

CHINO BASIN WATERMASTER



NOTICE OF MEETING

Thursday, February 22, 2018

11:00 a.m. – Watermaster Board Meeting

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

CHINO BASIN WATERMASTER

Thursday, February 22, 2018

11:00 a.m. – Watermaster Board Meeting

AGENDA

**CHINO BASIN WATERMASTER
WATERMASTER BOARD MEETING**

11:00 a.m. – February 22, 2018

WITH

Mr. Robert DiPrimio – 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

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

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 Watermaster Board Meeting held January 25, 2018 (*Page 1*)

B. FINANCIAL REPORTS

1. Cash Disbursements for the month of December 2017 (*Page 7*)
2. Watermaster VISA Check Detail for the month of December 2017 (*Page 21*)
3. Combining Schedule for the Period July 1, 2017 through December 31, 2017 (*Page 25*)
4. Treasurer's Report of Financial Affairs for the Period December 1, 2017 through December 31, 2017 (*Page 29*)
5. Budget vs. Actual Report for the Period July 1, 2017 through December 31, 2017 (*Page 33*)

C. WATER TRANSACTIONS (*Page 53*)

Approve the proposed transaction as presented:

The permanent transfer of 55.239 acre-feet of Safe Yield rights, 55.239 acre-feet of Excess Carryover, and 388.081 acre-feet of stored water from Ameron International Corporation to City of Ontario (Non-Ag). Date of application: October 31, 2017.

II. BUSINESS ITEMS

NONE

III. REPORTS/UPDATES

A. LEGAL COUNSEL REPORT

1. Appeal of April 28, 2017 Order
2. 40th Annual Report Court Filing (April 13, 2018 Hearing)

B. ENGINEER REPORT

1. Storage Framework Workshop
2. 2018 RMPU
3. Salinity Management
4. Prado Basin Habitat Sustainability Program
5. Ground-Level Monitoring Committee
6. Other Efforts

C. CFO REPORT

1. Fiscal Year 2018/19 Budget Schedule

D. GM REPORT

1. SGMA Update on Fringe Areas and Annual Filing
2. CGC Membership
3. RMPU Process
4. Storage in Chino Basin
5. Other

IV. INFORMATION

1. Cash Disbursements for January 2018 *(Page 61)*
2. Recharge Investigations and Projects Committee (RIPCom) *(Page 69)*
3. Ground-Level Monitoring Status Report (Semi-Annual) *(Page 89)*
4. South Archibald and Chino Airport Plumes Status Reports (Semi-Annual) *(Page 95)*
5. RMPU Status Report (Semi-Annual) *(Page 109)*
6. Santa Ana River Watershed Status Report (Semi-Annual) *(Page 113)*

V. BOARD MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

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

VIII. FUTURE MEETINGS AT WATERMASTER

2/22/18	Thu	11:00 a.m.	Watermaster Board
3/01/18	Thu	9:00 a.m.	Ground-Level Monitoring Committee
3/08/18	Thu	9:00 a.m.	Appropriative Pool
3/08/18	Thu	11:00 a.m.	Non-Agricultural Pool
3/08/18	Thu	1:30 p.m.	Agricultural Pool
3/13/18	Tue	9:00 a.m.	Groundwater Recharge Coordinating Committee (Held at CBWM)
3/13/18	Tue	1:30 p.m.	Prado Basin Habitat Sustainability Committee (Held at IEUA)
3/14/18	Wed	9:00 a.m.	Storage Framework – Workshop #6
3/15/18	Thu	8:00 a.m.	Appropriative Pool Strategic Planning (Confidential Session Only)
3/15/18	Thu	9:00 a.m.	Advisory Committee
3/15/18	Thu	9:30 a.m.	2018 RMPU Steering Committee #2
3/22/18	Thu	11:00 a.m.	Watermaster Board
3/27/18	Tue	11:00 a.m.	Fiscal Year 2018/19 Budget Distribution

ADJOURNMENT

CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

A. MINUTES

1. Watermaster Board Meeting held on January 25, 2018

DRAFT MINUTES
CHINO BASIN WATERMASTER
WATERMASTER BOARD MEETING

January 25, 2018

The Watermaster Board meeting was held at the offices of the Chino Basin Watermaster located at 9641 San Bernardino Road, Rancho Cucamonga, CA on January 25, 2018.

WATERMASTER BOARD MEMBERS PRESENT

Robert DiPrimio, Chair
Jeff Pierson, Vice-Chair
Bob Kuhn, Secretary/Treasurer
Bob Bowcock
Eunice Ulloa
Paul Hofer
Steve Elie
Gino Filippi
Don Galleano

Fontana Water Company
Agricultural Pool – Crops
Three Valleys Municipal Water District
CalMat Co.
City of Chino
Agricultural Pool – Crops
Inland Empire Utilities Agency
City of Upland
Western Municipal Water District

WATERMASTER STAFF PRESENT

Peter Kavounas
Joseph Joswiak
Anna Truong
Edgar Tellez Foster
Justin Nakano
Camille Gregory

General Manager
Chief Financial Officer
Executive Services Director/Board Clerk
Senior Environmental Engineer
Water Resources Senior Associate
Administrative Assistant

WATERMASTER CONSULTANTS PRESENT

Scott Slater
Andy Malone

Brownstein Hyatt Farber Schreck, LLP
Wildermuth Environmental, Inc.

OTHERS PRESENT

Teri Layton
Brian Geye
Bob Feenstra
Pete Hall
Van Jew
Curtis Paxton
Steve Sentes
Geoffrey Vanden Heuvel
Dave Crosley
Craig Miller
Amanda Coker
Ron Craig
Rosemary Hoerning
Todd Corbin
John Bosler
David De Jesus
Kati Parker
Raul Garibay
Darron Poulsen
Manny Martinez
Art Kidman
Josh Swift
Seth Zielke
Mark Kinsey

San Antonio Water Company
California Speedway Corporation
Agricultural Pool – Dairy
State of California – CIM
Monte Vista Water District
Chino Basin Desalter Authority
Chino Basin Water Conservation District
Agricultural Pool – Dairy
City of Chino
Western Municipal Water District
City of Chino
City of Chino Hills
City of Upland
Jurupa Community Services District
Cucamonga Valley Water District
Three Valleys Municipal Water District
Inland Empire Utilities Agency
City of Pomona
City of Pomona
Monte Vista Water District
Kidman Law, LLP
Fontana Union Water Company
Fontana Water Company
Monte Vista Water District

Halla Razak

Inland Empire Utilities Agency

CALL TO ORDER

Mr. Bob DiPrimio, 2017 Vice-Chair called the Watermaster Board meeting to order at 11:00 a.m.

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

None

AGENDA – ADDITIONS/REORDER

None

RECOGNITION OF OUTGOING MEMBER’S SERVICE ON WATERMASTER BOARD

(0:01:00) Vice-Chair DiPrimio announced that Mr. Vanden Heuvel, a long standing member, has rotated off the Watermaster Board and, on behalf of the Board, presented Mr. Vanden Heuvel with a plaque recognizing his service in the Chino Basin and on the Watermaster Board. Ms. Layton, on behalf of the Appropriative Pool, presented Mr. Vanden Heuvel with a service recognition plaque. Mr. Miller, on behalf of Western Municipal Water District, presented Mr. Vanden Heuvel with a service recognition plaque. The remainder of the Board, Messrs. Feenstra, Kavounas, Slater, and Wildermuth added additional sentiments and comments.

(0:22:48) Mr. Vanden Heuvel expressed his gratefulness for the heartfelt sentiments, and made additional comments about his service and tenure in Chino Basin.

INTRODUCTIONS – CALENDAR YEAR 2018 WATERMASTER BOARD MEMBERS

Overlying (Ag) Pool	Paul Hofer
Overlying (Ag) Pool	Jeff Pierson
Overlying (Non-Ag) Pool	Bob Bowcock
Appropriative Pool	Robert DiPrimio (Fontana Water Company)
Appropriative Pool	Gino Filippi (Minor Representative)
Appropriative Pool	Eunice Ulloa (City of Chino)
Municipal	Steve Elie (Inland Empire Utilities Agency)
Municipal	Don Galleano (Western Municipal Water District)
Municipal	Bob Kuhn (Three Valleys Municipal Water District)

(0:27:21) The 2018 Board members introduced themselves.

I. CALENDAR YEAR 2018 OFFICERS – ACTION

A. ELECTION OF OFFICERS

Chair	<u>Robert DiPrimio</u>
Vice-Chair	<u>Jeff Pierson</u>
Secretary/Treasurer	<u>Bob Kuhn</u>

(0:31:02) Mr. DiPrimio turned control of the meeting over to Mr. Slater to conduct the election of officers.

(0:31:19)

Motion by Mr. Steve Elie, seconded by Mr. Bob Bowcock, and by unanimous vote.

Moved to elect Calendar Year 2018 Watermaster Board Officers as indicated above.

(0:32:23) Mr. Kavounas announced that a brief recess was needed to allow the photographer to work with the Board.

II. CONSENT CALENDAR

A. MINUTES

- 1. Minutes of the Watermaster Board Meeting held November 16, 2017

B. FINANCIAL REPORTS

- 1. Cash Disbursements for the month of October 2017
- 2. Watermaster VISA Check Detail for the month of October 2017
- 3. Combining Schedule for the Period July 1, 2017 through October 31, 2017
- 4. Treasurer’s Report of Financial Affairs for the Period October 1, 2017 through October 31, 2017
- 5. Budget vs. Actual Report for the Period July 1, 2017 through October 31, 2017
- 6. Cash Disbursements for the month of November 2017
- 7. Watermaster VISA Check Detail for the month of November 2017
- 8. Combining Schedule for the Period July 1, 2017 through November 30, 2017
- 9. Treasurer’s Report of Financial Affairs for the Period November 1, 2017 through November 30, 2017
- 10. Budget vs. Actual Report for the Period July 1, 2017 through November 30, 2017

C. CHINO BASIN WATERMASTER INVESTMENT POLICY

Adopt Resolution 2018-01 – Resolution of the Chino Basin Watermaster, San Bernardino County, California, Re-Authorizing the Watermaster’s Investment Policy.

D. LOCAL AGENCY INVESTMENT FUND

Adopt Resolution 2018-02 – Resolution Authorizing Investment of Monies in the Local Agency Investment Fund (LAIF).

E. CHINO BASIN WATERMASTER 40TH ANNUAL REPORT

Adopt the 40th Annual Report, along with filing a copy with the Court, subject to any necessary non-substantive changes.

F. NOTICE OF INTENT TO CHANGE THE OPERATING SAFE YIELD OF THE CHINO GROUNDWATER BASIN

G. HEARING OFFICER PANEL APPOINTMENT

Appoint the recommended panel of five, to be reconsidered periodically and no less than annually.

(0:32:24) The newly elected Chair, Mr. DiPrimio, resumed the Board meeting.

(0:32:53)

Motion by Mr. Bob Kuhn, seconded by Mr. Steve Elie, and by majority vote.

Moved to approve Consent Calendar as presented.

Abstention by Ms. Eunice Ulloa – City of Chino

III. BUSINESS ITEMS

NONE

IV. REPORTS/UPDATES

A. LEGAL COUNSEL REPORT

- 1. December 15, 2017 Court Hearing
- 2. January 12, 2018 Court Hearing
- 3. Appeal of April 28, 2017 Order

4. Appropriative Pool Release of Safe Yield Reset and Accounting Compromise Term Sheet
5. 40th Annual Report Court Filing

(0:33:20) Mr. Slater gave a report. A discussion ensued.

(0:51:55) Chair DiPrimio, on behalf of the Watermaster Board directed Watermaster staff and counsel to review and present a technical and legal analysis of the Term Sheet, prepare written comments to the parties, and report back to the Board. Further discussion ensued.

(1:01:38) Mr. Slater announced that Watermaster will present the 40th Annual Report through live testimony to Judge Stanford Reichert of the San Bernardino County Superior Court on April 13, 2018, and arrange a site visit for the Judge.

B. ENGINEER REPORT

1. Storage Management Progress Report
2. Other Ongoing Work

(1:03:25) Mr. Wildermuth gave a report.

(1:03:38) Mr. Galleano left the meeting.

C. CFO REPORT

1. 2017/18 Assessment Invoicing

(1:08:11) Mr. Joswiak gave a report.

D. GM REPORT

1. Overview of Watermaster Schedule of Duties and Obligations
2. Well Preservation Strategy
3. SGMA Compliance Update
4. 2018 RMPU
5. 2017 Replenishment Water Delivery
6. Other

(1:09:20) Mr. Kavounas congratulated Chair DiPrimio and the other officers for their elected positions on the Board and gave a report on Item IV.D.1. A discussion ensued.

(1:16:48) Mr. Kavounas introduced Mr. Tellez Foster to give reports on Items IV.D.2 and IV.D.3. A discussion ensued.

(1:25:50) Mr. Kavounas gave a report on Item IV.D.4., announced that the 2018 RMPU needs to be filed with the Court every five years, and the next update will be filed in October 2018. In addition, Mr. Kavounas gave reports on Item IV.D.5., and added an item on the Santa Ana River Conservation and Conjunctive Use Program, and maximizing the use of the basin as an effective bank.

V. INFORMATION

1. Cash Disbursements for December 2017

VI. BOARD MEMBER COMMENTS

(1:29:59) Mr. Filippi thanked Mr. Slater for his continuous efforts in keeping Judge Reichert involved with Watermaster.

(1:30:25) Mr. Kuhn welcomed Mr. Pierson and Ms. Ulloa to the Watermaster Board.

VII. OTHER BUSINESS

None

VIII. CONFIDENTIAL SESSION - POSSIBLE ACTION

None

ADJOURNMENT

Chair DiPrimio adjourned the Watermaster Board meeting at 12:35 p.m.

Secretary: _____

Approved: _____

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CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

B. FINANCIAL REPORTS

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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

STAFF REPORT

DATE: February 22, 2018
TO: Board Members
SUBJECT: Cash Disbursement Report - Financial Report B1 (December 31, 2017)

SUMMARY

Issue: Record of Cash Disbursements for the month of December 31, 2017.

Recommendation: Receive and file Cash Disbursements for December 31, 2017 as presented.

Financial Impact: Funds disbursed were included in the FY 2017/18 "Amended" Watermaster Budget.

Future Consideration

Watermaster Board – February 22, 2018: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – February 8, 2018: Unanimously approved

Non-Agricultural Pool – February 8, 2018: Moved unanimously to receive and file, without approval

Agricultural Pool – February 8, 2018: Unanimously approved

Advisory Committee – February 15, 2018: Unanimously approved

Watermaster Board – February 22, 2018:

BACKGROUND

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

DISCUSSION

Total cash disbursements during the month of December 2017 were \$954,868.39.

The most significant expenditures during the month were to Wildermuth Environmental, Inc. in the amounts of \$311,999.79 and \$196,920.27 (check number 20514 dated December 4, 2017 and check number 20552 dated December 14, 2017); Inland Empire Utilities Agency in the amount of \$84,409.64 (check number 20505 dated December 4, 2017); and Brownstein Hyatt Farber Schreck in the amount of \$52,829.89 (check number 20553 dated December 19, 2017).

ATTACHMENTS

1. Financial Report - B1

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
December 2017

Type	Date	Num	Name	Memo	Account	Paid Amount
General Journal	12/02/2017	12/02/2017	Payroll and Taxes for 11/19/17-12/02/17	Payroll and Taxes for 11/19/17-12/02/17	1012 · Bank of America Gen'l Ckg	
				Direct Deposits for 11/19/17-12/02/17	1012 · Bank of America Gen'l Ckg	24,686.88
				Payroll Taxes for 11/19/17-12/02/17	1012 · Bank of America Gen'l Ckg	8,824.14
			ICMA-RC	457(b) Employee Deductions for 11/19/17-12/02/17	1012 · Bank of America Gen'l Ckg	4,410.56
			ICMA-RC	401(a) Employee Deductions for 11/19/17-12/02/17	1012 · Bank of America Gen'l Ckg	1,276.75
TOTAL						39,198.33
Bill Pmt -Check	12/04/2017	20503	ACCENT COMPUTER SOLUTIONS, INC.		1012 · Bank of America Gen'l Ckg	
Bill	12/01/2017			Monthly billing for December 2017	6052.4 · IT Managed Services	3,883.00
TOTAL						3,883.00
Bill Pmt -Check	12/04/2017	20504	DI PRIMIO, ROBERT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	11/09/2017	11/09 Special Board		11/09/17 Special Board Meeting	6311 · Board Member Compensation	125.00
Bill	11/14/2017	11/14 Board Agenda		11/14/17 Board Agenda Preview Meeting	6311 · Board Member Compensation	125.00
Bill	11/16/2017	11/16 Board Mtg		11/16/17 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						375.00
Bill Pmt -Check	12/04/2017	20505	INLAND EMPIRE UTILITIES AGENCY	1800003504	1012 · Bank of America Gen'l Ckg	
Bill	11/20/2017	1800003504		RMPU Yield Enhancement Projects Invoice #6	7690.15 · RMPU Amend. Yield (TO #1)	84,409.64
TOTAL						84,409.64
Bill Pmt -Check	12/04/2017	20506	LOEB & LOEB LLP	1745898	1012 · Bank of America Gen'l Ckg	
Bill	11/28/2017	1745898		Non-Ag Pool Legal Services - October 2017	8567 · Non-Ag Legal Service	5,350.50
TOTAL						5,350.50
Bill Pmt -Check	12/04/2017	20507	McMASTER-CARR SUPPLY CO	51255348	1012 · Bank of America Gen'l Ckg	
Bill	11/28/2017	51255348		GW quality supplies	7103.6 · Grdwtr Qual-Supplies	34.71
TOTAL						34.71
Bill Pmt -Check	12/04/2017	20508	PREMIERE GLOBAL SERVICES	24840048	1012 · Bank of America Gen'l Ckg	
Bill	11/29/2017	24840048		Prado Basin call on 11/06	6909.1 · OBMP Meetings	6.24
				Non-Ag Pool meeting call on 11/09	8512 · Meeting Expense	6.23
				Non-Ag Pool meeting call on 11/09	8512 · Meeting Expense	20.57
				Fee - General	6022 · Telephone	49.00
				Fee - Confidential	6022 · Telephone	49.00
				WM coordination call on 10/30	6909.1 · OBMP Meetings	8.22
				Pools agenda prep call on 10/31	8312 · Meeting Expenses	2.08
				Pool agenda prep call on 10/31	8412 · Meeting Expenses	2.08
				Pools agenda prep call on 10/31	8512 · Meeting Expense	2.07

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
December 2017

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
				Pools agenda prep call on 10/31	8312 · Meeting Expenses	2.08
				Pools agenda prep call on 10/31	8412 · Meeting Expenses	2.08
				Pools agenda prep call on 10/31	8512 · Meeting Expense	2.07
				Storage workshop call on 11/02	6909.1 · OBMP Meetings	6.23
				Personnel committee prep call on 11/02	6909.1 · OBMP Meetings	6.24
				WM coordination call on 11/06	6909.1 · OBMP Meetings	11.32
				Pool meetings check call on 11/08	8312 · Meeting Expenses	5.25
				Pool meetings check call on 11/08	8412 · Meeting Expenses	5.25
				Pool meetings check call on 11/08	8512 · Meeting Expense	5.24
				Non-Ag Pool meeting call on 11/09	8512 · Meeting Expense	9.02
				Board agenda preview call on 11/14	6312 · Meeting Expenses	11.44
				Service fee	6022 · Telephone	3.92
TOTAL						215.63
Bill Pmt -Check	12/04/2017	20509	RAUCH COMMUNICATION CONSULTANTS, LLC Nov-1702		1012 · Bank of America Gen'l Ckg	
Bill	11/28/2017	Nov-1702		AR40 - October 2017	6061.3 · Rauch	6,937.50
TOTAL						6,937.50
P10 Bill Pmt -Check	12/04/2017	20510	READY REFRESH BY NESTLE	0023230253	1012 · Bank of America Gen'l Ckg	
Bill	11/28/2017	0023230253		Office Water Bottle - November 2017	6031.7 · Other Office Supplies	53.86
TOTAL						53.86
Bill Pmt -Check	12/04/2017	20511	SAN BERNARDINO COUNTY FLOOD CONTROL P-11998284		1012 · Bank of America Gen'l Ckg	
Bill	11/20/2017	Permit #P-11998284		Operate/maintain monitoring well-San Sevaine	6909.3 · Other OBMP Expenses	1,391.00
TOTAL						1,391.00
Bill Pmt -Check	12/04/2017	20512	WESTERN MUNICIPAL WATER DISTRICT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	11/16/2017	11/16 Board Mtg		11/16/17 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	12/04/2017	20513	INLAND EMPIRE UTILITIES AGENCY	1800003514	1012 · Bank of America Gen'l Ckg	
Bill	11/22/2017	1800003514		GWR SCADA System Upgrades Proj. invoice #8	7690.61 · GWR SCADA Upgrades (TO #4)	15,843.57
TOTAL						15,843.57
Bill Pmt -Check	12/04/2017	20514	WILDERMUTH ENVIRONMENTAL INC		1012 · Bank of America Gen'l Ckg	
Bill	10/31/2017	2017337		2017337	6906.31 · OBMP-Pool, Adv. Board Mtgs	8,871.72
Bill	10/31/2017	2017338		2017338	6906.32 · OBMP-Other General Meetings	6,746.59
Bill	10/31/2017	2017339		2017339	6906.71 · OBMP-Data Req.-CBWM Staff	23,472.55
Bill	10/31/2017	2017340		2017340	6906.23 · SGMA Reporting Requirements	7,432.50
Bill	10/31/2017	2017341		2017341	6906 · OBMP Engineering Services	3,970.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
December 2017

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	10/31/2017	2017342		2017342	6906.1 · OBMP-Watermaster Model Update	30,262.00
Bill	10/31/2017	2017343		2017343	6906.9 · OBMP-2018 RMPU Master Update	9,545.10
Bill	10/31/2017	2017344		2017344	6906.81 · Prepare Annual Reports	3,457.15
Bill	10/31/2017	2017345		2017345	7103.3 · Grdwtr Qual-Engineering	24,479.23
Bill	10/31/2017	2017346		2017346	7104.3 · Grdwtr Level-Engineering	18,191.45
Bill	10/31/2017	2017347		2017347	7107.2 · Grd Level-Engineering	452.25
Bill	10/31/2017	2017348		2017348	7107.2 · Grd Level-Engineering	2,029.81
Bill	10/31/2017	2017349		2017349	7108.31 · Hydraulic Control - PBHSP	24,896.75
Bill	10/31/2017	2017350		2017350	7109.3 · Recharge & Well - Engineering	1,526.25
Bill	10/31/2017	2017351		2017351	7202.2 · Engineering Svc	6,390.50
Bill	10/31/2017	2017352		2017352	7402 · PE4-Engineering	3,387.14
Bill	10/31/2017	2017353		2017353	7402.10 · PE4 - Northwest MZ1 Area Proj.	14,692.50
Bill	10/31/2017	2017354		2017354	7502 · PE6&7-Engineering	2,909.15
Bill	10/31/2017	2017355		2017355	7510 · PE6&7-IEUA Salinity Mgmt. Plan	54,155.70
Bill	10/31/2017	2017356		2017356	7602 · PE8&9-Engineering	65,131.45
TOTAL						311,999.79
Bill Pmt -Check	12/05/2017	20515	APPLIED COMPUTER TECHNOLOGIES	2921	1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017	2921		Database Consulting - November 2017	6052.2 · Applied Computer Technol	3,000.00
TOTAL						3,000.00
Bill Pmt -Check	12/05/2017	20516	BLOMQUIST, WILLIAM A.	Blomquist Report	1012 · Bank of America Gen'l Ckg	
Bill	12/01/2017			Payment number 2 for Blomquist report	6061.6 · Blomquist Report - Update	7,500.00
TOTAL						7,500.00
Bill Pmt -Check	12/05/2017	20517	BOWCOCK, ROBERT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	11/16/2017	11/16 Board Mtg		11/16/17 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	12/05/2017	20518	CHEF DAVE'S CAFE & CATERING	Board Meeting Lunch	1012 · Bank of America Gen'l Ckg	
Bill	11/16/2017	7038		Lunch for 11/16/17 Watermaster Board meeting	6312 · Meeting Expenses	657.26
Bill	11/30/2017	6988		Lunch for 10/26/17 Watermaster Board meeting	6312 · Meeting Expenses	600.69
TOTAL						1,257.95
Bill Pmt -Check	12/05/2017	20519	CURATALO, JAMES	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	11/06/2017	11/16 Personnel Comm		11/06/17 Personnel Committee Meeting	6311 · Board Member Compensation	125.00
Bill	11/07/2017	11/07 Prep for Board		11/07/17 Prep for 11/09 Special Board Meeting	6311 · Board Member Compensation	125.00
Bill	11/08/2017	11/08 Prep for Board		11/08/17 Prep for 11/09 Special Board Meeting	6311 · Board Member Compensation	125.00
Bill	11/09/2017	11/09 Special Board		11/09/17 Special Board Meeting	6311 · Board Member Compensation	125.00
Bill	11/14/2017	11/14 Board Agenda		11/14/17 Board Agenda Preview meeting	6311 · Board Member Compensation	125.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
December 2017

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
Bill	11/16/2017	11/16 Board Meeting		11/16/17 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						750.00
Bill Pmt -Check	12/05/2017	20520	DE BOOM, NATHAN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	11/09/2017	11/09 Ag Pool Mtg		11/09/17 Ag Pool meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	11/20/2017	11/20 Special Ag Mtg		11/20/17 Special Ag Pool meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						250.00
Bill Pmt -Check	12/05/2017	20521	ED BELL	Welcoming Dinner For IEUA New GM	1012 · Bank of America Gen'l Ckg	
Bill	12/01/2017			Catering-12/07/17 welcome dinner for IEUA GM	6312 · Meeting Expenses	1,378.00
TOTAL						1,378.00
Bill Pmt -Check	12/05/2017	20522	ELIE, STEVEN	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	11/09/2017	11/19 Special Board		11/09/17 Special Board Meeting	6311 · Board Member Compensation	125.00
Bill	11/16/2017	11/16 Board Mtg		11/16/17 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	12/05/2017	20523	EMPOWER LAB	1851	1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017	1851		CVI group workshop Oct. 16, 2017	6013 · Human Resources Services	1,710.00
TOTAL						1,710.00
Bill Pmt -Check	12/05/2017	20524	EUROFINS EATON ANALYTICAL		1012 · Bank of America Gen'l Ckg	
Bill	11/13/2017	L0360259		L0360259	7103.5 · Grdwtr Qual-Lab Svcs	483.00
Bill	11/13/2017	L0356667		L0356667	7103.5 · Grdwtr Qual-Lab Svcs	1,884.00
Bill	11/30/2017	L0359917		L0359917	7103.5 · Grdwtr Qual-Lab Svcs	1,449.00
TOTAL						3,816.00
Bill Pmt -Check	12/05/2017	20525	FEDAK & BROWN LLP	Progress Billing - Audit	1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017			November 2017	6062 · Audit Services	362.00
TOTAL						362.00
Bill Pmt -Check	12/05/2017	20526	FILIPPI, GINO	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	11/09/2017	11/09 Special Board		11/09/17 Special Board Meeting	6311 · Board Member Compensation	125.00
Bill	11/16/2017	11/16 Board Mtg		11/16/17 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	12/05/2017	20527	GEYE, BRIAN	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	11/02/2017	11/02 Storage Wkshp		11/02/17 Storage Workshop	6311 · Board Member Compensation	125.00
Bill	11/09/2017	11/09 Special Board		11/09/17 Special Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						250.00

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>
Bill Pmt -Check	12/05/2017	20528	KUHN, BOB	Board Member Compensation	1012 · Bank of America Gen'I Ckg	
Bill	11/06/2017	11/06 Personnel Comm		11/06/17 Personnel Committee Meeting	6311 · Board Member Compensation	125.00
Bill	11/09/2017	11/09 Special Board		11/09/17 Special Board Meeting	6311 · Board Member Compensation	125.00
Bill	11/14/2017	11/14 Executive Comm		11/14/17 Executive Committee Meeting	6311 · Board Member Compensation	125.00
Bill	11/16/2017	11/16 Board Mtg		11/16/17 Board Meeting	6311 · Board Member Compensation	125.00
Bill	11/21/2017	11/21 Admin Mtg		11/21/17 Administrative Meeting	6311 · Board Member Compensation	125.00
Bill	11/28/2017	11/28 ACWA Mtg		11/28/17 ACWA / JPIA meeting	6311 · Board Member Compensation	125.00
TOTAL						<u>750.00</u>
Bill Pmt -Check	12/05/2017	20529	PIERSON, JEFFREY	Ag Pool Member Compensation	1012 · Bank of America Gen'I Ckg	
Bill	11/02/2017	11/02 Storage Wkshp		11/02/17 Storage Workshop	8470 · Ag Meeting Attend -Special	125.00
Bill	11/09/2017	11/09 Ag Pool mtg		11/09/17 Ag Pool meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	11/09/2017	11/09 Special Board		11/09/17 Special Board Meeting	6311 · Board Member Compensation	125.00
Bill	11/16/2017	11/16 Advisory Comm		11/16/17 Advisory Committee meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	11/16/2017	11/16 Board Mtg		11/16/17 Board Meeting	6311 · Board Member Compensation	125.00
Bill	11/20/2017	11/20 Special Ag Mtg		11/20/17 Special Ag Pool meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						<u>750.00</u>
P13						
Bill Pmt -Check	12/05/2017	20530	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'I Ckg	
Bill	12/04/2017	1394905143		Annual Unfunded Accrued Liability	60180 · Employers PERS Expense	4,348.52
TOTAL						<u>4,348.52</u>
Bill Pmt -Check	12/05/2017	20531	PURCHASE POWER	8000-9090-0016-8851	1012 · Bank of America Gen'I Ckg	
Bill	11/28/2017	8000909000168851		Postage refill - 11/07/17	6042 · Postage - General	500.00
TOTAL						<u>500.00</u>
Bill Pmt -Check	12/05/2017	20532	RR FRANCHISING, INC.	48495	1012 · Bank of America Gen'I Ckg	
Bill	12/01/2017	48495		Janitorial service - December 2017	6024 · Building Repair & Maintenance	740.00
TOTAL						<u>740.00</u>
Bill Pmt -Check	12/05/2017	20533	STATE COMPENSATION INSURANCE FUND	1970970-17	1012 · Bank of America Gen'I Ckg	
Bill	12/01/2017	1970970-17		Monthly premium 11/26/17-12/26/17	60183 · Worker's Comp Insurance	520.50
TOTAL						<u>520.50</u>
Bill Pmt -Check	12/05/2017	20534	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'I Ckg	
Bill	11/30/2017	7076224530355049		November 2017	6175 · Vehicle Fuel	291.68
TOTAL						<u>291.68</u>
Bill Pmt -Check	12/05/2017	20535	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'I Ckg	

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Cash Disbursements For The Month of
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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	11/30/2017	001017890001		Vision Insurance Premium - December 2017	60182.2 · Dental & Vision Ins	88.20
TOTAL						88.20
Bill Pmt -Check	12/05/2017	20536	YUKON DISPOSAL SERVICE	08-K2 213849	1012 · Bank of America Gen'l Ckg	
Bill	12/01/2017	08-k2 213849		Disposal Service - December 2017	6024 · Building Repair & Maintenance	117.14
TOTAL						117.14
Bill Pmt -Check	12/07/2017	20537	PIETERSMA, RONALD	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	11/20/2017	11/20 Special Ag Mtg		11/20/17 Special Ag Pool Meeting	8411 · Compensation	25.00
				11/20/17 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	12/07/2017	20538	PLUMBING WHOLESALE OUTLET	S100218669.001	1012 · Bank of America Gen'l Ckg	
Bill	11/28/2017	S100218669.001		WQ supplies	7103.6 · Grdwtr Qual-Supplies	121.38
TOTAL						121.38
Bill Pmt -Check	12/07/2017	20539	TELLEZ-FOSTER, EDGAR	Mileage Reimbursements	1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017			Mileage/toll/parking-October & November 2017	6173 · Airfare/Mileage	241.15
Bill	12/05/2017	12/05 Ops Staff mtg		Lunch for Ops Staff meeting on 12/05/17	6141.3 · Admin Meetings	50.04
TOTAL						291.19
Bill Pmt -Check	12/07/2017	20540	VANDEN HEUVEL, GEOFFREY	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	11/01/2017	10/12 Ag Pool Mtg		10/12/17 Ag Pool Meeting	6311 · Board Member Compensation	125.00
Bill	11/01/2017	10/13 Special Board		10/13/17 Special Board Meeting	6311 · Board Member Compensation	125.00
Bill	11/01/2017	10/10 Mtg w/PK		10/10/17 Meeting with PK	6311 · Board Member Compensation	125.00
Bill	11/01/2017	10/26 Board Mtg		10/26/17 Board Meeting	6311 · Board Member Compensation	125.00
Bill	11/02/2017	11/02 Storage Wkshp		11/02/17 Storage Workshop	6311 · Board Member Compensation	125.00
Bill	11/09/2017	11/09 Special Board		11/09/17 Special Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						750.00
Bill Pmt -Check	12/08/2017	ACH 120817	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	12/02/2017	12/02/2017	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 11/18/17-12/02/17	2000 · Accounts Payable	6,739.16
TOTAL						6,739.16
Bill Pmt -Check	12/14/2017	20541	ACWA JOINT POWERS INSURANCE AUTHORITY	0522643	1012 · Bank of America Gen'l Ckg	
Bill	12/05/2017	0522643		Prepayment - January 2018	1409 · Prepaid Life, BAD&D & LTD	159.50
				December 2017	60191 · Life & Disab.Ins Benefits	148.91
TOTAL						308.41
Bill Pmt -Check	12/14/2017	20542	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	11/30/2017	XXXX-XXXX-XXXX-9341		SmartDraw-annual maintenance and support	6054 · Computer Software	69.95
				Office Christmas cards	6031.7 · Other Office Supplies	170.23
				Planner for PK	6031.7 · Other Office Supplies	58.89
				Miscellaneous office supplies	6031.7 · Other Office Supplies	190.13
				Lunch for 2018 Look Ahead meeting	6909.1 · OBMP Meetings	89.50
				Miscellaneous office supplies	6031.7 · Other Office Supplies	18.65
				Registratioon-AT-Groundwater Resources seminar	6193.2 · Conference - Registration Fee	139.00
				Audio/visual services- ACWA Conference 2017	6191 · Conferences - General	271.66
				PK meeting w/C. Berch, IEUA	8312 · Meeting Expenses	26.55
				PK meeting w/B. DiPrimio	6312 · Meeting Expenses	41.56
				Registration-PK, RZ, ET, JN, FY, AT-Conference	6193.2 · Conference - Registration Fee	2,340.00
				PK hotel- ACWA 2017 conference	6191 · Conferences - General	490.46
				Registration-PK-16th Biennial Symposium	6193.2 · Conference - Registration Fee	430.00
				Donation in memory of Sue Knowlton's mother	6141.3 · Admin Meetings	75.00
				Annual plan for conferencing software	6054 · Computer Software	374.40
				Cables, cords for TV installation-aux. conf. room	6031.7 · Other Office Supplies	80.53
				Annual Watermaster membership renewal-GRA	6111 · Membership Dues	345.00
TOTAL						5,211.51
P15						
Bill Pmt -Check	12/14/2017	20543	CORELOGIC INFORMATION SOLUTIONS	81852033	1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017	81852033		81852033	7103.7 · Grdwtr Qual-Computer Svc	62.50
				81852033	7101.4 · Prod Monitor-Computer	62.50
TOTAL						125.00
Bill Pmt -Check	12/14/2017	20544	FIRST LEGAL NETWORK LLC	40013867	1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017	40013867		Filings on 11/01/17, 11/17/17	6061.5 · Court Filing Services	603.52
TOTAL						603.52
Bill Pmt -Check	12/14/2017	20545	MINDSHIFT	0259643	1012 · Bank of America Gen'l Ckg	
Bill	12/07/2017	0259643		IT Managed Services	6052.4 · IT Managed Services	3,770.00
				Backup & Recovery	6052.5 · IT Data Backup/Storage	792.00
TOTAL						4,562.00
Bill Pmt -Check	12/14/2017	20546	PAYCHEX	2017113000	1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017	2017113000		November 2017	6012 · Payroll Services	308.77
TOTAL						308.77
Bill Pmt -Check	12/14/2017	20547	PETTY CASH	2699-2708	1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017	2699-2708		Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	195.85
				Supplies for Board Thanksgiving lunch	6312 · Meeting Expenses	28.96

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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>
				Fee for AT notary exam	6193 · Employee Training	41.00
				Supplies for admin meetings	6141.3 · Admin Meetings	33.98
				Extra lunch ordered for 2018 Look Ahead meeting	6909.1 · OBMP Meetings	44.75
				Lunch for PK, BH meeting w/Berch, Setlak	8312 · Meeting Expenses	87.00
				Mileage reimbursement-AT-ACWA conference	6173 · Airfare/Mileage	44.83
TOTAL						<u>476.37</u>
Bill Pmt -Check	12/14/2017	20548	PLUMBING WHOLESALE OUTLET	S100220149.001	1012 · Bank of America Gen'l Ckg	
Bill	12/05/2017	S100220147.001		WQ supplies	7103.6 · Grdwtr Qual-Supplies	107.35
TOTAL						<u>107.35</u>
Bill Pmt -Check	12/14/2017	20549	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
Bill	12/11/2017	100001394905143		Employer Payroll Correction - Alvarez	60180 · Employers PERS Expense	5,115.48
TOTAL						<u>5,115.48</u>
Bill Pmt -Check	12/14/2017	20550	STAPLES BUSINESS ADVANTAGE	8047711499	1012 · Bank of America Gen'l Ckg	
Bill	12/02/2017	8047711499		Miscellaneous office supplies	6031.7 · Other Office Supplies	177.40
				Toner	6031.7 · Other Office Supplies	83.99
TOTAL						<u>261.39</u>
Bill Pmt -Check	12/14/2017	20551	UNITED HEALTHCARE	044769628	1012 · Bank of America Gen'l Ckg	
Bill	12/13/2017	044769628		Dental Insurance Premium - January 2018	60182.2 · Dental & Vision Ins	749.75
TOTAL						<u>749.75</u>
Bill Pmt -Check	12/14/2017	20552	WILDERMUTH ENVIRONMENTAL INC		1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017	2017372		2017372	6906.31 · OBMP-Pool, Adv. Board Mtgs	6,807.72
Bill	11/30/2017	2017373		2017373	6906.32 · OBMP-Other General Meetings	16,645.72
Bill	11/30/2017	2017374		2017374	6906.71 · OBMP-Data Req.-CBWM Staff	7,714.50
Bill	11/30/2017	2017375		2017375	6906.72 · OBMP-Data Req.-Non CBWM Staff	4,918.10
Bill	11/30/2017	2017376		2017376	6906.23 · SGMA Reporting Requirements	1,736.75
Bill	11/30/2017	2017377		2017377	6906 · OBMP Engineering Services	1,758.50
Bill	11/30/2017	2017378		2017378	6906.81 · Prepare Annual Reports	1,272.80
Bill	11/30/2017	2017379		2017379	7103.3 · Grdwtr Qual-Engineering	10,467.10
Bill	11/30/2017	2017380		2017380	7104.3 · Grdwtr Level-Engineering	25,232.56
Bill	11/30/2017	2017381		2017381	7107.2 · Grd Level-Engineering	1,767.38
Bill	11/30/2017	2017382		2017382	7108.31 · Hydraulic Control - PBHSP	7,692.99
Bill	11/30/2017	2017383		2017383	7109.3 · Recharge & Well - Engineering	6,440.25
Bill	11/30/2017	2017384		2017384	7202.2 · Engineering Svc	9,937.55
Bill	11/30/2017	2017385		2017385	7402 · PE4-Engineering	653.25
Bill	11/30/2017	2017386		2017386	7402.10 · PE4 - Northwest MZ1 Area Proj.	19,327.42

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Cash Disbursements For The Month of
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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	11/30/2017	2017387		2017387	7502 · PE6&7-Engineering	4,307.10
Bill	11/30/2017	2017388		2017388	7510 · PE6&7-IEUA Salinity Mgmt. Plan	5,259.50
Bill	11/30/2017	2017389		2017389	7602 · PE8&9-Engineering	64,981.08
TOTAL						196,920.27
Check	12/15/2017	12/15/2017	Service Charge	Service Charge	1012 · Bank of America Gen'l Ckg	
				Service Charge	6039.1 · Banking Service Charges	412.37
TOTAL						412.37
General Journal	12/16/2017	12/16/2017	Payroll and Taxes for 12/03/17-12/16/17	Banking-Payroll and Taxes for 12/03/17-12/16/17	1012 · Bank of America Gen'l Ckg	
				Direct Deposits for 12/03/17-12/16/17	1012 · Bank of America Gen'l Ckg	40,959.24
				Payroll and Taxes for 12/03/17-12/16/17	1012 · Bank of America Gen'l Ckg	13,585.22
			ICMA-RC	457(b) Employee Deductions for 12/03/17-12/16/17	1012 · Bank of America Gen'l Ckg	4,410.40
			ICMA-RC	401(a) Employee Deductions for 12/03/17-12/16/17	1012 · Bank of America Gen'l Ckg	1,910.94
TOTAL						60,865.80
Bill Pmt -Check	12/19/2017	20553	BROWNSTEIN HYATT FARBER SCHRECK		1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017	702689		NRG BK	6078 · BHFS Legal - Miscellaneous	2,257.65
				Angelica BK	6078 · BHFS Legal - Miscellaneous	194.40
				702689	6078 · BHFS Legal - Miscellaneous	10,490.40
				Delivery/Ground Transportation	8375 · BHFS Legal - Appropriative Pool	20.98
				Delivery/Ground Transportation	8475 · BHFS Legal - Agricultural Pool	20.98
				Delivery/Ground Transportation	8575 · BHFS Legal - Non-Ag Pool	20.99
				Mileage/Parking Expense	8475 · BHFS Legal - Agricultural Pool	36.10
				Mileage/Parking Expense	6078 · BHFS Legal - Miscellaneous	36.10
Bill	11/30/2017	702690		702690	6073 · BHFS Legal - Personnel Matters	1,282.50
Bill	11/30/2017	702691		702691	6907.34 · Santa Ana River Water Rights	1,354.50
Bill	11/30/2017	702692		702692	6907.36 · Santa Ana River Habitat	1,500.75
Bill	11/30/2017	702693		702693	6275 · BHFS Legal - Advisory Committee	841.50
				Mileage/Parking Expense	6275 · BHFS Legal - Advisory Committee	36.10
Bill	11/30/2017	702694		702694	6375 · BHFS Legal - Board Meeting	10,794.60
Bill	11/30/2017	702695		702695	8375 · BHFS Legal - Appropriative Pool	1,109.25
Bill	11/30/2017	702696		702696	8475 · BHFS Legal - Agricultural Pool	1,721.25
Bill	11/30/2017	702697		702697	8575 · BHFS Legal - Non-Ag Pool	1,109.25
Bill	11/30/2017	702698		702698	6071 · BHFS Legal - Court Coordination	9,212.85
Bill	11/30/2017	702699		702699	6077 · BHFS Legal - Party Status Maint	965.70
Bill	11/30/2017	702700		702700	6907.38 · Reg. Water Quality Cntrl Board	745.65
				Research - Lexis	6907.38 · Reg. Water Quality Cntrl Board	1.49
Bill	11/30/2017	702701		702701	6907.40 · Storage Agreements	6,076.35
				Mileage/Parking Expense	6907.40 · Storage Agreements	36.10

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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	11/30/2017	702702		702702	6907.42 · Safe Yield Recalculation	1,019.70
				Delivery/Ground Transportation	6907.42 · Safe Yield Recalculation	300.00
Bill	11/30/2017	702703		702703	6907.44 · SGMA Compliance	1,644.75
TOTAL						<u>52,829.89</u>
Bill Pmt -Check	12/19/2017	20554	CUCAMONGA VALLEY WATER DISTRICT	Rent Payment	1012 · Bank of America Gen'l Ckg	
Bill	12/18/2017			Office lease due January 1, 2018	1422 · Prepaid Rent	6,608.80
TOTAL						<u>6,608.80</u>
Bill Pmt -Check	12/19/2017	20555	DE HAAN, HENRY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	11/09/2017	11/09 Ag Pool Mtg		11/09/17 Ag Pool Meeting	8411 · Compensation	25.00
				11/09/17 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	11/13/2017	11/13 Ag Pool Mtg		11/13/17 Ag Pool Meeting	8411 · Compensation	25.00
				11/13/17 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	11/20/2017	11/20 Special Ag Mtg		11/20/17 Ag Pool Meeting	8411 · Compensation	25.00
				11/20/17 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						<u>375.00</u>
Bill Pmt -Check	12/19/2017	20556	EGOSCUE LAW GROUP	11783	1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017	11783		Ag Pool Legal Services - November 2017	8467 · Ag Legal & Technical Services	16,120.00
TOTAL						<u>16,120.00</u>
Bill Pmt -Check	12/19/2017	20557	EUROFINS EATON ANALYTICAL		1012 · Bank of America Gen'l Ckg	
Bill	11/09/2017	L0360589		L0360589	7103.5 · Grdwtr Qual-Lab Svcs	483.00
Bill	11/16/2017	L0361434		L0361434	7103.5 · Grdwtr Qual-Lab Svcs	2,104.00
TOTAL						<u>2,587.00</u>
Bill Pmt -Check	12/19/2017	20558	FIRE HOSE DIRECT	70329	1012 · Bank of America Gen'l Ckg	
Bill	12/07/2017	70329		WQ supplies	7103.6 · Grdwtr Qual-Supplies	141.35
TOTAL						<u>141.35</u>
Bill Pmt -Check	12/19/2017	20559	FRONTIER COMMUNICATIONS	909-484-3890-050914-5	1012 · Bank of America Gen'l Ckg	
Bill	12/18/2017	90948438900509145		Office fax	6022 · Telephone	143.07
TOTAL						<u>143.07</u>
Bill Pmt -Check	12/19/2017	20560	GREAT AMERICA LEASING CORP.	21817383	1012 · Bank of America Gen'l Ckg	
Bill	12/19/2017	21817383		Invoice for December 2017	6043.1 · Ricoh Lease Fee	2,553.68
TOTAL						<u>2,553.68</u>
Bill Pmt -Check	12/19/2017	20561	HEMBORG FORD	Vehicle Purchase	1012 · Bank of America Gen'l Ckg	

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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	12/18/2017			2018 F-150 Crew Cab	1840 · Capital Assets	35,113.70
TOTAL						<u>35,113.70</u>
Bill Pmt -Check	12/19/2017	20562	HUITSING, JOHN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	11/09/2017	11/09 Ag Pool Mtg		11/09/17 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	11/20/2017	11/20 Special Ag Mtg		11/20/17 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						<u>250.00</u>
Bill Pmt -Check	12/19/2017	20563	LOEB & LOEB LLP	1749113	1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017	1749113		Non-Ag Pool Legal Services - November 2017	8567 · Non-Ag Legal Service	2,349.00
TOTAL						<u>2,349.00</u>
Bill Pmt -Check	12/19/2017	20564	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017			Retiree Medical	60182.4 · Retiree Medical	22.24
TOTAL						<u>22.24</u>
Bill Pmt -Check	12/19/2017	20565	VERIZON WIRELESS	9797488570	1012 · Bank of America Gen'l Ckg	
Bill	12/14/2017	9797477570		Acct #470810953-00001	6022 · Telephone	368.28
TOTAL						<u>368.28</u>
Bill Pmt -Check	12/22/2017	ACH 122217	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	12/16/2017	12/16/2017	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 12/03/17-12/16/17	2000 · Accounts Payable	9,190.62
TOTAL						<u>9,190.62</u>
General Journal	12/30/2017	12/30/2017	Payroll and Taxes for 12/17/17-12/30/17	Payroll and Taxes for 12/17/17-12/30/17	1012 · Bank of America Gen'l Ckg	
				Direct Deposits for 12/17/17-12/30/17	1012 · Bank of America Gen'l Ckg	24,600.46
				Payroll Taxes for 12/17/17-12/30/17	1012 · Bank of America Gen'l Ckg	11,249.46
			ICMA-RC	457(b) Employee Deductions for 12/17/17-12/30/17	1012 · Bank of America Gen'l Ckg	4,738.05
			ICMA-RC	401(a) Employee Deductions for 12/17/17-12/30/17	1012 · Bank of America Gen'l Ckg	1,276.75
TOTAL						<u>41,864.72</u>
General Journal	12/31/2017	12/31/2017	Wage Works FSA Direct Debits - December 2017	Wage Works FSA Direct Debits - December 2017	1012 · Bank of America Gen'l Ckg	
				Wage Works FSA Direct Debits - December 2017	1012 · Bank of America Gen'l Ckg	696.15
				Wage Works FSA Direct Debits - December 2017	1012 · Bank of America Gen'l Ckg	696.15
				Wage Works FSA Direct Debits - December 2017	1012 · Bank of America Gen'l Ckg	81.50
TOTAL						<u>1,473.80</u>
					Total Disbursements:	<u><u>954,868.39</u></u>

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CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: February 22, 2018
TO: Board Members
SUBJECT: VISA Check Detail Report - Financial Report B2 (December 31, 2017)

SUMMARY

Issue: Record of VISA credit card payment disbursed for the month of December 31, 2017.

Recommendation: Receive and file VISA Check Detail Report for December 31, 2017 as presented.

Financial Impact: Funds disbursed were included in the FY 2017/18 "Amended" Watermaster Budget.

Future Consideration

Watermaster Board – February 22, 2018: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – February 8, 2018: Unanimously approved
Non-Agricultural Pool – February 8, 2018: Moved unanimously to receive and file, without approval
Agricultural Pool – February 8, 2018: Unanimously approved
Advisory Committee – February 15, 2018: Unanimously approved
Watermaster Board – February 22, 2018:

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 disbursements during the month of December 2017 were \$5,211.51. The payment was processed in the amount of \$5,211.51 (by check number 20542 dated December 14, 2017). The monthly charges for December 2017 of \$5,211.51 were for routine and customary expenditures and properly documented with receipts.

ATTACHMENTS

1. Financial Report - B2

CHINO BASIN WATERMASTER
VISA Check Detail Report
December 2017

Type	Num	Date	Name	Memo	Account	Paid Amount
Bill Pmt -Check	12/14/2017	20542	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	11/30/2017	XXXX-XXXX-XXXX-9341		SmartDraw-annual maintenance and support	6054 · Computer Software	69.95
				Office Christmas cards	6031.7 · Other Office Supplies	170.23
				Planner for PK	6031.7 · Other Office Supplies	58.89
				Miscellaneous office supplies	6031.7 · Other Office Supplies	190.13
				Lunch for 2018 Look Ahead meeting	6909.1 · OBMP Meetings	89.50
				Miscellaneous office supplies	6031.7 · Other Office Supplies	18.65
				Registration-AT-Groundwater Resources seminar	6193.2 · Conference - Registration Fee	139.00
				Audio/visual services- ACWA Conference 2017	6191 · Conferences - General	271.66
				PK meeting w/C. Berch, IEUA	8312 · Meeting Expenses	26.55
				PK meeting w/B. DiPrimio	6312 · Meeting Expenses	41.56
				Registration-PK, RZ, ET, JN, FY, AT-Conference	6193.2 · Conference - Registration Fee	2,340.00
				PK hotel- ACWA 2017 conference	6191 · Conferences - General	490.46
				Registration-PK-16th Biennial Symposium	6193.2 · Conference - Registration Fee	430.00
				Donation in memory of Sue Knowlton's mother	6141.3 · Admin Meetings	75.00
				Annual plan for conferencing software	6054 · Computer Software	374.40
				Cables, cords for TV installation-aux. conf. room	6031.7 · Other Office Supplies	80.53
				Annual Watermaster membership renewal-GRA	6111 · Membership Dues	345.00
				Total Disbursements:		5,211.51

TOTAL
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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: February 22, 2018
TO: Board Members
SUBJECT: Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2017 through December 31, 2017 - Financial Report B3 (December 31, 2017)

SUMMARY

Issue: Record of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2017 through December 31, 2017.

Recommendation: Receive and file Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2017 through December 31, 2017 as presented.

Financial Impact: Funds disbursed were included in the FY 2017/18 "Amended" Watermaster Budget.

Future Consideration

Watermaster Board – February 22, 2018: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – February 8, 2018: Unanimously approved

Non-Agricultural Pool – February 8, 2018: Moved unanimously to receive and file, without approval

Agricultural Pool – February 8, 2018: Unanimously approved

Advisory Committee – February 15, 2018: Unanimously approved

Watermaster Board – February 22, 2018:

BACKGROUND

A Combining Schedule of Revenue, Expenses and Changes in Net Assets for the period July 1, 2017 through December 31, 2017 is provided to keep all members apprised of the FY 2017/18 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 18.0, 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, 2017 THROUGH DECEMBER 31, 2017

Financial Report - B3

	WATERMASTER ADMINISTRATION	OPTIMUM BASIN MANAGEMENT	POOL ADMINISTRATION & SPECIAL PROJECTS			GROUNDWATER REPLENISHMENT	LAIF VALUE ADJ.	GASB 68 BEG. NET POSITION	GRAND TOTALS	AMENDED BUDGET 2017-2018
			APPROPRIATIVE POOL	AG POOL	NON-AG POOL					
Administrative Revenues:										
Administrative Assessments			8,407,584		360,243				8,767,827	11,607,166
Interest Revenue			48,365	2,786	287				51,438	39,906
Mutual Agency Project Revenue	193,622								193,622	191,626
Miscellaneous Income	42								42	0
Total Revenues	193,663	-	8,455,949	2,786	360,529	-	-	-	9,012,928	11,838,698
Administrative & Project Expenditures:										
Watermaster Administration	921,770								921,770	1,339,393
Watermaster Board-Advisory Committee	78,643								78,643	219,454
Ag Pool Misc. Expense - Ag Fund				57					57	400
Pool Administration			59,946	178,570	39,179				277,695	619,252
Optimum Basin Mgmt Administration		559,292							559,292	1,374,142
OBMP Project Costs		1,702,895							1,702,895	5,198,168
Debt Service		515,375							515,375	515,375
Basin Recharge Improvements		259,552							259,552	6,692,293
Total Administrative/OBMP Expenses	1,000,413	3,037,114	59,946	178,570	39,179	-	-	-	4,315,279	15,958,477
Net Administrative/OBMP Expenses	(806,750)	(3,037,114)								
Allocate Net Admin Expenses To Pools	806,750		585,675	191,235	29,840				-	
Allocate Net OBMP Expenses To Pools		2,262,187	1,642,277	536,237	83,673				-	
Allocate Debt Service to App Pool		515,375	515,375						-	
Allocate Basin Recharge to App Pool		259,552	259,552						-	
Agricultural Expense Transfer*			906,041	(906,041)					-	
Total Expenses			3,968,866	57	152,692	-	-	-	4,315,279	15,958,477
Net Administrative Income			4,487,083	2,729	207,837	-	-	-	4,697,649	(4,119,779)
Other Income/(Expense)										
Replenishment Water Assessments						858,518			858,518	0
Desalter Replenishment Obligation						-			-	0
Non-Ag Stored Water Purchases									-	0
Exhibit "G" Non-Ag Pool Water									-	0
Interest Revenue						792			792	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			(78,397)						(78,397)	0
Funding To/(From) Reserves									-	0
Net Other Income/(Expense)			(78,397)	-	-	859,310	-	-	780,913	0
Net Transfers To/(From) Reserves		5,478,562	4,408,686	2,729	207,837	859,310	-	-	5,478,562	(4,119,779)
Net Assets, July 1, 2017			9,038,790	486,234	45,146	(102,141)	(11,905)	(740,195)	8,715,929	
Net Assets, End of Period			13,447,476	488,963	252,983	757,169	(11,905)	(740,195)	14,194,492	14,194,492
16/17 Assessable Production			82,269,159	26,862,554	4,191,579				113,323,292	
16/17 Production Percentages			72.597%	23.704%	3.699%				100.000%	

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*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: February 22, 2018

TO: Board Members

SUBJECT: Treasurer's Report of Financial Affairs for the Period December 1, 2017 through December 31, 2017 - Financial Report B4 (December 31, 2017)

SUMMARY

Issue: Record of increases or decreases in the cash position, assets and liabilities of Watermaster for the Period of December 1, 2017 through December 31, 2017.

Recommendation: Receive and file Treasurer's Report of Financial Affairs for the Period December 1, 2017 through December 31, 2017 as presented.

Financial Impact: Funds disbursed were included in the FY 2017/18 "Amended" Watermaster Budget.

Future Consideration

Watermaster Board – February 22, 2018: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – February 8, 2018: Unanimously approved

Non-Agricultural Pool – February 8, 2018: Moved unanimously to receive and file, without approval

Agricultural Pool – February 8, 2018: Unanimously approved

Advisory Committee – February 15, 2018: Unanimously approved

Watermaster Board – February 22, 2018:

BACKGROUND

A Treasurer's Report of Financial Affairs for the Period December 1, 2017 through December 31, 2017 is provided to keep all members apprised of the total cash in banks (Bank of America, LAIF, and CalTRUST); cash on deposit in trust with the County of San Bernardino as a result of the Cooperation and Reimbursement Agreement between Chino Basin Watermaster and County of San Bernardino dated May 25, 2017; and cash 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 18.0, 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
DECEMBER 1, 2017 THROUGH DECEMBER 31, 2017**

Financial Report - B4

DEPOSITORIES:

Cash on Hand - Petty Cash			\$	500
Bank of America				
Governmental Checking-Demand Deposits	\$	625,489		
Zero Balance Account - Payroll		-		625,489
Trust Account - County of San Bernardino				15,000
Local Agency Investment Fund - Sacramento				<u>15,155,943</u>
TOTAL CASH IN BANKS AND ON HAND				\$ 15,796,932
TOTAL CASH IN BANKS AND ON HAND	12/31/2017			8,250,591
	11/30/2017			<u>8,250,591</u>
PERIOD INCREASE (DECREASE)				<u>\$ 7,546,341</u>

CHANGE IN CASH POSITION DUE TO:

Decrease/(Increase) in Assets:			\$	
Accounts Receivable				(109,221)
Assessments Receivable				8,369,671
Prepaid Expenses, Deposits & Other Current Assets				(33,761)
(Decrease)/Increase in Liabilities:				
Accounts Payable				(403,596)
Accrued Payroll, Payroll Taxes & Other Current Liabilities				(41,473)
Long Term Liabilities				4,395
Transfer to/(from) Reserves				<u>(239,674)</u>
PERIOD INCREASE (DECREASE)				<u>\$ 7,546,341</u>

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SUMMARY OF FINANCIAL TRANSACTIONS:

	Petty Cash	Gov't Checking Demand	Zero Balance Account Payroll	Trust Account County of San Bernardino	Local Agency Investment Funds	Totals
Balances as of 11/30/2017	\$ 500	\$ 1,129,148	\$ -	\$ 15,000	\$ 7,105,943	\$ 8,250,591
Deposits	-	8,501,210	-	-	8,050,000	16,551,210
Transfers	-	(8,167,880)	(88,055)	-	-	(8,255,936)
Withdrawals/Checks	-	(836,988)	88,055	-	-	<u>(748,933)</u>
Balances as of 12/31/2017	<u>\$ 500</u>	<u>\$ 625,489</u>	<u>\$ -</u>	<u>\$ 15,000</u>	<u>\$ 15,155,943</u>	<u>\$ 15,796,932</u>
PERIOD INCREASE OR (DECREASE)	<u>\$ -</u>	<u>\$ (503,659)</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 8,050,000</u>	<u>\$ 7,546,341</u>

**CHINO BASIN WATERMASTER
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD
DECEMBER 1, 2017 THROUGH DECEMBER 31, 2017**

INVESTMENT TRANSACTIONS

Effective Date	Transaction	Depository	Activity	Redeemed	Days to Maturity	Interest Rate(*)	Maturity Yield
12/4/2017	Deposit		\$ 2,800,000				
12/15/2017	Deposit		2,000,000				
12/19/2017	Deposit		3,250,000				
TOTAL INVESTMENT TRANSACTIONS			\$ 8,050,000	\$0			

* The earnings rate for L.A.I.F. is a daily variable rate; 1.20% was the effective yield rate at the Quarter ended December 31, 2017.

**INVESTMENT STATUS
December 31, 2017**

<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	\$ 15,155,943			
TOTAL INVESTMENTS	\$ 15,155,943			

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

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

Respectfully submitted,



Joseph S. Joswiak
Chief Financial Officer
Chino Basin Watermaster



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: February 22, 2018
TO: Board Members
SUBJECT: Budget vs. Actual Report for the Period July 1, 2017 through December 31, 2017 -
Financial Report B5 (December 31, 2017)

SUMMARY

Issue: Record of revenues and expenses of Watermaster for the Period of July 1, 2017 through December 31, 2017.

Recommendation: Receive and file Budget vs. Actual Report for the Period July 1, 2017 through December 31, 2017 as presented.

Financial Impact: Funds disbursed were included in the FY 2017/18 "Amended" Watermaster Budget.

Future Consideration

Watermaster Board – February 22, 2018: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – February 8, 2018: Unanimously approved

Non-Agricultural Pool – February 8, 2018: Moved unanimously to receive and file, without approval

Agricultural Pool – February 8, 2018: Unanimously approved

Advisory Committee – February 15, 2018: Unanimously approved

Watermaster Board – February 22, 2018:

BACKGROUND

A Budget vs. Actual Report for the period July 1, 2017 through December 31, 2017 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 18.0, 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 – DECEMBER 2017

Year-To-Date (YTD) for the six months ending December 31, 2017, all but five categories were at or below the projected budget. The categories over budget were (1) Administration Salary/Benefits expenses (6010's) which were over budget by \$64,062 or 12.5% as a result of increased staff time and activities in the administrative functions. Please note that the overage is only in the administrative section, not with the entire consolidated staffing budget; (2) Watermaster Legal Services expenses (6070's) over budget by \$66,314 or 67.6% as a result of miscellaneous legal matters as detailed in the BHFS section; (3) Agricultural Pool Legal Services (8467's) over budget by \$42,220 or 41.2% as a result of increased legal services performed during the months of July 2017 through December 2017; (4) Groundwater Level Monitoring expenses (7104's) over budget by \$10,479 or 7.6% as a result of increased activities in the engineering services area; and (5) PE 8&9-Storage Management/Conjunctive Use expenses (7600's) over budget by \$104,686 or 50.8% as a result of a two-year Engineering project which was originally budgeted and approved for \$182,207 for FY 2017/18 during the budgeting process. Due to specific deadlines, Watermaster has requested the timeline be pushed forward and it's now understood that the total two-year expenses of \$344,081 (or more depending upon the scope of work) could be spent within the FY 2017/18 period.

For the majority of the expense categories within the Watermaster budget for FY 2017/18, the individual line-item budgets are divided into 12-monthly amounts and allocated accordingly. As the fiscal year progresses, these categories listed above might level out over time and be within the budget levels.

Overall, the Watermaster (YTD) Actual Expenses were \$7,602,581 or 63.8% below the (YTD) Budgeted Expenses of \$11,917,860.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

August 2017:

There were no Pool, Advisory or Board meetings scheduled for the month of August 2017.

July 2017:

During the month of July 2017, the "Carry Over" funding was calculated. The Total "Carry Over" funding amount of \$4,119,779.24 has been posted to the general ledger accounts. The total amount of \$4,119,779.24 consisted of \$3,926,672.24 from Capital Improvement Projects and \$193,107 from Engineering Services. More detailed information is provided regarding this issue under the "Carry Over" Funding section.

The Amended Budget for FY 2017/18 is \$15,958,477.24 which includes \$4,119,779.24 for the prior years "Carry Over" funding. The Original Approved budget for FY 2017/18 of \$11,838,698 was approved by the Watermaster Board on May 25, 2017 ($\$11,838,698 + \$4,119,779.24 = \$15,958,477.24$).

SALARIES EXPENSE

CURRENT MONTH – DECEMBER 2017

As of December 31, 2017, the total (YTD) Watermaster salary expenses were \$64,273 or 7.2% below the (YTD) budgeted amount of \$898,457. The overall staffing budget was developed with a staffing level of ten Full-Time Equivalents (FTE's), and staffing is currently at nine Full-Time Equivalents (FTE's). The position of Water Resources Associate remains vacant and could be recruited in the future as the work demands increase.

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 2017/18 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 December 31, 2017. 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 '17 - Dec '17 Actual	Jul '17 - Dec '17 Budget	\$ Over Budget	% of Budget	FY 2017/18 Annual Budget
WM Salary Expense					
6011 · WM Staff Salaries	527,627.94	483,177.00	44,450.94	109.2%	966,354.00
6011.1 · WM Staff Salaries - Overtime	5,991.09	0.00	5,991.09	100.0%	0.00
6011.4 · 457(f) NQDC Plan	18,347.78	11,855.00	6,492.78	154.77%	23,710.00
6015 · Miscellaneous Payments	0.00	0.00	0.00	0.0%	0.00
6017 · Temporary Services	0.00	10,500.00	-10,500.00	0.0%	21,000.00
6201 · Advisory Committee - WM Staff Salaries	8,346.38	12,353.00	-4,006.62	67.57%	24,708.00
6301 · Watermaster Board - WM Staff Salaries	14,802.46	18,932.00	-4,129.54	78.19%	37,863.00
8301 · Appropriative Pool - WM Staff Salaries	18,808.74	16,921.00	1,887.74	111.16%	33,842.00
8401 · Agricultural Pool - WM Staff Salaries	9,120.59	14,927.00	-5,806.41	61.1%	29,853.00
8501 · Non-Agricultural Pool - WM Staff Salaries	7,358.46	9,778.00	-2,419.54	75.26%	19,557.00
6901 · OBMP - WM Staff Salaries	25,968.55	45,916.00	-19,947.45	56.56%	91,832.00
7101.1 · Production Monitor - WM Staff Salaries	23,885.66	26,996.00	-3,110.34	88.48%	53,992.00
7102.1 · In-line Meter - WM Staff Salaries	0.00	5,098.00	-5,098.00	0.0%	10,197.00
7103.1 · Grdwater Quality - WM Staff Salaries	15,610.92	27,787.00	-12,176.08	56.18%	55,574.00
7104.1 · Grdwater Level - WM Staff Salaries	23,824.60	20,011.00	3,813.60	119.06%	40,022.00
7106.1 · Wtr Level Sensor - WM Staff Salaries	0.00	0.00	0.00	0.0%	0.00
7107.1 · GrdLevel Monitoring - WM Staff Salaries	253.33	0.00	253.33	100.0%	0.00
7108.1 · Hydraulic Control - WM Staff Salaries	0.00	1,678.00	-1,678.00	0.0%	3,356.00
7108.11 · Prado Basin - WM Staff Salaries	757.40	3,110.00	-2,352.60	24.35%	6,219.00
7201 · Comp Recharge - WM Staff Salaries	24,547.04	47,488.00	-22,940.96	51.69%	94,978.00
7301 · PE3&5 - WM Staff Salaries	0.00	8,008.00	-8,008.00	0.0%	16,017.00
7401 · PE4 - WM Staff Salaries	0.00	4,874.00	-4,874.00	0.0%	9,747.00
7501 · PE6&7 - WM Staff Salaries	2,683.59	2,380.00	303.59	112.76%	4,759.00
7501.1 · PE 6&7 - WM Staff Salaries (Plume)	0.00	2,669.00	-2,669.00	0.0%	5,338.00
7601 · PE8&9 - WM Staff Salaries	5,664.82	23,827.00	-18,162.18	23.78%	47,656.00
Subtotal WM Staff Costs	733,599.35	798,285.00	-64,685.65	91.9%	1,596,574.00
60185 · Vacation	49,683.43	36,249.00	13,434.43	137.06%	72,497.00
60186 · Sick Leave	7,574.85	25,569.00	-17,994.15	29.63%	51,138.00
60187 · Holidays	43,326.70	38,354.00	4,972.70	112.97%	51,138.00
Subtotal WM Paid Leaves	100,584.98	100,172.00	412.98	100.41%	174,773.00
Total WM Salary Costs	834,184.33	898,457.00	-64,272.67	92.85%	1,771,347.00

PREVIOUSLY REPORTED ACTIONS (Descending Order)
None

LEGAL SERVICES
BROWNSTEIN HYATT FARBER SCHRECK EXPENSES

CURRENT MONTH – DECEMBER 2017

As of December 31, 2017, 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 \$82,556 or 17.2% below the (YTD) budgeted amount of \$478,713.

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 2017/18. The total legal services budget was developed by multiplying the number of hours that would be required to complete the specific tasks by the hourly rate. The "Approved" budget was adopted for the original amount of \$964,783.

WATERMASTER ADMINISTRATIVE LEGAL SERVICES:

Overall, the Watermaster Administrative Legal Services expense (6070's) as of December 31, 2017, was \$66,314 or 67.6% above the budgeted amount of \$98,125. 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 \$5,782 or 28.0%; Rules and Regulations (6072) under budget by \$13,727 or 90.5%; Personnel Matter (6073) under budget by \$9,949 or 66.3%; Interagency Issues (6074) under budget by \$15,300 or 100.0%; and Party Status Maintenance (6077) under budget by \$5,904 or 41.1%. The specific items within the Administrative Legal Services expenses (6070's) which were over budget were the Miscellaneous Category expenses (6078) over budget by \$116,977 or 661.8%. Please see Note 1 on the following page for a more detailed explanation of the miscellaneous types of expenses.

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, 6375.1, 8375, 8475 and 8575). The legal service costs associated with the Board Workshop(s) are also included as part of this group. Overall, this category of legal expenses as of December 31, 2017 was \$21,059 or 25.7% below the budgeted amount of \$81,850. 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 legal services budget was developed with the assumption of having eleven months of meetings, intentionally excluding the month of December 2017. The Watermaster parties agreed that during the months of August 2017 and December 2017, 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 below the budget for the month. As of December 31, 2017 the category of OBMP legal expenses were \$127,811 or 42.8% below the budgeted amount of \$298,738. The majority of expenses within this OBMP category were under budget (YTD), however, the Santa Ana River Water Rights legal expenses (6907.34) were over budget by \$4,162 or 31.8%; and Safe Yield Redetermination and Reset legal expenses (6907.42) were over budget by \$59,554 or 172.1%.

The table listed below summarizes the Brownstein Hyatt Farber Schreck (BHFS) expenses as of December 31, 2017 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 '17 - Dec '17 Actual	Jul '17 - Dec '17 Budget	\$ Over Budget	% of Budget	FY 2017/18 Annual Budget
6070 · Watermaster Legal Services					
6071 · BHFS Legal - Court Coordination	14,842.85	20,625.00	-5,782.15	71.97%	41,250.00
6072 · BHFS Legal - Rules & Regulations	1,447.65	15,175.00	-13,727.35	9.54%	15,175.00
6073 · BHFS Legal - Personnel Matters	5,050.80	15,000.00	-9,949.20	33.67%	25,000.00
6074 · BHFS Legal - Interagency Issues	0.00	15,300.00	-15,300.00	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	8,446.05	14,350.00	-5,903.95	58.86%	28,700.00
6078 · BHFS Legal - Miscellaneous (Note 1)	134,651.87	17,675.00	116,976.87	761.82%	35,350.00
Total 6070 · Watermaster Legal Services	164,439.22	98,125.00	66,314.22	167.58%	176,075.00
6275 · BHFS Legal - Advisory Committee	4,354.05	8,500.00	-4,145.95	51.22%	18,700.00
6375 · BHFS Legal - Board Meeting	34,279.75	35,100.00	-820.25	97.66%	77,220.00
6375.1 · BHFS Legal - Board Workshop(s)	0.00	0.00	0.00	0.0%	11,163.00
8375 · BHFS Legal - Appropriative Pool	7,169.56	12,750.00	-5,580.44	56.23%	28,050.00
8475 · BHFS Legal - Agricultural Pool	7,817.63	12,750.00	-4,932.37	61.32%	28,050.00
8575 · BHFS Legal - Non-Ag Pool	7,169.54	12,750.00	-5,580.46	56.23%	28,050.00
Total BHFS Legal Services	60,790.53	81,850.00	-21,059.47	74.27%	191,233.00
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	12,250.00	-12,250.00	0.0%	24,500.00
6907.32 · Chino Airport Plume	0.00	12,250.00	-12,250.00	0.0%	24,500.00
6907.33 · Desalter/Hydraulic Control	0.00	10,762.00	-10,762.00	0.0%	21,525.00
6907.34 · Santa Ana River Water Rights	17,263.26	13,101.00	4,162.26	131.77%	26,200.00
6907.36 · Santa Ana River Habitat	9,630.45	34,650.00	-25,019.55	27.79%	69,300.00
6907.38 · Reg. Water Quality Cntrl Board	4,605.44	7,175.00	-2,569.56	64.19%	14,350.00
6907.39 · Recharge Master Plan	1,889.10	43,200.00	-41,310.90	4.37%	86,400.00
6907.40 · Storage Agreements	31,867.83	86,800.00	-54,932.17	36.71%	173,600.00
6907.41 · Prado Basin Habitat Sustainability	2,436.75	7,600.00	-5,163.25	32.06%	15,200.00
6907.42 · Safe Yield Recalculation	94,154.47	34,600.00	59,554.47	272.12%	69,200.00
6907.44 · SGMA Compliance	9,080.10	21,600.00	-12,519.90	42.04%	43,200.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	14,750.00	-14,750.00	0.0%	29,500.00
Total 6907 · WM Legal Counsel	170,927.40	298,738.00	-127,810.60	57.22%	597,475.00
Total Brownstein, Hyatt, Farber, Schreck Costs	396,157.15	478,713.00	-82,555.85	82.76%	964,783.00

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, replenishment obligations, 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 and contracts; (7) Review transfer documents; (8) Ground-Level Monitoring Committee reports/meetings; (9) Review process and criteria for SGMA reporting; (10) MVWD SCADA Agreement and installation; (11) Angelica Corporation Bankruptcy matter; (12) NRG/GENON Bankruptcy matter; (13) Pomona extensometer project, CEQA review and compliance; (14) Desalter Replenishment obligations, assessment methodologies, and ongoing issues; (15) Master Cost Sharing Agreement with IEUA; (16) Estimation and adoption of an evaporative loss policy for Recharge; (17) CalMat intervention; (18) Angelica's water rights transfer; (19) Blomquist outline review; and (20) Miscellaneous legal research on current and pending issues.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

None

OBMP ENGINEERING SERVICES AND LEGAL COSTS

CURRENT MONTH – DECEMBER 2017

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 six months ending December 31, 2017, the actual expenses of \$544,421 were below the budgeted amount of \$656,692 by \$112,271 or 17.1%. For a detailed discussion, the following is provided.

For December 31, 2017, the accounts 6901-6903 (Optimum Basin Mgmt. Program) section was below the Year-To-Date (YTD) budget by \$32,201 or 55.4%. 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 less time on specific OBMP related areas as budgeted. As a result, Watermaster staff allocated less actual time to the OBMP project as budgeted, which resulted in an under budget variance of \$19,947 or 43.4%. The remaining expense was the Santa Ana Watershed Project Authority (SAWPA) FY 2017/18 Basin Monitoring Program Task Force Contribution which was budgeted at \$12,254 but actual expenses have not yet been received or booked and resulted in an under budget variance of \$12,254 or 100.0% as of December 31, 2017.

For December 31, 2017, the accounts 6906 (Optimum Basin Mgmt. Program Engineering Services) section was above the Year-To-Date (YTD) budget by \$50,708 or 17.2%. For FY 2017/18, the OBMP-Safe Yield Redetermination and Reset expenses (6906.73) did not have a budget amount authorized and for the month of December there were no expenses charged to the OBMP-Safe Yield Redetermination and Reset account. The majority of expenses within this OBMP category were under budget (YTD), however, the accounts which were over budget were as follows; the OBMP-Watermaster Model Update expenses (6906.1) which were over budget by \$13,285 or 44.9%; the SGMA Reporting Requirements expenses (6906.25) which were over budget by \$5,703 or 46.8%; the OBMP-Other General Meetings Engineering Services expenses (6906.32) which were over budget by \$30,859 or 169.6%; the OBMP-Data Requests-CBWM Staff Engineering Services expenses (6906.71) which were over budget by \$30,928 or 56.5%; and the OBMP-2018 RMPU Master Update expenses (6906.90) which were over budget by \$19,321 or 59.4%.

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 \$63,716 while some other line item activities were below the budget by \$191,527. Above the budget line items were the Santa Ana River Water Rights expenses of \$4,162; and the Safe Yield Redetermination and Reset expenses of \$59,554. The individual legal projects/activities that were below budget for the Year-To-Date (YTD) period were the Archibald South Plume of \$12,250; the Chino Airport Plume of \$12,250; the Desalter/Hydraulic Control of \$10,762; the Santa Ana River Habitat expenses of \$25,020; the Regional Water Quality Control Board of \$2,569 the Recharge Master Plan of \$41,311; Storage Agreements of \$54,932; the Prado Basin Habitat Sustainability of \$5,163; the SGMA Compliance of \$12,520; and the WM Unanticipated legal expenses of \$14,750. For the six months ended December 31, 2017, the overall cumulative (YTD) budget was \$298,738 and the actual (BHFS) legal expenses totaled \$170,927 which resulted in an under budget variance of \$127,811 or 42.8%.

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 December 31, 2017 this category of expenses was \$2,967 or 56.5% below the budgeted amount of \$5,250.

The WEI Support for IEUA expenses are categorized within the category (6910's). The individual general ledger accounts are as follows: IRP Groundwater Modeling-WEI expenses (6910.10); As Needed Support for Obtaining Grant Funding of RMPU Projects expenses (6910.11); Preparation of a Compliance Demonstration for Stormwater Recharge expenses (6910.12); Ground Water Velocity Field for the San Sevaime Improvement Project expenses (6910.13); Truing-Up the 2013 RMPU Estimates expenses (6910.14); WEI Support-HCP Modeling expenses (6910.15); and RMPU-MPI Analysis expenses (6910.20). These expenses are billed directly to IEUA on the following month once the payment has been issued to Wildermuth Environmental, Inc. per the agreement. As of December 31, 2017 this category of expenses was fully invoiced in the amount of \$0 to IEUA.

Overall, the Optimum Basin Management Program (OBMP) category was \$544,421 compared to a (YTD) budget of \$656,692 for an under budget of \$112,271 or 17.1% as of December 31, 2017.

The table listed below summarizes the Optimum Basin Management Program (OBMP) expenses as of December 31, 2017 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 '17 - Dec '17 Actual	Jul '17 - Dec '17 Budget	\$ Over Budget	% of Budget	FY 2017/18 Annual Budget
6900 · Optimum Basin Mgmt Plan					
6901 · WM Staff Salaries	25,968.55	45,916.00	-19,947.45	56.56%	91,832.00
6903 · OBMP SAWPA Group	0.00	12,254.00	-12,254.00	0.0%	12,254.00
Total 6901-6903 · OBMP WM Staff/SAWPA	25,968.55	58,170.00	-32,201.45	44.64%	104,086.00
6906 · OBMP Engineering Services					
6906.1 · OBMP - Watermaster Model Update	42,866.50	29,582.00	13,284.50	144.91%	59,164.00
6906.21 · State of the Basin Report	0.00	0.00	0.00	0.0%	0.00
6906.22 · Water Rights Compliance Reporting	10,489.15	12,764.00	-2,274.85	82.18%	25,528.00
6906.23 · SGMA Reporting Requirements	17,899.00	12,196.00	5,703.00	146.76%	24,392.00
6906.24 · Compliance - SB88 and SWRCB	0.00	3,506.00	-3,506.00	0.0%	7,012.00
6906.25 · Initial Assessment - Section 4.5-SYRA	0.00	0.00	0.00	0.0%	0.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	32,654.38	48,475.00	-15,820.62	67.36%	96,950.00
6906.32 · OBMP - Other General Meetings	49,048.72	18,190.00	30,858.72	269.65%	36,381.00
6906.71 · OBMP - Data Requests - CBWM Staff	85,647.85	54,720.00	30,927.85	156.52%	109,440.00
6906.72 · OBMP - Data Requests - Non CBWM	9,899.85	15,876.00	-5,976.15	62.36%	31,752.00
6906.73 · OBMP - Safe Yield Recalculation	0.00	0.00	0.00	0.0%	0.00
6906.74 · OBMP - Mat'l Phy. Injury Requests	16,273.00	35,000.00	-18,727.00	46.49%	70,000.00
6906.75 · OBMP - Recharge Master Plan	0.00	0.00	0.00	0.0%	0.00
6906.81 · Prepare Annual Reports	15,770.15	17,143.00	-1,372.85	91.99%	20,000.00
6906.82 · Support for Assessment Package	0.00	0.00	0.00	0.0%	0.00
6906.90 · OBMP - 2018 RMPU Master Update	51,820.60	32,500.00	19,320.60	159.45%	65,000.00
6906 · OBMP Engineering Services - Other	12,872.40	14,582.00	-1,709.60	88.28%	29,164.00
Total 6906 · OBMP Engineering Services	345,241.60	294,534.00	50,707.60	117.22%	574,783.00
6907 · OBMP Legal Fees					
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	12,250.00	-12,250.00	0.0%	24,500.00
6907.32 · Chino Airport Plume	0.00	12,250.00	-12,250.00	0.0%	24,500.00
6907.33 · Desalter/Hydraulic Control	0.00	10,762.00	-10,762.00	0.0%	21,525.00
6907.34 · Santa Ana River Water Rights	17,263.26	13,101.00	4,162.26	131.77%	26,200.00
6907.36 · Santa Ana River Habitat	9,630.45	34,650.00	-25,019.55	27.79%	69,300.00
6907.38 · Reg. Water Quality Cntrl Board	4,605.44	7,175.00	-2,569.56	64.19%	14,350.00
6907.39 · Recharge Master Plan	1,889.10	43,200.00	-41,310.90	4.37%	86,400.00
6907.40 · Storage Agreements	31,867.83	86,800.00	-54,932.17	36.71%	173,600.00
6907.41 · Prado Basin Habitat Sustainability	2,436.75	7,600.00	-5,163.25	32.06%	15,200.00
6907.42 · Safe Yield Recalculation	94,154.47	34,600.00	59,554.47	272.12%	69,200.00
6907.44 · SGMA Compliance	9,080.10	21,600.00	-12,519.90	42.04%	43,200.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	14,750.00	-14,750.00	0.0%	29,500.00
Total 6907 · WM Legal Counsel	170,927.40	298,738.00	-127,810.60	57.22%	597,475.00
Total 6907 · OBMP Legal Fees	170,927.40	298,738.00	-127,810.60	57.22%	597,475.00
6909 · OBMP Other Expenses					
6909.1 · OBMP Meetings	891.97	750.00	141.97	118.93%	1,500.00
6909.3 · Other OBMP Expenses	1,391.00	2,000.00	-609.00	69.55%	2,000.00
6909.6 · OBMP Expenses - Miscellaneous	0.00	2,500.00	-2,500.00	0.0%	10,000.00
Total 6909 · OBMP Other Expenses	2,282.97	5,250.00	-2,967.03	43.49%	13,500.00
6910 · WEI Support for IEUA					
6910.10 · IRP Groundwater Modeling - WEI	0.00	0.00	0.00	0.0%	0.00
6910.11 · WEI Support-Grant Funding-RMPU	0.00	0.00	0.00	0.0%	0.00
6910.12 · WEI Support-Stormwater Recharge	0.00	0.00	0.00	0.0%	0.00
6910.13 · IEUA-San Sevaime Improvement Project	0.00	0.00	0.00	0.0%	0.00
6910.14 · Truing-Up 2013 RMPU Estimates	0.00	0.00	0.00	0.0%	0.00
6910.15 · WEI Support-HCP Modeling	0.00	0.00	0.00	0.0%	0.00
6910.20 · RMPU-MPI Analysis	0.00	0.00	0.00	0.0%	0.00
6910.50 · WEI Support for IEUA-Billings	0.00	0.00	0.00	0.0%	0.00
Total 6910 · WEI Support for IEUA	0.00	0.00	0.00	0.0%	0.00
Total 6900 · Optimum Basin Mgmt Plan	544,420.52	656,692.00	-112,271.48	82.9%	1,289,844.00

PREVIOUSLY REPORTED ACTIONS (Descending Order)

None

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

CURRENT MONTH – DECEMBER 2017

As of December 31, 2017, the total (YTD) Engineering Services expenses were \$832,870 or 38.2% below the (YTD) budget amount of \$2,179,772. The OBMP Implementation Projects (consolidated accounts 7100's – 7700's) were all under budget as of December 31, 2017, with the exception of Groundwater Level Monitoring-Engineering expenses (7104's) and PE 8&9-Storage Management/Conjunctive Use account (7602).

The Groundwater Level Monitoring-Engineering expenses (7104.3) were over budget by \$20,697 or 20.1% as a result of continued measurement activities from about 150 wells along with their related subtasks. This category is projected to level out over the next few months.

PE 8&9-Storage Management/Conjunctive Use account (7602) was over budget by \$122,805 or 67.4% as a result of a two-year Engineering project which was originally budgeted and approved for \$182,207 for FY 2017/18 during the budgeting process. Due to specific deadlines, Watermaster has requested the timeline be pushed forward and it's now understood that the total two-year expenses of \$344,081 (or more depending upon the scope of work) could be spent within the FY 2017/18 period.

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 second ECAC report for the current fiscal year has been provided for the period ending December 31, 2017 and shows a projected over budget at fiscal year-end June 30, 2018 of \$407,335. The majority of the projected budget overage is in the Storage Management/Conjunctive Use expenses (7602). This activity was originally developed and designed as a two year-project and budgeted accordingly during the FY 2017/18 budgeting process. Due to specific deadlines, Watermaster has requested the timeline be pushed forward and the total budget for this fiscal year is projected at \$344,081 (or more depending upon the scope of work). If the activities are being completed earlier than projected, a Budget Amendment during FY 2017/18 would need to be presented for approval to continue the funding.

Attachment 1a
Chino Basin Watermaster: Invoice Projections for Engineering Tasks for Fiscal Year 2017/18
As of December 31, 2017

Acct #	Description	Original Budget	Revised Budget	Billed Jul-17	Billed Aug-17	Billed Sep-17	Billed Oct-17	Billed Nov-17	Billed Dec-17	Projected Jan-18
6906	OBMP Engineering	\$ 450,619	\$ 450,619	\$ 35,585	\$ 39,218	\$ 41,580	\$ 53,951	\$ 40,854	\$ 39,367	\$ 34,242
6906.1	OBMP - Watermaster Model Applications	59,164	59,164	-	12,605	-	30,262	-	-	-
6906.9	2018 RMPU Recharge Master Update	65,000	65,000	18,560	21,059	-	9,545	-	2,657	5,000
7103.3	GW and SW Quality - Engineering Services	193,714	193,714	10,926	22,150	19,365	24,479	10,467	9,207	26,925
7103.5	GW and SW Quality - Laboratory Services	80,653	80,653	2,032	14,256	9,850	5,785	8,766	10,411	2,132
7104.3	GW Level - Engineering Services	237,548	237,548	12,010	14,070	10,271	18,191	24,964	42,169	15,800
7104.8	GW Level - Contract Services	10,000	10,000	-	-	-	-	-	-	-
7104.90	GW Level - Capital Services	8,000	8,000	599	579	-	-	268	504	-
7107.2	Ground Level - Engineering Services	48,795	69,497	3,383	4,032	1,401	2,482	1,767	630	4,359
7107.3	Ground Level - SAR Imagery	86,608	86,608	-	-	12,000	-	-	-	-
7107.6	Ground Level - Contract Services	144,356	168,552	14,296	-	-	-	-	16,458	-
7107.8	Ground Level - Capital Equipment	5,359	5,359	-	-	119	-	-	-	500
7108.31	IEUA - Prado Basin Habitat Monitoring	75,929	81,929	7,635	857	-	16,039	7,693	6,354	34,480
7108.6	IEUA - PBHSP - Outside Pro	5,000	5,000	-	-	-	8,858	-	-	-
7109.3	Recharge & Well Monitoring - Engineering Serv.	23,377	23,377	-	902	-	-	1,526	6,440	-
7202.2	Comp Recharge - Engineering Services	161,976	161,976	14,432	17,759	17,227	6,391	9,938	2,364	10,054
7303	OBMP - Engineering Services - Desalters	9,640	9,640	-	-	-	-	-	-	1,071
7402	OBMP - Engineering Services - MZ1	103,290	103,290	26,638	6,145	13,179	3,387	653	1,106	2,000
7402.1	OBMP - Engineering Services - Northwest MZ1	1,507,576	1,649,785	3,149	27,000	16,680	14,693	19,327	12,119	228,879
7403	OBMP - Contract Services - MZ1	20,000	20,000	-	-	-	-	-	-	-
7502	OBMP - Engineering Services - WGQC	79,113	79,113	11,419	12,542	4,886	2,909	4,307	24,006	19,000
7510	IEUA - Update Recycled Water Permit - Salinity	125,806	125,806	10,850	2,187	51,346	54,156	5,260	12,753	28,253
7602	Storage Management/Conjunctive Use	182,207	182,207	24,218	46,296	54,680	65,131	64,981	49,697	60,549
Totals		\$ 3,683,730	\$ 3,876,837	\$ 197,730	\$ 241,657	\$ 252,604	\$ 317,785	\$ 205,706	\$ 229,799	\$ 473,044

1/24/2018--10:17 AM
2017-18CBWM_Invoice_Summary_JSBM_20180108--Projection Summary



Attachment 1a
Chino Basin Watermaster: Invoice Projections for Engineering Tasks for Fiscal Year 2017/18
As of December 31, 2017

Acct #	Description	Projected Feb-18	Projected Mar-18	Projected Apr-18	Projected May-18	Projected Jun-18	Total Projected	Less IEUA Portion of Cost Share			
								Total Projected	Under / (Over) Rev. Budget	YTD % Billed Rev. Budget	Projected % Rev. Budget
6906	OBMP Engineering	\$ 39,504	\$ 40,208	\$ 35,300	\$ 32,504	\$ 32,504	\$ 464,818	\$ 464,818	\$ (14,199)	56%	103%
6906.1	OBMP - Watermaster Model Applications	-	-	-	-	-	42,867	42,867	16,298	72%	72%
6906.9	2018 RMPU Recharge Master Update	10,000	10,000	10,000	10,000	10,000	106,821	106,821	(41,821)	80%	184%
7103.3	GW and SW Quality - Engineering Services	26,000	20,200	9,400	3,000	19,800	201,919	201,919	(8,205)	50%	104%
7103.5	GW and SW Quality - Laboratory Services	2,500	4,688	2,132	-	4,688	67,260	67,260	13,393	63%	83%
7104.3	GW Level - Engineering Services	19,800	20,050	15,740	26,882	21,654	241,401	241,401	(3,853)	51%	102%
7104.8	GW Level - Contract Services	-	-	-	-	-	-	-	10,000	0%	0%
7104.9	GW Level - Capital Services	-	-	-	-	6,000	7,951	7,951	49	24%	99%
7107.2	Ground Level - Engineering Services	6,162	3,046	4,144	4,887	1,355	37,650	37,650	31,847	20%	54%
7107.3	Ground Level - SAR Imagery	18,608	-	56,000	10,492	-	97,100	97,100	(10,452)	14%	112%
7107.6	Ground Level - Contract Services	32,325	32,325	38,853	22,395	-	156,652	156,652	11,900	18%	93%
7107.8	Ground Level - Capital Equipment	1,000	500	1,000	500	1,000	4,619	4,619	740	2%	86%
7108.31	IEUA - Prado Basin Habitat Monitoring	43,400	20,448	13,746	4,480	2,078	157,210	78,605	3,324	47%	96%
7108.6	IEUA - PBHSP - Outside Pro	-	-	-	-	-	8,858	4,429	571	177%	89%
7109.3	Recharge & Well Monitoring - Engineering Serv.	1,700	-	4,000	2,000	2,000	18,569	18,569	4,608	38%	79%
7202.2	Comp Recharge - Engineering Services	12,569	15,054	15,054	17,554	15,057	153,452	153,452	8,524	42%	95%
7303	OBMP - Engineering Services - Desalters	1,071	1,071	1,071	1,071	1,071	6,427	6,427	3,213	0%	67%
7402	OBMP - Engineering Services - MZ1	11,032	10,600	15,000	14,000	10,640	116,379	116,379	(13,069)	51%	113%
7402.1	OBMP - Engineering Services - Northwest MZ1	237,122	234,649	154,766	232,354	461,315	1,642,060	1,642,060	7,725	6%	100%
7403	OBMP - Contract Services - MZ1	-	-	5,000	5,000	-	10,000	10,000	10,000	0%	50%
7502	OBMP - Engineering Services - WGQC	10,395	13,880	6,930	-	-	110,254	110,254	(31,141)	76%	139%
7510	IEUA - Update Recycled Water Permit - Salinity	35,000	30,000	35,000	30,000	30,000	324,804	107,185	18,621	109%	85%
7602	Storage Management/Conjunctive Use	60,549	60,549	60,549	60,549	-	607,756	607,756	(425,549)	167%	334%
Totals		\$ 568,737	\$ 517,248	\$ 483,684	\$ 477,668	\$ 619,162	\$ 4,584,824	\$ 4,284,172	\$ (407,335)	37%	118%

Note: Billed includes MWH Laboratory invoices paid directly by Watermaster.

1/24/2018--10:17 AM
2017-18CBWM_Invoice_Summary_JSBM_20180108--Projection Summary



Watermaster does not plan to present any Budget Transfers or Budget Amendments at this time.

The Fiscal Year 2017/18 Progress and Estimated Cost at Completion for the Period July 1, 2017 through December 31, 2017 report from Wildermuth Environmental, Inc. is provided. Please access this link:

http://www.cbwm.org/FTP/ECAC%20Reports/2017-18%202nd%20Quarter%20Narrative%20Review_July%201,%202017%20to%20December%2031,%202017.PDF

The third ECAC report is scheduled to be issued in mid-May 2018 for the period July 1, 2017 through March 31, 2018.

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 December 31, 2017. 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 '17 - Dec '17	Jul '17 - Dec '17	\$ Over Budget	% of Budget	FY 2017/18
	Actual	Budget			Annual Budget
6906 · OBMP Engineering Services - Other	12,872.40	14,582.00	-1,709.60	88.28%	29,164.00
6906.1 · OBMP - Watermaster Model Update	42,866.50	29,582.00	13,284.50	144.91%	59,164.00
6906.21 · State of the Basin Report	0.00	0.00	0.00	0.0%	0.00
6906.22 · Water Rights Compliance Reporting	10,489.15	12,764.00	-2,274.85	82.18%	25,528.00
6906.23 · SGMA Reporting Requirements	17,899.00	12,196.00	5,703.00	146.76%	24,392.00
6906.24 · Compliance - SB88 and SWRCB	0.00	3,506.00	-3,506.00	0.0%	7,012.00
6906.25 · Initial Assessment - Section 4.5-SYRA	0.00	0.00	0.00	0.0%	0.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	32,654.38	48,475.00	-15,820.62	67.36%	96,950.00
6906.32 · OBMP - Other General Meetings	49,048.72	18,190.00	30,858.72	269.65%	36,381.00
6906.71 · OBMP - Data Requests - CBWM Staff	85,647.85	54,720.00	30,927.85	156.52%	109,440.00
6906.72 · OBMP - Data Requests - Non CBWM	9,899.85	15,876.00	-5,976.15	62.36%	31,752.00
6906.74 · OBMP - Mat'l Physical Injury Requests	16,273.00	35,000.00	-18,727.00	46.49%	70,000.00
6906.81 · Prepare Annual Reports	15,770.15	17,143.00	-1,372.85	91.99%	20,000.00
6906.90 · OBMP - 2018 RMPU Master Update	51,820.60	32,500.00	19,320.60	159.45%	65,000.00
7103.3 · Grdwtr Qual-Engineering	96,593.76	82,298.00	14,295.76	117.37%	128,595.00
7103.5 · Grdwtr Qual-Lab Svcs	38,825.00	49,109.00	-10,284.00	79.06%	49,109.00
7104.3 · Grdwtr Level-Engineering	123,626.27	102,929.00	20,697.27	120.11%	205,859.00
7104.8 · Grdwtr Level-Contracted Services	0.00	5,000.00	-5,000.00	0.0%	10,000.00
7104.9 · Grdwtr Level-Capital Equipment	843.20	4,000.00	-3,156.80	21.08%	8,000.00
7107.2 · Grd Level-Engineering	13,814.36	46,029.00	-32,214.64	30.01%	71,356.00
7107.3 · Grd Level-SAR Imagery	12,000.00	43,304.00	-31,304.00	27.71%	86,608.00
7107.6 · Grd Level-Contract Svcs	30,753.78	96,374.00	-65,620.22	31.91%	168,552.00
7107.8 · Grd Level-Capital Equipment	0.00	1,750.00	-1,750.00	0.0%	3,500.00
7108.3 · Hydraulic Control-Engineering	0.00	9,900.00	-9,900.00	0.0%	19,800.00
7108.31 · Hydraulic Control-PBHSP	39,254.32	67,079.00	-27,824.68	58.52%	128,159.00
7108.32 · Hydraulic Control-Adaptive Mgmt Plan	0.00	0.00	0.00	0.0%	0.00
7108.4 · Hydraulic Control-Lab Svcs	4,064.00	12,032.00	-7,968.00	33.78%	24,064.00
7108.41 · Hydraulic Control-PBHSP	8,680.00	9,250.00	-570.00	93.84%	18,500.00
7108.6 · Hydraulic Control-Outside Professionals	0.00	2,500.00	-2,500.00	0.0%	5,000.00
7109.3 · Recharge & Well - Engineering	8,868.80	11,689.00	-2,820.20	0.0%	23,377.00
7202.2 · Comp Recharge-Engineering Services	68,109.99	80,988.00	-12,878.01	84.1%	161,976.00
7303 · PE3&5-Engineering - Other	0.00	4,820.00	-4,820.00	0.0%	9,640.00
7402 · PE4-Engineering	53,107.60	51,645.00	1,462.60	102.83%	103,290.00
7402.10 · PE4-MZ1 Pomona Project	92,976.88	905,876.00	-812,899.12	10.26%	1,669,543.00
7403 · PE4-Contract Svcs	0.00	10,000.00	-10,000.00	0.0%	20,000.00
7502 · PE6&7-Engineering	60,068.65	43,556.00	16,512.65	137.91%	79,113.00
7510 · PE6&7-IEUA Salinity Mgmt. Plan	45,061.67	62,903.00	-17,841.33	71.64%	125,806.00
7602 · PE8&9-Engineering	305,012.46	182,207.00	122,805.46	167.4%	182,207.00
Total Engineering Services Costs	1,346,902.34	2,179,772.00	-832,869.66	61.79%	3,876,837.00 *

* Wildermuth and Subcontractor Engineering Budget of \$3,683,730 plus Carryover Funds from FY 2016/17 of \$193,107 = \$3,876,837
Carryover Funds from FY 2016/17 of \$193,107 = \$20,702 (7107.2); \$24,196 (7107.6); \$6,000 (7108.31); and \$142,209 (7402.10)

PREVIOUSLY REPORTED ACTIONS (Descending Order)

November 2017:

The first ECAC report for the current fiscal year has been provided for the period ending September 30, 2017 and shows a projected over budget at fiscal year-end June 30, 2018 of \$117,029. The majority of the projected budget overage in the amount of \$161,874 is in the Storage Management/Conjunctive Use

expenses (7602). This activity was originally developed and designed as a two year-project and budgeted accordingly during the FY 2017/18 budgeting process. Due to specific deadlines, Watermaster has requested the timeline be pushed forward and the total budget for this fiscal year is projected at \$344,081. If the activities are being completed earlier than projected, a Budget Amendment during FY 2017/18 would need to be presented for approval to continue the funding.

The other category projected to be over budget by the amount of \$36,631 at June 30, 2018 is the expenses related to Update IEUA's Recycled Water Permits/Maximum Benefit Salinity Management Plan for the Chino Basin expenses (7510). This category could be funded through a Budget Amendment, as described above, or through a Budget Transfer. As an offset to the accounts projected to be over budget, there are also some activities that are projected to be under budget at fiscal year-end June 30, 2018.

Attachment 1a
Chino Basin Watermaster: Invoice Projections for Engineering Tasks for Fiscal Year 2017/18
As of September 30, 2017

Acct #	Description	Original Budget	Revised Budget	Billed Jul-17	Billed Aug-17	Billed Sep-17	Projected Oct-17	Projected Nov-17	Projected Dec-17	Projected Jan-18
6906	OBMP Engineering	\$ 450,619	\$ 450,619	\$ 35,565	\$ 38,218	\$ 41,580	\$ 52,665	\$ 42,004	\$ 26,809	\$ 39,662
6906.1	OBMP - Watermaster Model Applications	59,164	59,164	-	12,895	-	30,000	2,070	2,070	2,070
6906.9	2018 RMPU Recharge Master Update	65,000	65,000	18,500	21,059	-	10,000	1,923	1,923	1,923
7103.3	GW and SW Quality - Engineering Services	193,714	193,714	10,628	22,150	19,365	23,910	13,044	21,326	11,887
7103.5	GW and SW Quality - Laboratory Services	80,653	80,653	2,032	14,256	9,660	12,642	10,000	14,887	2,132
7104.3	GW Level - Engineering Services	237,548	237,548	12,010	14,070	10,271	18,349	28,780	22,156	18,158
7104.8	GW Level - Contract Services	10,000	10,000	-	-	-	-	-	-	-
7104.90	GW Level - Capital Services	8,000	8,000	599	579	-	-	-	-	1,700
7107.2	Ground Level - Engineering Services	48,795	69,497	3,383	4,032	1,401	3,050	6,481	7,183	8,359
7107.3	Ground Level - SAR Imagery	96,608	96,608	-	-	12,000	-	12,167	-	-
7107.6	Ground Level - Contract Services	144,358	198,552	14,296	-	-	-	-	11,800	-
7107.8	Ground Level - Capital Equipment	5,359	5,359	-	-	119	500	500	500	500
7108.31	IEUA - Prado Basin Habitat Monitoring	75,929	81,929	7,635	857	-	16,465	18,616	24,400	27,480
7108.9	IEUA - PBHSP - Outside Pro	5,000	5,000	-	-	-	8,858	-	-	-
7109.3	Recharge & Well Monitoring - Engineering Serv.	23,377	23,377	-	902	-	3,000	2,700	1,200	1,200
7202.2	Comp Recharge - Engineering Services	161,976	161,976	14,432	17,759	17,227	6,503	6,654	12,353	9,654
7303	OBMP - Engineering Services - Desalters	9,640	9,640	-	-	-	-	1,071	1,071	1,071
7402	OBMP - Engineering Services - MZ1	103,290	103,290	28,638	8,145	13,179	1,500	1,000	1,500	2,000
7402.1	OBMP - Engineering Services - Northwest MZ1	1,597,576	1,649,785	3,149	27,000	16,690	15,460	241,353	232,447	229,870
7403	OBMP - Contract Services - MZ1	20,000	20,000	-	-	-	-	-	-	-
7502	OBMP - Engineering Services - WQC	79,113	79,113	11,419	12,542	4,886	3,000	2,356	2,000	7,676
7510	IEUA - Update Recycled Water Permit - Salinity	125,806	125,806	10,850	2,187	51,346	55,000	40,644	40,644	19,000
7602	Storage Management/Conjunctive Use	182,207	182,207	24,218	48,296	54,690	65,000	21,693	21,693	21,983
Totals		\$ 3,683,730	\$ 3,876,837	\$ 197,730	\$ 241,657	\$ 252,434	\$ 323,931	\$ 457,905	\$ 446,312	\$ 402,114

11/15/2017--9:18 AM
2017-18CBWM_Invoice_Summary_ISBM_20171011ECAC--Projection Summary



Attachment 1a
Chino Basin Watermaster: Invoice Projections for Engineering Tasks for Fiscal Year 2017/18
As of September 30, 2017

Acct #	Description	Projected Feb-18	Projected Mar-18	Projected Apr-18	Projected May-18	Projected Jun-18	Total Projected	Less IEUA Portion of Cost Share			
								Total Projected	Under / (Over) Rev. Budget	YTD % Billed Rev. Budget	Projected % Rev. Budget
6906	OBMP Engineering	\$ 37,204	\$ 44,004	\$ 32,504	\$ 32,504	\$ 32,504	\$ 456,075	\$ 456,075	\$ (6,458)	26%	101%
6906.1	OBMP - Watermaster Model Applications	2,070	2,070	2,070	2,070	2,069	59,164	59,164	-	21%	100%
6906.9	2018 RMPU Recharge Master Update	1,923	1,923	1,923	1,923	1,920	65,000	65,000	-	61%	100%
7103.3	GW and SW Quality - Engineering Services	14,725	18,500	7,494	4,725	22,846	190,678	190,678	3,039	27%	98%
7103.5	GW and SW Quality - Laboratory Services	-	4,688	2,132	-	4,888	76,937	76,937	3,718	32%	95%
7104.3	GW Level - Engineering Services	22,610	20,509	14,066	26,199	21,194	224,340	224,340	13,208	15%	64%
7104.8	GW Level - Contract Services	-	-	-	10,000	-	10,000	10,000	-	0%	100%
7104.9	GW Level - Capital Services	-	-	-	-	5,100	7,978	7,978	22	15%	100%
7107.2	Ground Level - Engineering Services	9,127	7,046	8,198	6,044	2,666	67,852	67,852	1,645	13%	98%
7107.3	Ground Level - SAR Imagery	18,608	-	58,000	-	-	98,775	98,775	(12,167)	14%	114%
7107.6	Ground Level - Contract Services	32,325	32,325	38,853	26,902	12,651	188,552	168,552	-	8%	100%
7107.8	Ground Level - Capital Equipment	500	459	600	1,600	600	5,278	5,278	81	2%	99%
7108.31	IEUA - Prado Basin Habitat Monitoring	24,828	19,448	13,746	4,480	2,078	158,371	76,185	2,744	10%	97%
7108.9	IEUA - PBHSP - Outside Pro	-	-	-	-	-	8,858	4,429	571	0%	99%
7109.3	Recharge & Well Monitoring - Engineering Serv.	2,700	1,200	4,000	2,700	1,477	21,076	21,076	2,298	4%	90%
7202.2	Comp Recharge - Engineering Services	12,169	14,654	14,654	17,154	15,763	161,976	161,976	-	31%	100%
7303	OBMP - Engineering Services - Desalters	1,071	1,071	1,071	1,071	1,071	8,596	8,596	1,071	0%	99%
7402	OBMP - Engineering Services - MZ1	11,632	10,600	15,000	14,000	10,500	115,093	115,093	(11,803)	46%	111%
7402.1	OBMP - Engineering Services - Northwest MZ1	228,029	234,649	183,768	228,354	6,500	1,827,274	1,927,274	22,511	3%	99%
7403	OBMP - Contract Services - MZ1	-	5,000	5,000	6,500	500	20,000	20,000	-	0%	100%
7502	OBMP - Engineering Services - WQC	18,365	13,860	8,030	1,850	1,100	79,113	79,113	-	36%	100%
7510	IEUA - Update Recycled Water Permit - Salinity	19,015	22,647	22,647	22,647	22,647	324,675	162,437	(36,631)	51%	129%
7602	Storage Management/Conjunctive Use	21,693	21,693	21,693	21,690	-	344,081	344,081	(161,874)	69%	199%
Totals		\$ 466,313	\$ 476,634	\$ 431,729	\$ 435,094	\$ 168,075	\$ 4,299,917	\$ 4,053,666	\$ (177,029)	84%	111%

Note: Billed includes MWH Laboratory Invoices paid directly by Watermaster.

11/15/2017--9:18 AM
2017-18CBWM_Invoice_Summary_ISBM_20171011ECAC--Projection Summary



Watermaster does not plan to present any Budget Transfers or Budget Amendments at this time.

The Fiscal Year 2017/18 Progress and Estimated Cost at Completion for the Period July 1, 2017 through September 30, 2017 report from Wildermuth Environmental, Inc. is provided. Please access this link:

http://www.cbwm.org/FTP/ECAC%20Reports/2017-18%201st%20Quarter%20Narrative%20Review_July%201,%202017%20to%20September%2030,%202017.PDF

The second ECAC report is scheduled to be issued in mid-February 2018 for the period July 1, 2017 through December 31, 2017.

July 2017:

The breakdown of the total Task Order amount of \$3,683,730 includes direct labor costs for Wildermuth Environmental, Inc. (55.9%) along with other direct charges such as equipment rental, laboratory fees, travel costs, reproduction costs, and outside professional services (44.1%).

The approved "Original" Engineering Services budget of \$3,683,730 was increased by "Carry Over" funding in the amount of \$193,107 to the "Amended" amount of \$3,876,837 for FY 2017/18 as provided in the Engineering Services Task Order. 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 2017/18 timeframe or future years. The Carry-Over amount of \$193,107 from FY 2016/17 to the FY 2017/18 budget are provided in detail as follows:

1. 7107.2 Ground-Level – Engineering Services of \$20,702. This budget was for work to identify and install a new horizontal extensometer in the Managed Area. This work was not performed in FY 2016/17 because the GLMC did not recommend the installation of a horizontal extensometer as of yet, and may not recommend the installation in FY 2017/18. The budget is recommended to be carried over because the GLMC may recommend the use of this budget in FY 2017/18 to install additional benchmark monuments across the historical fissure zone for monitoring of ground motion via traditional leveling surveys and electronic distance measurements.
2. 7107.6 Ground-Level – Contract Services of \$24,196. This budget was for Outside Professional services to assist with identifying and installing a new horizontal extensometer in the Managed Area. This work was not performed in FY 2016/17 because the GLMC did not recommend the installation of a horizontal extensometer as of yet, and may not recommend the installation in FY 2017/18. The budget is recommended to be carried over because the GLMC may recommend the use of this budget in FY 2017/18 to install additional benchmark monuments across the historical fissure zone for monitoring of ground motion via traditional leveling surveys and electronic distance measurements.
3. 7108.31 HCMP – Engineering Services for \$6,000. This carryover budget is for finalizing the 2016 Annual Report of the PBHSC, including responding to comments from the state and federal Fish and Wildlife departments.
4. 7402.1 OBMP Engineering Services Northwest MZ-1 for \$142,209. This carryover budget is for work not performed in FY 2016/17 including: (i) finalizing the Categorical Exemption for the Pomona Extensometer to comply with CEQA; (ii) support for preparation of the bid package for selection of the drilling contractor; (iii) support for the bid and contractor selection; (iv) updating the SCADA systems for MVWD and City of Pomona to collect high-resolution production and water-level data; and (v) finalizing the reports on the hydrogeology of the Northwest MZ-1 Area and the modeling of subsidence management alternatives. All of this work will be completed in FY 2017/18.

PRADO BASIN HABITAT SUSTAINABILITY PROGRAM

Ongoing Costs

Program costs that are ongoing (Ongoing Costs) will be cost-shared between Watermaster and IEUA, split on a 50/50 basis, subject to the following limitation: in each fiscal year, neither Watermaster nor IEUA shall be obligated to reimburse the other for Ongoing Costs that exceed the amount that the reimbursing party has budgeted for Ongoing Costs in that fiscal year, except as agreed upon by both parties in writing or as amended during the fiscal year. The first year expenses (FY 2016/17) to be cost shared is approximately \$300,000, with projected future years (FY 2017/18 and forward) estimated at approximately \$150,000. For the purposes of the agreement, Ongoing Costs are defined as the costs associated with the following Program activities:

1. A Riparian Habitat Monitoring Program, including, but not limited to, the following sub-tasks:
 - a. Design and implement a site-specific vegetation monitoring program with the United States Bureau of Reclamation (USBR) and Orange County Water District, pursuant to which USBR will perform site-specific vegetation surveys.
 - b. Manage and perform custom flight to collect a high resolution air photo of the Prado Basin Region.
 - c. Collect, check, and upload historical air photos and vegetation survey data in the Prado Basin region.
 - d. Collect, check, and upload historical Landsat data in the Prado Basin region.
2. A Climate Monitoring Program, including, but not limited to, the following sub-task:
 - a. Collect, check, and upload climatic data on an annual basis
3. Preparation of the AMP Annual Report (Annual Report), including, but not limited to, the following sub-tasks:
 - a. Water level monitoring, vegetation survey, photo monitoring, landsat data, climate data and analysis of the components.
 - b. Analyze data and prepare an administrative draft of the Annual Report for Watermaster/IEUA.
 - c. Incorporate the Watermaster and IEUA comments and prepare a draft Annual Report for review by the PBHSC.
 - d. Meet with PBHSC to review draft Annual Report.
 - e. Incorporate PBHSC comments and finalize the Annual Report.
4. Annual license fees for monitoring wells.
5. Project management and administration activities associated with the Program undertaken by a Party's consultant, including, but not limited to, the following sub-tasks:
 - a. Ad-Hoc Meetings
 - b. Preparation of scope and budget for the Program
 - c. Project administration and financial reporting
6. Other costs required to fulfill the requirements of Peace II Subsequent EIR mitigation measure 4.4-3.

Watermaster shall be responsible for the costs associated with the Groundwater Level Monitoring Program, Groundwater Quality Monitoring Program, and Surface Water Monitoring Program.

Watermaster and IEUA shall each have responsibility for its own administrative costs, excluding the tasks and expenses included under Set-Up Costs and Ongoing Costs.

Watermaster and IEUA will meet to review the cost-sharing structure under this agreement and negotiate necessary adjustments in good faith on at least an annual basis.

The Peace II SEIR does not explicitly state a duration for the monitoring and mitigation program. It is logical to assume that the program will last until the drawdown impacts, if any, on the riparian habitat from Peace II activities are fully manifested and not predicated to worsen, and that mitigation measures, if any are required, are fully implemented. This is not a perpetual agreement. Upon termination of the

monitoring and any necessary mitigation obligations, the parties may elect to terminate the cost share agreement.

	Wildermuth Environmental, Inc.	50% Billing "TO" IEUA	50% Billing "FROM" IEUA	Costs For Watermaster
Jul. 2017 - Dec. 2017	\$ 47,435.44	\$ (23,717.72)	\$ -	\$ 23,717.72
Totals	\$ 47,435.44	\$ (23,717.72)	\$ -	\$ 23,717.72
	7108.31	7108.31	7108.31	
Maximum Costs	\$ 150,000.00	\$ 75,000.00	\$ 75,000.00	\$ 75,000.00

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2017:

Start-up Costs

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 was to ensure that the Prado Basin riparian habitat was not impacted by Hydraulic Control. The basic program tasks were to convene a committee that would 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 was 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 Watermaster Board. The increase from \$220,000 to \$300,000 was to reflect a change in the consultant preparing the Adaptive Management Plan. On August 25, 2016, the cost sharing agreement between IEUA and Watermaster was increased from \$300,000 to \$385,000 (\$770,000 x 50% = \$385,000) with the approval of the Watermaster Board. A number of issues associated with the drilling of the monitoring wells (unavailable locations requiring negotiation of new easements, nesting season limitations, etc.), increased the cost of the construction of the 16 wells. The majority of the additional costs were due to extended construction management, additional easement fees, and environmental reporting for the pre- and during construction time period. The associated increase in cost was \$170,000, changing the total amount from \$600,000 to \$770,000.

The agreement was a 50/50 cost sharing agreement between Watermaster and IEUA with a not to exceed amount of \$385,000 for each party. Included in that cost was 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 had been applied for to offset the cost of this program; however, the Grants were not approved.

The information listed below is provided for the period of May 1, 2012 through June 30, 2017.

	Actual
	(Program Costs)
Adaptive Management Plan (AMP) - RBF	\$ 123,030.00
Monitoring Wells	\$ 166,326.66
WEI - Field Service	\$ 326,119.00
Tom Dodson - Initial Enviro	\$ 13,500.00
ESA - Enviro Reporting	\$ 39,328.79
Easements and Fees	\$ 65,465.06
IEUA - Contract CM labor	\$ 11,409.00
USBR Vegetation Survey	\$ 20,000.00
Annual Permit Fees	\$ 2,469.44
Grand Total	\$ 767,647.95
50/50 Share	\$ 383,823.98
Amount Paid by IEUA	\$ 383,823.98
Amount Paid by CBWM	\$ 383,823.98
Grand Total Paid	\$ 767,647.95

OTHER INCOME AND EXPENSE

There were no other significant items to report within the category of Other Income and Expenses for the month ending December 31, 2017.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

August 2017:

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 2017/18 annual administrative fee invoice was issued on July 6, 2017 in the amount of \$163,621.82 under invoice number DYY 17-01. Payment in the amount of \$163,621.82 was received and deposited on August 7, 2017.

The three contributions of \$10,000 each (totaling \$30,000) to update the Blomquist Report were invoiced in July 2017 and all three payments have been received from Three Valleys Municipal Water District, Western Municipal Water District, and Inland Empire Utilities Agency.

"CARRY OVER" FUNDING

BACKGROUND OF "CARRY OVER" FUNDING

Once the FY 2016/17 period as of June 30, 2017 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 2017/18 budget. The Total "Carry Over" funding amount of \$4,119,779.24 was posted to the accounts as of July 1, 2017. The total amount of \$4,119,779.24 consisted of \$3,926,672.24 from Capital Improvement Projects and \$193,107 from Engineering Services.

CURRENT MONTH – DECEMBER 2017

As of December 31, 2017, the total (YTD) amount remaining of the "Carried Over" funding is \$3,723,240.57 (\$4,119,779.24 - \$396,538.67 = \$3,723,240.57).

The following details are provided:

"Carried Over" Expenses At June 30, 2017

			GL Account		
Ground Level - Engineering Services	\$ 20,702.00	A	7107.2 ²	FY 2016/17	ENG
Ground Level - Contract Services	\$ 24,196.00	B	7107.6 ³	FY 2016/17	ENG
Hydraulic Control Engineering - PBHSP	\$ 6,000.00	C	7108.31 ⁴	FY 2016/17	ENG
PE4 - Northwest MZ-1 Area Project	\$ 142,209.00	D	7402.1 ⁵	FY 2016/17	ENG
Jurupa Pumping Station (TO #5)	\$ 37,981.33	E	7209.1 ¹	FY 2013/14	PROJ
Wineville Basin Proof of Concept (TO #6)	\$ 35,397.53	F	7209.2 ¹	FY 2013/14	PROJ
RMPU Amendment (TO #1)	\$ 1,205,263.30	G	7690.15	FY 2016/17	PROJ
East Declaz Basin (TO #1)	\$ 1,171.33	H	7690.16 ¹	FY 2016/17	PROJ
Hickory Basin Recharge Improvement Project	\$ 3,877.00	I	7690.3 ¹	FY 2013/14	PROJ
San Sevaine Recharge Improvement Project (TO #8)	\$ 125,851.95	J	7690.4	FY 2014/15	PROJ
San Sevaine Recharge Improvement Project (TO #8)	\$ 1,126,900.00	J	7690.4	FY 2015/16	PROJ
San Sevaine Recharge Improvement Project (TO #8)	\$ 1,065,600.00	J	7690.4	FY 2016/17	PROJ
CB20 Turnout Noise Abatement Project	\$ 859.80	K	7690.5 ¹	FY 2013/14	PROJ
GWR SCADA Upgrades (TO #4)	\$ 134,615.86	L	7690.61	FY 2014/15	PROJ
GWR SCADA Upgrades (TO #4)	\$ 38,675.00	L	7690.61	FY 2015/16	PROJ
Upper Santa Ana River HCP (TO #7)	\$ 32,836.88	M	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$ 5,000.00	M	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$ 112,642.26	N	7690.8	FY 2016/17	PROJ
Total Balance, June 30, 2017	\$ 4,119,779.24				

"Carried Over" Balance, July 1, 2017 \$ 4,119,779.24

Less: (Invoices Received To Date FY 2017/18)

Ground Level - Engineering Services	\$ (13,814.36)	A	7107.2 ²	FY 2016/17	ENG
Ground Level - Contract Services	\$ (24,196.00)	B	7107.6 ³	FY 2016/17	ENG
Hydraulic Control Engineering - PBHSP	\$ (6,000.00)	C	7108.31 ⁴	FY 2016/17	ENG
PE4 - Northwest MZ-1 Area Project	\$ (92,976.88)	D	7402.1 ⁵	FY 2016/17	ENG
RMPU Amendment (TO #1)	\$ (156,077.62)	G	7690.15	FY 2016/17	PROJ
San Sevaine Recharge Improvement Project (TO #8)	\$ (19,261.77)	J	7690.4	FY 2014/15	PROJ
GWR SCADA Upgrades (TO #4)	\$ (28,458.62)	L	7690.61	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$ (17,774.00)	M	7690.7	FY 2014/15	PROJ
Lower Day Basin RMPU (TO #2)	\$ (37,979.42)	N	7690.8	FY 2016/17	PROJ
Updated Balance as of December 31, 2017	\$ 3,723,240.57				

¹ Project completed and funds are available for reallocation to another project, distribution to Appropriative Pool, or maintain as extra funding

² Work to identify and install a new horizontal extensometer in the Managed Area

³ Outside Professional services to assist with identifying and installing a new horizontal extensometer in the Managed Area

⁴ Finalizing the 2016 Annual Report of the PBHSC, including responding to comments from the state/federal Fish and Wildlife departments

⁵ For work not performed in FY 2016/17 related to the Northwest MZ-1 horizontal extensometer

ENGINEERING SERVICES:

Unspent funds related to ongoing projects and associated activities from the Engineering Services budget from FY 2016/17 in several accounts totaling \$193,107 were "Carried Over" into the current FY 2017/18 budget. These funds were from the Ground Level - Engineering Services [A] in the amount of \$20,702 in account (7107.2); Ground Level - Contract Services [B] in the amount of \$24,196 in account (7107.6); Hydraulic Control-Engineering - PBHSP [C] in the amount of \$6,000 in account (7108.31); and PE4-Northwest MZ-1 Area Project [D] in the amount of \$142,209 in account (7402.10).

COMPLETED PROJECTS WITH FUNDING AVAILABLE:

Several projects were completed during FY 2016/17 or in prior years 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 [E] in the amount of \$37,981.33 (account 7209.1); Wineville Basin Proof of Concept [F] in the amount of \$35,397.53 (account 7209.2); East Declez Basin [H] in the amount of \$1,171.33 (account 7690.16); Hickory Basin Recharge Improvement Project [I] in the amount of \$3,877.00 (account 7690.3); and CB20 Turnout Noise Abatement Project [K] in the amount of \$859.80 (account 7690.5). The total amount available is \$79,286.99 ($\$37,981.33 + \$35,397.53 + \$1,171.33 + \$3,877.00 + \$859.80 = \$79,286.99$).

ONGOING RECHARGE IMPROVEMENT PROJECTS:

The RMPU Amendment-Task Order #1 [G] has a remaining budget from FY 2016/17 of \$1,205,263.30 in account (7690.15); the San Sevaine Recharge Improvement Project-Task Order #8 [J] has a remaining funded budget balance of \$2,318,351.95 in account (7690.4); the GWR SCADA Upgrades-Task Order #4 [L] has a remaining funded budget balance of \$173,290.86 in account (7690.61); the Upper Santa Ana River HCP-Task Order #7 [M] has a remaining funded balance of \$37,836.88 in account (7690.7); and the Lower Day Basin RMPU-Task Order #2 [N] has a remaining funded budget balance of \$112,642.26 in account (7690.8). The total funded budget for these combined projects is \$3,847,385.25.

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, 2018, any remaining balances of the FY 2017/18 and prior years funding (if any), along with any new FY 2017/18 expenses, will then be "Carried Over" into the FY 2018/19 budget.

AUDIT FIELD WORK

FY 2016/17:

The auditors from the audit firm of Fedak & Brown LLP were onsite at the Watermaster offices on April 5, 2017 through April 6, 2017. This was the start of the interim field work for the period of July 1, 2016 through February 28, 2017. The final field work for the period of March 1, 2017 through June 30, 2017 was completed during August 14, 2017 through August 16, 2017. The Annual Financial and Audit Reports were presented to the Watermaster Board by Fedak & Brown LLP at the November 16, 2017 Board meeting. At the November 16, 2017 Board meeting, the Board unanimously approved to receive and file the audit reports. The Annual Financial and Audit Reports for FY 2016/17 were posted to the Watermaster website on November 17, 2017.

ASSESSMENT INVOICING

CURRENT MONTH – DECEMBER 2017

The Watermaster Board approved the FY 2017-2018 Assessment Package (Production Year 2016-2017) at the November 16, 2017 meeting. Watermaster staff created and emailed the Assessment invoices on Thursday, November 16, 2017. The Assessment invoices were due 30 days from invoice date, with all payments to be received by Watermaster on or before the close of business at 5:00pm on Monday, December 18, 2017. As in prior years, payments could be made by either check or wire transfer. As of December 18, 2017 at 5:00pm, all but two payments had been received. The two late payments were both received on December 21, 2017. On December 22, 2017 the late fees totaling \$47.34 (\$39.90 and \$7.44) were invoiced. Both late fee payments have been received as of January 26, 2018.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

November 2017:

The Watermaster Board approved the FY 2017-2018 Assessment Package (Production Year 2016-2017) at the November 16, 2017 meeting. Watermaster staff created and emailed the Assessment invoices on Thursday, November 16, 2017. The Assessment invoices were due 30 days from invoice date, with all payments to be received by Watermaster on or before the close of business at 5:00pm on Monday,

December 18, 2017. As in prior years, payments could be made by either check or wire transfer. As of December 18, 2017 at 5:00pm, all but two payments had been received. The two late payments were both received on December 21, 2017. On December 22, 2017 the late fees totaling \$47.34 (\$39.90 and \$7.44) were invoiced.

October 2017:

The Watermaster Board approved the FY 2017-2018 Assessment Package (Production Year 2016-2017) at the November 16, 2017 meeting. Watermaster staff created and emailed the Assessment invoices on Thursday, November 16, 2017. The Assessment invoices are due 30 days from invoice date, with all payments to be received by Watermaster on or before the close of business Monday, December 18, 2017. As in prior years, payments can be made by either check or wire transfer.

This year's Assessment invoicing included the standard Assessment amounts per the Assessment Package, along with any Special Assessments and the "Excess Cash Reserve" refund credits. The Appropriative Pool had a Special Assessment of \$75,000 as approved during the budgeting process. The \$75,000 was allocated to the Appropriative Pool members based upon a prorated formula of 50% Operating Safe Yield (OSY) and 50% physical production numbers from FY 2016/17.

The Non-Agricultural Pool had a Special Assessment of \$60,000 as approved during a Confidential Session on April 13, 2017. The \$60,000 was allocated to the Non-Agricultural Pool members based upon the actual production numbers from 2016/17.

For this fiscal year, there were no refunds due regarding the Excess Cash Reserve refunds to the Appropriative Pool members and the Non-Agricultural Pool members. The Excess Cash Reserve-Recharge Debt Payment refund of \$78,397 was refunded to the Appropriative Pool members based upon the pro rata share of FY 2016/17 Recharge Debt Assessments paid. The refunds were applied as credits on the Assessment invoices and allocated based upon last year's percentage of assessments paid.

Also please note that the Recharge Improvement Project budget of \$2,839,000 was not part of the assessment invoicing. Watermaster did not invoice for the recharge improvement project assessment of \$2,839,000 at this time, because it appears there is a good probability that State Revolving Fund loan monies would be made available before the money was spent by IEUA. In case there is need to pay IEUA for project expenses before loans are secured, a special assessment would be recommended.

September 2017:

The Assessment Year 2017-2018 Package (Production Year 2016-2017) is scheduled for presentation to the Appropriative Pool and Non-Agricultural Pool at the November 9, 2017 meetings; the Agricultural Pool on November 13, 2017; and approval by the Advisory Committee and adoption by the Watermaster Board at the November 16, 2017 meetings.

Once the Watermaster Board adopts the Assessment Package, Watermaster staff intends to create and email the Assessment invoices on Friday, November 17, 2017. The Assessment invoices are due 30 days from invoice date, with all payments to be received by Watermaster on or before the close of business Monday, December 18, 2017. As in prior years, payments can be made by either check or wire transfer

ATTACHMENTS

1. Financial Report - B5

	1/12th (8.33%) of the Total Budget				6/12th (50.00%) of the Total Budget				100% of the Total Budget			
	For The Month of December 2017				Year-To-Date as of December 31, 2017				Fiscal Year End as of June 30, 2018			
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
Income												
4010 · Local Agency Subsidies	0.00	0.00	0.00	0.0%	193,621.82	191,626.00	1,995.82	101.04%	193,621.82	191,626.00	1,995.82	101.04%
4110 · Admin Asmnts-Approp Pool	0.00	0.00	0.00	0.0%	8,407,583.88	11,279,242.00	-2,871,658.12	74.54%	8,407,538.88	11,279,242.00	-2,871,703.12	74.54%
4120 · Admin Asmnts-Non-Agri Pool	0.00	0.00	0.00	0.0%	360,242.82	327,924.00	32,318.82	109.86%	360,242.82	327,924.00	32,318.82	109.86%
4700 · Non Operating Revenues	26,334.80	7,981.00	18,353.80	329.97%	51,479.72	15,962.00	35,517.72	322.51%	102,972.54	39,906.00	63,066.54	258.04%
4900 · Miscellaneous Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Income	26,334.80	7,981.00	18,353.80	329.97%	9,012,928.24	11,814,754.00	-2,801,825.76	76.29%	9,064,376.06	11,838,698.00	-2,774,321.94	76.57%
Gross Profit	26,334.80	7,981.00	18,353.80	329.97%	9,012,928.24	11,814,754.00	-2,801,825.76	76.29%	9,064,376.06	11,838,698.00	-2,774,321.94	76.57%
Expense												
6010 · Admin. Salary/Benefit Costs	129,889.33	82,153.00	47,736.33	158.11%	574,843.24	510,781.00	64,062.24	112.54%	1,149,686.48	1,022,564.00	127,122.48	112.43%
6020 · Office Building Expense	8,322.53	9,774.00	-1,451.47	85.15%	50,365.60	57,420.00	-7,054.40	87.71%	102,731.20	112,914.00	-10,182.80	90.98%
6030 · Office Supplies & Equip.	1,224.09	2,375.00	-1,150.91	51.54%	9,190.59	13,250.00	-4,059.41	69.36%	23,381.18	26,500.00	-3,118.82	88.23%
6040 · Postage & Printing Costs	3,165.59	3,804.00	-638.41	83.22%	18,323.29	22,496.00	-4,172.71	81.45%	44,646.58	50,193.00	-5,546.42	88.95%
6050 · Information Services	15,383.14	14,291.00	1,092.14	107.64%	69,567.38	72,706.00	-3,138.62	95.68%	141,134.76	142,912.00	-1,777.24	98.76%
6060 · Contract Services	9,716.67	12,800.00	-3,083.33	75.91%	41,831.86	44,800.00	-2,968.14	93.38%	61,831.86	65,000.00	-3,168.14	95.13%
6070 · Watermaster Legal Services	17,785.50	13,854.00	3,931.50	128.38%	164,439.22	98,125.00	66,314.22	167.58%	298,878.44	176,075.00	122,803.44	169.75%
6080 · Insurance	0.00	0.00	0.00	0.0%	26,412.35	29,768.00	-3,355.65	88.73%	29,237.05	29,768.00	-530.95	98.22%
6110 · Dues and Subscriptions	0.00	380.00	-380.00	0.0%	19,824.72	22,155.00	-2,330.28	89.48%	22,824.72	23,385.00	-560.28	97.6%
6140 · WM Admin Expenses	370.45	550.00	-179.55	67.36%	1,156.66	1,600.00	-443.34	72.29%	2,313.32	2,350.00	-36.68	98.44%
6150 · Field Supplies	0.00	150.00	-150.00	0.0%	0.00	700.00	-700.00	0.0%	1,300.00	1,450.00	-150.00	89.66%
6170 · Travel & Transportation	1,619.10	1,530.00	89.10	105.82%	8,829.68	47,934.00	-39,104.32	18.42%	17,659.36	57,469.00	-39,809.64	30.73%
6190 · Training, Conferences, Seminars	1,373.50	2,354.00	-980.50	58.35%	16,246.60	18,654.00	-2,407.40	87.09%	34,993.20	37,428.00	-2,434.80	93.5%
6200 · Advisory Comm - WM Board	7.82	1,995.00	-1,987.18	0.39%	12,730.03	21,103.00	-8,372.97	60.32%	33,460.06	43,908.00	-10,447.94	76.21%
6300 · Watermaster Board Expenses	1,440.47	6,183.00	-4,742.53	23.3%	65,913.37	71,932.00	-6,018.63	91.63%	166,826.74	175,546.00	-8,719.26	95.03%
8300 · Appr Pl-WM & Pool Admin	7,239.17	8,983.00	-1,743.83	80.59%	59,945.84	67,546.00	-7,600.16	88.75%	131,891.68	137,642.00	-5,750.32	95.82%
8400 · Agri Pool-WM & Pool Admin	494.64	2,636.00	-2,141.36	18.77%	17,471.66	29,177.00	-11,705.34	59.88%	54,943.32	60,903.00	-5,959.68	90.21%
8467 · Ag Legal & Technical Services	6,600.00	17,083.00	-10,483.00	38.64%	144,720.00	102,500.00	42,220.00	141.19%	289,440.00	205,000.00	84,440.00	141.19%
8470 · Ag Meeting Attend -Special	0.00	1,850.00	-1,850.00	0.0%	5,225.00	11,100.00	-5,875.00	47.07%	16,450.00	22,200.00	-5,750.00	74.1%
8471 · Ag Pool Expense	0.00	0.00	0.00	0.0%	11,153.00	42,500.00	-31,347.00	26.24%	42,306.00	85,000.00	-42,694.00	49.77%
8485 · Ag Pool - Misc. Exp. - Ag Fund	0.00	0.00	0.00	0.0%	57.02	200.00	-142.98	28.51%	271.06	400.00	-128.94	67.77%
8500 · Non-Ag Pl-WM & Pool Admin	3,059.54	6,655.00	-3,595.46	45.97%	39,179.03	52,978.00	-13,798.97	73.95%	93,358.06	108,507.00	-15,148.94	86.04%
9400 · Depreciation 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%
9500 · Allocated G&A Expenditures	-11,106.20	-33,634.00	22,527.80	33.02%	-79,261.17	-201,807.00	122,545.83	39.28%	-188,522.34	-403,615.00	215,092.66	46.71%
6900 · Optimum Basin Mgmt Plan	64,342.33	106,837.67	-42,495.34	60.22%	544,420.52	656,692.00	-112,271.48	82.9%	1,263,841.04	1,284,844.00	-21,002.96	98.37%
9501 · G&A Expenses Allocated-OBMP	2,062.22	7,025.00	-4,962.78	29.36%	14,871.85	42,149.00	-27,277.15	35.28%	44,743.70	84,298.00	-39,554.30	53.08%
7101 · Production Monitoring	3,294.16	4,423.00	-1,128.84	74.48%	24,260.66	27,371.00	-3,110.34	88.64%	51,521.32	54,742.00	-3,220.68	94.12%
7102 · In-line Meter Installation	0.00	7,159.00	-7,159.00	0.0%	0.00	34,036.00	-34,036.00	0.0%	25,506.67	68,072.00	-42,565.33	37.47%
7103 · Grdwtr Quality Monitoring	25,899.76	26,899.00	-999.24	96.29%	153,168.11	162,249.00	-9,080.89	94.4%	237,336.22	239,388.00	-2,051.78	99.14%
7104 · Gdwtr Level Monitoring	45,487.80	22,867.00	22,620.80	198.92%	148,294.07	137,815.00	10,479.07	107.6%	274,588.14	275,631.00	-1,042.86	99.62%
7105 · Sur Wtr Qual Monitoring	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
7106 · Wtr Level Sensors Installation	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
7107 · Ground Level Monitoring	17,087.74	16,676.00	411.74	102.47%	56,821.47	188,255.00	-131,433.53	30.18%	313,642.94	331,612.00	-17,969.06	94.58%

	1/12th (8.33%) of the Total Budget				6/12th (50.00%) of the Total Budget				100% of the Total Budget			
	For The Month of December 2017				Year-To-Date as of December 31, 2017				Fiscal Year End as of June 30, 2018			
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
7108 - Hydraulic Control Monitoring	7,641.00	16,568.00	-8,927.00	46.12%	52,755.72	105,549.00	-52,793.28	49.98%	180,511.44	205,098.00	-24,586.56	88.01%
7109 - Recharge & Well Monitoring Prog	0.00	1,948.00	-1,948.00	0.0%	8,868.80	11,689.00	-2,820.20	75.87%	20,737.60	23,377.00	-2,639.40	88.71%
7200 - PE2- Comp Recharge Pgm	5,449.74	21,336.00	-15,886.26	25.54%	629,542.92	739,170.86	-109,627.94	85.17%	1,294,085.84	1,397,464.86	-103,379.02	92.6%
7300 - PE3&5-Water Supply/Desalte	0.00	2,680.00	-2,680.00	0.0%	0.00	16,328.00	-16,328.00	0.0%	25,000.00	32,657.00	-7,657.00	76.55%
7400 - PE4- Mgmt Plan	13,224.21	138,548.00	-125,323.79	9.55%	146,084.48	973,645.00	-827,560.52	15.0%	1,792,168.96	1,805,080.00	-12,911.04	99.29%
7500 - PE6&7-CoopEfforts/SaltMgmt	-53,970.20	16,391.00	-70,361.20	-329.27%	107,813.91	111,508.00	-3,694.09	96.69%	214,127.82	215,016.00	-888.18	99.59%
7600 - PE8&9-StorageMgmt/Conj Use	49,696.50	3,878.00	45,818.50	1,281.5%	310,895.09	206,209.00	104,686.09	150.77%	485,895.09	230,213.00	255,682.09	211.06%
7690 - Recharge Improvement Debt Pymt	0.00	0.00	0.00	0.0%	774,926.93	7,207,668.38	-6,432,741.45	10.75%	4,368,668.38	7,207,668.38	-2,839,000.00	60.61%
7700 - Inactive Well Protection Prgm	0.00	42.00	-42.00	0.0%	0.00	250.00	-250.00	0.0%	350.00	500.00	-150.00	70.0%
9502 - G&A Expenses Allocated-Projects	9,043.98	26,610.00	-17,566.02	33.99%	64,389.32	159,658.00	-95,268.68	40.33%	143,778.64	319,317.00	-175,538.36	45.03%
Total Expense	385,844.58	575,653.67	-189,809.09	67.03%	4,315,278.82	11,917,860.24	-7,602,581.42	36.21%	13,307,546.53	15,958,477.24	-2,650,930.71	83.39%
Net Ordinary Income	-359,509.78	-567,672.67	208,162.89	63.33%	4,697,649.42	-103,106.24	4,800,755.66	-4,566.13%	-4,243,170.47	-4,119,779.24	-123,391.23	103.0%
Other Income												
4210 - Approp Pool-Replenishment	119,043.49	0.00	119,043.49	100.0%	851,066.34	0.00	851,066.34	100.0%	851,066.34	0.00	851,066.34	100.0%
4220 - Non-Ag Pool-Replenishment	0.00	0.00	0.00	0.0%	7,451.38	0.00	7,451.38	100.0%	7,451.38	0.00	7,451.38	100.0%
4225 - Interest Income	792.22	0.00	792.22	100.0%	792.22	0.00	792.22	100.0%	2,384.44	0.00	2,384.44	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%
4600 - 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%
Total Other Income	119,835.71	0.00	119,835.71	100.0%	859,309.94	0.00	859,309.94	100.0%	860,902.16	0.00	860,902.16	100.0%
Other Expense												
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%	78,397.00	0.00	78,397.00	100.0%	78,397.00	0.00	78,397.00	100.0%
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%
Total Other Expense	0.00	0.00	0.00	0.0%	78,397.00	0.00	78,397.00	100.0%	78,397.00	0.00	78,397.00	100.0%
Net Other Income	119,835.71	0.00	119,835.71	100.0%	780,912.94	0.00	780,912.94	100.0%	782,505.16	0.00	782,505.16	100.0%
Net Income	-239,674.07	-567,672.67	327,998.60	42.22%	5,478,562.36	-103,106.24	5,581,668.60	-5,313.51%	-3,460,665.31	-4,119,779.24	659,113.93	84.0%

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

CHINO BASIN WATERMASTER

- I. CONSENT CALENDAR**
- C. WATER TRANSACTIONS**



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: February 22, 2018
TO: Watermaster Board Members
SUBJECT: Summary and Analysis of Application for Water Transaction
(Consent Calendar Item I.C.)

SUMMARY

Issue: Notice of Sale or Transfer – The permanent transfer of 55.239 acre-feet of Safe Yield rights, 55.239 acre-feet of Excess Carryover, and 388.081 acre-feet of stored water from Ameron International Corporation to City of Ontario (Non-Ag).

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.

Financial Impact: None

Future Consideration

Watermaster Board – February 22, 2018: Approve the proposed transaction as presented.

ACTIONS:

Appropriative Pool – January 11, 2018: Unanimously recommended to Advisory Committee to recommend to the Watermaster Board to approve.

Non-Agricultural Pool – January 11, 2018: Unanimously recommended Pool representatives to support at the Advisory Committee and Board meetings subject to changes which they deem appropriate.

Agricultural Pool – January 11, 2018: Unanimously recommended to Advisory Committee to recommend to the Watermaster Board to approve.

Advisory Committee – February 15, 2018: Unanimously approved.

Watermaster Board – February 22, 2018:

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 date of this application is October 31, 2017. Notice of the transaction was transmitted electronically and mailed on January 5, 2018, 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.

All three Pool Committees unanimously recommended Advisory Committee approval at their January 18, 2018 meetings. The Advisory Committee unanimously approved the transaction at the February 15, 2018 meeting.

ATTACHMENTS

1. Consolidated Forms 3, 4 & 5
2. Notice Forms

ATTACHMENT 1

Consolidated Forms 3, 4 & 5

**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 2017 - 2018

DATE REQUESTED: 10/31/2017

AMOUNT REQUESTED: _____ Acre-Feet
 55.239 af Safe Yield rights, 55.239 af
 Carry Over, 388.081 af Stored Water

TRANSFER FROM (SELLER / TRANSFEROR):	TRANSFER TO (BUYER / TRANSFEREE):
<u>Ameron International Corporation</u> Name of Party	<u>City of Ontario (Non-Ag)</u> Name of Party
<u>7909 Parkwood Circle Drive</u> Street Address	<u>1425 S. Bon View Avenue</u> Street Address
<u>Houston TX 77036</u> City State Zip Code	<u>Ontario CA 91761</u> City State Zip Code
<u>713 375-3829</u> Telephone	<u>(909) 395-2694</u> Telephone
Facsimile	<u>(909) 395-2601</u> 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 City Desalter Replenishment Obligation

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 Stored water, Carry Over, and PERMANENT transfer of Safe Yield

WATER IS TO BE TRANSFERRED TO:

- Annual Production Right / Operating Safe Yield (common)
- Storage (rare)
- Other, explain Stored water, Carry Over, and PERMANENT transfer of Safe Yield

Consolidated Forms 3, 4 & 5 cont.

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:	
<u>Varies</u>	<u>Indefinite (Permanent Transfer)</u>
Projected Rate of Recapture	Projected Duration of Recapture
METHOD OF RECAPTURE (e.g. pumping, exchange, etc.): Any usage allowed under the Judgment, Peace Agreements, and other Watermaster Guidance Documents, including but not limited to use on City property and City Desalter Replenishment Obligation	
PLACE OF USE OF WATER TO BE RECAPTURED: <u>Management Zones 2 & 3</u>	
LOCATION OF RECAPTURE FACILITIES (IF DIFFERENT FROM REGULAR PRODUCTION FACILITIES): <u>n/a</u>	

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: Water quality in the area is characterized by high nitrate, perchlorate and VOC concentrations. Water is treated or blended to meet water quality standards.

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

Static level varies from 272 feet to 524 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

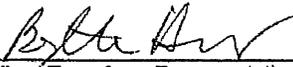
If yes, what are the proposed mitigation measures, if any, that might reasonably be imposed to ensure that the action does not result in Material Physical Injury to a party to the Judgment or the Basin?

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

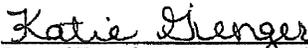
Yes No



Seller / Transferor Representative Signature

Brigitte Hunt

Seller / Transferor Representative Name (Printed)



Buyer / Transferee Representative Signature

Katie Glenger, Water Resources Manager

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:

January 5, 2018

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.

TRANSFER OF WATER

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: **October 31, 2017** Date of this notice: **January 5, 2018**

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

- Notice of Sale or Transfer – The permanent transfer of 55.239 acre-feet of Safe Yield rights, 55.239 acre-feet of Excess Carryover, and 388.081 acre-feet of stored water from Ameron International Corporation to City of Ontario (Non-Ag).

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

Appropriative Pool:	January 11, 2018
Non-Agricultural Pool:	January 11, 2018
Agricultural Pool:	January 11, 2018

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, as *Contests* must be submitted a minimum of fourteen (14) days prior to the Advisory Committee's consideration of an *Application*, 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

IV. INFORMATION

1. Cash Disbursements for January 2018

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
January 2018

For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	01/03/2018	ACH 010318	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
Bill	12/14/2017	1394905143		1394905143	60182.1 · Medical Insurance	8,440.38
TOTAL						8,440.38
Bill Pmt -Check	01/04/2018	ACH 010418	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	12/30/2017	12/30/2017	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement For 12/17/17-12/30/17	2000 · Accounts Payable	6,560.22
TOTAL						6,560.22
Bill Pmt -Check	01/03/2018	20566	SIGNARAMA ONTARIO		1012 · Bank of America Gen'l Ckg	
Bill	01/03/2018			Watermaster decals for new F-150 truck	6031.7 · Other Office Supplies	140.76
TOTAL						140.76
Bill Pmt -Check	01/04/2018	20567	ACCENT COMPUTER SOLUTIONS, INC.		1012 · Bank of America Gen'l Ckg	
Bill	01/01/2018			Monthly billing for January 2018	6052.4 · IT Managed Services	3,883.00
TOTAL						3,883.00
Bill Pmt -Check	01/04/2018	20568	APPLIED COMPUTER TECHNOLOGIES	2943	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	2943		Database Consulting Services - December 2017	6052.2 · Applied Computer Technol	3,314.20
TOTAL						3,314.20
Bill Pmt -Check	01/04/2018	20569	CASTRO, LINDY	12/15/17 Hearing Transcript	1012 · Bank of America Gen'l Ckg	
Bill	12/15/2017			12/15/17 Hearing Transcript	6046 · Legal Publications/Services	105.00
TOTAL						105.00
Bill Pmt -Check	01/04/2018	20570	EUROFINS EATON ANALYTICAL		1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	L0363723		L0363723	7103.5 · Grdwtr Qual-Lab Svcs	2,014.00
Bill	12/31/2017	L0364251		L0364251	7103.5 · Grdwtr Qual-Lab Svcs	1,974.00
Bill	12/31/2017	L0364276		L0364276	7103.5 · Grdwtr Qual-Lab Svcs	758.00
Bill	12/31/2017	L0364799		L0364799	7103.5 · Grdwtr Qual-Lab Svcs	758.00
Bill	12/31/2017	L0364801		L0364801	7103.5 · Grdwtr Qual-Lab Svcs	848.00
Bill	12/31/2017	L0363944		L0363944	7103.5 · Grdwtr Qual-Lab Svcs	966.00
Bill	12/31/2017	L0364802		L0364802	7103.5 · Grdwtr Qual-Lab Svcs	483.00
TOTAL						7,801.00
Bill Pmt -Check	01/04/2018	20571	IPSWITCH, INC.	IN611026	1012 · Bank of America Gen'l Ckg	
Bill	12/20/2017	IN611026		1 year support-WS_FTP server 68RH425C3H136\	6055 · Computer Hardware	297.00
				1 year support-WS_FTP server 740F5EFCRIE105\	6055 · Computer Hardware	297.00
TOTAL						594.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
January 2018

For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	01/04/2018	20572	LEGAL SHIELD	0111802	1012 · Bank of America Gen'l Ckg	
Bill	12/19/2017	0111802		Employee deductions - December 2017	60194 · Other Employee Insurance	79.70
TOTAL						79.70
Bill Pmt -Check	01/04/2018	20573	LEVEL 3 COMMUNICATIONS	64469733	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	64469733		12/17/17-1/16/18	6053 · Internet Expense	1,050.32
TOTAL						1,050.32
Bill Pmt -Check	01/04/2018	20574	PAYCHEX	2017122800	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	2017122800		December 2017	6012 · Payroll Services	454.85
TOTAL						454.85
Bill Pmt -Check	01/04/2018	20575	PHILADELPHIA INSURANCE COMPANY	Account Number 04027609052	1012 · Bank of America Gen'l Ckg	
Bill	01/02/2018			Premium for new 2018 F-150	6085 · Business Insurance Package	731.76
TOTAL						731.76
Bill Pmt -Check	01/04/2018	20576	PITNEY BOWES CREDIT CORPORATION	3101838949	1012 · Bank of America Gen'l Ckg	
Bill	12/21/2017	3101838949		Postage meter lease property tax	6043.3 · Ricoh Property Tax Fees	6.91
TOTAL						6.91
Bill Pmt -Check	01/04/2018	20577	PREMIERE GLOBAL SERVICES	25021827	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	25021827		SGMA compliance call on 11/28	6909.1 · OBMP Meetings	65.21
				Appropriative Pool call on 12/20	8312 · Meeting Expenses	11.61
				Fee - General	6022 · Telephone	49.00
				Fee - Confidential	6022 · Telephone	49.00
				WM coordination call on 12/11	6909.1 · OBMP Meetings	10.99
				Service fee	6022 · Telephone	7.24
TOTAL						193.05
Bill Pmt -Check	01/04/2018	20578	PURCHASE POWER	8000-9090-0016-8851	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	8000909000168851		Postage refill - 11/30/17	6042 · Postage - General	500.00
TOTAL						500.00
Bill Pmt -Check	01/04/2018	20579	RAUCH COMMUNICATION CONSULTANTS, LLC	Dec-1703	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	Dec-1703		AR40 - November 2017	6061.3 · Rauch	2,016.25
TOTAL						2,016.25
Bill Pmt -Check	01/04/2018	20580	RON SHELLEY'S AUTOMOTIVE	10033	1012 · Bank of America Gen'l Ckg	
Bill	12/18/2017	10033		Maintenance for 2003 F-150	6177 · Vehicle Repairs & Maintenance	340.21
TOTAL						340.21

**CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
January 2018**

For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	01/04/2018	20581	RR FRANCHISING, INC.	49843	1012 · Bank of America Gen'l Ckg	
Bill	01/02/2018	49843		Monthly service January 2018	6024 · Building Repair & Maintenance	740.00
TOTAL						<u>740.00</u>
Bill Pmt -Check	01/04/2018	20582	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	765.80
TOTAL						<u>765.80</u>
Bill Pmt -Check	01/04/2018	20583	STATE COMPENSATION INSURANCE FUND	1970970-17	1012 · Bank of America Gen'l Ckg	
Bill	01/01/2018	1970970-17		Monthly premium 12/26/17-1/26/18	60183 · Worker's Comp Insurance	520.50
TOTAL						<u>520.50</u>
Bill Pmt -Check	01/04/2018	20584	VERIZON WIRELESS	9797999909	1012 · Bank of America Gen'l Ckg	
Bill	12/20/2017	9797999909		Acct #648073270-00001	7103.7 · Grdwtr Qual-Computer Svc	100.06
TOTAL						<u>100.06</u>
Bill Pmt -Check	01/04/2018	20585	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	001017890001		Vision Insurance Premium - January 2018	60182.2 · Dental & Vision Ins	88.20
TOTAL						<u>88.20</u>
Bill Pmt -Check	01/04/2018	20586	YUKON DISPOSAL SERVICE	08-K2 213849	1012 · Bank of America Gen'l Ckg	
Bill	01/02/2018	08-k2 213849		January 2018	6024 · Building Repair & Maintenance	117.14
TOTAL						<u>117.14</u>
General Journal	01/13/2018	03/13/2018	Payroll and Taxes for 12/31/17-01/13/18	Payroll and Taxes for 12/31/17-01/13/18	1012 · Bank of America Gen'l Ckg	
				Direct Deposits for 12/31/17-01/13/18	1012 · Bank of America Gen'l Ckg	26,380.12
				Payroll Taxes for 12/31/17-01/13/18	1012 · Bank of America Gen'l Ckg	9,575.84
			ICMA-RC	457(b) Employee Deductions for 12/31/17-01/13/18	1012 · Bank of America Gen'l Ckg	4,738.05
			ICMA-RC	401(a) Employee Deductions for 12/31/17-01/13/18	1012 · Bank of America Gen'l Ckg	1,303.27
TOTAL						<u>41,997.28</u>
Bill Pmt -Check	01/18/2018	20587	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	7076224530355049		December 2017	6175 · Vehicle Fuel	153.70
TOTAL						<u>153.70</u>
Bill Pmt -Check	01/19/2018	ACH 011918	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	01/13/2018	01/13/2018	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 12/31/17-01/13/18	2000 · Accounts Payable	6,725.08
TOTAL						<u>6,725.08</u>

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
January 2018

For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	01/22/2018	20588	ACWA JOINT POWERS INSURANCE AUTHORIT	0528647	1012 · Bank of America Gen'l Ckg	
Bill	01/12/2018	0528647		Prepayment - February 2018 January 2018	1409 · Prepaid Life, BAD&D & LTD 60191 · Life & Disab.Ins Benefits	154.21 154.20
TOTAL						308.41
Bill Pmt -Check	01/22/2018	20589	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	XXXX-XXXX-XXXX-9341		Holiday luncheon for staff Quickbooks software annual update Miscellaneous office supplies Flowers for Board member S. Elie Lunch-12/20/17 Special Appropriative Pool mtg. PK meeting w/C. Berch, M. Norton, R. Haller	6141.3 · Admin Meetings 6054 · Computer Software 6031.7 · Other Office Supplies 6312 · Meeting Expenses 8312 · Meeting Expenses 8312 · Meeting Expenses	311.63 1,925.43 422.23 60.76 82.22 58.87
TOTAL						2,861.14
Bill Pmt -Check	01/22/2018	20590	CASTRO, LINDY	1/12/18 Hearing Transcript	1012 · Bank of America Gen'l Ckg	
Bill	01/12/2018			1/12/2018 Hearing Transcript	6046 · Legal Publications/Services	60.00
TOTAL						60.00
Bill Pmt -Check	01/22/2018	20591	CORELOGIC INFORMATION SOLUTIONS	81860128	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	81860128		81860128 81860128	7103.7 · Grdwtr Qual-Computer Svc 7101.4 · Prod Monitor-Computer	62.50 62.50
TOTAL						125.00
Bill Pmt -Check	01/22/2018	20592	CUCAMONGA VALLEY WATER DISTRICT		1012 · Bank of America Gen'l Ckg	
Bill	01/16/2018			Office lease due February 1, 2018	1422 · Prepaid Rent	6,608.80
TOTAL						6,608.80
Bill Pmt -Check	01/22/2018	20593	EGOSCUE LAW GROUP	11829	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	11829		Ag Pool Legal Services - December 2017	8467 · Ag Legal & Technical Services	6,600.00
TOTAL						6,600.00
Bill Pmt -Check	01/22/2018	20594	EUROFINS EATON ANALYTICAL		1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	L0365254		L0365254	7103.5 · Grdwtr Qual-Lab Svcs	628.00
Bill	12/31/2017	L0365255		L0365255	7103.5 · Grdwtr Qual-Lab Svcs	758.00
Bill	12/31/2017	L0366653		L0366653	7103.5 · Grdwtr Qual-Lab Svcs	848.00
Bill	12/31/2017	L0366218		L0366218	7103.5 · Grdwtr Qual-Lab Svcs	628.00
Bill	12/31/2017	L0356666		L0356666	7103.5 · Grdwtr Qual-Lab Svcs	1,869.00
Bill	12/31/2017	L0363945		L0363945	7108.41 · Hydraulic Control - PBHSP	992.00
Bill	12/31/2017	L0364252		L0364252	7108.41 · Hydraulic Control - PBHSP	1,240.00
Bill	12/31/2017	L0366650		L0366650	7108.41 · Hydraulic Control - PBHSP	1,240.00

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CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
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For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	12/31/2017	L0366651		L0366651	7108.41 · Hydraulic Control - PBHSP	992.00
TOTAL						9,195.00
Bill Pmt -Check	01/22/2018	20595	FIRST LEGAL NETWORK LLC	40014499	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	40014499		Filings on 12/01/17, 12/15/17	6061.5 · Court Filing Services	200.42
TOTAL						200.42
Bill Pmt -Check	01/22/2018	20596	FRONTIER COMMUNICATIONS	909-484-3890-050914-5	1012 · Bank of America Gen'l Ckg	
Bill	01/16/2018	90948438900503145		Office fax	6022 · Telephone	143.76
TOTAL						143.76
Bill Pmt -Check	01/22/2018	20597	GREAT AMERICA LEASING CORP.	2983599	1012 · Bank of America Gen'l Ckg	
Bill	01/17/2018	21983599		Invoice for January 2018	6043.1 · Ricoh Lease Fee	2,605.07
TOTAL						2,605.07
Bill Pmt -Check	01/22/2018	20598	HR DIRECT / GNEIL	INV6004786	1012 · Bank of America Gen'l Ckg	
Bill	01/12/2018	INV6004786		Poster guard protection for Federal HR Posters	6031.7 · Other Office Supplies	94.81
TOTAL						94.81
Bill Pmt -Check	01/22/2018	20599	JOHN J. SCHATZ	Appropriative Pool Legal Services	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017			November 2017	8367 · Legal Service	2,640.00
Bill	12/31/2017			December 2017	8367 · Legal Service	3,184.00
TOTAL						5,824.00
Bill Pmt -Check	01/22/2018	20600	LEGAL SHIELD	0111802	1012 · Bank of America Gen'l Ckg	
Bill	01/16/2018	0111802		Employee deductions - January 2018	60194 · Other Employee Insurance	79.70
TOTAL						79.70
Bill Pmt -Check	01/22/2018	20601	LOEB & LOEB LLP	1753895	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	1753895		Non-Ag Pool Legal Services - December 2017	8567 · Non-Ag Legal Service	2,479.50
TOTAL						2,479.50
Bill Pmt -Check	01/22/2018	20602	MINDSHIFT	Final Service Billings	1012 · Bank of America Gen'l Ckg	
Bill	01/15/2018	0261963		Backup & Recovery - January 2018	6052.5 · IT Data Backup/Storage	792.00
Bill	01/15/2018	0262488		January - IT Managed Services @ 50%	6052.4 · IT Managed Services	1,885.00
				February - IT Managed Services @ 50%-19 days	6052.4 · IT Managed Services	1,193.77
				February - Backup Services @ 50%-19 days	6052.5 · IT Data Backup/Storage	220.80
TOTAL						4,091.57
Bill Pmt -Check	01/22/2018	20603	PITNEY BOWES CREDIT CORPORATION	3101865802	1012 · Bank of America Gen'l Ckg	

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CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
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For Informational Purposes Only

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
Bill	01/10/2018	3101865802		Postage meter lease	6044 · Postage Meter Lease	401.91
TOTAL						<u>401.91</u>
Bill Pmt -Check	01/22/2018	20604	R&D PEST SERVICES	0224058	1012 · Bank of America Gen'l Ckg	
Bill	01/15/2018	0224058		Pest control - inside/outside office building	6024 · Building Repair & Maintenance	100.00
TOTAL						<u>100.00</u>
Bill Pmt -Check	01/22/2018	20605	READY REFRESH BY NESTLE	0023230253	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	0023230253		Office Water Bottle - December 2017	6031.7 · Other Office Supplies	127.14
TOTAL						<u>127.14</u>
Bill Pmt -Check	01/22/2018	20606	SIGNARAMA ONTARIO		1012 · Bank of America Gen'l Ckg	
Bill	01/10/2018			Install office hour decals-front office door	6031.7 · Other Office Supplies	99.99
TOTAL						<u>99.99</u>
Bill Pmt -Check	01/22/2018	20607	SKILLPATH SEMINARS	STAR 12 All Access Pass	1012 · Bank of America Gen'l Ckg	
Bill	01/10/2018			STAR12 All Access Passes for AT, JW, CG	6192 · Seminars - General	897.00
TOTAL						<u>897.00</u>
Bill Pmt -Check	01/22/2018	20608	STAPLES BUSINESS ADVANTAGE	8047913203	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	8047913203		Miscellaneous office supplies	6031.7 · Other Office Supplies	69.61
TOTAL						<u>69.61</u>
Bill Pmt -Check	01/22/2018	20609	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2018			Retiree Medical	60182.4 · Retiree Medical	25.17
TOTAL						<u>25.17</u>
Bill Pmt -Check	01/22/2018	20610	TRUONG, ANNA	Notary	1012 · Bank of America Gen'l Ckg	
Bill	01/15/2018			Reimburse for Notary Recertification	6192 · Seminars - General	107.89
TOTAL						<u>107.89</u>
Bill Pmt -Check	01/22/2018	20611	UNITED HEALTHCARE	0044881867	1012 · Bank of America Gen'l Ckg	
Bill	01/15/2018	0044881867		Dental Insurance Premium - February 2018	60182.2 · Dental & Vision Ins	749.75
TOTAL						<u>749.75</u>
Bill Pmt -Check	01/22/2018	20612	VERIZON WIRELESS	9799279497	1012 · Bank of America Gen'l Ckg	
Bill	01/12/2018	9799279497		Acct #470810953-00001	6022 · Telephone	337.42
TOTAL						<u>337.42</u>
Bill Pmt -Check	01/22/2018	20613	ZAPIEN, ENRIQUE	Mileage Reimbursement	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	12/31/2017			Mileage reimbursement-water quality samples	6173 · Airfare/Mileage	125.19
TOTAL						125.19
Bill Pmt -Check	01/22/2018	20614	WILDERMUTH ENVIRONMENTAL INC		1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	2017406		2017406	6906.32 · OBMP-Other General Meetings	3,231.73
Bill	12/31/2017	2017407		2017407	6906.71 · OBMP-Data Req.-CBWM Staff	19,331.00
Bill	12/31/2017	2017408		2017408	6906.72 · OBMP-Data Req.-Non CBWM Staff	4,404.25
Bill	12/31/2017	2017409		2017409	6906.23 · SGMA Reporting Requirements	8,729.75
Bill	12/31/2017	2017410		2017410	6906 · OBMP Engineering Services	2,065.30
Bill	12/31/2017	2017411		2017411	6906.9 · OBMP-2018 RMPU Master Update	2,656.50
Bill	12/31/2017	2017412		2017412	6906.81 · Prepare Annual Reports	1,604.60
Bill	12/31/2017	2017413		2017413	7103.3 · Grdwtr Qual-Engineering	9,206.57
Bill	12/31/2017	2017414		2017414	7104.3 · Grdwtr Level-Engineering	42,672.97
Bill	12/31/2017	2017415		2017415	7107.2 · Grd Level-Engineering	629.84
				WSP USA Inc.	7107.6 · Grd Level-Contract Svcs	16,457.90
Bill	12/31/2017	2017416		2017416	7108.31 · Hydraulic Control - PBHSP	6,354.00
Bill	12/31/2017	2017417		2017417	7202.2 · Engineering Svc	2,363.76
Bill	12/31/2017	2017418		2017418	7402 · PE4-Engineering	1,105.50
Bill	12/31/2017	2017419		2017419	7402.10 · PE4 - Northwest MZ1 Area Proj.	12,118.71
Bill	12/31/2017	2017420		2017420	7502 · PE6&7-Engineering	24,006.00
Bill	12/31/2017	2017421		2017421	7510 · PE6&7-IEUA Salinity Mgmt. Plan	12,752.64
Bill	12/31/2017	2017422		2017422	7602 · PE8&9-Engineering	49,696.50
TOTAL						219,387.52
Bill Pmt -Check	01/24/2018	ACH 012418	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
Bill	01/01/2018	15156337		Annual Unfunded Accrued Liability	60180 · Employers PERS Expense	4,348.52
TOTAL						4,348.52
Bill Pmt -Check	01/26/2018	20615	ACCENT COMPUTER SOLUTIONS, INC.	119647	1012 · Bank of America Gen'l Ckg	
Bill	02/01/2018	119647		Monthly billing for February 2018	6052.4 · IT Managed Services	4,128.00
TOTAL						4,128.00
Bill Pmt -Check	01/26/2018	20616	BROWNSTEIN HYATT FARBER SCHRECK		1012 · Bank of America Gen'l Ckg	
Bill	12/31/2017	707924		707924	6078 · BHFS Legal - Miscellaneous	11,550.60
				NRG BK	6078 · BHFS Legal - Miscellaneous	1,247.40
				Mileage/Parking Expense	6078 · BHFS Legal - Miscellaneous	36.10
Bill	12/31/2017	707925		707925	6073 · BHFS Legal - Personnel Matters	596.25
Bill	12/31/2017	707926		707926	6907.34 · Santa Ana River Water Rights	4,172.40
Bill	12/31/2017	707927		707927	6907.36 · Santa Ana River Habitat	1,111.95
Bill	12/31/2017	707928		707928	8375 · BHFS Legal - Appropriative Pool	153.00

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CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
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For Informational Purposes Only

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
Bill	12/31/2017	707929		707929	8475 · BHFS Legal - Agricultural Pool	153.00
Bill	12/31/2017	707930		707930	8575 · BHFS Legal - Non-Ag Pool	153.00
Bill	12/31/2017	707931		707931	6071 · BHFS Legal - Court Coordination	3,426.30
				Research-Lexis	6071 · BHFS Legal - Court Coordination	66.36
				Mileage/Parking Expense	6071 · BHFS Legal - Court Coordination	55.19
Bill	12/31/2017	707932		707932	6077 · BHFS Legal - Party Status Maint	807.30
Bill	12/31/2017	707933		707933	6907.38 · Reg. Water Quality Cntrl Board	1,822.95
Bill	12/31/2017	707934		707934	6907.40 · Storage Agreements	2,548.80
				Mileage/Parking Expense	6907.40 · Storage Agreements	35.88
Bill	12/31/2017	707935		707935	6907.42 · Safe Yield Recalculation	7,058.25
				Delivery/Ground Transportation	6907.42 · Safe Yield Recalculation	150.00
Bill	12/31/2017	707936		707936	6907.44 · SGMA Compliance	2,232.00
TOTAL						37,376.73
Bill Pmt -Check	01/26/2018	20617	LEVEL 3 COMMUNICATIONS	65563678	1012 · Bank of America Gen'l Ckg	
Bill	01/23/2018	65563678		1/17/18-2/16/18	6053 · Internet Expense	1,051.70
TOTAL						1,051.70
Bill Pmt -Check	01/26/2018	20618	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
Bill	01/23/2018	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	786.43
TOTAL						786.43
Bill Pmt -Check	01/26/2018	20619	VERIZON WIRELESS	9799801686	1012 · Bank of America Gen'l Ckg	
Bill	01/23/2018	9799801686		Acct #642073270-00001	7103.7 · Grdwtr Qual-Computer Svc	100.04
TOTAL						100.04
Bill Pmt -Check	01/26/2018	20620	INLAND EMPIRE UTILITIES AGENCY	90021513	1012 · Bank of America Gen'l Ckg	
Bill	01/23/2018	90021513		GW Recharge O&M Cost Reimbursement-3rd Qtr	7206 · Comp Recharge-O&M	13,358.89
TOTAL						13,358.89
					Total Disbursements:	412,275.45

CHINO BASIN WATERMASTER

IV. INFORMATION

2. Recharge Investigations and Projects Committee (RIPCom)

Recharge Investigations and Projects Committee Meeting

Agenda

When: Thursday, January 18, 2018 @ 9:30 a.m.

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

Topics:

1. Introductions
2. New/Old Projects consideration
 - a) Open forum for potential new projects – Project consideration for 2018 RMPU
3. IEUA/CBWM joint projects
 - a) Status updates
 - b) Budget updates
4. 2018 RMPU
5. RMPU Implementation updates
 - a) Sustainability projects
 - b) MS4 – (No Updates)
 - c) Contact with sand and gravel companies – (No updates)
 - d) AP New Yield and cost allocation agreement – (No updates)
 - e) Flood Control and water conservation agreement – (No Updates)
 - f) Agreement with property owners – (No updates)

Next 2018 RMPU Steering Committee Date: Thursday, February 15, 2018 @ 9:30 A.M.

Next RIPCom Meeting Date: Thursday, April 19, 2018 @ 9:30 A.M.

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Recharge Investigation and Projects Committee, PAGE 1 OF 3

	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14
Project Name (Project ID) (Cost Sharing Task Order)	IEUA Project No.	Project Cost To Date	Approved Budget	COST SHARE		BUDGET ALLOCATION			IEUA PROJECT COSTS		CBWM PROJECT COSTS			
				IEUA	CBWM	Grant Funding	IEUA	CBWM	Share on Actual Cost To Date	Remaining Balance	Share on Actual Cost To Date	Invoices Paid To Date	Remaining Balance	
Pre-RMPU Ongoing Projects														
GWR SCADA Upgrades (7690.61) (Task No. 4) ¹	EN14047.00	\$ 690,365	\$ 892,000	50%	50%	\$ 139,650	\$ 376,175	\$ 421,875	\$ 291,141	\$ 85,034	\$ 345,183	\$ 277,043	\$ 144,832	
COMMUNICATION Upgrades (7690.62) (Task No. 3)	EN12019.00	\$ 1,227,096	\$ 1,227,096	50%	50%	\$ 192,850	\$ 517,123	\$ 517,123	\$ 517,123	\$ -	\$ 517,123	\$ 526,075	\$ (8,952)	
Upper Santa Ana River HCP (7690.70) (Task No. 7)	RW15002.00	\$ 137,873	\$ 160,000	50%	50%	\$ -	\$ 80,000	\$ 80,000	\$ 68,937	\$ 11,064	\$ 68,936.50	\$ 59,937	\$ 20,063	
SUBTOTAL PRE-RMPU PROJECTS		\$ 2,055,334	\$ 2,279,096	---	---	\$ 332,500	\$ 973,298	\$ 1,018,998	\$ 877,201	\$ 96,097	\$ 931,242	\$ 863,055	\$ 155,943	
RMPU Projects														
San Sevaime Improvements PID7 (7690.40) (Task No. 8)	EN13001.00	\$ 797,507	\$ 6,460,000	50%	50%	\$ 1,125,000	\$ 2,667,500	\$ 2,667,500	\$ 329,311	\$ 2,338,189	\$ 329,311	\$ 368,410	\$ 2,299,090	
Lower Day Basin Improvement PID12 (7690.8) (Task No. 2) *	RW15004.00	\$ 319,446	\$ 4,008,000	0%	100%	\$ 1,125,000	\$ -	\$ 2,883,000	\$ -	\$ -	\$ 229,781	\$ 254,337	\$ 2,628,663	
East Declerz (7690.16) (1st Amendment - Task No. 1) *	RW15003.01	\$ 112,829	\$ 114,000	0%	100%	\$ -	\$ -	\$ 114,000	\$ -	\$ -	\$ -	\$ 112,829	\$ 1,171	
Declerz Basin PID 27 (7690.21) (Task No. 1) *	RW15003.00	\$ 6,513	\$ 105,000	0%	100%	\$ -	\$ -	\$ 105,000	\$ -	\$ -	\$ 6,513	\$ 10,432	\$ 94,568	
Turner Basins PID14 (7690.21) (Task No. 1) *	RW15003.00	\$ 2,605	\$ 42,000	0%	100%	\$ -	\$ -	\$ 42,000	\$ -	\$ -	\$ 2,605	\$ 4,173	\$ 37,827	
Ely Basin PID15a (7690.21) (Task No. 1) *	RW15003.00	\$ 14,638	\$ 236,000	0%	100%	\$ -	\$ -	\$ 236,000	\$ -	\$ -	\$ 14,638	\$ 23,447	\$ 212,553	
Victoria Basin Improvements PID11 (7690.25) (Task No. 10) *	RW15003.02	\$ 14,158	\$ 168,800	50%	50%	\$ -	\$ 84,400	\$ 84,400	\$ 5,235	\$ 79,165	\$ 5,235	\$ 8,385	\$ 76,015	
Montclair Basin Improvements PID2 (7690.26) (Task No.11) *	RW15003.03	\$ 149,975	\$ 1,788,100	0%	100%	\$ -	\$ -	\$ 1,788,100	\$ -	\$ -	\$ 110,911	\$ 177,649	\$ 1,610,451	
CSI Basin Improvements PID 18a (7690.27) (Task No. 12) *	RW15003.04	\$ 81,022	\$ 966,000	0%	100%	\$ -	\$ -	\$ 966,000	\$ -	\$ -	\$ 59,918	\$ 95,973	\$ 870,027	
RP3 Basin Improvements PID23a (7690.35) (Task No. 9) *	RW15003.05	\$ 124,696	\$ 1,486,700	50%	50%	\$ 712,070	\$ 387,315	\$ 387,315	\$ 24,024	\$ 363,291	\$ 24,024	\$ 38,480	\$ 348,835	
Wineville Basin Improvements PID23a (7690.36) (Task No. 9) *	RW15003.06	\$ 300,941	\$ 3,588,000	0%	100%	\$ 1,895,530	\$ -	\$ 1,692,470	\$ -	\$ -	\$ 104,979	\$ 168,148	\$ 1,524,322	
Jurupa Basin Improvements PID23a (7690.36) (Task No. 9) *	RW15003.06	\$ 119,437	\$ 1,424,000	0%	100%	\$ 741,730	\$ -	\$ 682,270	\$ -	\$ -	\$ 42,319	\$ 67,784	\$ 614,486	
Wineville/Jurupa Force Main PID 23a (7690.36) (Task No. 9) *	RW15003.06	\$ 837,417	\$ 9,984,200	0%	100%	\$ 5,192,120	\$ -	\$ 4,792,080	\$ -	\$ -	\$ 297,240	\$ 476,095	\$ 4,315,985	
Post 2014 Storm Water Recharge Program *		\$ 2,083,677	\$ 23,910,800			\$ 9,666,450	\$ 471,715	\$ 13,772,635	\$ 29,259	\$ 442,456	\$ 898,164	\$ 1,437,730	\$ 12,334,905	
SUBTOTAL RMPU PROJECTS	---	\$ 2,881,184	\$ 30,370,800	---	---	\$ 10,791,450	\$ 3,139,215	\$ 16,440,135	\$ 358,570	\$ 2,780,645	\$ 1,227,475	\$ 1,806,140	\$ 14,633,995	
GRAND TOTALS	---	\$ 4,936,518	\$ 32,649,896	---	---	\$ 11,123,950	\$ 4,112,513	\$ 17,459,133	\$ 1,235,771	\$ 2,876,742	\$ 2,158,717	\$ 2,669,195	\$ 14,789,938	

NOTES:

¹ 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.

Updated: 12/14/2017

Recharge Investigation and Projects Committee, PAGE 2 OF 3

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15
	CBWM Fiscal Year 2017/18										CBWM Future Years				
Project Name	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 ¹	CBWM Remaining Projected Costs	Budget Amendment Required? (Yes/No)	Projected CarryOver Funds FY 2017/18	Fiscal Year 2018/19	Fiscal Year 2019/20	Fiscal Year 2020/21	Fiscal Year 2021/22	
Pre RMPU Ongoing Projects															
GWR SCADA Upgrades (7690.61) (Task No. 4)	\$ 173,291	\$ -	\$ -	\$ 173,291	\$ 28,459	\$ 144,832	\$ -	\$ 144,832	No	\$ -	\$ -	\$ -	\$ -	\$ -	
COMMUNICATION Upgrades (7690.62) (Task No. 3)	\$ (8,952)	\$ -	\$ -	\$ (8,952)	\$ -	\$ (8,952)	\$ -	\$ (8,952)	No	\$ -	\$ -	\$ -	\$ -	\$ -	
Upper Santa Ana River HCP (7690.7) (Task No. 7)	\$ 37,837	\$ -	\$ -	\$ 37,837	\$ 17,774	\$ 20,063	\$ -	\$ 20,063	No	\$ -	\$ -	\$ -	\$ -	\$ -	
SUBTOTAL PRE-RMPU PROJECTS	\$ 202,176	\$ -	\$ -	\$ 202,176	\$ 46,233	\$ 155,943	\$ -	\$ 155,943	---	\$ -	\$ -	\$ -	\$ -	\$ -	
RMPU Projects															
San Sevaine Improvements (7690.4) (Task No. 8)	\$ 2,318,352	\$ -	\$ -	\$ 2,318,352	\$ 19,262	\$ 2,299,090	\$ -	\$ 2,299,090	No	\$ -	\$ -	\$ -	\$ -	\$ -	
Lower Day Basin Improvement Project (7690.8) (Task No. 2) *	\$ 112,642	\$ 1,026,000	\$ -	\$ 1,138,642	\$ 37,979	\$ 1,100,663	\$ -	\$ 2,628,663	Yes	\$ -	\$ 544,044	\$ 983,140	\$ 816	\$ -	
East Declez Basin (7690.18) (1st Amendment - Task No. 1) *	\$ 1,171	\$ -	\$ -	\$ 1,171	\$ -	\$ 1,171	\$ -	\$ 1,171	No	\$ -	\$ -	\$ -	\$ -	\$ -	
Declez Basin PID 27 (7690.21) (Task No. 1) *	\$ -	\$ -	\$ -	\$ -	\$ 823	\$ (823)	\$ -	\$ 94,568	Yes	\$ -	\$ -	\$ -	\$ -	\$ -	
Turner Basins PID14 (7690.21) (Task No. 1) *	\$ -	\$ -	\$ -	\$ -	\$ 329	\$ (329)	\$ -	\$ 37,827	Yes	\$ -	\$ -	\$ -	\$ -	\$ -	
Ely Basin PID15a (7690.21) (Task No. 1) *	\$ -	\$ -	\$ -	\$ -	\$ 1,849	\$ (1,849)	\$ -	\$ 212,553	Yes	\$ -	\$ -	\$ -	\$ -	\$ -	
Victoria Basin Improvements PID11 (7690.25) (Task No. 10) *	\$ -	\$ 32,500	\$ -	\$ 32,500	\$ 661	\$ 31,839	\$ -	\$ 76,015	Yes	\$ -	\$ 24,892	\$ 26,164	\$ 844	\$ -	
Montclair Basin Improvements PID2 (7690.26) (Task No.11) *	\$ -	\$ -	\$ -	\$ -	\$ 14,007	\$ (14,007)	\$ -	\$ 1,610,451	Yes	\$ -	\$ 1,052,336	\$ 554,311	\$ 17,811	\$ -	
CSI Basin Improvements PID 18a (7690.27) (Task No. 12) *	\$ -	\$ -	\$ -	\$ -	\$ 7,567	\$ (7,567)	\$ -	\$ 870,027	Yes	\$ -	\$ 568,474	\$ 299,460	\$ 9,660	\$ -	
RP3 Basin Improvements PID23a (7690.35) (Task No. 9) *	\$ -	\$ 325,000	\$ -	\$ 325,000	\$ 3,034	\$ 321,966	\$ -	\$ 348,835	Yes	\$ -	\$ 26,869	\$ -	\$ -	\$ -	
Wineville Basin Improvements PID23a (7690.36) (Task No. 9) *	\$ -	\$ -	\$ -	\$ -	\$ 13,258	\$ (13,258)	\$ -	\$ 1,524,322	Yes	\$ -	\$ 250,000	\$ 1,287,580	\$ -	\$ -	
Jurupa Basin Improvements PID23a (7690.36) (Task No. 9) *	\$ -	\$ -	\$ -	\$ -	\$ 5,345	\$ (5,345)	\$ -	\$ 614,486	Yes	\$ -	\$ 150,000	\$ 469,831	\$ -	\$ -	
Wineville/Jurupa Force Main PID 23a (7690.36) (Task No. 9) *	\$ -	\$ -	\$ -	\$ -	\$ 37,538	\$ (37,538)	\$ -	\$ 4,315,985	Yes	\$ -	\$ 2,077,856	\$ 2,210,838	\$ 64,829	\$ -	
2013 RMPU Amendment Yield Enhancement Projects (7690.15) (Task No. 1) *	\$ 1,205,263	\$ 1,455,500	\$ -	\$ 2,660,763	\$ 156,078	\$ 2,504,686	\$ -	\$ -	No	\$ -	\$ (2,589,095)	\$ -	\$ -	\$ -	
Post 2014 Storm Water Recharge Program *	\$ 1,319,076	\$ 2,839,000	\$ -	\$ 4,158,076	\$ 278,466	\$ 3,879,611	\$ -	\$ 12,334,905	Yes	\$ -	\$ 2,105,376	\$ 5,831,324	\$ 93,960	\$ -	
SUBTOTAL RMPU PROJECTS	\$ 3,637,428	\$ 2,839,000	\$ -	\$ 6,476,428	\$ 297,728	\$ 6,178,701	\$ -	\$ 14,633,995	---	\$ -	\$ 2,105,376	\$ 5,831,324	\$ 93,960	\$ -	
GRAND TOTALS	\$ 3,839,604	\$ 2,839,000	\$ -	\$ 6,678,604	\$ 343,960	\$ 6,334,644	\$ -	\$ 14,789,938	---	\$ -	\$ 2,105,376	\$ 5,831,324	\$ 93,960	\$ -	

NOTES:

Updated: 12/14/2017

Recharge Investigation and Projects Committee, (COMPLETED PROJECTS) PAGE 3 of 3

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
Project Name	CBWM Fiscal Year 2017/18									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 ¹	CBWM Remaining Projected Costs	Budget Amendment Required? (Yes/No)	Projected CarryOver Funds FY 2017/18	Fiscal Year 2018/19	Fiscal Year 2019/20	Fiscal Year 2020/21	Fiscal Year 2021/22
Pre RMPU Ongoing Projects														
CB20 Noise Mitigation (7690.5) COMPLETED	\$ 860	\$ -	\$ -	\$ 860	\$ -	\$ -	\$ 860	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -
Wineville Proof of Concept (7209.2) (Task No. 6) COMPLETED	\$ 35,398	\$ -	\$ -	\$ 35,398	\$ -	\$ -	\$ 35,398	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -
Jurupa Pump Station (7209.1) (Task No. 5) COMPLETED	\$ 37,981	\$ -	\$ -	\$ 37,981	\$ -	\$ -	\$ 37,981	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -
Hickory Basin (7690.3) COMPLETED	\$ 3,877	\$ -	\$ -	\$ 3,877	\$ -	\$ -	\$ 3,877	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -
SUBTOTAL PRE-RMPU PROJECTS	\$ 78,116	\$ -	\$ -	\$ 78,116	\$ -	\$ -	\$ 78,116	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -
RMPU Projects														
SUBTOTAL RMPU PROJECTS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	---	\$ -	\$ -	\$ -	\$ -	\$ -
GRAND TOTALS	\$ 78,116	\$ -	\$ -	\$ 78,116	\$ -	\$ -	\$ 78,116	\$ -	---	\$ -	\$ -	\$ -	\$ -	\$ -

NOTES: Updated: 12/14/2017

¹ \$78,116 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. CB20 Noise Mitigation of \$860; Wineville Project of \$35,398; Jurupa Pump Station of \$37,981; and Hickory Basin of \$3,877 = \$78,116.

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Non-RMP Ongoing Projects



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**GWR AND RW SCADA UPGRADES
PROJECT NO. EN14047
STATUS UPDATE: December 4, 2017**

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 (RW) and groundwater recharge (GWR) 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	\$690,365

<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	\$422	\$422
Design	02/26/14	01/15/16	Completed	\$186,512	\$186,512
Permits	09/12/14	01/15/16	Completed	\$42	\$42
Bid and Award	01/18/16	04/20/16	Completed	\$3,461	\$3,461
Construction**	04/21/16	10/31/17	In Progress	\$520,053	\$499,928
				<u>\$710,490</u>	<u>\$690,365</u>

*Projected cost was increased but remains below the project budget of \$892,000.

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.

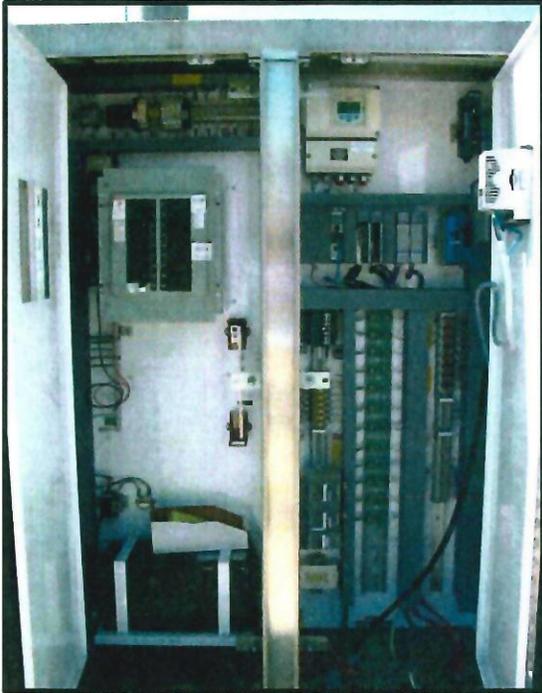
Cost Sharing Document: Task Order No. 4 of the Master Agreement of 2014

Project Update:

Trimax is nearing contract completion. They completed a majority of the new equipment installation and programming updates to all rubber dam basin sites and the computer screen interface modifications at the DCS (distributed control system) level. Currently IEUA staff and Trimax are finalizing system checks before completing and closing out the project. The project is scheduled to close out by the end of December or early January.

The projected cost has exceeded initial estimates by roughly \$100,000 due to the extended construction, but it remains below the project's approved budget.

Project Photos:



San Sevaine Turnout control panel



Rubber Dam control panel



**UPPER SANTA ANA RIVER WATERSHED HABITAT CONSERVATION PLAN
PROJECT NO. RW15002
STATUS UPDATE: December 4, 2017**

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:

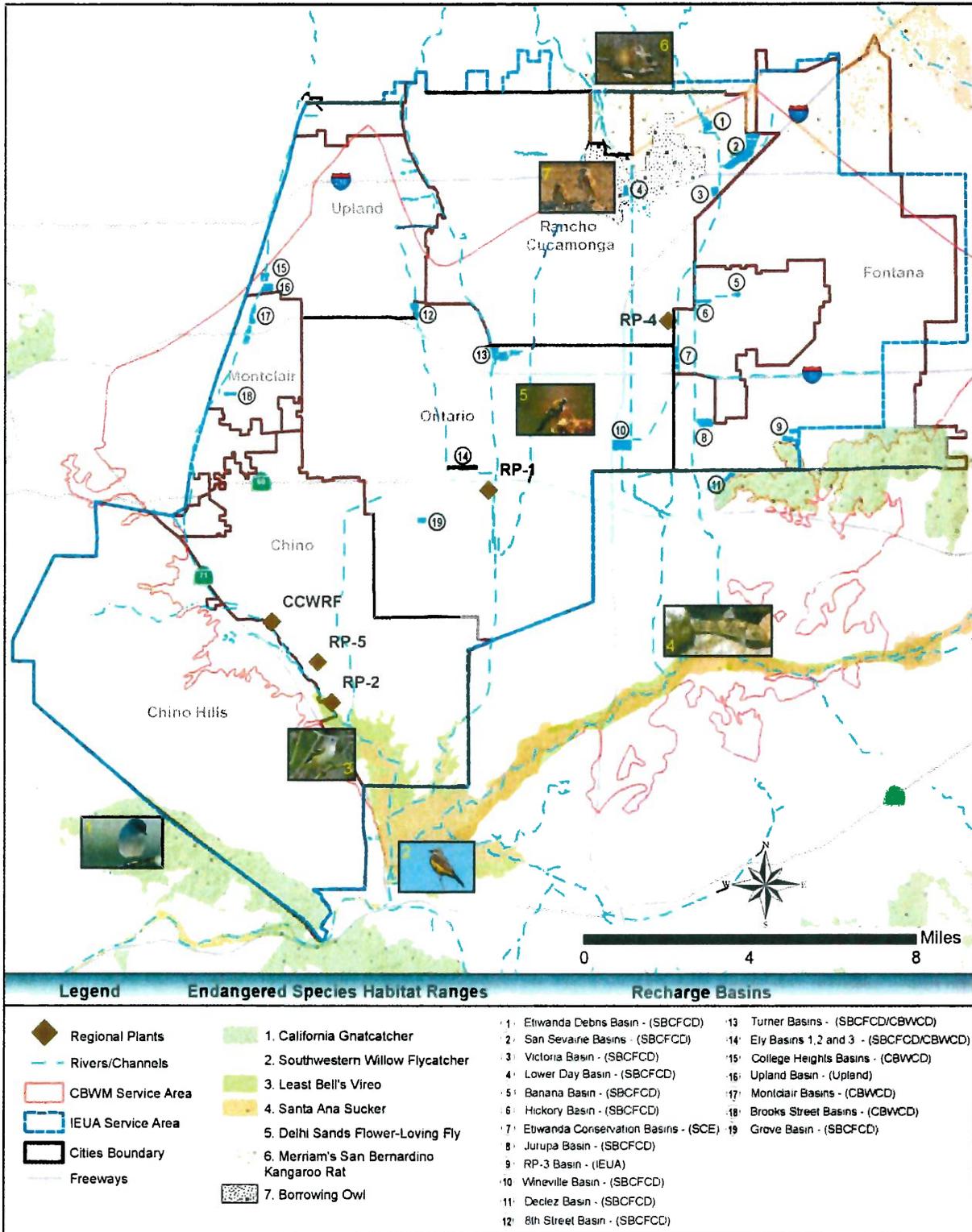
<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$160,000	\$137,873

<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	06/30/18	In Progress	\$160,000	\$137,873
				\$160,000	\$137,873

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

Project Update:

IEUA continues to work with the HCP team to complete the study by June of 2018.



RMPU PROJECTS



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**SAN SEVAINE IMPROVEMENTS PROJECT
PROJECT NO. EN13001
STATUS UPDATE: December 28, 2017**

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 Sevaire 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 tying it 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> \$797,507			
<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	\$159,898
Environmental Impact	06/26/13	01/20/16	Completed	\$30,000	\$24,283
Design	05/15/15	12/12/16	Completed	\$500,000	\$555,899
Permits	05/15/13	01/31/18	In Progress	\$25,000	\$25,000
Bid and Award	12/13/16	09/20/17	Completed	\$5,000	\$5,000
Construction	09/21/17	09/21/18	In Progress	\$5,740,000	\$27,427
				<hr/> \$6,460,000	<hr/> \$797,507

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)
- 1st Amendment Task Order No. 8 of the Master Agreement of 2014 (April 2015)
- 2nd Amendment Tsk Order No. 8 of the Master Agreement of 2014 (May 2017)

Project Update:

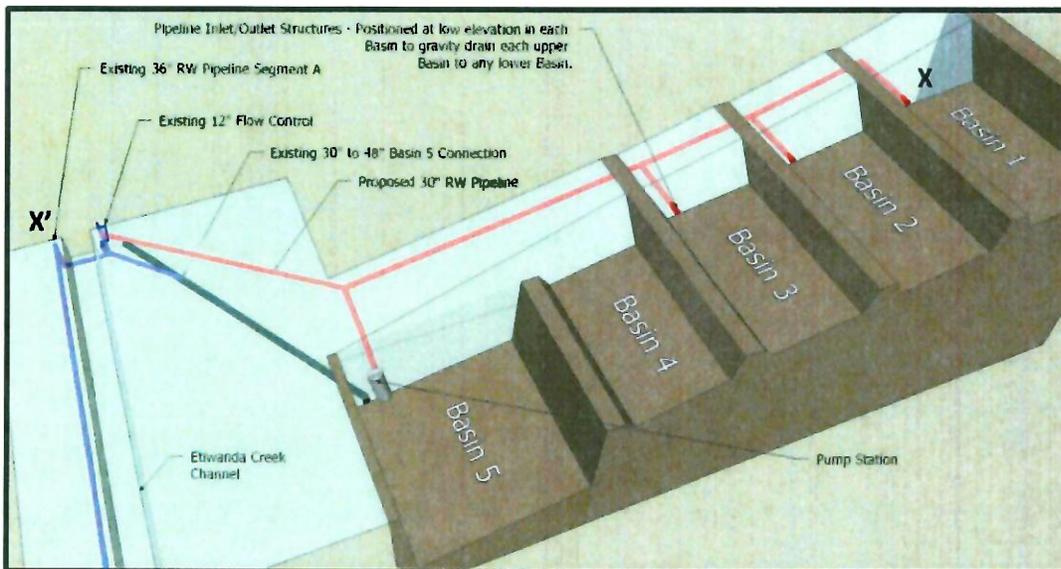
The Monitoring Well and Basin Improvement request for public bids closed on June 1 and July 13, respectively. The lowest responsible/responsive bidders were Yellow Jacket Drilling for the

Monitoring Well and Gwinco Construction and Engineering for the Basin Improvements. Both are scheduled for IEUA Board approval on September 20, 2017.

The basin improvement construction is still on schedule. Over 90-percent of the submittals were reviewed and approved. IEUA anticipates all remaining permits will be issued before any field work commences which is scheduled for January 2018.

In the meantime, effort for a portion of the monitoring well construction is on temporary hold until further investigation of recycled water impacts to the nearby drink well at the Unitex properties is completed. Current findings are showing the surface recharge of recycled water may not have the required retention time before reaching the Unitex well. The one mounding monitoring well adjacent to the basins is not impacted and will continue. The intermediate monitoring well is the portion on hold.

Conceptual Design:



Isometric View of the Recommended Basin Improvement



Monitoring Well Locations (SS2 and SS3)



**POST 2014 STORMWATER RECHARGE PROGRAM
PROJECT NOS. RW15003.00/.01/.02/.03/.04/.05/.06 & RW15004.00
STATUS UPDATE: December 27, 2017**

On November 17, 2016, the Watermaster Board approved the “Post 2014 Stormwater Recharge Program” as part of the results and findings presented from the completed preliminary design report on the yield enhancement projects under the 2013 Amendment to the 2010 Recharge Master Plan Update. The following are the projects under the “Post 2014 Stormwater Recharge Program” that are recommended for final design, bid and construction:

PID	Basin Projects	Post 2014 Stormwater Recharge Program ⁽²⁾	Initial Yield		Updated Yield ⁽¹⁾	
			SW	RW	SW	RW
			acre-feet per year			
12	Lower Day Basin	Increase stormwater diversion and basin storage	789	-	993	-
11	Victoria Basin	Improve the infiltration rate and increase storage by removing settled deposits	43	120	75	120
2	Montclair Basins	Increase storage and recharge capacity by directing more channel flow	248	-	96	-
18a	CSI Basin ⁽³⁾	New storage and recharge facility by deepening basin	81	-	-	-
23a	Wineville, Jurupa, RP3 & Force Main	Improve storage and recharge capacity with pumps/conveyance systems between basins and provide new diversion structures	3,166	2,905	2,921	2,905
			4,327	3,025	4,085	3,025

- (1) Updated to reflect new values as calculated after the completion of the PDR
- (2) San Sevaine Basin Improvement project is a part of the “Post 2014 Stormwater Recharge Program” but it is not list here for it has its own status update sheet.
- (3) 18a (CSI) removed from the list of ongoing RMPU projects. Updated yield value of 100 AFY is removed.

Schedule:

Phases	Project Budget		Actual Cost to Date		
	Start	Finish	Status	Projected Cost	Actual Cost
Project Development	07/01/14	12/17/14	Completed	\$ 189,256	\$189,256
Preliminary Design	12/18/14	06/21/17	Completed	\$ 1,221,000	\$1,220,867
Environmental	12/18/14	12/31/17	In Progress	\$ 280,000	\$280,000
Permits	06/22/17	05/17/18	In Progress	\$ 236,200	\$74,977
Design	12/18/14	04/19/18	In Progress	\$ 1,580,262	\$324,933
Bid and Award	04/20/18	09/19/18	Not Started	\$32,500	\$0
Construction	09/26/18	12/31/19	Not Started	\$ 19,465,500	\$0
				\$23,004,718	\$2,090,033

On Going RMPU Projects:

RMPU Project		Total Projected Expenses	Actual Cost (to date)
Lower Day Basin (PID 12)		\$4,008,000	\$319,446
Victoria Basin ⁽⁴⁾ (PID 11)		\$168,800	\$14,409
Montclair Basins (PID 2)		\$1,788,100	\$152,638
RP-3 Basin ⁽⁴⁾	(23a)	\$1,486,700	\$124,696
Wineville Basin		\$3,588,000	\$300,941
Jurupa Basin		\$1,424,000	\$119,437
Wineville/Jurupa Force Main		\$9,984,200	\$837,417
Total		\$22,447,800	\$1,893,530

(4) Cost shared between IEUA and Watermaster

Deferred RMPU Projects:

As of September 21, 2017, Watermaster stakeholders updated the list of deferred RMPU projects to the CSI Basin. The projected expenses and actual costs to each deferred project:

Project/Phase	Projected Expenses	Actual Cost (to date)
East Declez		
Project Development	\$114,000	\$112,829
Sub-Total	\$114,000	\$112,829
Declez Basin (PID 27)		
Project Development	\$2,600	\$2,600
Preliminary Design	\$71,000	\$3,913
Environmental	\$31,400	
Sub-Total	\$105,000	\$6,513
Turner Basin (PID 14)		
Project Development	\$1,000	\$1,000
Preliminary Design	\$28,400	\$1,605
Environmental	\$12,600	
Sub-Total	\$42,000	\$2,605
Ely Basin (PID 15a)		
Project Development	\$5,900	\$5,900
Preliminary Design	\$159,600	\$8,738
Environmental	\$70,500	
Sub-Total	\$236,000	\$14,638
CSI Basin (PID 18a)		
Project Development	\$1,000	\$1,000
Preliminary Design	\$29,000	\$29,000
Environmental	\$13,000	\$13,000
Design	\$16,918	\$16,918
Sub-Total	\$59,918	\$59,918
Total	\$556,918	\$196,503

Grant/Loan Update:

Received a \$300K grant award from the US Bureau of Reclamation for the RP-3 Basin Improvement and received an award notice for nearly \$8.3 million from SWRCB for the 23a project.

Cost Sharing Document:

- Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 1st Amendment Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 2nd Amendment Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 2nd Amendment Task Order No. 1 of the Master Agreement of 2014 (Deferred Projects)
- Task Order No. 2 of the Master Agreement of 2014 (PID 12)
- 1st Amendment Task Order No. 2 of the Master Agreement of 2014 (PID 12)
- Task Order No. 9 of the Master Agreement of 2014 (PID 23a)
- Task Order No. 10 of the Master Agreement of 2014 (PID 11)
- Task Order No. 11 of the Master Agreement of 2014 (PID 2)

Overview of Task Orders’ cost sharing amount with grants:

Deferred Projects (Task Order No.1)	Total
Watermaster	\$497,000
IEUA	\$0
Total	\$497,000
Lower Day Basin (Task Oder No. 2)	Total
Watermaster	\$2,883,000
IEUA	\$0
Grant Funding	\$1,125,000
Total	\$4,008,000
PID 23a (Task Order No. 9)	Total
Watermaster	\$7,554,135
IEUA	\$387,315
SWRCB Grant	\$8,241,450
USBR Grant	\$300,000
Total	\$16,482,900
Victoria Basin (Task Order No. 10)	Total
Watermaster	\$84,400
IEUA	\$84,400
Total	\$168,800
Montclair Basin (Task Order No. 11)	Total
Watermaster	\$1,788,100
IEUA	\$0
Total	\$1,788,100
CSI Basin (Task Order No. 12)	Total
Watermaster	\$59,918
IEUA	\$0
Total	\$59,918

CSI Basin Task Order
Task Order amendment required to remove CSI and show remaining cost

Project Update:

- 1) The 30% and 50% design plans and specification were completed in September and November respectively. 85% submittals are due in mid-February. IEUA has extended the project design time due to the following:
 - a) Victoria Basin – Conducting additional geotechnical evaluation to validate existing spillway is suitable to maintain the additional water pressure due to the increase in water level. This was recommended by the Flood Control District to confirm the proposed improvement will not damage the spillway. If the findings show a potential impact, project scope will increase which will require discussion and stakeholder approval to continue the project.
 - b) Wineville/Jurupa Storm Water Distribution Pipeline – A segment of the pipe alignment within the Flood Control District right-of-way is requiring changes due to conditions imposed by Union Pacific. The rail company will not allow any improvement within 50-foot of their structure that supports their rails. This unforeseen condition will push the segment within Southern California Edison property. Staff is evaluating options to minimize scope and cost increase.
 - c) Montclair Basin – Army Corps design review application requires additional time to address environment comments. Staff is working with Tom Dodson to assist with the response.
 - d) Lower Day Basin – There is an extended delay in obtaining the encroachment permit to conduct final geotechnical borings at multiple RMPU Basins. The delay is due to the high number of required borings that needed approvals from two County departments: Flood Control for the access and Environmental Health Services for the permission on the bore depth.
- 2) The RP-3 Basin Improvement Basin Design Plans were completed and sent out for public bid. This was accelerated to meet grant funding deadlines that showed completing this RMPU project by before the end of this year. The plan is to start construction by May, 2018.
- 3) Stantec is taking the lead in preparing detailed plans and specifications to demolish and excavate the area within RP-3 to create the additional recharge basins as recommended during the preliminary design phase. Carollo will provide the plans for basin improvements. Both plans will be combined in December to begin the bidding process in early January.
- 4) With the adopted Program EIR which included the planning level RMPU projects, Environmental Consultant, Tom Dodson, is addressing sight specific investigations of each on-going projects to meet CEQA-Plus requirements and to complete the environmental forms for the SRF Funding application. This is expected to be completed before the end of December 2017.

CHINO BASIN WATERMASTER

IV. INFORMATION

3. Ground-Level Monitoring Status Report (Semi-Annual)

Semi-Annual Status Report

Ground-Level Monitoring Committee

July – December 2017

This quarterly status report describes the background of the Ground-Level Monitoring Program (GLMP), the main activities conducted for the GLMP and by the Ground-Level Monitoring Committee (GLMC) for the period July - December 2017, and the main activities planned for the period January – June 2018.

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 MZ-1 Managed Area in the western portion of the Chino Basin. Figure 1 shows the locations of these areas. 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 at Watermaster’s PA-7 piezometer at Ayala Park. The index water level is called the Guidance Level.
- A Watermaster recommendation that the well owners collectively manage their production so that the water level at 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 in (1.) above.

The main activities of the GLMP include:

- setup and maintenance of monitoring facilities,
- monitoring and testing,
- data analysis and reporting, and
- meetings of the GLMC.

The main results and conclusions 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.



Semi-Annual Status Report
Ground-Level Monitoring Committee
July – December 2017

- Land subsidence has been occurring in the Northwest MZ-1 Area. Of particular concern is that subsidence in Northwest MZ-1 has occurred differentially across the San Jose Fault and in other areas—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 to Northwest MZ-1. The SMP was updated in 2015 to include 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, or portions thereof, are planned for completion by the end of FY 2017-18:

- Task 1: Describe the Initial Hydrogeologic Conceptual Model and the Monitoring and Testing Program.
- Task 2: Implement and Finalize 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 July - December 2017

Setup and Maintenance of Monitoring Facilities

- Performed monthly routine maintenance, data collection, and verification at the Ayala Park and Chino Creek extensometer facilities.

Northwest MZ-1 Area Investigation:

- Finalized the SCADA Installation, Monitoring, and Reimbursement Letter Agreement between Monte Vista Water District (MVWD) and Watermaster, and began coordinating with MVWD and SCADA Integrations to install water level monitoring devices and connect the devices to MVWD’s SCADA system.
- Corresponded and conducted an in-person meeting with City of Pomona staff to discuss the list of wells with repeated water level monitoring equipment installation issues. Discussed with City of Pomona staff other technologies that can be used to measure water levels (i.e. sonar).
- Drafted a work plan to describe the “proof of concept” to test the sonar water level measuring technique in the City of Pomona well P-27. The draft work plan was distributed to Watermaster and City of Pomona staff for review and comment.
- Corresponded and conducted an in-person meeting with City of Pomona staff to discuss the technical specifications, permitting, CEQA, and the bidding contract for the Pomona Extensometer facility’s two dual-nested piezometers.



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Ground-Level Monitoring Committee

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Monitoring and Testing

- Performed quarterly collection, checking, and storing of piezometric and aquifer-system deformation data from the wells and the Ayala Park and Chino Creek extensometer facilities shown on Figure 1.
- Worked with Neva Ridge Technologies, Inc. to develop costs and schedule to acquire a March/April 2018 InSAR interferogram in addition to the InSAR interferograms for western Chino Basin from the German Aerospace Center's TerraSAR-X satellite for CY 2017.
- Worked with WSP USA (formerly Parsons Brinckerhoff) to develop the benchmark monument survey network for the Northeast Area.
- *Long-Term Pumping Test in the MZ-1 Managed Area.* The Long-Term Pumping Test, described in the SMP, was developed by the GLMC 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 for the Long-Term Pumping Test during the reporting period:
 - The City of Chino Hills wells CH-15B and Ch-16 were not operational between July 1, 2017 and December 31, 2017. Only CH-17 pumped during this time-period.
 - Pumping at wells in the MZ-1 Managed Area did not result in water levels to decline below the Guidance Level at PA-7.

Data Analysis and Reporting

- Finalized the *2016 Annual Report of the Ground-Level Monitoring Committee* report. The final report was submitted to Watermaster in September 2017.

Northwest MZ-1 Area Investigation:

- Finalized the *Initial Hydrogeologic Conceptual Model and the Monitoring and Testing Program for the Northwest MZ-1 Area* report. The final report was submitted to Watermaster in December 2017.
- Finalized the technical memorandum: *Development and Characterization of the Baseline Management Alternative and Initial Subsidence-Management Alternative for the Northwest MZ-1 Area.* The technical memorandum was submitted to Watermaster in December 2017.
- Updated the final technical specifications: *Detailed Technical Specifications for the Drilling and Construction of Two Dual-Nested Piezometers for the Pomona Extensometer Facility* per preliminary comments from the City of Pomona staff. The technical specifications will be incorporated in the Pomona Extensometer Piezometers construction bid package at the completion of CEQA.

Meetings of the Ground-Level Monitoring Committee



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Ground-Level Monitoring Committee

July – December 2017

Three GLMC meetings were conducted during the reporting period:

The July 27, 2017 meeting agenda included the following items:

- Review the draft *2016 Annual Report of the Ground-Level Monitoring Committee*.
- Review and discuss the Ground-Level Monitoring Program activities for FY 2017-18.

The September 28, 2017 meeting agenda included the following items:

- Scope and Schedule: 2017-18 Ground-Level Monitoring Program and Annual Report.
- Scope and Schedule: Implementation of the Northwest MZ-1 Work Plan.

The October 26, 2017 meeting agenda included the following items:

- Review of the draft technical memorandum - *Task 3 and Task 4 of the Work Plan to Develop a Subsidence Management Plan for the Northwest MZ-1 Area: Development and Evaluation of Baseline and Initial Subsidence-Management Alternatives*.
- Progress Update: Implementation of the Northwest MZ-1 Monitoring Program.

Activities Planned for January – June 2018

Setup and Maintenance of Monitoring Facilities

- Perform monthly routine maintenance, data collection, and verification at the Ayala Park Extensometer and Chino Creek Extensometer facilities.
- Install and equip the Pomona Extensometer facility piezometers with pressure transducers and cable extensometers.

Monitoring and Testing

- Perform quarterly collection, 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.

Northwest MZ-1 Area Investigation:

- Finalize the Initial Monitoring Program for the Northwest MZ-1 Area. This includes:
 - Conducting a “proof of concept” to test the use of sonar technology to measure groundwater levels in City of Pomona and MVWD wells.
 - Equipping eleven MVWD wells with pressure transducers (eight wells) and either a sonar water level measuring device or nitrogen gas-bubbler tube setup (three wells); and, connecting the wells to MVWD's SCADA system.
 - Equipping up to and ten City of Pomona wells with sonar water level measuring devices (if the sonar “proof of concept” is deemed successful).
- Complete the CEQA, bidding process, select a drilling contractor, and begin drilling and



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constructing the Pomona Extensometer facility piezometers.

Data Analysis and Reporting

- Submit the draft technical memorandum: *Recommended Scope and Budget of the Ground-Level Monitoring Committee for FY 2018-19*. The draft technical memorandum will be published in February 2018, and the final will be published in April 2018.

Northwest MZ-1 Area Investigation:

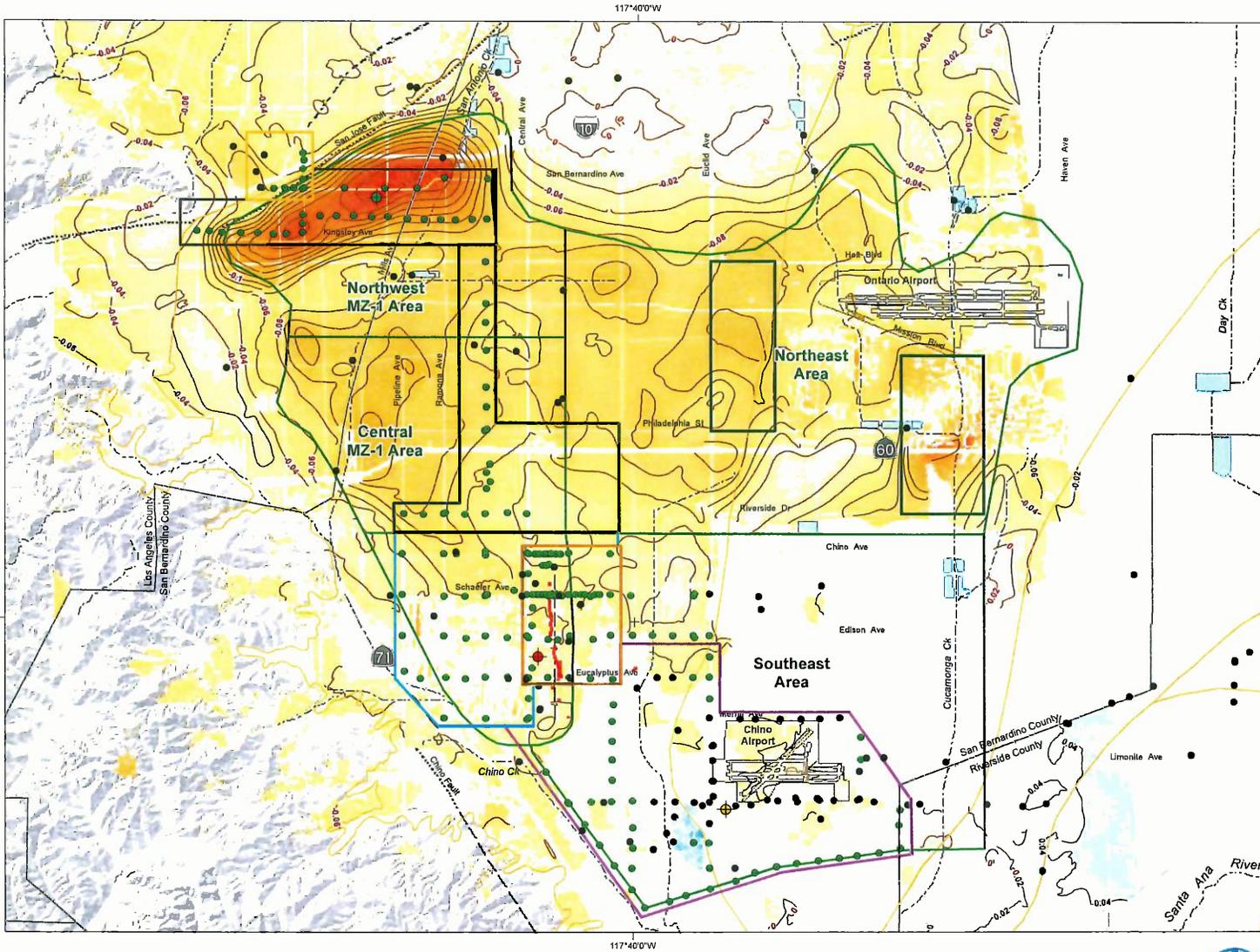
- Finalize the environmental analysis pursuant to CEQA and property acquisition for potential site(s) for the Pomona Extensometer Facility by February 2018.
- Finalize the technical memorandum: *Work Plan to Implement a “Proof-of-Concept” Test Using Sonic Technology to Measure Water Levels in the City of Pomona Well 27*. The technical memorandum will be finalized in January 2018.
- Finalize the technical memorandum: *Work Plan to Implement a “Proof-of-Concept” Test Using Sonic Technology to Measure Water Levels in the Monte Vista Water District Well 28*. The technical memorandum will be finalized in January 2018.

Meetings of the Ground-Level Monitoring Committee

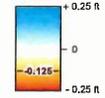
Two GLMC meeting are anticipated between January and June 2018. The meeting agenda items will include:

- Review and discuss the preliminary results of the Ground-Level Monitoring Program for 2017.
- Review and discuss the recommended Scope and Budget of the Ground-Level Monitoring Committee for FY 2017-18
- Review and discuss the scope of work and cost estimates to equip up to ten City of Pomona wells with sonar water level measuring equipment (if the sonar “proof of concept” is deemed successful) to facilitate collection of groundwater-level data from wells in the Northwest MZ-1 Area.





Relative Change in Land Surface Altitude
as Measured by InSAR
March 2011 to January 2017



□ InSAR absent or incoherent

Groundwater-Level and
Aquifer-System Deformation Monitoring

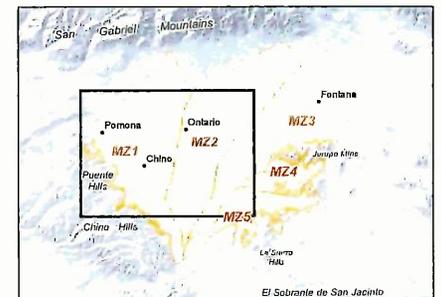
- Piezometer Equipped Transducers as of December 2017
- Ayala Park Extensometer
- Chino Creek Extensometer
- Pomona Facility Extensometer

Ground-Level Survey Areas

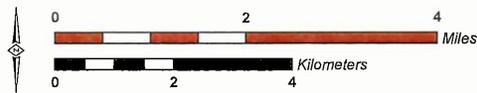
- Survey Benchmark
- Northeast Area
- MZ-1 Managed Area
- Fissure Zone Area
- Southeast Area
- Central Area
- Northwest MZ-1 Area
- San Jose Fault Zone Area

- Areas of Subsidence Concern
- Flood Control and Conservation Basins
- Ground Fissures
- Approximate Location of the Riley Barrier

Fault - Solid where accurately located, Dashed where approximately located or inferred; dotted where concealed.



Prepared by:
Author: MAB
Date: 1/18/2018
Document Name: Figure1_2017_Jul_Dec



Ground-Level Monitoring Program
Fiscal Year 2016-17

Figure 1

CHINO BASIN WATERMASTER

IV. INFORMATION

4. South Archibald and Chino Airport Plumes Status Reports (Semi-Annual)

Semi-Annual Status Report

South Archibald Plume

December 2017

Contaminant: The primary contaminant is trichloroethene (TCE). The maximum contaminant level (MCL) for TCE is 5 micrograms per liter ($\mu\text{g}/\text{L}$). The maximum TCE concentration detected in a groundwater sample collected from wells within the plume during the last five years (2013 to 2017) is 90 $\mu\text{g}/\text{L}$. Other contaminants of concern include: acetone, cis-1,2-dichloroethene, chloroform, and bromodichloromethane.

Location: The South Archibald TCE plume is in the southern Chino Basin within the City of Ontario. As delineated by the Chino Basin Watermaster (Watermaster) in 2017 for the 2016 *State of the Basin Report*¹, the extent of the plume with detectable TCE concentrations is about 11,000 feet wide and 22,400 feet long, extending 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. The spatial extent of the TCE contamination was delineated based on the five-year maximum concentration for the period of July 2011 to June 2016. In December 2017, the Cities of Ontario and Upland delineated the extent of the plume area with TCE concentrations greater than or equal to 0.5 $\mu\text{g}/\text{L}$ based on sampling that occurred between September and November 2017. Both plume delineations are shown in Exhibit 1.

Regional Water Quality Control Board, Santa Ana Region (Regional Board) Regulatory Orders:

- Six 2005 Draft Cleanup and Abatement Orders (CAOs)– Issued to the Aerojet-General Corporation, The Boeing Company, Northrop Grumman Corporation, Lockheed Martin Corporation, General Electric Corporation and the United States Department of Defense.
- One 2012 Draft CAO - Issued jointly to City of Ontario, City of Upland, and Inland Empire Utilities Agency (IEUA)
- Stipulated Settlement and CAO No. R8-2016-0016² - Final CAO issued to all parties previously issued draft CAOs in 2005 and 2012, except Northrop Grumman. Approved the preferred plume remediation and domestic water supply alternatives.

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 its 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 the

¹ Wildermuth Environmental, Inc. (2017). Optimum Basin Management Program – 2016 State of the Basin Report. Prepared for the Chino Basin Watermaster. June 2017.

² California Regional Water Quality Control Board Santa Ana Region (2016). Stipulated Settlement and Cleanup and Abatement Order No. R8-2016-0016. City of Ontario, City of Upland and Inland Empire Utilities Agency, Aerojet Rocketdyne Inc., The Boeing Company, General Electric Company, Lockheed Martin Corporation and the United States of America, Former Ontario-Upland Sewage Treatment Plant (Regional Recycling Plant No. 1) City of Ontario.



Semi-Annual Status Report

South Archibald Plume

December 2017

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 the RP-1 parties).

Under the Regional Board's oversight, the ABGL parties and/or the RP-1 parties conducted sampling at private residential wells and taps approximately every two years (2007-08, 2009, 2011-12, and 2013-14) in the region where groundwater is potentially contaminated with TCE. By 2014, all private wells and/or taps in the area of the plume had been sampled at least once since 2007. The report documenting this data was published in November 2014³. Both the ABGL and RP-1 parties provided alternate water systems (tanks) to residences in the area where well water contains TCE at or above 80 percent of the MCL for TCE (e.g. equal to or greater than 4 µg/L). Residents who declined tank systems were provided bottled water service.

In July 2015, the RP-1 parties completed a Draft Feasibility Study Report for the South Archibald Plume (Feasibility Study)⁴. The Feasibility Study established clean-up objectives for both domestic water supply and plume remediation, and evaluated alternatives to accomplish these objectives. In August 2015, a Draft Remedial Action Plan (RAP) was concurrently prepared by the RP-1 parties⁵ to present the preferred plume remediation and domestic water supply alternatives. A public review period followed along with two community meetings 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

³ 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.

⁴ 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.

⁵ 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.



Semi-Annual Status Report

South Archibald Plume

December 2017

2015, a revised Draft Feasibility Study⁶, RAP⁷, and Responses to Comments were completed to address input from the public, ABGL, and other parties.

In September 2016, the Regional Board issued the Final Stipulated Settlement and CAO R8-2016-0016 (Stipulated CAO) collectively to the RP-1 parties and the ABGL parties (except Northrop Grumman). The Stipulated CAO was adopted by all parties in November 2016, thus approving the preferred *Plume Remediation* and *Domestic Water Supply* alternatives identified in the RAP. The parties also reached a settlement agreement that aligns with the Final CAO and authorizes funding to initiate implementation of the plume remediation alternative.

Remedial Action Plan:

Plume Remediation. The plume remediation alternative identified in the Feasibility Study, RAP and Final CAO involves the use of existing and proposed Chino Basin Desalter Authority (CDA) production wells and treatment facilities. The RP-1 parties and the CDA reached a Joint Facility Development Agreement⁸ for implementation of a project designed to remediate the South Archibald plume. The proposed project includes using existing CDA production well I-11 and the construction and operation of three new CDA production wells (II-10, II-11, and II-12) and a dedicated pipeline to convey groundwater produced from these wells to the Desalter II treatment facility that removes TCE and other VOCs via air stripping. The CDA completed construction of Wells II-10 and II-11 in 2016 and the wells will be equipped for operation by the first quarter of 2018. Both the dedicated raw water pipeline and the property acquisition for Well II-12 are underway. The overall project is anticipated to be completed and operational by 2019.

Domestic Water Supply. The domestic water supply alternative identified in the Feasibility Study and RAP 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 the installation of a pipeline to connect some residences to the City of Ontario potable water system. Pursuant to the Stipulated CAO, the Cities of Ontario and Upland have assumed the responsibility for implementing the domestic water supply alternative for those private residences affected by the TCE groundwater contamination (TCE greater than 4 µg/L) who are currently receiving bottled water. In February 2017, the Cities of Ontario and Upland submitted a *Domestic Water Supply Work Plan*⁹ to the Regional Board that outlined the approach to provide water tank systems or connection to the City of Ontario's municipal water supply system for affected residences currently receiving bottled water. The Regional Board

⁶ 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.

⁷ 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.

⁸ Agreement dated June 22, 2015

⁹ Dudek (2017). *Domestic Water Supply Work Plan South Archibald Plume, Ontario, California*. Prepared for the City of Ontario, City of Upland. February 2017.



Semi-Annual Status Report

South Archibald Plume

December 2017

approved¹⁰ the work plan on March 3, 2017. At the time of the work plan approval, 32 residences were using water tanks systems and 21 residences were receiving bottled water. The alternative water supply remedies are being implemented on a continual basis. In accordance with the schedule in the Stipulated CAO and the work plan, tank systems will be installed within six months of resident consent, connections to Ontario's existing municipal water system will be constructed within three months of resident consent, proposed construction and connection to a new water main will occur within 18 months, and supplying bottled water to affected residents will occur immediately upon determining that TCE is present at or above 80 percent of the MCL.

Monitoring and Reporting: Pursuant to the Stipulated CAO, the Cities of Ontario and Upland are responsible for coordinating and conducting ongoing monitoring of the plume and submittal of an Annual Plume Monitoring Report to Regional Board by December 31 of each year. Pursuant to the November 2016 Stipulated CAO, a *Private Water Supply Well Sampling Work Plan*¹¹ was submitted to the Regional Board in February 6, 2017 and approved on February 14, 2017.¹² The purpose of the sampling is to track the plume extent, and potentially affected residences, to ensure that that an alternative water supply is provided to residences where TCE concentrations are greater than 80 percent of the MCL (4 µg/L). Pursuant to the February 2017 work plan, the first round of sampling occurred in February and March 2017, and the results were reported in the *Annual Groundwater Monitoring Report*¹³ submitted to the Regional Board on May 15, 2017. This first round of monitoring and reporting was to satisfy monitoring requirements immediately after the Stipulated CAO was approved on November 8, 2016. An additional round of monitoring and reporting occurred in Fall 2017. The next annual monitoring event is schedule for Fall 2018.

Additionally, Watermaster routinely collects groundwater samples at private wells in the plume area. Watermaster uses data obtained from their own monitoring efforts to independently delineate the TCE plume as part of the Chino Basin State of the Basin Reports that are prepared every two years.

Recent Activity: In December 2017 the Cities of Ontario and Upland submitted the *Annual Groundwater Monitoring Report*¹⁴ to the Regional Board summarizing monitoring conducted between September and November 2017. Forty-two samples were collected from 41 residential or agricultural

¹⁰ Regional Water Quality Control Board. Letter from Kurt Berchtold to the City of Ontario. *Domestic Water Supply Workplan – South Archibald Trichloroethylene Plume, Ontario, California*. March 3, 2017.

¹⁴ Dudek (2017). Annual Groundwater Monitoring Report South Archibald TCE Plume Ontario, California. Prepared for the City of Ontario and City of Upland. May 2017.

¹¹ EEC Environmental (2017). Workplan – Private Water Supply Well Sampling. Ontario California. Prepared for the City of Ontario. February 6, 2017.

¹² Regional Water Quality Control Board. Letter from Kurt Berchtold to the City of Ontario. *Private Water Supply Sampling Work Plan – Selected Private Groundwater Wells and Taps, Ontario, California*. February 14, 2017.

¹³ Dudek (2017). Annual Groundwater Monitoring Report South Archibald TCE Plume Ontario, California. Prepared for the City of Ontario and City of Upland. May 2017.

¹⁴ Dudek (2017). *Annual Groundwater Monitoring Report*. Prepared for the City of Ontario and City of Upland. December 2017.



Semi-Annual Status Report

South Archibald Plume

December 2017

locations located within and or downgradient of the historical footprint of the plume. Samples were collected from an outside tap, an inside faucet, or from the supply well. Additionally, the report included 2017 water quality data obtained from CDA's routine quarterly sampling at wells I-9, I-10, I-11, II-10 and II-11. The following summarizes the main results from the monitoring event:

- TCE was detected in 36 of the 41 residential or agricultural locations sampled. Detectable concentrations of TCE ranged from 0.37 µg/L to 54 µg/L.
- At CDA wells I-10 and I-11, TCE concentrations ranged from 0.74 to 1.2 µg/L, and 3.2 to 3.7 µg/L, respectively. At CDA well I-9, TCE was detected in one sample (0.68 µg/L) and was the first detected value since 2009.
- At the newly constructed CDA wells, TCE was not detected in well II-10, and was detected at 2 µg/L in well II-11.
- Statistical analysis of TCE concentrations from the recent sampling event indicate an increasing trend near the southern end of the plume near the CDA wells. These wells will continue to be observed in future sampling events to continue to evaluate trends over time. In contrast, TCE concentrations are showing decreasing trends along the western edge of the plume.
- Based on results of the most recent groundwater sampling event, there are no new residences that require an alternative water supply.

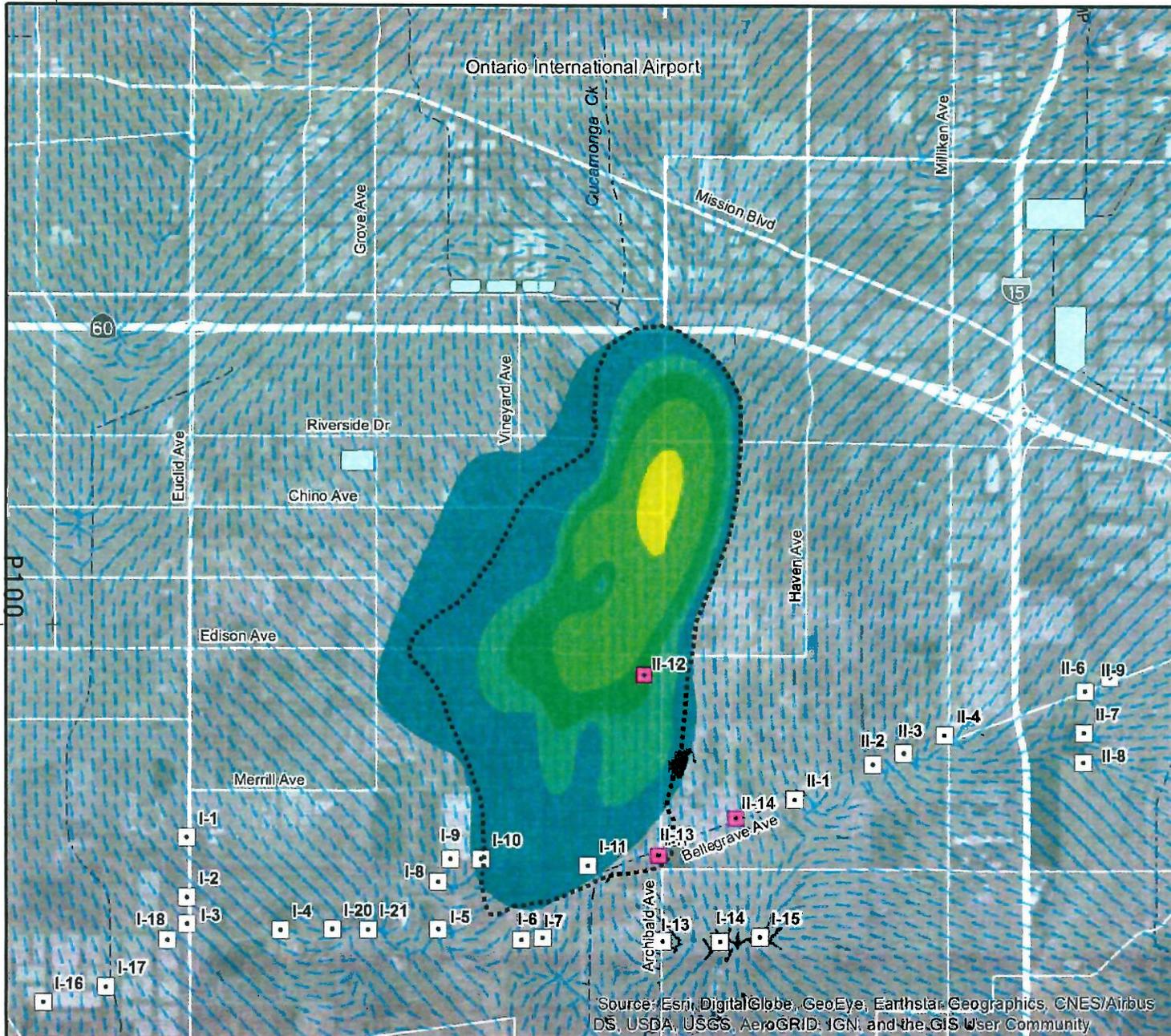
Domestic Water Supply. In March and April of 2017 the City of Ontario mailed certified letters to affected residences that currently receive bottled water delivery, to offer either a tank system or connection to the City of Ontario municipal water supply. Additionally, some letters were hand delivered by EEC Environmental on behalf of the City of Ontario. Of the 14 residences whom received letters, only six have responded: two accepted offers to convert to an alternative water supply; one conversion is in progress, and three declined offers because the property is being sold. The City of Ontario continues to follow up with residents whom have not yet responded.

As of December 2017, 37 residences are supplied water by tank systems. Seven of these tanks are located at the western edge of the plume, where TCE concentrations have declined over time and are less than 80 percent of the MCL. Multiple residences remain on bottled water supply and will be re-evaluated for the need for an alternative water supply offer in the next sampling event scheduled for Fall 2018.

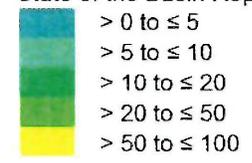
Plume Remediation. The dedicated raw water pipeline network to convey groundwater produced from well I-11 and the three new CDA wells to the Desalter II treatment facility is under construction and is anticipated to be completed in the summer of 2019. The CDA is in ongoing discussions regarding property acquisition for well II-12, and construction is anticipated to be complete by March 2018. Once the property is acquired, CDA plans to drill a monitoring well near II-12 to support the final design of the production well. The overall project is anticipated to be completed and operational by December 2019.



117°40'0"W



Maximum TCE Concentration ($\mu\text{g/L}$)
 July 2011 to June 2016
 (Delineated by Watermaster in the 2016
 State of the Basin Report)



Extent of the City of Ontario/Upland
 TCE Plume with Concentrations
 Greater than or Equal to .5 ug/L
 (Delineated in the December 2017
 Annual Groundwater Monitoring
 Report)

Chino Basin Desalter Authority
 Production Wells:

- Existing (Constructed Between
1999 to 2012)
- New (Currently Being Constructed
and Equipped)
- 2017 Model-Generated Groundwater
Flow Direction (Model Layer 1)
- Streams & Flood Control
Channels
- Flood Control & Conservation
Basins



Source: Esri, DigitalGlobe, GeoEye, Earthstar, Geographics, CNES/Airbus
 DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

117°40'0"W
 Prepared by:



Author: LMG
 Date: 2/1/2018
 Name: SouthArchibald_20180115



CBWM Semi-Annual Status Report

South Archibald TCE Plume

Semi-Annual Status Report Chino Airport Plume December 2017

Contaminants: The County of San Bernardino Department of Airports (County) identifies four primary contaminants; trichloroethene (TCE), 1,2,3-trichloropropane (1,2,3-TCP), cis-1,2-dichloroethene (cis-1,2-DCE), and 1,2-dichloroethane (1,2-DCA). The California maximum contaminant levels (MCLs) for TCE, 1,2,3-TCP, cis-1,2-DCE, and 1,2-DCA, as well as the maximum concentrations detected in groundwater samples collected from wells within the plume area over the five-year period from July 2013 to June 2017 are shown in the table below.

Contaminant	California (MCL) (µg/L)	Maximum Concentration (µg/L)
TCE	5	830
1,2,3-TCP	0.005	44
cis-1,2-DCE	6	47
1,2-DCA	0.5	1.4

Other contaminants of concern include, 1,1-dichloroethene, carbon tetrachloride, and 1,4-dioxane.

Location: The Chino Airport is located in the southwestern portion of the Chino Basin within the City of Chino. As delineated by the Chino Basin Watermaster (Watermaster) in 2017 for the *2016 State of the Basin Report*¹, the extent of the plume with detectable TCE concentrations greater than 0.5 µg/L is about 3,500 feet wide and 12,500 feet long, extending from the Chino Airport towards the southwest to just south of Pine Avenue (see Exhibit 1).

Since 2015, the County characterizes two plumes originating from different source areas at the Chino Airport: the West Plume and the East Plume. TCE and 1,2,3-TCP concentrations are the largest in regard to magnitude and lateral extent within the West and East Plumes. The most recent characterization of TCE and 1,2,3-TCP concentrations prepared by the County were part of the *Semiannual Groundwater Monitoring Report Summer and Fall 2017*². Exhibit 1 shows the County's delineation of the West and East Plumes with TCE concentrations greater than or equal to 5 µg/L, and the West and East Plumes with 1,2,3-TCP concentrations greater than 0.005 µg/L.

TCE Plume. The West TCE Plume extends roughly 9,000 feet towards the southwest from the source and the southern extent of the plume extends another 2,400 feet to the southeast towards the Prado Flood Control Basin where the plume terminates near well cluster CAMW16. The change in direction of the plume in this area may be associated with the location of the Central Avenue Fault, the “no-flow” boundary conditions of the Chino Hills, or historical pumping from former production wells. The width of the West TCE plumes ranges from 1,000 to 2,700 feet averaging 1,700 feet. The East

¹ Wildermuth Environmental Inc. (2017). *Optimum Basin Management Program - 2016 State of the Basin Report*. Prepared for the Chino Basin Watermaster. June 2017.

² Tetra Tech (2017) *Semiannual Groundwater Monitoring Report Summer and Fall 2017*. Chino Airport Groundwater Assessment, San Bernardino County, California. Prepared for County of San Bernardino Department of Architecture and Engineering. November 2017.



Semi-Annual Status Report Chino Airport Plume December 2017

TCE Plume has a significantly smaller footprint than the West Plume, and extends approximately 1,650 feet in the south-southeast direction from its source where it comingles with the West Plume.

1,2,3-TCP Plume. The West 1,2,3-TCP Plume extends roughly 10,500 feet towards the southwest and the southern extent of the plume extends another 3,300 feet to the southeast towards the Prado Flood Control Basin, following the same path as the West TCE Plume. The width of the West 1,2,3-TCP Plume ranges from 1,400 to 5,400 feet and averages about 3,300 feet. The East 1,2,3-TCP Plume has a significantly smaller footprint than the West Plume but has two points of concentration. The larger of the East plumes extends approximately 3,000 feet in the south direction. The smaller of the East Plumes measures 435 feet in the south direction.

Regional Water Quality Control Board, Santa Ana Region (Regional Board) Regulatory Permits and Orders:

- Cleanup and Abatement Order (CAO) No. 90-134 – Issued to the County to address the groundwater contamination originating from the Chino Airport.
- CAO No. R8-2008-0064 – Required the County to define the lateral and vertical extent of the plume offsite and preparation of a remedial action plan (RAP).
- CAO No. R8-2017-0011 – Requiring the County to submittal of a Final Feasibility Study and Final RAP.

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, ten inactive underground storage tanks and 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. From 2009 to 2012, 33 offsite monitoring wells were installed at 15 locations to characterize the extent of the contamination downgradient from the airport property.

From 2013 to 2014 the County conducted an extensive investigation of several areas identified 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. When investigative work was complete, 33 groundwater monitoring wells were installed in 17 locations on and adjacent to the Airport property from September 2014 through February 2015.



Semi-Annual Status Report Chino Airport Plume December 2017

The County completed a Draft Feasibility Study³ for the Chino Airport in August 2016. The Feasibility Study identifies remedial action objectives (RAOs) for contaminated groundwater originating from the Chino Airport and evaluates remediation alternatives for mitigation. On January 11, 2017, the Regional Board issued CAO R8-2017-0011 to the County, which supersedes CAO R8-2008-0064. The order requires that the County: (1) submit a Final Feasibility Study within 60 days of receiving the Regional Board's comments on the Draft Feasibility Study; (2) submit a Final Remedial Action Plan (RAP) within 60 days of the Regional Board approval of the Final Feasibility Study; (3) implement the RAP in accordance with a Regional Board-approved schedule; and (4) prepare and submit technical reports and work plans as the Regional Board deems necessary. The Regional Board submitted final comments on the Draft Feasibility Study via email on February 8, 2017⁴. The County submitted responses to the Regional Board's comments along with a revised Draft Feasibility Study on March 20, 2017⁵. The Regional Board reviewed the revised Draft Feasibility Study and accepted the proposed changes and responses, but submitted three additional comments on March 30, 2017.⁶

The County submitted a Final Feasibility Study⁷ for the Chino Airport in May 2017. A groundwater pump-and-treat system to provide hydraulic containment and treatment of both the West Plume and the East Plume is the preferred remedial action in the Feasibility Study. The Regional Board approved the Feasibility Study on June 7, 2017 and requested that a Remedial Action Plan (RAP) be prepared. The County submitted a *Preliminary Draft Remedial Action Plan* to the Regional Board on August 7, 2017. The Regional Board submitted comments on the Preliminary Draft RAP via email on October 17, 2017. The County submitted responses to the Regional Board's comments along with a revised Draft RAP on November 28, 2017. The Regional Board reviewed the revised Draft RAP and accepted the proposed changes and responses on December 14, 2017. The County submitted a *Draft Interim Remedial Action Plan (IRAP)*⁸ for public review and comment on December 18, 2017.

Remedial Action Plan: The preferred RAP in the Final Feasibility Study and Draft IRAP is a groundwater pump-and-treat system that consists of ten extraction wells that will produce approximately 900 gallons per minute (1,700 acre-feet per year) of groundwater for onsite treatment using carbon adsorption. Included among the 10 extraction wells is the CDA's well I-18, which is no longer planned for use by the CDA. An air stripper may be added to the pump-and-treat system if deemed necessary. Once treated, the preferred option is to discharge the treated groundwater to the CDA's Chino-I Desalter influent pipeline. If this discharge option is not available at the time the

³ Tetra Tech (2016) Draft Feasibility Study Chino Airport San Bernardino County, California. Prepared for the County of San Bernardino, Department of Architecture and Engineering. August 2016.

⁴ https://geotracker.waterboards.ca.gov/view_documents?global_id=SL208634049&enforcement_id=6316113

⁵ https://geotracker.waterboards.ca.gov/view_documents?global_id=SL208634049&document_id=5916631

⁶ https://geotracker.waterboards.ca.gov/view_documents?global_id=SL208634049&enforcement_id=6316116

⁷ Tetra Tech (2017) *Final Feasibility Study Chino Airport San Bernardino County, California*. Prepared for the County of San Bernardino, Department of Architecture and Engineering. May 2017.

⁸ Tetra Tech (2017). *Draft Interim Remedial Action Plan*. Chino Airport, San Bernardino County, California. Prepared for County San Bernardino Department of Airports. December 2017.



Semi-Annual Status Report Chino Airport Plume December 2017

groundwater pump and treat system is completed, the alternative options are to discharge the treated groundwater to either the local surface-water channels or wastewater treatment plants, or to inject the treated groundwater back into the basin with six injection wells at the northeast corner of the Chino Airport. Currently, the County is in discussions with the CDA to discharge the treated water from the extraction system to the CDA's influent pipeline.

The IRAP is predicted to be finalized in April of 2018. The design and construction of the pump and treat system is proposed to begin with aquifer testing in spring 2018. The pump and treat system design and remedial action work plan is anticipated to be complete by spring 2019. Once constructed, operations are projected to begin in 2021.

Monitoring and Reporting: The County conducts quarterly, annual, or biennial water-quality monitoring, and quarterly water-level monitoring, at the 75 monitoring wells constructed to date. The sampling frequency is determined by well classification, i.e. background wells, horizontal or vertical extent wells, remedial monitoring wells and guard wells. The purpose of the groundwater monitoring program is to collect data to track detections of VOCs in groundwater, monitor temporal trends of contaminants, and evaluate changes in each groundwater plume. All the data collected by the County is posted on the Regional Board's GeoTracker website⁹. Conclusions from the monitoring program can be found in the semi-annual reports posted on GeoTracker. The most recent monitoring report *Semiannual Groundwater Monitoring Report Winter and Spring 2017*¹⁰ was submitted to the Regional Board in December 2017.

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 its own sampling to perform an independent characterization of the areal extent and concentration of the TCE plume. The most recent characterization of the plume completed by Watermaster was in 2017 for the *2016 State of the Basin Report*¹¹ and is shown in Exhibit 1. The plume color ramp represents the most recent characterization of TCE and was delineated based on the five-year maximum concentrations from July 2011 to June 2016.

Recent Activity: The *Groundwater Well Installation and Aquifer Pumping Test Work Plan*¹² was submitted to the Regional Board in July 2017. The work plan provides the detailed plan for the construction of

⁹ http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL208634049

¹⁰ Tetra Tech (2017). *Semiannual Groundwater Monitoring Report Winter and Spring 2017*. Prepared for County of San Bernardino. November 2017.

¹¹ Wildermuth Environmental Inc. (2017). *Optimum Basin Management Program - 2016 State of the Basin Report*. Prepared for the Chino Basin Watermaster. June 2017.

¹² Tetra Tech (2017). *Groundwater Well Installation and Aquifer Pumping Test Work Plan*. Prepared for the County of San Bernardino. July 2017.



Semi-Annual Status Report

Chino Airport Plume

December 2017

five groundwater production wells and 12 piezometers to perform aquifer pumping tests (APTs) at a central location within the West and East plumes. Extracted groundwater will be treated to remove contaminants and then discharged directly to the ground surface via irrigation on agricultural farm lands on the Chino Airport property. The data will be used to support the design of the full-scale groundwater pump and treat system proposed in the final Feasibility Study. The work plan also includes the plan for the construction and monitoring of 10 additional monitoring wells at select locations along the plume boundaries.

The *Semiannual Groundwater Monitoring Report Winter and Spring*¹³ addresses the results from the last two sampling events and was submitted to the Regional Board November 30, 2017. During winter 2017, a total of 12 guard wells were sampled on January 25 and 26, 2017. During spring 2017, all 75 wells were sampled between April 20 and May 8, 2017. The following summarizes the main results from the report:

- A total of 17 volatile organic compounds (VOCs) were detected during monitoring. Six of these VOCs were detected in one or more samples at concentrations above screening level criteria (MCL or Drinking Water Notification Level [DWNL]); these include: carbon tetra chloride, 1,2-DCA, cis-1,2-DCE, TCE, 1,2,3-TCP and 1,4-dioxane. The remaining detected VOCs are below screening levels.
- Water quality results show that TCE was detected at or above the MCL in 25 samples with concentrations attaining a maximum of 830 µg/L. The maximum TCE concentration detected in the West Plume was 830 µg/L (CAMW4) and 530 µg/L in the East Plume (CAMW40).
- 1,2,3-TCP concentrations were measured above the MCL (0.005 ug/L) in 36 samples, reaching a maximum concentration of 27 µg/L (CAMW56).
- On October 1, 2017, the newly adopted California MCL for 1,2,3-TCP (0.005 µg/L) went into effect. A new 1,2,3-TCP plume extent was delineated based on the new MCL, instead of the previously used California Department of Health (CDH) Response Level (5 µg/L). The extent of the new 1,2,3-TCP plume delineation appears larger than previous plume delineations because the new MCL is 100 times less than the CDH Response Level. Therefore, the actual extent of the plume did not increase, the change is a result of the lower isocontour level used to define the plume based on the new MCL.

In December of 2017, the Draft IRAP¹⁴ was submitted to the Regional Board to summarize the environmental conditions at the airport property and use data to support the preferred remedial action of a groundwater pump and treat system. The IRAP outlines the preliminary remedial design,

¹³ Tetra Tech (2017). *Semiannual Groundwater Monitoring Report Winter and Spring 2017*. Prepared for County of San Bernardino. November 2017.

¹⁴ Tetra Tech (2017). *Draft Interim Remedial Action Plan*. Chino Airport, San Bernardino County, California. Prepared for County San Bernardino Department of Airports. December 2017.

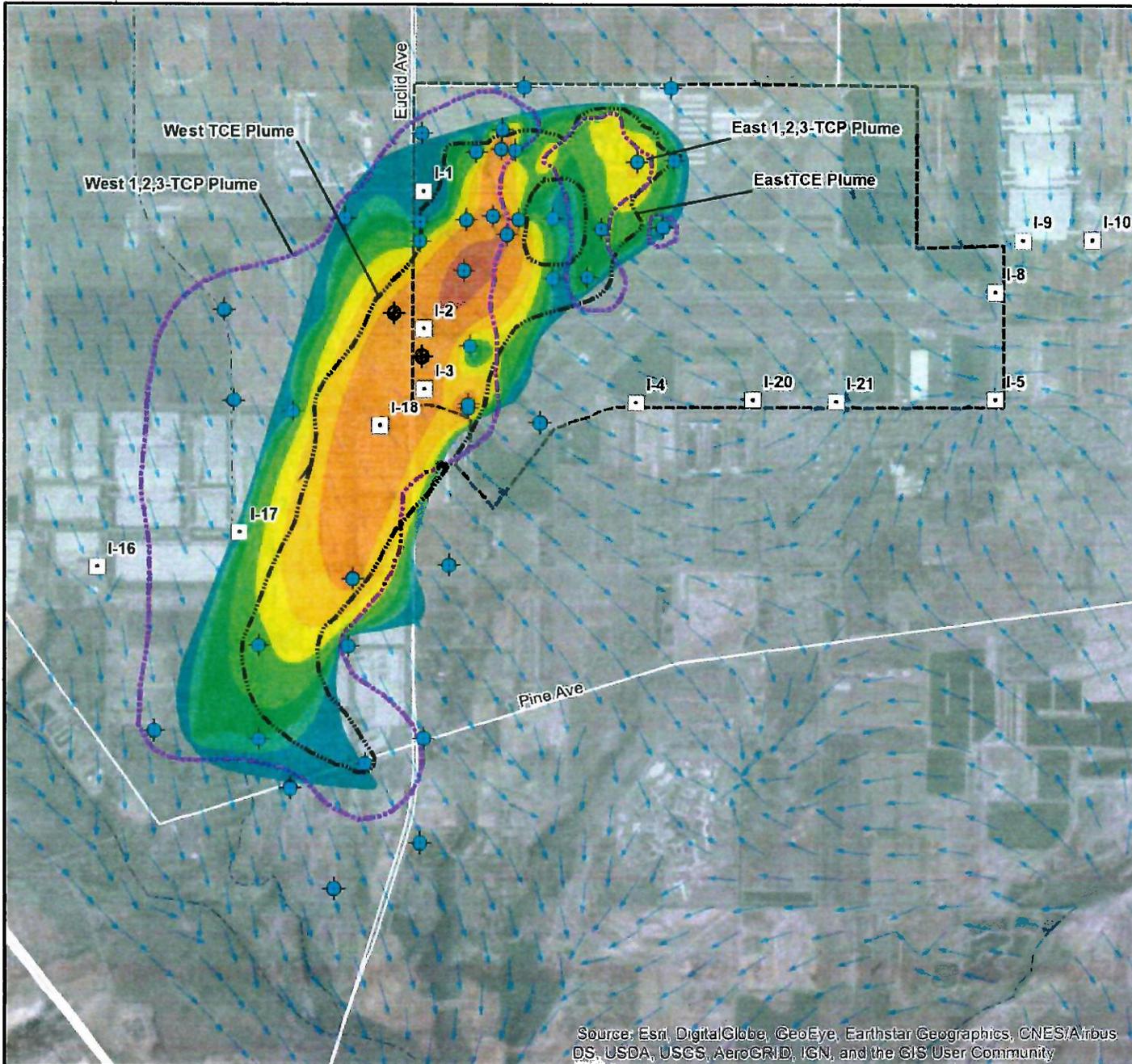


Semi-Annual Status Report
Chino Airport Plume
December 2017

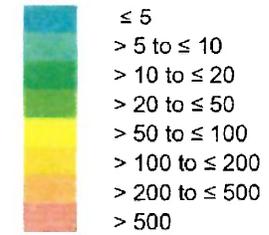
regulatory, operational and other requirements of the selected remedial action. This remedial action is considered interim because the County is moving forward now on an interim basis to initiate the remedial action as quickly as possible, but in the future, could evaluate one or more additional actions. The Regional Board is now soliciting community input on the IRAP until February 18, 2018. The County has created a website at <http://cms.sbcounty.gov/airports/Airports/Chino/CAGRP.aspx> to provide information to the public. The Regional Board and the County will hold a public workshop on January 18, 2018 to receive public comments and answer related questions.



117°40'0"W



Maximum TCE Concentration ($\mu\text{g/L}$)
 July 2011 to June 2016
 (Delineated by Watermaster in the 2016
 State of the Basin Report)



Extent of Plume as Delineated by the County
 in 2017 (2017 Semi-Annual Monitoring Report)

TCE ≥ 5 $\mu\text{g/L}$

1,2,3-TCP ≥ 0.005 $\mu\text{g/L}$

County of San Bernardino
 monitoring wells constructed
 between 2003 and 2015

Chino Basin Desalter Authority
 Production Well

2017 Model-Generated Groundwater
 Flow Direction (Model Layer 1)

Chino Airport Property Boundary



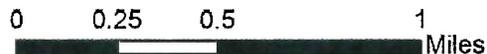
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus
 DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

P107

117°40'0"W
Prepared by:



Author: LMG
 Date: 1/25/2018
 Name: ChinoAirport_20180125



CBWM Semi-Annual Status Report

Chino Airport Plume

Exhibit 1

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CHINO BASIN WATERMASTER

IV. INFORMATION

5. RMPU Status Report (Semi-Annual)

2013 Amendment to 2010 RMPU Implementation

Status Report – January 2018

Background

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). The Committee reports the progress on all recharge projects, including prior projects, RMPU Sustainability and Yield Enhancement projects, and potential new projects so they can be reviewed by all Pool representatives before making a recommendation to their respective Pools. Progress on all projects is provided in a separate report.

Year 1 - 2014

Yield Enhancement Projects: Contact Sand and Gravel Companies

IEUA, with the help of Watermaster stakeholders, has developed a list of haulers who may be interested in the dirt removal. With the approval of a project's PDR, contact with the Sand and Gravel companies are being made. There are a few concerns 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 Appropriate Pool Parties. As of early April 2017, the Safe Yield Reset matter is pending before the Court.

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 project's scope, budget, or schedule. As of July 2017, negotiations are ongoing. 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. In May 2017, IEUA and Watermaster Boards approved the Task Order for the Montclair Project.

Yield Enhancement Projects: Agreement with Property Owners

Contact with SBCFCD and CBWCD has been made through the 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 Sevaive (PID 17) property was sold at auction; status is "ongoing due diligence by potential buyer" until the end of 2017. IEUA has worked with California Steel Industries (CSI) on a wastewater issue and is discussing the terms 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, which the preliminary design found in the RMPU PDR will meet. In of November 2017, Watermaster Appropriators chose to defer the project.

Years 2 and 3 - 2015 and 2016

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

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

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

Yield Enhancement Projects: Prepare Environmental Documentation for Yield Enhancement Projects

The required environmental documents for the San Sevaive Basin RMPU Project was completed in 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 adopted the findings on April 20, 2016. The remaining RMPU projects have been addressed separately through a programmatic environmental impact report on the proposed planning level projects within the Recharge Master Plan Update document.

Financing Plan

The 2013 RMPU Master Plan Update Financing Plan was approved on May 26, 2016 by the Watermaster Board. 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%20Agreements/20160512%20Financing%20Plan%20for%20the%202013%20RMPU.pdf](http://www.cbwm.org/FTP/Recharge%20Investigations%20and%20Projects%20Committee%20(RIPCom)/RMPU%20Agreements/20160512%20Financing%20Plan%20for%20the%202013%20RMPU.pdf)

Years 3 and 4 - 2016 and 2017

Prepare Final Designs and Acquire Necessary Permits for Yield Enhancement

In November 2016, the Watermaster Parties selected projects to move forward for Final Design. The suite of projects are collectively identified as the Post-2014 Stormwater Recharge Projects.

Project ID	Post-2014 Stormwater Recharge Program
23a	Wineville/Jurupa/RP-3 Basins with SW Force Main Improvements
11	Victoria Basin
12	Lower Day Basin*
2	Montclair Basins
7	San Sevaine*
	<ol style="list-style-type: none"> 1. Upon receipt of bid results IEUA/CBWM are to confirm with the AP on project advancement prior to awarding the construction contracts. 2. On Project 23a, the bid for the pump station and force main will be an optional bid item.

The Final Designs for the Post-2014 Stormwater Recharge Projects are to be completed by the beginning of 2018. San Sevaine's design effort was completed in November 2016 while Lower Day, which is was initially on an accelerated schedule but met some delays, will complete Final Design by March 2018.

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 completed by the end of 2019.

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

Watermaster has worked with WEI to analyze the data sent in by member agencies to determine if there is a significant potential increase in MS4 project related recharge. As of November 2017, 164 projects within the Chino Basin were submitted resulting in approximately 381 acre-feet of new recharge under idealized conditions. Watermaster found that reporting of the projects was difficult for some organizations, as some had not submitted any. Furthermore, many agencies did not have maintenance records for the reported projects which can impact the idealized conditions that is assumed for the 318 acre-feet of recharge. Watermaster Parties asked to continue to collect WQMP data for more analysis.

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 Recharge Basin 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.

CHINO BASIN WATERMASTER

IV. INFORMATION

6. Santa Ana River Watershed Status Report (Semi-Annual)

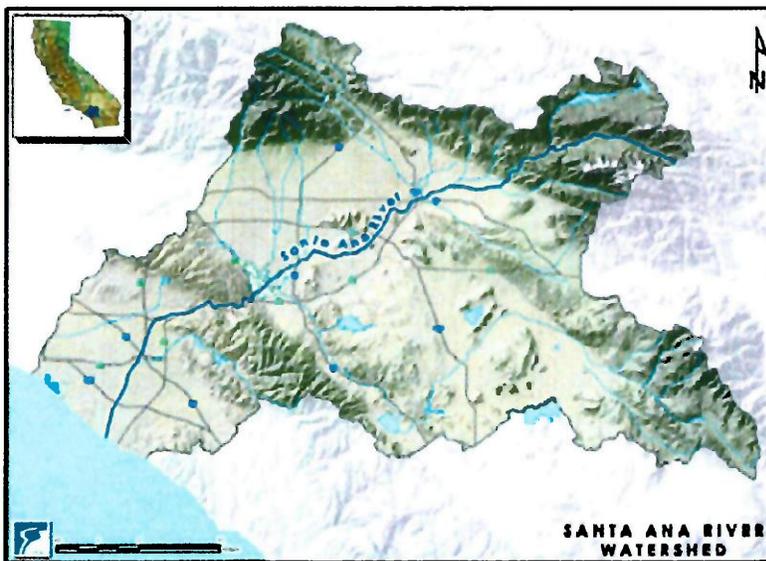
SANTA ANA RIVER ACTIVITIES UPDATE

The Chino Basin is part of the Santa Ana River Watershed, as such, Chino Basin Watermaster participates in different activities and follows closely the happenings in the entire watershed. This document is a semi annual report that brings periodic updates about the current activities and issues in the watershed. The updates will be classified into four different categories:

1. **Water Quality**
2. **Basin Management**
3. **Habitat Conservation / Monitoring**
4. **Storage and Conjunctive Use**

Many of the activities that take place within the watershed fall in more than one category. Below is a list of the current activities of interest in the Santa Ana River Watershed:

- Basin Monitoring Program Task Force
- Upper Santa Ana River Habitat Conservation Plan
- Prado Basin Adaptive Management Plan
- Santa Ana River Conservation and Conjunctive Use Program



Water Quality



Basin Management



Habitat Conservation / Monitoring



Storage and Conjunctive Use

The Santa Ana River is the longest river that is entirely contained in Southern California and one of the most densely populated watersheds in the State of California. Some quick facts to remember about the Santa Ana River are:

- It is 96 miles long
- It has over 700 miles of tributaries
- ~6 million people live within the watershed
- The watershed encompasses 58 cities in 4 counties
- The area of the watershed is 2650 sq. miles



BASIN MONITORING PROGRAM TASK FORCE

The Chino Basin Watermaster (Watermaster) participates in the Basin Monitoring Program Task Force (BMPTF) and collaborates with the Regional Board in developing Groundwater quality reports. During the second half of 2017 the Task Force worked on the following:

- **Wasteload Allocation Model Update:** The WLAM is a tool used by the Regional Board to determine assimilative capacity in the upper watershed. It is currently being updated by Geoscience Inc. The first two Technical Memorandums were released in November 2017, and due to numerous concerns from members of the Task Force, major revisions were considered and the project will be delayed. The delay will not impact Watermaster's or IEUA's regulatory compliance.
- **Basin Plan Amendment for Chino South Groundwater Management Zone:** The Task Force is currently developing a Basin Plan amendment that will raise the Nitrate-N objective from 4.2 mg/L to 5.0 mg/L. The State Water Board will hold a hearing for this Basin Plan Amendment on February 6, 2018.
- **Watermaster and IEUA have been diligently working on changes to the operational aspects of the Task Force to correct some issues identified in the past year, including the delegation of leadership of the Task Force to SAWPA and the lack of engagement of participating agencies. Watermaster and IEUA proposed changes to the functionality of the Task Force and those changes will be discussed further at the February 2018 meeting.**

Category:



Water Quality



The Basin Monitoring Program Task Force is a watershed effort by 17 agencies administered by SAWPA. Its main task is to create periodic reports about the concentrations of TDS and Salt in the watershed and to cooperate with the Regional Water Quality Control Board to update assimilative capacities.



UPPER SANTA ANA RIVER HABITAT CONSERVATION PLAN

Watermaster and IEUA participate in the Upper Santa Ana River Habitat Conservation Plan with other agencies in the Upper Watershed. The covered activities for Watermaster and IEUA under the HCP are the maintenance and enhancements of recharge basins under the RMPU. The modeling work for the minimum flows required to obtain a non-jeopardy opinion for the Santa Ana Sucker has concluded and it was determined at 36 cfs. The member agencies are now in the process of drafting an agreement to create a Joint Powers Authority to administer the Mitigation Bank and other aspects of the Habitat Conservation Plan.

Integrated Groundwater Model for the Upper Santa Ana River

USFWS and CDFW expressed interest in analyzing the effects of the proposed covered activities in the flows of the Santa Ana River. The team proposed the creation of an integrated groundwater model that would analyze the surface water and groundwater interactions in the entire Upper Watershed. Geoscience was the selected consultant to conduct this work. San Bernardino Valley Municipal Water District, in partnership with IEUA, Western Municipal Water District, Orange County Water District and USFWS applied for a one million dollar grant to fund this effort and will receive a determination in early 2018.

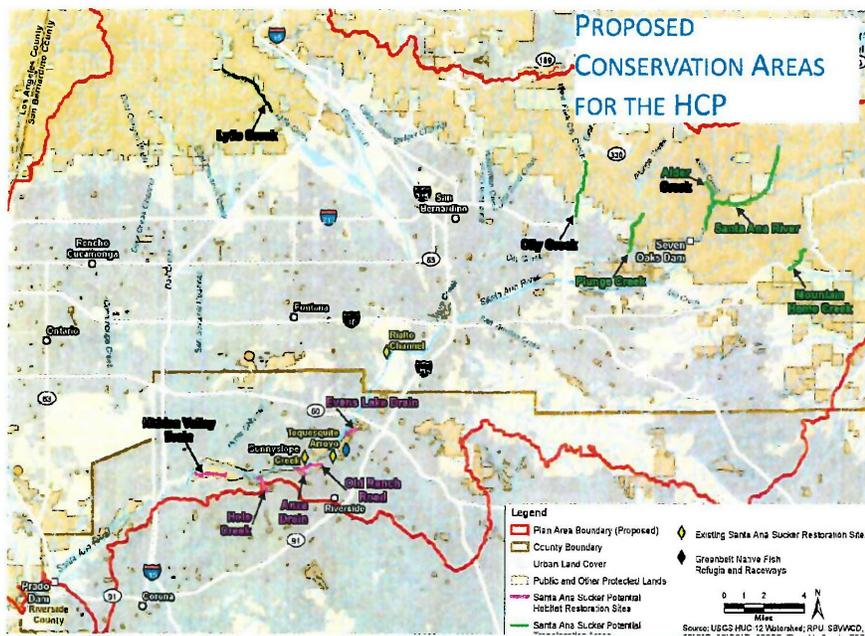
Categories:



Basin Management



Habitat Conservation / Monitoring



The Upper Santa Ana River Habitat Conservation Plan is a multi-agency effort administered by San Bernardino Valley Municipal Water District. Its mission is to expedite application for incidental take permits of certain endangered species within the watershed by providing habitat restoration / conservation in the Upper Watershed.



PRADO BASIN ADAPTIVE MANAGEMENT PLAN

Pursuant to the Mitigation Measure 4.4-3 of the Peace II Subsequent Environmental Impact Report (SEIR), Watermaster and IEUA implemented an Adaptive Management Plan (AMP) for the Prado Basin Habitat Sustainability Program (PBHSP) to monitor the riparian habitat in the Prado Basin as a contingency measure to ensure that the riparian habitat will not incur unforeseeable significant adverse effects from Peace II Agreement implementation. The AMP outlines a monitoring program of riparian habitat and the factors that could potentially affect the riparian habitat, which include, but are not limited to: groundwater levels, surface-water discharge, weather events, long-term climate, and annual data analysis and reporting. A key element of the AMP is its adaptive nature—Watermaster and IEUA can adjust the AMP as warranted by the data.

On March 13, 2018 the Watermaster Engineer will present the Scope of Work and Proposed Budget for the Fiscal Year 2018/2019.

On April 24, 2018 the Watermaster Engineer will present the first draft of the 2017 Prado Basin Habitat Sustainability Program Report to the Committee for review and comment.

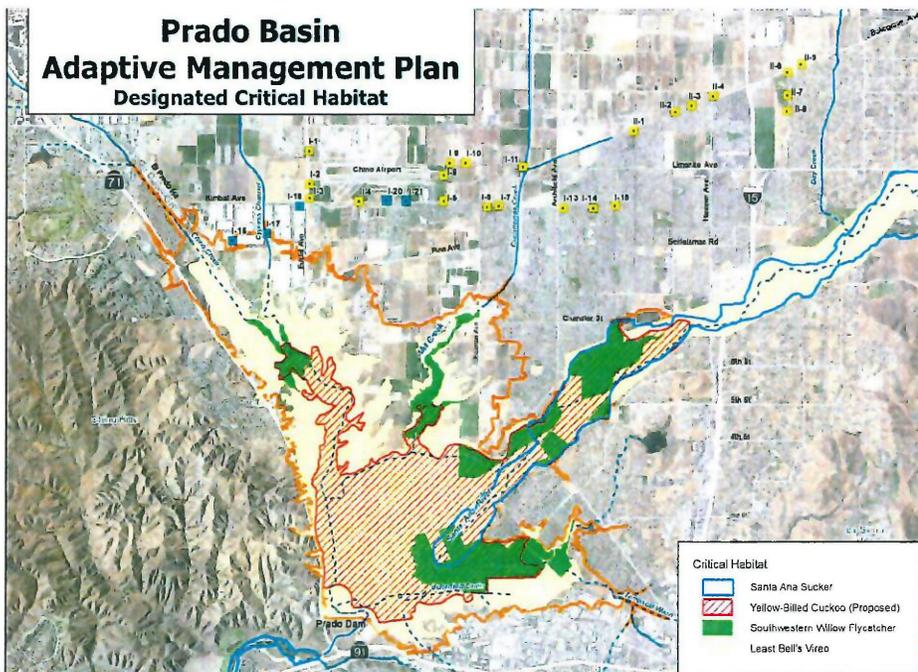
Categories:



Basin Management



Habitat Conservation / Monitoring



The Prado Basin Adaptive Management Plan is an extensive monitoring program funded by Watermaster parties to analyze possible effects in the Prado habitat due to Basin management activities pursuant to the Peace II agreement.



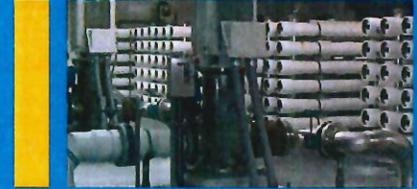
SANTA ANA RIVER CONSERVATION AND CONJUNCTIVE USE PROGRAM

The Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) is a watershed-wide initiative with up to \$100M funding provided by Prop 1 and Prop 84 with matching funds from each agency. It consists in four different initiatives aimed at improving water reliability while enhancing conservation in the region. The four components of SARCCUP are:

- Santa Ana Sucker Habitat Restoration
- Arundo Removal
- Water Conservation Measures
- Conjunctive Use Program

The conjunctive use program envisioned the creation of three water banks: Bunker Hill / San Bernardino Basin, San Jacinto Basin and Chino Basin. After multiple iterations, the SARCCUP participating agencies agreed to include some storage capacity in Orange County Water District service area and increase the storage in the San Jacinto Basin and decrease the Chino Basin storage to 48,000 AF.

Categories:



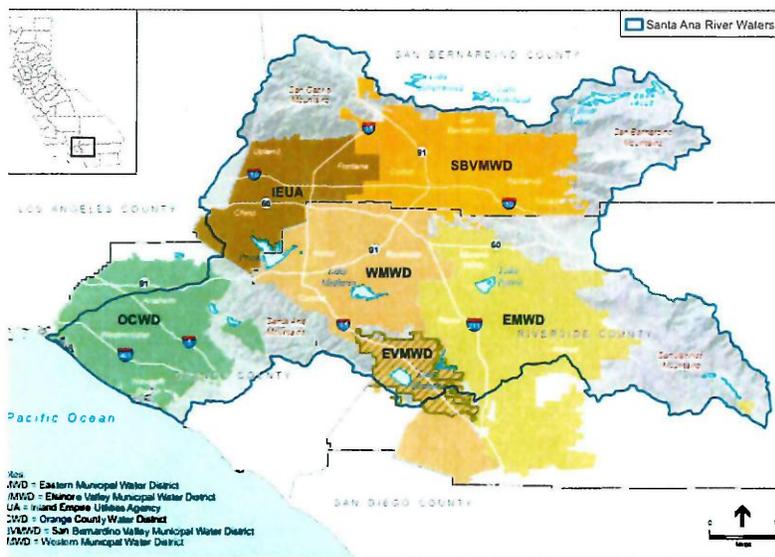
Basin Management



Habitat Conservation / Monitoring



Storage and Conjunctive Use



The Santa Ana River Conservation and Conjunctive Use Program is a watershed-wide initiative by the 5 SAWPA member agencies to improve reliability and resiliency of the water supply in the region by developing a regional storage and recovery program that will allow banking of up to 500 thousand AF during wet years.



CONCLUSIONS

The Chino Basin is a very important component of the Santa Ana River hydrology. The symbiotic relationship between these two water bodies is vital for the environmental and economic security of the region. Given the importance of this relationship, Watermaster is committed to monitoring and participating in the various activities and issues within the Santa Ana River watershed.

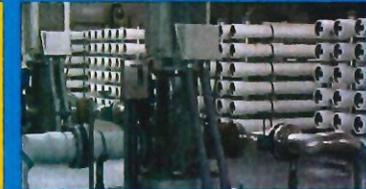
The current happenings could decrease the flows to the river due to recycling and reuse water activities in the Upper Watershed, however, some Conjunctive Use activities proposed could bring water to the Basin during wet years.

Watermaster will remain working closely with the regulatory agencies to reassure them of our continued commitment in complying with our monitoring and reporting obligations with the highest quality and in a timely manner.

Watermaster will continue to be an active participant in the activities performed in the watershed and will work cooperatively with the members of the region to ensure the best and most equitable use of our water resources.



Water Quality



Basin Management



Habitat Conservation / Monitoring



Storage and Conjunctive Use

