$ 1,734	\$ 3,145	\$ 4,879	22	\$ 26,843	\$ 483	\$ 2,774	\$ 3,257	22	\$ 16,106	\$ 290	\$ 1,665	\$ 1,954
23	\$ 31,533	\$ 1,577	\$ 3,302	\$ 4,879	23	\$ 24,069	\$ 433	\$ 2,824	\$ 3,257	23	\$ 14,441	\$ 260	\$ 1,694	\$ 1,954
24	\$ 28,231	\$ 1,412	\$ 3,467	\$ 4,879	24	\$ 21,245	\$ 382	\$ 2,875	\$ 3,257	24	\$ 12,747	\$ 229	\$ 1,725	\$ 1,954
25	\$ 24,764	\$ 1,238	\$ 3,641	\$ 4,879	25	\$ 18,370	\$ 331	\$ 2,927	\$ 3,257	25	\$ 11,022	\$ 198	\$ 1,756	\$ 1,954
26	\$ 21,123	\$ 1,056	\$ 3,823	\$ 4,879	26	\$ 15,443	\$ 278	\$ 2,979	\$ 3,257	26	\$ 9,266	\$ 167	\$ 1,788	\$ 1,954
27	\$ 17,300	\$ 865	\$ 4,014	\$ 4,879	27	\$ 12,464	\$ 224	\$ 3,033	\$ 3,257	27	\$ 7,478	\$ 135	\$ 1,820	\$ 1,954
28	\$ 13,286	\$ 664	\$ 4,215	\$ 4,879	28	\$ 9,431	\$ 170	\$ 3,088	\$ 3,257	28	\$ 5,658	\$ 102	\$ 1,853	\$ 1,954
29	\$ 9,072	\$ 454	\$ 4,425	\$ 4,879	29	\$ 6,343	\$ 114	\$ 3,143	\$ 3,257	29	\$ 3,806	\$ 69	\$ 1,886	\$ 1,954
30	\$ 4,647	\$ 232	\$ 4,647	\$ 4,879	30	\$ 3,200	\$ 58	\$ 3,200	\$ 3,257	30	\$ 1,920	\$ 35	\$ 1,920	\$ 1,954
<b>TOTAL</b>		<b>\$ 71,366</b>	<b>\$ 75,000</b>	<b>\$146,366</b>	<b>TOTAL</b>		<b>\$ 22,721</b>	<b>\$ 75,000</b>	<b>\$ 97,721</b>	<b>TOTAL</b>		<b>\$ 13,632</b>	<b>\$ 45,000</b>	<b>\$ 58,632</b>
<b>Amount Saved Compared to Bond</b>				<b>\$ -</b>					<b>\$ 48,645</b>					

**Bond Financing:** As part of the original CBFIP, bonds were used to finance the non-grant covered costs. It is anticipated that fixed rate bonds or alternative borrowing would cost the parties approximately 5% interest. Bond financing is also sensitive to the amount of funding needed (i.e. bonds less than \$20M may not be of interest to the market) and how the borrowing is backstopped (i.e. financing agreements between parties).

Chino Basin Regional Financing Authority (CBRFA): In 1993, IEUA developed the CBRFA as an entity that could be used to finance projects that have benefits outside of just IEUA. The Board of Directors for the CBRFA is the IEUA Board. The CBRFA can effectively be used to fund projects that benefit the entire Chino Basin, without impacting the debt of IEUA. In 2002, the CBRFA was used to finance the CBFIP. Revenue bonds were secured to fund more than \$30M in CBFIP costs (non-grant portion). CBWM debt associated with this repayment is made to the CBRFA on an annual basis. It is intended that all debt and grants for the RMPU projects will be applied for through the CBRFA. Doing so would require both IEUA and CBWM to pledge revenues to the CBRFA.

Proposed Approach: The proposed approach will involve several actions, with built in redundancies. IEUA's plan will prioritize the funding of projects through SRF programs with maximization of grant funding. Actions from IEUA, CBWM and/or CBRFA Boards are required for each of these items. Action is tied to commitments to make future debt payments and/or commitment toward application project. Proposed actions will be completed as follows:

1. SRF Planning Loan – cover all remaining soft costs into loan such that parties will not fund these costs until construction is complete. The following action items are planned:
  - a. IEUA Action
    - i. File application (**April 20, 2016**)
    - ii. Approve the 2013 RMPU Financing Agreement (**April 20, 2016**)
    - iii. Adopt Resolutions (**April 20, 2016**)
  - b. CBWM Action
    - i. Approve the 2013 RMPU Financing Agreement (**April 21, 2016**)
    - ii. Adopt Resolutions (**April 21, 2016**)
  - c. CBRFA Action
    - i. Approve the 2013 RMPU Financing Agreements (**April 20, 2016**)
    - ii. Adopt Resolutions (**April 20, 2016**)
    - iii. File Resolutions to State Water Board (**April 2016**)
2. USBR Drought Resiliency Implementation Grant – submit application to fund up to \$300K for drought project implementation. This will be helpful to use for purpose of attaining State funds (i.e. Proposition 1). This would be applied to the 23a RMPU Project (i.e. Wineville to Jurupa to RP-3). This project has an anticipated project cost of approximately \$21M and has both stormwater and recycled water benefits (3,166 AFY and 2,905 AFY, respectively). The following action items are planned:
  - a. IEUA Action
    - i. File application (**April 11, 2016**)
    - ii. Adopt Resolution (**May 18, 2016**)
3. Proposition 1 Stormwater Grant Round 1 – submit application to fund up to 50% of the cost (up to maximum of \$10M) of multi-benefit stormwater related projects. It is proposed that IEUA will submit for the 23a RMPU Project. The following action items are planned:
  - a. IEUA Action
    - i. File pre-application (**April 15, 2016**)
    - ii. Adopt Resolutions (**May 18, 2016**)
    - iii. File application and associated Resolutions to State Water Board (**May 2016**)
  - b. CBWM Action
    - i. Adopt Resolutions (**May 19, 2016**)
4. CWSRF – submit application to fund all of RMPU projects, TCE Plume Cleanup project and remaining/planned CDA wells/infrastructure. This application will be used to fund all remaining projects and will include nearly all the requirements needed to file for the Proposition 1 WQ Grant (see item no. 4 below). The following action items are planned:

- a. IEUA Action
    - i. Adopt Resolutions (**July 20, 2016**)
  - b. CBWM Action
    - i. Adopt Resolutions (**July 21, 2016**)
  - c. CDA Action
    - i. Adopt Resolutions (**July 2016**)
  - d. CBRFA Action
    - i. File application and associated Resolutions to State Water Board (**July 2016**)
5. Proposition 1 Water Quality Grant – submit application to fund all of RMPU projects, TCE Plume Cleanup project and remaining/planned CDA wells/infrastructure. It is anticipated that this request will be approximately \$85M in projects (depending on success of prior actions) and would be eligible for up to 50% grant funding through Proposition 1 and Drinking Water SRF for non-grant portion. The following action items are planned:
- a. IEUA Action
    - i. Filed pre-application in November 2015 via CBRFA without RMPU projects
    - ii. Amend the pre-application to include RMPU and CDA projects (**April 2016**)
    - iii. Adopt Resolutions (**November 16, 2016**)
    - iv. Approval of Programmatic Environmental Impact Report (includes 2013 RMPU projects) (**November 16, 2016**)
  - b. CBWM Action
    - i. Adopt Resolutions (**November 17, 2016**)
  - c. CDA Action
    - i. Adopt Resolutions (**November 2016**)
  - d. CBRFA Action
    - i. File application and associated Resolutions to State Water Board (**December 1, 2016**)

In the event that grants and SRF are not successful, debt issuance would be pursued. It is expected that parties will know success of various applications by early/mid 2017. Since most RMPU construction is not scheduled to be started until early 2018, time will remain to pursue favorable debt service.

**Allocation of cost and benefit among the Appropriators. Watermaster assumes that capital cost and New Yield will be allocated to the Appropriator parties based on their share of Operating Safe Yield and future operation and maintenance expenses will be production based per Peace II Section 8.1. Any change in allocation method would first require a negotiation process among the Appropriative Pool parties.**

The existing allocation of capital costs on the basis of OSY are as follows:

**Table 2 – OSY by Party**

Party	Share of OSY	% Share of OSY
Arrowhead Mtn Spring Water Co	-	0.00%
Chino Hills, City Of	2,111.422	3.85%
Chino, City Of	4,033.857	7.36%
Cucamonga Valley Water District	3,619.454	6.60%
Desalter Authority	-	0.00%
Fontana Union Water Company	6,391.736	11.66%
Fontana Water Company	1.000	0.00%
Fontana, City Of	-	0.00%
Golden State Water Company	411.476	0.75%
Jurupa Community Services District	2,061.118	3.76%
Marygold Mutual Water Company	655.317	1.20%
Monte Vista Irrigation Company	676.759	1.23%
Monte Vista Water District	4,823.954	8.80%
Niagara Bottling, LLC	-	0.00%
Nicholson Trust	4.000	0.01%
Norco, City Of	201.545	0.37%
Ontario, City Of	11,373.816	20.74%
Pomona, City Of	11,215.852	20.45%
San Antonio Water Company	1,506.888	2.75%
San Bernardino County Shtg Prk		0.00%
Santa Ana River Water Company	1,301.374	2.37%
Upland, City Of	2,852.401	5.20%
West End Consolidated Water Company	947.714	1.73%
West Valley Water District	644.317	1.18%
<b>Totals</b>	<b>54,834.000</b>	<b>100.00%</b>

**Finance the construction of recharge improvements. The IEUA, the TVMWD, the WMWD, and potentially certain Appropriator parties will use their revenue structure and other means (municipal bonds, pay-as-you-go, etc.) to construct the recommended yield enhancement projects.**

As indicated prior, IEUA intends to get funding through either of the SRF programs through the use of the CBRFA.

**Apply pay-as-you-go for all the soft costs through completion of the final design. The soft costs were distributed between IEUA and Watermaster by the proportion of the total capital cost of the recommended projects to IEUA's portion of the cost shared projects (about six percent).**

As indicated prior, IEUA has submitted a planning SRF loan application. Although this will not fund past soft costs, if secured, it will fund all remaining RMPU soft costs (estimated to be approximately \$5M). If this planning loan is attained, debt will not be due until 1) after the completion of construction, or 2) after the completion of the design (if construction is not pursued). If IEUA is unsuccessful in attaining this loan, the remaining soft costs will be funded through CBWM as PAYGO consistent with costs to date.

*All costs associated with the development of implementing agreements, preliminary design, proof-of-concept, completion of the CEQA process, and final design are considered part of the project capital cost and will be paid for through the Watermaster assessment process pursuant to the Peace II Agreement unless a new Appropriative Pool New Yield and Cost Allocation agreement is reached. In the case that such an agreement is reached, an assessment reconciliation will be done consistent with the new agreement.*

Several of these costs will be eligible under the SRF planning loan if attained.

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# East Declez and 2013 RMPU Proposed Projects

## East Declez Project Alternatives

PID	Project	Yield (acre-ft/yr)	Storm Water Recharge Unit Cost (\$/acre-ft)	Capital Cost	Total Annual Cost	Comment
	2016 East Declez 1a (0 ft/day)	144	\$5,099	\$11,210,000	\$734,300	
	2016 East Declez 1b (0 ft/day)	414	\$2,420	\$15,090,000	\$1,001,800	
	2016 East Declez 1a (0.6 ft/day)	300	\$2,467	\$11,210,000	\$740,100	
	2016 East Declez 1b (0.6 ft/day)	601	\$1,678	\$15,090,000	\$1,008,700	

Table 8-2a Projects Recommended for Discussion

PID	Project	Yield (acre-ft/yr)	Storm Water Recharge Unit Cost (\$/acre-ft)	Capital Cost	Total Annual Cost	Comment
1a	Montclair Basins - Transfer water between Montclair Basins and deepen MC 4	71	\$4,634	\$5,050,000	\$331,100	Unit Cost is too high.
5a	North West Upland Basin - Increase drainage area and basin enlargement	93	\$3,267	\$4,640,000	\$305,300	Unit Cost is too high.
21a	RP3 Basin Improvements (2010 RMPU) - Inlet improvements and enlargement	406	\$2,197	\$13,464,000	\$890,900	The existing RP3 Basins combined with the 2013 RMPU Proposed RP3 Improvements (PID 23a in Table 8-2c) will capture most of the water passing through the RP3 Basins. The remaining benefit would result in a unit cost that is too high.
26a	Sultana Avenue - Deepen basin by 10 feet	7	\$4,697	\$502,200	\$33,000	Unit Cost is too high.

Table 8-2a Projects Not Recommended for Discussion

PID	Project	Yield (acre-ft/yr)	Storm Water Recharge Unit Cost (\$/acre-ft)	Capital Cost	Total Annual Cost	Comment
3	Montclair Basins - Automate inlet to MC 16	0	-	\$50,000	(\$2,700)	Reduce operation cost, no yield.
4	Montclair Basins - Construct low-level drains from Basin 1 to 2 and 2 to 3	0	-	\$790,000	\$51,400	No new yield.
6	Princeton Basin - Basin enlargement and increased drainage area	0	-	-	-	The SBCFCD did not allow the City of Ontario to connect the new 5th Street storm drain to the Princeton Basin. The SBCFCD required improvements to the Princeton Basin which made the cost infeasible before a Cost Opinion was done.
8 and 9	San Sevaine Basins - Extend IEUA recycled water pipeline to SS 3 and construct internal berm in SS 5, and construct internal berms in SS 1 and SS 2 and install a gate between SS 1 and SS 2	345	\$340	\$1,610,000	\$117,400	Similar work recommended in PDR, 345 SW Yield part of 642 acre-feet projection.
10	San Sevaine Basins - Increase CB13T capacity and power supply	0	-	-	\$0	CB13T is the imported water turnout.
13	Lower Day Basin - Install gate on mid-level outlet	75	\$554	\$600,000	\$41,800	Included in PID 12.
16	Ontario Bioswale Project - New bioswale	8	\$0	\$650,000	\$42,600	Project completed.
24	Vulcan Pit- Construct new inflow and outflow structures	857	\$2,293	\$30,220,000	\$1,965,500	The reconnaissance-level construction cost opinion of this project was completed in 2006 and should be updated to reflect current land acquisition and construction costs.

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# CHINO BASIN WATERMASTER

## IV. INFORMATION

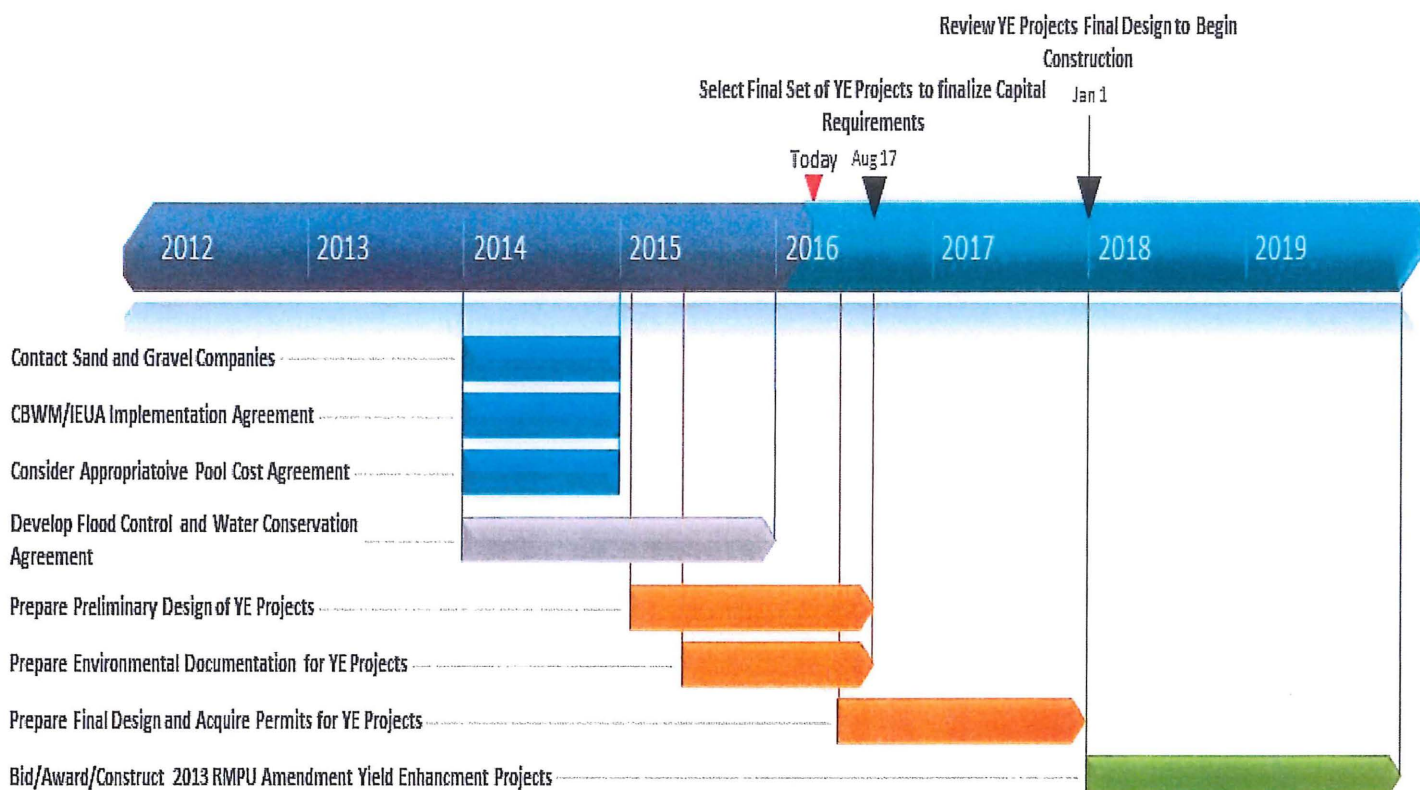
### 3. RMPU Status Report

# 2013 Amendment to 2010 RMPU Implementation

## Status Report – April 2016

Schedule:

### 2013 Amendment to 2010 RMPU Implementation Schedule



## STATUS

In April 2015, the 2013 Amendment to 2010 Recharge Master Plan update Steering Committee was merged with the IEUA/Watermaster Joint Projects Committee meeting and renamed the Recharge Investigations and Projects Committee (RIPCom), and meets monthly. This was done so that progress on all recharge projects, including prior projects, RMPU Sustainability and Yield Enhancement projects, and potential new projects could be reviewed by all Pool representatives before making a recommendation to their respective Pools. Progress on all projects is reported as a separate report attached to this RMPU Amendment Status Report.

### Year 1-2014

#### Yield Enhancement Projects: Contact Sand and Gravel Companies

The effort to have material removed from Turner Basin is complete. To move material from other basins, it is necessary to first complete the Preliminary Design Report (PDR) to allow for an assessment of volume of material available for removal. A site-specific characterization of soils is also required. Preliminary contact with sand and gravel companies has been made and, while there is interest, there are a number of considerations to be addressed. Most companies prefer not to be tied to an IEUA/Watermaster schedule, rather they would prefer to be driven by the needs of development-related construction projects. IEUA estimates having 12 potential companies interested in dirt hauling, however, the number may fluctuate as demands and future schedules change.

#### Yield Enhancement Projects: Develop Watermaster and IEUA Yield Enhancement Project Implementation Agreement

This was completed, and the Master Agreement and Task Orders have been signed by both IEUA and Watermaster Boards.

#### Yield Enhancement Projects: Consider AP New Yield Cost Allocation Agreement

Within the Safe Yield Reset effort, it was determined that the stormwater yield from the RMPU projects will initially be part of the New Yield allocation. The cost sharing will be based on the Operating Safe Yield percentage, with an opt-out provision that would allow Fontana Water Company the first chance at that water. Section 5.1 of the 2015 Safe Yield Reset Agreement further describes the mechanisms for accounting and allocation among the Appropriative Pool Parties.

#### Yield Enhancement Projects: Develop Flood Control and Water Conservation Agreement

IEUA and Watermaster have met and exchanged correspondence with the San Bernardino County Flood Control District (SBCFCD) to expand the Four Party Agreement to include all facilities necessary for RMPU Implementation. IEUA, Watermaster, and SBCFCD have also met to discuss SBCFCD's anticipated permit conditions for the RMPU projects so that there would be minimal or no impact to the RMPU projects scope budget or schedule. IEUA and

Watermaster have also met with Chino Basin Water Conservation District (CBWCD) to discuss the CBWCD facilities that are involved in the RMPU Implementation. As of April, negotiations are ongoing.

#### Yield Enhancement Projects: Agreement with Property Owners

Contact with SBCFCD and CBWCD has been made through above-mentioned process. The Sierra Basin is no longer considered a potential project due to the City of Fontana stating that the basin is to be repurposed in the future. The Lower San Sevine (PID 17) property was sold at auction; status is “ongoing due diligence by potential buyer” until May 2017. IEUA is working with California Steel Industries (CSI) on a wastewater issue and is discussing the potential of using that recharge basin for the project contemplated in the RMPU. CSI has expressed interest in recharging the basin with stormwater, recycled water, and other sources of supplemental water. As of April, discussions are ongoing. IEUA has come to an agreement with the property owners of the land where the proposed East Declez Basin may be built. The agreement allows IEUA to hold the site, without a loss of deposit, until May 17, 2016 while a decision is being finalized on how to proceed with the project after the initial pre-design study is completed.

### Years 2 and 3 -2015 and 2016

#### Yield Enhancement Projects: Prepare Preliminary Design of Recommended Yield Enhancement Projects

The Preliminary Design effort has begun and is reported for each individual project as a separate report which will be posted on Watermaster’s FTP site and also accessible at this link:

[http://www.cbwm.org/FTP/Recharge%20Investigations%20and%20Projects%20Committee%20\(RIPCom\)/Project%20PDRs/](http://www.cbwm.org/FTP/Recharge%20Investigations%20and%20Projects%20Committee%20(RIPCom)/Project%20PDRs/)

As of April 2016, the most recent report posted is for the Lower Day Improvements Project.

#### Yield Enhancement Projects: Prepare Environmental Documentation for Yield Enhancement Projects

The required environmental documents for the San Sevine Basin RMPU Project was completed on January 2016, through an IEUA Board adoption of a mitigated negative declaration on the proposed project. The required environmental documents for Lower Day Basin RMPU Project will have a similar find and action. The IEUA Board is scheduled to adopt the findings on April 20, 2016. The remaining RMPU projects will be addressed separately through a programmatic environmental impact report on the proposed planning level projects within the Recharge Master Plan Update document. A report is scheduled to be completed by August 2016.

### Financing Plan

A draft of the 2013 RMPU Master Plan Update Financing Plan was presented to the RIPCom Committee on March 17, 2016 by IEUA. The plan is posted on Watermaster's FTP site and also accessible at this link:

[http://www.cbwm.org/FTP/Recharge%20Investigations%20and%20Projects%20Committee%20\(RIPCom\)/RMPU%20Financing%20Plan-Draft/2013%20Recharge%20Master%20Plan%20Update%20Financing%20Plan-DRAFT.pdf](http://www.cbwm.org/FTP/Recharge%20Investigations%20and%20Projects%20Committee%20(RIPCom)/RMPU%20Financing%20Plan-Draft/2013%20Recharge%20Master%20Plan%20Update%20Financing%20Plan-DRAFT.pdf)

### Years 3 and 4-2016 and 2017

#### Prepare Final Designs and Acquire Necessary Permits for Yield Enhancement

As of April 2016, the Final Designs for the RMPU projects will be completed by the end of 2017. San Sevaine and Lower Day, projects on an accelerated schedule, will complete Final Design by May 2016 and October 2016 respectively.

### Years 5 and 6- 2018 and 2019

#### Construct 2013 RMPU Amendment Yield Enhancement Projects

Construction of the selected RMPU projects after Final Design are anticipated to be complete by the end of 2019.

#### Monitoring, Reporting, and Accounting Long-Term Average Net New Stormwater Recharge

The due date for the second round of requests for Water Quality Management Plan (WQMPs), Design Reports, and As-Built drawings for new projects and projects built between Fiscal Years 2011 and 2013 passed on November 1, 2015. As of April, Watermaster is working with WEI to analyze the data received.

#### Sustainability Projects:

Effort is underway. JCSD is the lead on this and is working with IEUA, Ontario, MVWD, and FWC to refine sustainability project opportunities. JCSD began receiving water from the City of Ontario in April 2015 per the Ontario-Jurupa In lieu Sustainability Project Agreement. With this agreement, JCSD will receive 2,000 acre-feet of Ontario's CDA allotment of water in exchange for the purchase of an equal quantity of imported water from the WFA plant for use by the City of Ontario. JCSD is also exploring other sources of imported water beyond Metropolitan Water District to diversify its water source portfolio.

The joint Vulcan/ FWC project at the Vulcan Pit anticipated recharge in the Basin in early September 2015, however, due to some logistical issues it was delayed until December 21, 2015. In February 2016, Vulcan/FWC completed its 100 acre-foot recharge project. The exact amount recharged was 100.006 acre feet. Further recharge is not anticipated until the winter of 2017.

# CHINO BASIN WATERMASTER

## IV. INFORMATION

### 4. Ground Level Monitoring Report



# Quarterly Status Report

## Ground-Level Monitoring Program

January – March 2016

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This quarterly status report describes the background of the Ground-Level Monitoring Program, (GLMP), main activities of the GLMP conducted for the period January-March 2016, and the main activities planned for the period April-June 2016.

### Background

Historically, the utilization of the Chino Basin has inadvertently resulted in land subsidence and ground fissuring. Pursuant the OBMP Implementation Plan, the Watermaster developed and implements the Chino Basin Subsidence Management Plan (SMP). The objective of the SMP is to minimize or abate the occurrence of land subsidence and ground fissuring.

The SMP identifies four “Areas of Subsidence Concern” and the Managed Area, within the Chino Basin. Figure 1 shows the locations and names of these Areas of Subsidence Concern. These are areas where land subsidence and ground fissuring have historically occurred or where the underlying hydrogeologic conditions makes these areas susceptible to land subsidence and ground fissuring. In the MZ-1 Managed Area, the Watermaster has conducted monitoring and testing programs, and has developed Management Criteria for the groundwater producers within the area to minimize or abate the future occurrence of land subsidence and ground fissuring. The Management Criteria consists of the following main elements:

- a list of production wells in the MZ-1 Managed Area that are subject to the SMP.
- an index water level measured in Watermaster’s PA-7 piezometer at Ayala Park. The index level is called the Guidance Level.
- a Watermaster recommendation that the well owners collectively manage their production so that the water level in the PA-7 piezometer remains above the Guidance Level.

The SMP also calls for:

1. an ongoing monitoring and reporting program to verify the protective nature of the SMP and identify new threats or occurrences of land subsidence.
2. a process to adjust the SMP to minimize or abate land subsidence and ground fissuring.

Since the initial SMP was adopted by the Watermaster in 2007, Watermaster has conducted the annual GLMP to implement the monitoring and reporting program (No. 1 above).

The main activities of the GLMP include:

- Setup and Maintenance of Monitoring Facilities
- Monitoring and Testing
- Data Analysis and Reporting
- Ground-Level Monitoring Committee (Committee) Meetings

The main results of the GLMP have been:

- Very little permanent land subsidence has occurred in the MZ-1 Managed Area, which indicates that subsidence is being successfully managed in this area.
- Land subsidence has been occurring in the Northwest MZ-1 Area. Of particular concern is



# Quarterly Status Report

## Ground-Level Monitoring Program

January – March 2016

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that subsidence in Northwest MZ-1 has occurred differentially across the San Jose Fault—the same pattern of differential subsidence that occurred in the MZ-1 Managed Area during the time of ground fissuring.

Based on these results, the Watermaster determined that the SMP needs to be updated to include a *Subsidence Management Plan for the Northwest MZ-1 Area* with the long-term objective to minimize or abate the occurrence of the differential land subsidence. To assist in this update, the GLMP has been expanded in the Northwest MZ-1 Area. The update included the *Work Plan to Develop a Subsidence Management Plan for the Northwest MZ-1 Area* (Work Plan). The Work Plan includes eleven tasks that include investigations, construction of monitoring facilities, monitoring and testing programs, modeling, and reporting. Tasks 1 through 5 and 11 are scheduled to begin or be completed during FY 2015-16. These Tasks include:

- Task 1: Describe the Initial Hydrogeologic Conceptual Model and the Monitoring and Testing Program
- Task 2: Implement the Initial Monitoring and Testing Program
- Task 3: Develop and Evaluate the Baseline Management Alternative
- Task 4: Develop and Evaluate the Initial Subsidence-Management Alternative
- Task 5: Design and Install the Pomona Extensometer Facility
- Task 11: Meetings and Administration

### Activities Performed from January - March 2016

#### Setup and Maintenance of Monitoring Facilities

- Monthly routine maintenance, data collection, and verification at the Ayala Park Extensometer and Chino Creek Extensometer facilities.
- Maintenance to the internet connection at the Ayala Park Extensometer facility in order to maintain the electronic data delivery to the Watermaster's Ayala Park website.
- Installed additional counter weights for the Chino Creek Extensometer facility. Additional counter-weights were installed to increase tension on the extensometer cables to reduce friction between the cables and the well casings, and provide a higher-resolution data set.
- Coordinated the removal of the Daniels Horizontal Extensometer facility at 5500 Daniels Street, Chino, CA. A new planned development at the site necessitates the removal of the facility by the end of April 2016.
- *Northwest MZ-1 Area Investigation:*
  - Installed two pressure transducers in wells owned by Golden State Water Company.

#### Monitoring and Testing

- Performed quarterly collection, processing, checking, and storing of piezometric and aquifer-system deformation data from the wells and extensometers shown on Figure 1.



# Quarterly Status Report

## Ground-Level Monitoring Program

January – March 2016

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- Collected InSAR data for western Chino Basin from the German Aerospace Center's TerraSAR-X satellite.
- Conducted ground-level surveys and electronic distance measurements (EDMs) at benchmarks in the Southeast Area, the MZ-1 Managed Area, and the San Jose Fault Zone Area shown on Figure 1.
- *Long-Term Pumping Test in the MZ-1 Managed Area.* The Long-Term Pumping Test, described in the SMP, was developed by the Committee to test and refine the Guidance Level for the Managed Area. The test requires that the City of Chino Hills simultaneously pump wells CH-15B and CH-17 to cause water levels at PA-7 to decline below the Guidance Level. The recovery phase of the Long-Term Pumping Test includes groundwater injection cycles at the City of Chino Hills' well CH-16. Both CH-15B and CH-16 require physical improvements to function in the Long-Term Pumping Test. The following work was performed (or not) for the Long-Term Pumping Test during the reporting period:
  - The City of Chino Hills modified the wellhead-treatment facility at CH-15B. No significant pumping occurred at the well that resulted in water levels to decline below the Guidance Level at PA-7.
  - No construction activities were performed to connect CH-16 to a source-water pipeline for injection during the reporting period.
- *Northwest MZ-1 Area Investigation:*
  - Collected, processed and checked groundwater level data and production data from wells in the study area.
  - Developed the one-dimensional aquifer-system compaction model that will be used to estimate future land subsidence in the Northwest MZ-1 Area.
  - Began research and discussions with insurance agencies to determine the feasibility and methodology to insure against damages related to land subsidence.
  - Began development of the Initial Subsidence-Management Alternative (ISMA).

### Data Analysis and Reporting

- Compiled and analyzed the data collected for the GLMP through 2015.
- Prepared text, tables, and figures for the draft *2015 Annual Report of the Ground-Level Monitoring Committee*.
- *Northwest MZ-1 Area Investigation:*
  - Prepared text, tables, and figures for the draft technical memorandum titled *Initial Hydrogeologic Conceptual Model and the Monitoring and Testing Program for the Northwest MZ-1 Area*. The technical memorandum describes the hydrogeological information that is known and required to develop a SMP for the Northwest MZ-1 Area.

### Meetings of the Ground-Level Monitoring Committee

A meeting of the Committee was conducted on March 21, 2016. The meeting agenda included:



# Quarterly Status Report

## Ground-Level Monitoring Program

January – March 2016

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- Reviewed and discussed the ground-level monitoring program:
  - Data through 2015
  - Ongoing/future data needs
  - Removal of the Daniels Horizontal Extensometer and construction of a new horizontal extensometer in the Managed Area
- Reviewed and discussed the initial conceptual model for the Northwest MZ-1 Area.
- Reviewed and discussed the proposed scope and budget for the ground-level monitoring program for fiscal year 2016-17.

### Activities Planned for April - June 2016

#### Setup and Maintenance of Monitoring Facilities

- Perform monthly routine maintenance, data collection, and verification at the Ayala Park Extensometer and Chino Creek Extensometer facilities.
- Fabricate, install, and test additional counter weights at the Chino Creek Extensometer facility.
- Remove the Daniels Horizontal Extensometer facility and return the site to its original condition.
- *Northwest MZ-1 Area Investigation:*
  - Coordinate with the Monte Vista Water District to facilitate collection of groundwater levels and production data from wells in the study area.

#### Monitoring and Testing

- Perform quarterly collection, processing, checking, and storing of piezometric and aquifer-system deformation data from the wells and extensometers shown on Figure 1.
- Collect InSAR data across the western Chino Basin from the German Aerospace Center's TerraSAR-X satellite.
- *Long-Term Pumping Test in the MZ-1 Managed Area:*
  - The City of Chino Hills will test a wellhead-treatment facility at well CH-15B in an effort to pump groundwater from this well.
- *Northwest MZ-1 Area Investigation:*
  - Continue to implement the Initial Monitoring Program at wells in and around the Northwest MZ-1 Area. Pressure transducers will monitor groundwater levels in wells. Production data will be collected and will include on/off times and production rates at production wells.
  - Finalize the one-dimensional aquifer-system compaction model and use it with the Chino Basin Groundwater Model and Baseline Management Alternative to estimate



## Quarterly Status Report Ground-Level Monitoring Program January – March 2016

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future subsidence in the Northwest MZ-1 Area if the Chino Basin Parties operate without an SMP for the Northwest MZ-1 Area.

- Continue research and discussion with insurance agencies to determine the feasibility and methodology to insure against damages related to land subsidence and prepare a cost estimate for such an insurance policy.
- Continue to develop the ISMA. The assumptions (i.e., decrease in production and/or increase in wet-water recharge) will be discussed with the Committee. The results of the ISMA on subsidence in the Northwest MZ-1 Area will be finalized during FY 2016/17.

### Data Analysis and Reporting

- Prepare the *2015 Annual Report of the Ground-Level Monitoring Committee*.
- *Northwest MZ-1 Area Investigation:*
  - Complete the draft technical memorandum titled *Initial Hydrogeologic Conceptual Model and the Monitoring and Testing Program for the Northwest MZ-1 Area*. The draft technical memorandum will be submitted to the Committee for review in May 2016. The final technical memorandum is scheduled to be published in June 2016.
  - Analyze data collected from the Initial Monitoring Program and prepare preliminary plan for short-term controlled pumping tests. The preliminary plans will be reviewed with the well owners and the Committee in May/June 2016.
  - Conduct siting study to identify potential site(s) for the Pomona Extensometer facility. The potential sites(s) will be reviewed with the Committee in April/May 2016.
  - Prepare a draft technical memorandum titled *Evaluation of the Baseline Management Alternative*. The draft technical memorandum will summarize aquifer conduction related to the baseline management alternative the results of the one-dimensional aquifer-system compaction model. The draft technical memorandum will be submitted to the Committee for review in June 2016.
  - The assumptions used in the ISMA will be reviewed with the Committee in May/June 2016.

### Meetings of the Ground-Level Monitoring Committee

Three Committee meeting are planned during the period April through June 2016:

- A conference call for the Committee was held on April 4, 2016. The meeting agenda included:
  - Review and discussion of revisions to the scope and budget for the ground-level monitoring program for fiscal year 2016-17 based on recommendations from the Committee made during the meeting on March 21, 2016.
  - Distribution of updated Work Breakdown Structure and Cost Estimates and implementation schedule for the *Work Plan to Prepare a Subsidence Management Plan for the Northwest MZ-1 Area* based on current projections.

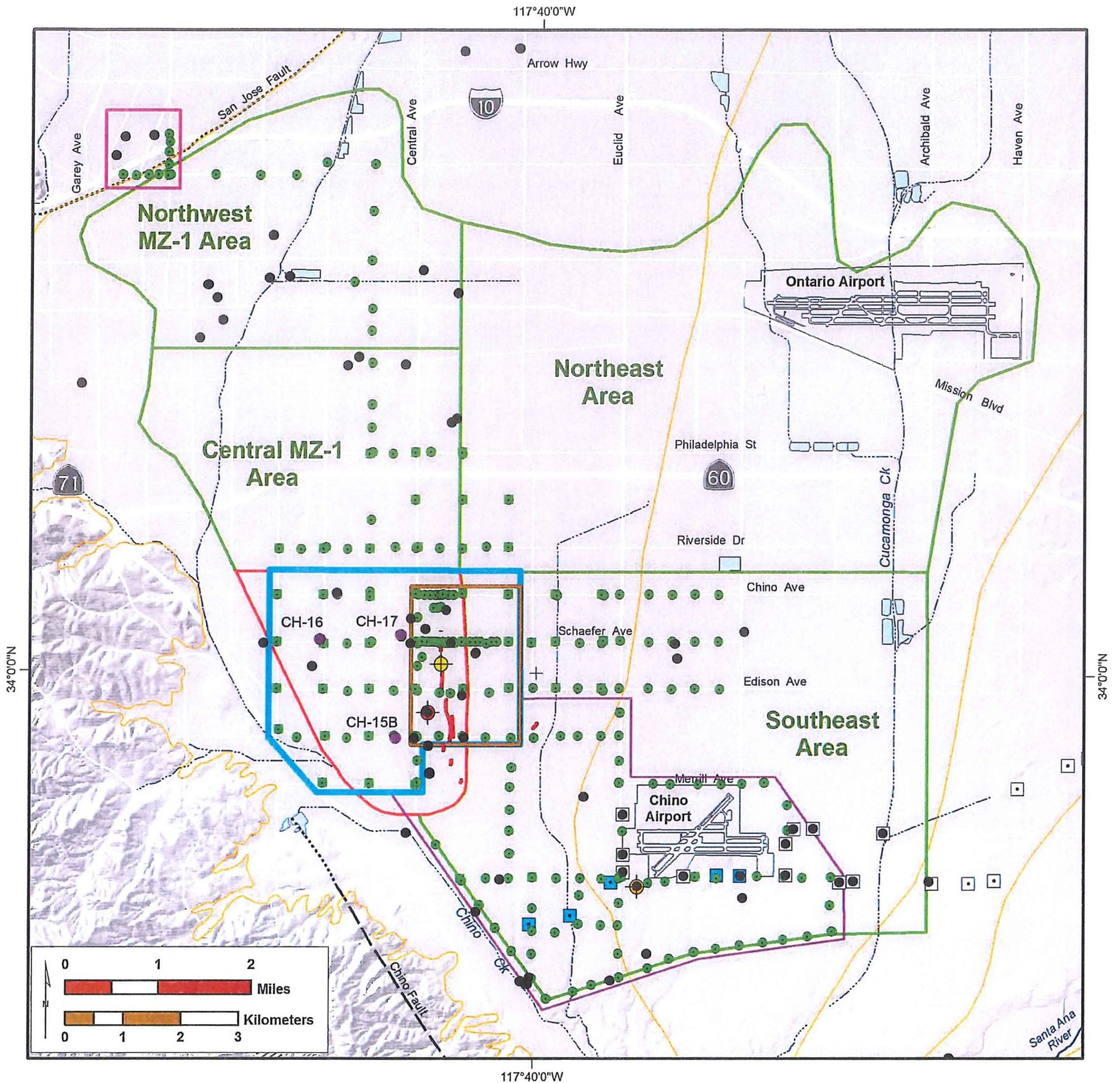


Quarterly Status Report  
Ground-Level Monitoring Program  
January – March 2016

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- The next meeting of the Committee is planned for May 2016. The meeting agenda will include:
  - Review and discuss the draft *Initial Hydrologic Conceptual Model and Monitoring and Testing Program*.
  - Review and discuss the draft *2015 Annual Report of the Ground-Level Monitoring Committee*.
- Another meeting of the Committee is planned for June 2016. The meeting agenda will include:
  - Review and discuss data collected from the Initial Monitoring Program and the preliminary plans for short-term controlled pumping tests.
  - Review and discuss the potential site(s) for the Pomona Extensometer facility.
  - Review and discuss the results of the one-dimensional aquifer-system compaction model and the draft technical memorandum titled *Evaluation of the Baseline Management Alternative*.





**Survey Benchmarks**

- Benchmark Monument

**Survey Areas**

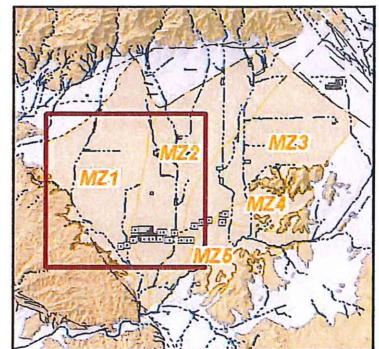
- ▭ Southeast Area
- ▭ Fissure Zone
- ▭ Managed Area
- ▭ San Jose Fault Zone

**Wells and Extensometers**

- Well Monitored by Pressure Transducer - Dec. 2015
- CH-15B, CH-16 & CH-17 wells
- Desalter Well
- Desalter Well - Chino Creek Well Field
- Ayala Park Extensometer
- ⊕ Chino Creek Extensometer
- ⊕ Daniels Horizontal Extensometer

**MZ-1 Managed Area**

- ▭ Areas of Subsidence Concern
- ⋈ Historical Ground Fissures



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# CHINO BASIN WATERMASTER

## IV. INFORMATION

5. Update on South Archibald and Chino Airport Plumes

## Quarterly Status Report on the South Archibald TCE Plume – April 2016

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**Contaminant:** The primary contaminant is Trichloroethene (TCE). The maximum contaminant level (MCL) for TCE is 5 micrograms per liter ( $\mu\text{g/L}$ ). The maximum TCE concentration measured in a groundwater sample collected from wells within the plume during the last five years (2011 to 2015) is 90  $\mu\text{g/L}$ .

**Location:** The plume is located in the southern Chino Basin within the City of Ontario. As delineated by the Chino Basin Watermaster (Watermaster) in 2015<sup>1</sup>, the extent of the plume with detectable TCE concentrations is about 11,000 feet wide and 23,000 feet long, and extends from State Route 60 on the north to Bellegrave Ave. to the south, between Haven and Turner Avenues on the east, and Grove Avenue on the west. In 2014, several parties<sup>2</sup> delineated the plume area with TCE concentrations greater than or equal to 5  $\mu\text{g/L}$ . Both plume delineations are shown in Exhibit 1.

**Cleanup and Abatement Orders (CAOs):** In 2005, the Santa Ana Regional Water Quality Control Board (Regional Board) issued six Draft CAOs to the Aerojet-General Corporation, The Boeing Company, Northrop Grumman Corporation, Lockheed Martin Corporation, General Electric Corporation and the United States Department of Defense; and in 2012 issued one Draft CAO jointly to the City of Ontario, City of Upland, and Inland Empire Utilities Agency (IEUA).

**Regulatory and Monitoring History:** In the mid-1980s, the Metropolitan Water District of Southern California determined that TCE was present in private wells in the southern Chino Basin as part of the work associated with the Chino Basin Storage Program. The Regional Board confirmed this with subsequent rounds of sampling.

The Regional Board issued Draft CAOs in 2005 for six different parties who were tenants on the Ontario Airport property. On a voluntary basis, four of the parties—Aerojet-General Corporation, The Boeing Company, General Electric Company, and Lockheed Martin Corporation, collectively ABGL parties, worked together, along with the U.S. Department of Defense, to investigate the source of the contamination. Part of the investigations included collecting water-quality samples from private wells and taps at residences, and the construction and sampling of four triple-nested monitoring wells. Alternative water systems were provided at private residences in the area where groundwater was contaminated with TCE.

In 2008, Regional Board staff conducted research pertaining to the likely source of the TCE contamination and identified discharges of wastewater that may have contained TCE to the RP-1 treatment plant and associated disposal areas to be a potential source. The Regional Board identified several industries, including some previously identified tenants of the Ontario Airport property, that likely used TCE solvents before and during the early-1970s, and discharged wastes to the Cities of Ontario and Upland sewage systems tributary to the RP-1 treatment plant and disposal areas. In 2012, an additional Draft CAO was issued by the Regional Board jointly to the City of Ontario, City of Upland, and the IEUA as the previous and current operators of the RP-1 treatment plant and disposal area (collectively RP-1 parties).

Under the Regional Board's oversight, sampling at private residential wells and taps has been conducted approximately every two years (2007-08, 2009, 2011 and 2013-14) by multiple parties in the region where

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<sup>1</sup> Wildermuth Environmental, Inc. (2015). Optimum Basin Management Program – 2014 State of the Basin Report. Prepared for the Chino Basin Watermaster. June 2015.

<sup>2</sup> Erler & Kalinowski. (2014). Supplemental Data Report. Trichloroethene Plume. Central Chino Basin, Ontario, California. Prepared for Aerojet Rocketdyne, Boeing, General Electric, and Lockheed Martin. November 19, 2014.



## Quarterly Status Report on the South Archibald TCE Plume – April 2016

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groundwater is potentially contaminated with TCE. As of 2014, all private wells in the area of the plume have been sampled at least once since 2007. The most recent monitoring report with all this data was published in November 2014<sup>3</sup>. Alternate water systems (tanks) have been installed at residences in the area where well water contains TCE at or above 80% of the MCL for TCE. Residents who declined tank systems are being provided bottled water.

Watermaster routinely samples private wells in the plume area for water quality. Watermaster also conducted two rounds of split sampling with ABGL parties: one in 2009 at the four multi-port ABGL monitoring wells, and one in 2011 at private residences' wells and taps. Watermaster uses data obtained from their own monitoring efforts to delineate the plume. The most recent characterization of the plume was completed by Watermaster in 2015 for the 2014 State of the Basin Report<sup>1</sup> (see Exhibit 1).

### Recent Activity:

Settlement discussions are ongoing between many of the parties to whom Draft CAOs have been issued.

Many of the parties are pursuing various grant funding opportunities to help finance the remediation strategy. This includes applications submitted to the United States Bureau of Reclamation, which resulted in a \$3 million award to the parties. The RP-1 parties have entered into a Cost Sharing Agreement to fund the South Archibald Plume Cleanup Project

The RP-1 parties completed the Draft Feasibility Study Report for the South Archibald Plume (Feasibility Study) in July 2015<sup>4</sup>. The Feasibility Study establishes clean-up objectives for both domestic water supply and plume remediation, and evaluates alternatives to accomplish these objectives. A Draft Remedial Action Plan (RAP) was concurrently prepared by the RP-1 parties<sup>5</sup> and published in August 2015. A public review period followed along with two community meetings convened in September 2015 to educate the public about the plume, the Feasibility Study and the RAP, and to solicit comments on these reports. A public repository of all pertinent documents is available online at <http://tceplumecleanup.com>. In November 2015 a revised Draft Feasibility Study<sup>6</sup>, RAP<sup>7</sup>, and Responses to Comments were completed to address input from the public, ABGL, and other parties.

The preferred domestic water supply alternative identified in the Feasibility Study and RAP for those residences affected by TCE contamination of groundwater associated with the plume, is a hybrid between the installation of tank systems for some residences, where water is delivered from the City of Ontario potable supply via truck deliveries, and installing temporary pipeline to connect some residences to the City of Ontario potable water system.

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<sup>3</sup> Erler & Kalinowski, Inc. (2014). Supplemental Data Report Trichloroethene Plume Central Chino Basin. Prepared for Aerojet Rocketdyne, Boeing, General Electric, and Lockheed Martin. November 19, 2014.

<sup>4</sup> Dudek (2015). Draft Feasibility Study Report South Archibald Plume, Ontario, California. Prepared for City of Ontario, City of Upland, and Inland Empire Utilities Agency. July 2015.

<sup>5</sup> Dudek (2015). Draft Remedial Action Plan South Archibald Plume, Ontario, California. Prepared for City of Ontario, City of Upland, and Inland Empire Utilities Agency. August 2015.

<sup>6</sup> Dudek (2015). Draft Feasibility Study Report South Archibald Plume, Ontario, California. Prepared for City of Ontario, City of Upland, and Inland Empire Utilities Agency. November 2015.

<sup>7</sup> Dudek (2015). Draft Remedial Action Plan South Archibald Plume, Ontario, California. Prepared for City of Ontario, City of Upland, and Inland Empire Utilities Agency. November 2015.



## Quarterly Status Report on the South Archibald TCE Plume – April 2016

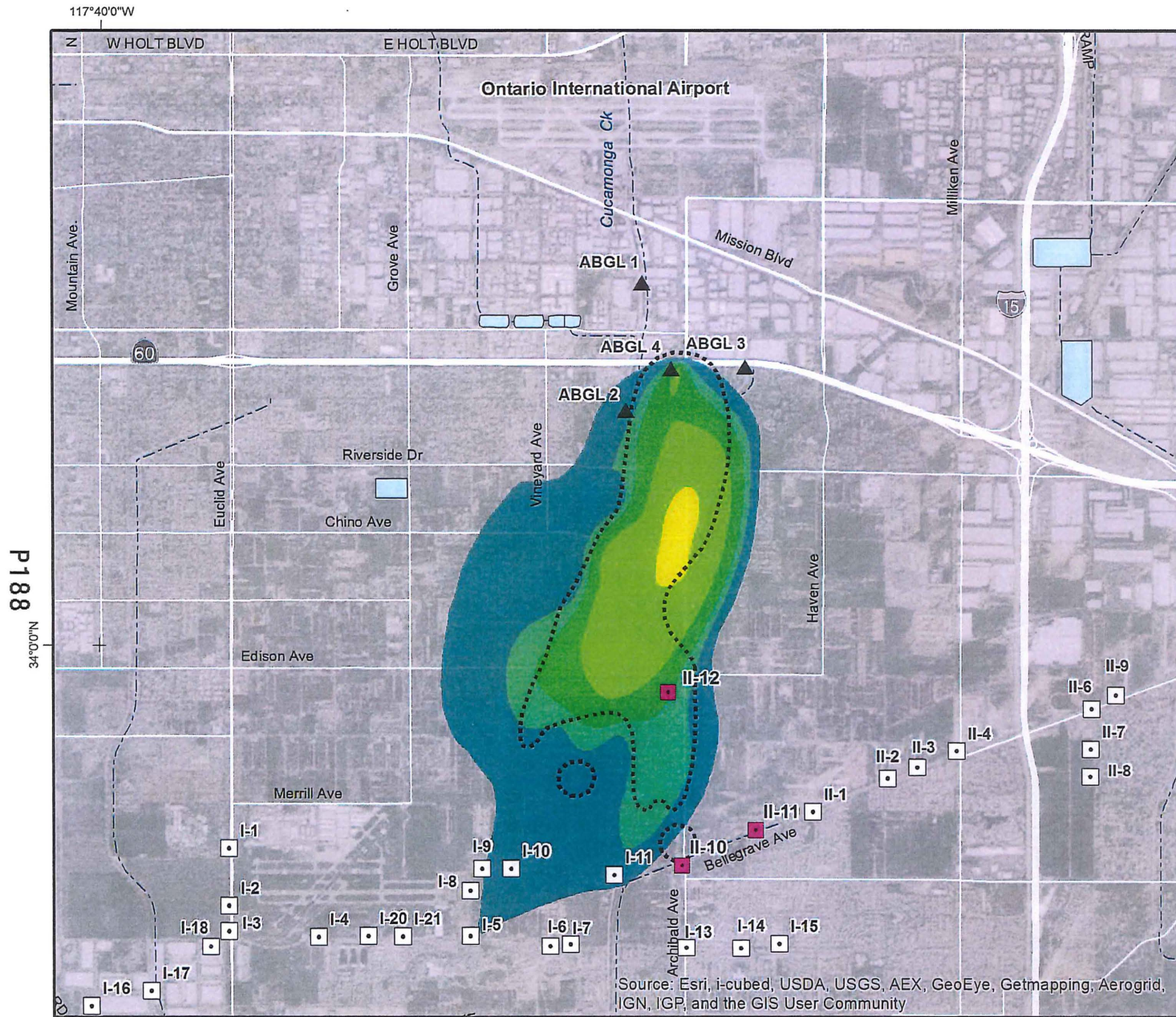
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The preferred plume remediation alternative identified in the Draft Feasibility Study and RAP involves the use of existing and proposed Chino Basin Desalter Authority (CDA) production wells and facilities. The RP-1 parties and the CDA reached a Joint Facility Development Agreement<sup>8</sup> for implementation of a project designed to remediate the South Archibald Plume. The proposed project includes the construction and operation of three new CDA production wells, and a dedicated pipeline to convey produced groundwater from the three new wells and existing CDA well I-11 to the Desalter II treatment facility. The Draft Feasibility Study and RAP will be finalized based on regulatory input from the Regional Board, and comments from the public and other stakeholders. The anticipated milestones for this proposed project are to obtain Regional Board approval by June 2016, commence project implementation in 2016, and initiate cleanup efforts by 2017.

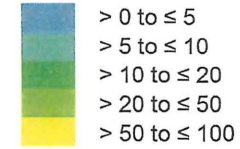
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<sup>8</sup> Agreement dated June 17, 2015





Maximum TCE Concentration (µg/L)  
from July 2009 to June 2014  
(Delineated by Watermaster in the 2014 State  
of the Basin Report)



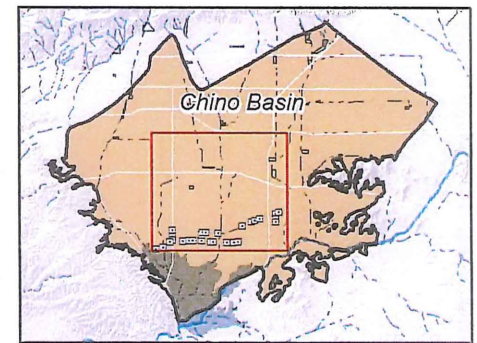
Extent of the TCE Plume with  
concentrations greater than or  
equal to 5 ug/L using data collected  
by ABGL during 2011 to 2014.  
(Delineated in the November 2014  
Supplemental Data Report)

Chino Basin Desalter Authority  
Production Wells:

- ◻ Existing (Constructed Between 1999 to 2012)
- ◼ New (Currently Being Constructed and Equipped)

- ▲ ABGL Monitoring Well
- ~ Streams & Flood Control Channels

- ☁ Flood Control & Conservation Basins



Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

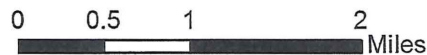
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117°40'0"W  
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Date: 4/7/2016  
Name: SouthArchibald\_20150714



CBWM Quarterly Status Report

South Archibald TCE Plume

Exhibit 1

## Quarterly Status Report on the Chino Airport TCE Plume – April 2016

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**Contaminants:** The primary contaminant is Trichloroethene (TCE). The maximum contaminant level for TCE is 5 micrograms per liter ( $\mu\text{g/L}$ ). The maximum TCE concentration detected in a groundwater sample collected from wells within the plume area during the last five years (2011 to 2015) is 670  $\mu\text{g/L}$ . Other contaminants of concern include 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, and 1,2,3-trichloropropane.

**Location:** The Chino Airport TCE Plume is located in the southwestern portion of the Chino Basin within the City of Chino (Exhibit 1). As delineated by the Chino Basin Watermaster (Watermaster) in 2015<sup>1</sup>, the extent of the plume with detectable TCE concentrations is about 3,500 feet wide and 12,500 feet long, extending from the Chino Airport towards the south-southeast to just below Pine Avenue.

**Cleanup and Abatement Orders (CAOs):** The Santa Ana Regional Water Quality Control Board (Regional Board) issued CAO No. 90-134 and CAO No. R8-2008-0064, to the County of San Bernardino Department of Airports (County).

**Regulatory and Monitoring History:** In 1990, the Regional Board issued CAO No. 90-134 to address groundwater contamination originating from the Chino Airport. From 1991 to 1992, 310 containers of hazardous waste were removed and 81 soil borings were drilled and sampled on the airport property. During 2003 to 2005, nine onsite monitoring wells were installed and used to collect groundwater quality samples. In 2007, the County conducted its first offsite monitoring effort, which included 22 cone penetrometer tests (CPT) and direct push borings from which water quality samples were collected. In 2008, the Regional Board issued CAO No. R8-2008-0064 requiring the County to define the lateral and vertical extent of the plume and to prepare a remedial action plan. Since From 2009 to 2012, 33 offsite monitoring wells were installed at 15 locations to characterize the extent of the contamination. From 2014 to 2015, 33 additional monitoring wells were installed at 17 locations both onsite and offsite the Airport property to help further characterize the plume extent and location. Since 2003, the County has conducted quarterly to annual monitoring at their monitoring wells. Conclusions from the monitoring program can be found in reports posted on the Regional Board's GeoTracker website<sup>2</sup>. The most recent monitoring report submitted to the Regional Board was in February 2016<sup>3</sup>. The County has not yet performed any groundwater remediation activities.

The Chino Basin Watermaster (Watermaster) collects groundwater-quality samples from private wells in the plume area, and at its HCMP-4 monitoring well located in the southern portion of the plume. The Chino Basin Desalter Authority (CDA) collects groundwater-quality samples from its production wells located in the plume area. Watermaster uses data from the County, CDA, and their own sampling to perform an independent characterization of the extent and concentration of the TCE plume. The most recent characterization of the plume was completed by Watermaster in 2015 for the 2014 State of the Basin Report<sup>1</sup> and is shown on Exhibit 1.

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<sup>1</sup> Wildermuth Environmental Inc. (2015). Optimum Basin Management Program - 2014 State of the Basin Report. Prepared for the Chino Basin Watermaster. June 2015.

<sup>2</sup> [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=SL208634049](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL208634049)

<sup>3</sup> Tetra Tech (2016) Semiannual Groundwater Monitoring Report Summer and Fall 2015. Chino Airport Groundwater Assessment, San Bernardino County, California. Prepared for County of San Bernardino Department of Architecture and Engineering. February 2016.



## Quarterly Status Report on the Chino Airport TCE Plume – April 2016

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**Recent Activity:** In April 2015, the County’s hydrogeology consultant (Tetra Tech) submitted the final report<sup>4</sup> of two investigation reports<sup>5</sup> that describes the results of extensive soil and groundwater investigation activities performed at the Airport during 2013 and 2014. The field work was performed in accordance with a work plan approved by the Regional Board on October 28, 2013<sup>6</sup> (Work Plan), and targeted several areas identified in a May 2013 site assessment report<sup>7</sup> for additional characterization of the soil and groundwater contamination associated with the Chino Airport. The investigative work included: piezocone-penetrometer tests; vertical-aquifer-profiling (VAP) borings with depth-discrete groundwater sampling; soil-gas probe sampling; high-resolution soil sampling and analysis; real-time data analysis; and three-dimensional contaminant distribution modeling. At the conclusion of this field work, from September 2014 through February 2015, 33 groundwater monitoring wells were installed in 17 locations on and adjacent to the Airport property.

In July 2015, Tetra Tech and the County presented an overview to the Regional Board of recent activities, the results of the aforementioned soil and groundwater investigations, and the proposed interim remedial action plan. The County has proposed to design and construct a wellhead treatment system at existing CDA well I-18, which is located at the center of the plume. Preliminary design is underway and negotiations have been initiated with the CDA to implement this remedy. The County is working on a groundwater feasibility study and the development of a site-specific groundwater model to evaluate remedial alternatives as part of the feasibility study.

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<sup>4</sup> Tetra Tech (2015). Remedial Investigation Report Addendum Chino Airport San Bernardino County, California. Prepared for the County of San Bernardino, Department of Architecture and Engineering April 2015.

<sup>5</sup> Tetra Tech (2014). Remedial Investigation Report Chino Airport San Bernardino County, California. Prepared for the County of San Bernardino, Department of Architecture and Engineering December 2014.

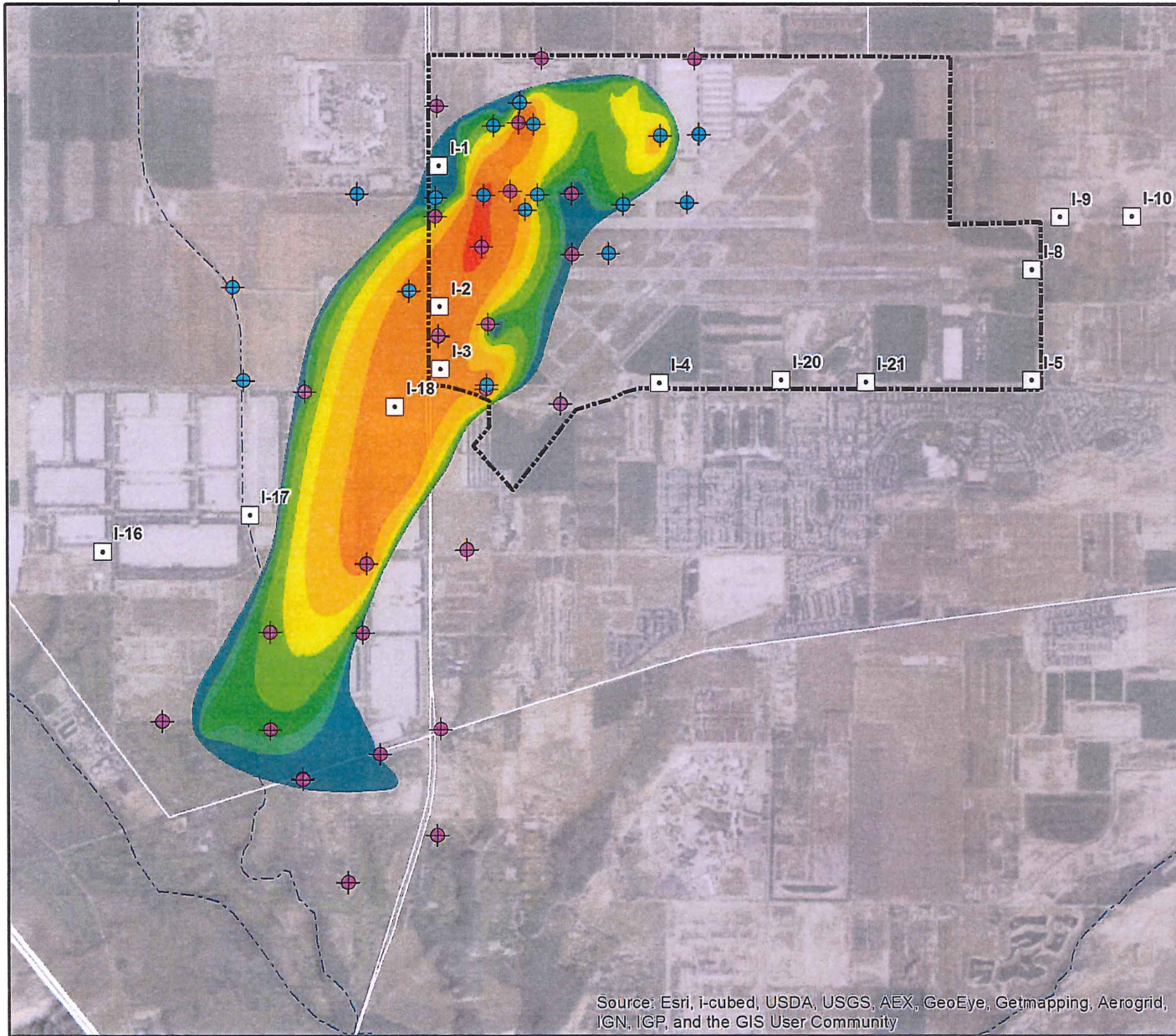
<sup>6</sup> Tetra Tech. (2013). Work Plan for Additional Site Characterization. Chino Airport, San Bernardino County, California. Prepared for the County of San Bernardino, Department of Architecture and Engineering. June 2013.

<sup>7</sup> Tetra Tech. (2013). Historical Site Assessment Report. Chino Airport, San Bernardino County, California. Prepared for the County of San Bernardino, Department of Architecture and Engineering. May 2013.

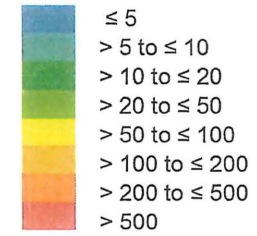


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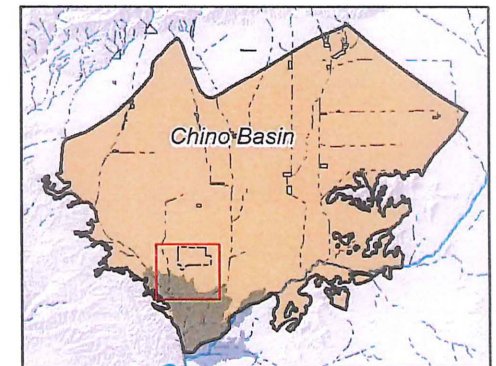


Maximum TCE Concentration (µg/L)  
 July 2009 to June 2014  
 (Delineated by Watermaster in the 2014  
 State of the Basin Report)



Location of County of San Bernardino  
 Monitoring Well (some locations have  
 multiple wells at various depths)

- Constructed Between 2003 and 2012
- Constructed Between September 2014 and February 2015
- Chino Basin Desalter Authority Production Well
- Chino Airport Property Boundary

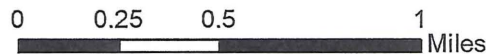


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CBWM Quarterly Status Report

Chino Airport TCE Plume

Exhibit 1



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