CHINO BASIN WATERMASTER



NOTICE OF MEETINGS

Thursday, October 11, 2018

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

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

CHINO BASIN WATERMASTER

Thursday, October 11, 2018

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

POOL AGENDAS

CHINO BASIN WATERMASTER APPROPRIATIVE POOL MEETING

9:00 a.m. – October 11, 2018 WITH Ms. Teri Layton, Chair Mr. Van Jew, Vice-Chair At The Offices Of Chino Basin Watermaster 9641 San Bernardino Road Rancho Cucamonga, CA 91730

AGENDA

CALL TO ORDER

AGENDA - ADDITIONS/REORDER

I. CONSENT CALENDAR

Note: All matters listed under the Consent Calendar are considered to be routine and noncontroversial 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

Approve as presented:

1. Minutes of the Appropriative Pool Meeting held September 13, 2018 (Page 1)

B. FINANCIAL REPORTS

Receive and file as presented:

- 1. Cash Disbursements for the month of August 2018 (Page 19)
- 2. Watermaster VISA Check Detail for the month of August 2018 (Page 33)
- 3. Combining Schedule for the Period July 1, 2018 through August 31, 2018 (Page 37)
- 4. Treasurer's Report of Financial Affairs for the Period July 1, 2018 through August 31, 2018 (*Page 41*)
- 5. Budget vs. Actual Report for the Period July 1, 2018 through August 31, 2018 (Page 45)
- C. CONSIDERATION OF APPLICATION FOR LOCAL STORAGE AGREEMENTS APPROPRIATIVE POOL (Page 63)

Recommend to the Advisory Committee to recommend that the Watermaster Board approves the application for local storage agreements as presented.

D. CONSIDERATION OF APPLICATION FOR LOCAL STORAGE AGREEMENTS – OVERLYING (NON-AGRICULTURAL) POOL (Page 71)

Recommend to the Advisory Committee to recommend that the Watermaster Board approves the application for local storage agreements as presented.

II. BUSINESS ITEMS

A. CHINO BASIN STORAGE FRAMEWORK (Page 79)

Recommend that the Advisory Committee recommend to the Watermaster Board to receive and file the Final Storage Framework Investigation Report, and authorize the use of the tools and technical information developed by the investigation for storage planning and future evaluations.

B. SAFE YIELD RESET-RELATED AGREEMENT DISCUSSION (*Page 83*) Discussion and possible action.

III. <u>REPORTS/UPDATES</u>

A. LEGAL COUNSEL REPORT

- 1. Appeal of April 28, 2017 Order
- 2. December 28, 2018 Hearing

B. ENGINEER REPORT

- 1. Fiscal Year 2017/18 GLMC Annual Report
- 2. Plumes Status Reports
- 3. Safe Yield Recalculation
- 4. Geoscience Data Request for Integrated Model

C. CFO REPORT

1. FY 2018/19 Assessment Package

D. GM REPORT

- 1. Introduction of New Employees
- 2. FY 2018/19 Exhibit "G" Physical Solution Transfer Rate
- 3. Habitat Conservation Plan
- 4. Other

IV. INFORMATION

- 1. Cash Disbursements for September 2018 (Page 85)
- 2. Recharge Investigations and Projects Committee (RIPCom) (Page 95)
- 3. Plumes Status Reports (Page 119)

V. POOL MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

A Confidential Session may be held during the Pool Committee meeting for the purpose of discussion and possible action.

1. Appropriative Pool Strategic Planning Discussion

VIII. FUTURE MEETINGS AT WATERMASTER

10/11/18	Thu	9:00 a.m.	Appropriative Pool
10/11/18	Thu	11:00 a.m.	Non-Agricultural Pool
10/11/18	Thu	1:30 p.m.	Agricultural Pool
10/18/18	Thu	8:00 a.m.	Appropriative Pool Strategic Planning (Confidential Session Only)
10/18/18	Thu	9:00 a.m.	Advisory Committee
10/18/18	Thu	9:30 a.m.	Recharge Investigations and Projects Committee
10/23/18	Tue	1:00 p.m.	Fiscal Year 2018/19 Assessment Package Workshop #1
10/25/18	Thu	11:00 a.m.	Watermaster Board
10/30/18	Tue	1:00 p.m.	Fiscal Year 2018/19 Assessment Package Workshop #2 (If Needed)

ADJOURNMENT

CHINO BASIN WATERMASTER NON-AGRICULTURAL POOL MEETING

11:00 a.m. – October 11, 2018 **WITH** *Mr. Brian Geye, Chair*

Mr. Bob Bowcock, Vice-Chair (800) 930-9525 PASS CODE: 917924 Call can be taken at Chino Basin Watermaster 9641 San Bernardino Road Rancho Cucamonga, CA 91730

<u>AGENDA</u>

CALL TO ORDER

ROLL CALL

AGENDA - ADDITIONS/REORDER

I. BUSINESS ITEMS - ROUTINE

A. MINUTES

- Receive and file as presented:
- 1. Minutes of the Non-Agricultural Pool Meeting held September 13, 2018 (Page 7)

B. FINANCIAL REPORTS

Receive and file as presented:

- 1. Cash Disbursements for the month of August 2018 (Page 19)
- 2. Watermaster VISA Check Detail for the month of August 2018 (Page 33)
- 3. Combining Schedule for the Period July 1, 2018 through August 31, 2018 (Page 37)
- 4. Treasurer's Report of Financial Affairs for the Period July 1, 2018 through August 31, 2018 (*Page 41*)
- 5. Budget vs. Actual Report for the Period July 1, 2018 through August 31, 2018 (Page 45)

C. CONSIDERATION OF APPLICATION FOR LOCAL STORAGE AGREEMENTS -

APPROPRIATIVE POOL (Page 63)

Recommend to the Advisory Committee to recommend that Watermaster Board approves the application for local storage agreements as presented.

II. BUSINESS ITEMS

A. CHINO BASIN STORAGE FRAMEWORK (Page 79)

Recommend that the Advisory Committee recommend to the Watermaster Board to receive and file the Final Storage Framework Investigation Report, and authorize the use of the tools and technical information developed by the investigation for storage planning and future evaluations.

B. SAFE YIELD RESET-RELATED AGREEMENT DISCUSSION (*Page 83*) Discussion and possible action.

C. MEMBER STATUS CHANGES (For Discussion and Possible Action)

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

III. <u>REPORTS/UPDATES</u>

- A. LEGAL COUNSEL REPORT
 - 1. Appeal of April 28, 2017 Order
 - 2. December 28, 2018 Hearing

B. ENGINEER REPORT

- 1. Fiscal Year 2017/18 GLMC Annual Report
- 2. Plumes Status Reports
- 3. Safe Yield Recalculation
- 4. Geoscience Data Request for Integrated Model

C. CFO REPORT

1. FY 2018/19 Assessment Package

D. GM REPORT

- 1. Introduction of New Employees
- 2. FY 2018/19 Exhibit "G" Physical Solution Transfer Rate
- 3. Habitat Conservation Plan
- 4. Consideration of Application for Local Storage Agreements Overlying (Non-Agricultural) Pool
- 5. Other

IV. INFORMATION

- 1. Cash Disbursements for September 2018 (Page 85)
- 2. Recharge Investigations and Projects Committee (RIPCom) (Page 95)
- 3. Plumes Status Reports (Page 119)

V. POOL MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

A Confidential Session may be held during the Pool Committee meeting for the purpose of discussion and possible action.

- 1. Safe Yield Reset-Related Agreement
- 2. Exhibit G Paragraph 9 Water Transfers
- 3. Non-Agricultural Pool Pooling Plan

VIII. FUTURE MEETINGS AT WATERMASTER

10/11/18	Thu	9:00 a.m.	Appropriative Pool
10/11/18	Thu	11:00 a.m.	Non-Agricultural Pool
10/11/18	Thu	1:30 p.m.	Agricultural Pool
10/18/18	Thu	8:00 a.m.	Appropriative Pool Strategic Planning (Confidential Session Only)
10/18/18	Thu	9:00 a.m.	Advisory Committee
10/18/18	Thu	9:30 a.m.	Recharge Investigations and Projects Committee
10/23/18	Tue	1:00 p.m.	Fiscal Year 2018/19 Assessment Package Workshop #1
10/25/18	Thu	11:00 a.m.	Watermaster Board
10/30/18	Tue	1:00 p.m.	Fiscal Year 2018/19 Assessment Package Workshop #2 (If Needed)

ADJOURNMENT

CHINO BASIN WATERMASTER AGRICULTURAL POOL MEETING

1:30 p.m. – October 11, 2018 **WITH**

Mr. Bob Feenstra, Chair Mr. Jeff Pierson, Vice-Chair At The Offices Of Chino Basin Watermaster 9641 San Bernardino Road Rancho Cucamonga, CA 91730

<u>AGENDA</u>

CALL TO ORDER

AGENDA - ADDITIONS/REORDER

I. CONSENT CALENDAR

Note: All matters listed under the Consent Calendar are considered to be routine and noncontroversial 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

Approve as presented:

1. Minutes of the Agricultural Pool Meeting held on September 13, 2018 (Page 13)

B. FINANCIAL REPORTS

Receive and file as presented:

- 1. Cash Disbursements for the month of August 2018 (Page 19)
- 2. Watermaster VISA Check Detail for the month of August 2018 (Page 33)
- 3. Combining Schedule for the Period July 1, 2018 through August 31, 2018 (Page 37)
- 4. Treasurer's Report of Financial Affairs for the Period July 1, 2018 through August 31, 2018 (*Page 41*)
- 5. Budget vs. Actual Report for the Period July 1, 2018 through August 31, 2018 (Page 45)

C. CONSIDERATION OF APPLICATION FOR LOCAL STORAGE AGREEMENTS – APPROPRIATIVE POOL (Page 63)

Recommend to the Advisory Committee to recommend that Watermaster Board approves the application for local storage agreements as presented.

D. CONSIDERATION OF APPLICATION FOR LOCAL STORAGE AGREEMENTS -

OVERLYING (NON-AGRICULTURAL) POOL (Page 71)

Recommend to the Advisory Committee to recommend that Watermaster Board approves the application for local storage agreements as presented.

II. BUSINESS ITEMS

A. CHNO BASIN STORAGE FRAMEWORK (Page 79)

Recommend that the Advisory Committee recommend to the Watermaster Board to receive and file the Final Storage Framework Investigation Report, and authorize the use of the tools and technical information developed by the investigation for storage planning and future evaluations.

B. SAFE YIELD RESET-RELATED AGREEMENT DISCUSSION (*Page 83*) Discussion and possible action.

C. OLD BUSINESS

• Agricultural Pool Fund Balance

III. REPORTS/UPDATES

A. LEGAL COUNSEL REPORT

- 1. Appeal of April 28, 2017 Order
- 2. December 28, 2018 Hearing

B. ENGINEER REPORT

- 1. Fiscal Year 2017/18 GLMC Annual Report
- 2. Plumes Status Reports
- 3. Safe Yield Recalculation
- 4. Geoscience Data Request for Integrated Model

C. CFO REPORT

1. FY 2018/19 Assessment Package

D. GM REPORT

- 1. Introduction of New Employees
- 2. FY 2018/19 Exhibit "G" Physical Solution Transfer Rate
- 3. Habitat Conservation Plan
- 4. Other

IV. INFORMATION

- 1. Cash Disbursements for September 2018 (Page 85)
- 2. Recharge Investigations and Projects Committee (RIPCom) (Page 95)
- 3. Plumes Status Reports (Page 119)

V. POOL DISCUSSION

- 1. Chairman's Update
- 2. Pool Member Comments

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

A Confidential Session may be held during the Pool Committee meeting for the purpose of discussion and possible action.

- 1. Appeal of April 28, 2017 Order
- 2. December 28, 2018 Hearing
- 3. Non-Agricultural Pool Filing
- 4. Storage

VIII. FUTURE MEETINGS AT WATERMASTER

10/11/18	Thu	9:00 a.m.	Appropriative Pool
10/11/18	Thu	11:00 a.m.	Non-Agricultural Pool
10/11/18	Thu	1:30 p.m.	Agricultural Pool
10/18/18	Thu	8:00 a.m.	Appropriative Pool Strategic Planning (Confidential Session Only)
10/18/18	Thu	9:00 a.m.	Advisory Committee

10/18/18	Thu	9:30 a.m.	Recharge Investigations and Projects Committee
10/23/18	Tue	1:00 p.m.	Fiscal Year 2018/19 Assessment Package Workshop #1
10/25/18	Thu	11:00 a.m.	Watermaster Board
10/30/18	Tue	1:00 p.m.	Fiscal Year 2018/19 Assessment Package Workshop #2 (If Needed)

ADJOURNMENT

CHINO BASIN WATERMASTER

I. <u>CONSENT CALENDAR</u> A. MINUTES

1. Appropriative Pool Meeting held on September 13, 2018

DRAFT MINUTES CHINO BASIN WATERMASTER APPROPRIATIVE POOL MEETING

September 13, 2018

The Appropriative Pool meeting was held at the offices of Chino Basin Watermaster located at 9641 San Bernardino Road, Rancho Cucamonga, CA on September 13, 2018.

APPROPRIATIVE POOL MEMBERS PRESENT

Teri Layton, Chair Van Jew, Vice-Chair Todd Corbin Raul Garibay for Darron Poulsen John Bosler Ron Craig Ben Lewis Cris Fealy Eric Tarango Rosemary Hoerning Katie Gienger for Scott Burton Dave Crosley

WATERMASTER BOARD MEMBERS PRESENT

Bob Kuhn Eunice Ulloa

WATERMASTER STAFF PRESENT

Peter Kavounas Joseph Joswiak Edgar Tellez Foster Anna Nelson Justin Nakano

WATERMASTER CONSULTANTS PRESENT

Brad Herrema Mark Wildermuth Andy Malone Carolina Sanchez

OTHERS PRESENT

Curtis Paxton Shaun Stone Scott Burton Eric Grubb Courtney Jones Steve Sentes Chris Diggs Joshua Aguilar Amanda Coker Manny Martinez John Schatz

CALL TO ORDER

Chair Layton called the Appropriative Pool meeting to order at 9:00 a.m.

San Antonio Water Company Monte Vista Water District Jurupa Community Services District City of Pomona Cucamonga Valley Water District City of Chino Hills Golden State Water Company Fontana Water Company Fontana Union Water Company City of Upland City of Ontario City of Chino

Three Valleys Municipal Water District City of Chino

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

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

Chino Basin Desalter Authority Inland Empire Utilities Agency City of Ontario Cucamonga Valley Water District City of Ontario Chino Basin Water Conservation District City of Pomona Inland Empire Utilities Agency City of Chino Monte Vista Water District John J. Schatz, Attorney at Law

AGENDA – ADDITIONS/REORDER

(0:00:19) Chair Layton called for confidential session to be taken first due to time constraint for the Appropriative Pool legal counsel.

(0:01:06) Chair Layton called for Business Item II.D. to be taken following confidential session, and invited Mr. Corbin to speak. See reportable action in sequence below.

I. <u>CONSENT CALENDAR</u>

A. MINUTES

- Approve as presented:
- 1. Minutes of the Appropriative Pool Meeting held August 9, 2018

B. FINANCIAL REPORTS

Receive and file as presented:

- 1. Cash Disbursements for the month of July 2018
- 2. Watermaster VISA Check Detail for the month of July 2018
- 3. Combining Schedule for the Period July 1, 2018 through July 31, 2018
- 4. Treasurer's Report of Financial Affairs for the Period July 1, 2018 through July 31, 2018
- 5. Budget vs. Actual Report for the Period July 1, 2018 through July 31, 2018

C. OBMP SEMI-ANNUAL STATUS REPORTS 2018-1

Recommend to the Advisory Committee recommend to the Watermaster Board to adopt the Semi-Annual OBMP Status Report 2018-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

D. CONSIDERATION OF APPLICATION FOR LOCAL STORAGE AGREEMENTS – OVERLYING (NON-AGRICULTURAL) POOL

Recommend to the Advisory Committee to recommend that Watermaster Board approves the application for local storage agreements as presented.

(0:05:35) Ms. Hoerning asked for Item I.D. be pulled from the agenda for separate discussion and made a motion to approve Consent Calendar Items I.A – I.C. and was seconded by Vice-Chair Jew.

(0:05:55) Mr. Kavounas reported that Item I.C., OBMP Semi-Annual Status Report 2018-1, has a minor wording change to refine the intended meaning of the report on page 60, third bullet-point.

(0:07:04) The maker of the motion accepted the changes that Mr. Kavounas reported.

(0:07:20) Vote Taken

Motion by Ms. Rosemary Hoerning, seconded by Vice-Chair Van Jew, and by unanimous vote Moved to approve Consent Calendar Items I.A. – I.C. as presented.

(0:07:33) Ms. Hoerning asked questions regarding Item I.D. A discussion ensued.

(0:27:09) Motion introduced by Mr. Crosley and seconded by Chair Layton. Further discussion ensued.

(0:29:12) Vote Taken

Motion by Mr. Dave Crosley, seconded by Chair Teri Layton, and by unanimous vote Moved to defer Consent Calendar Item I.D., reach out to the Non-Ag Pool to discuss, and bring back to October 2018 Pool meeting.

II. BUSINESS ITEMS

A. FISCAL YEAR 2018/19 BUDGET TRANSFER (FORM T-18-07-01)

Recommend to the Advisory Committee to approve Fiscal Year 2018/19 Budget Transfer (Form T-18-07-01).

(0:30:20) Mr. Joswiak gave a report. A discussion ensued.

Mr. Corbin left at 10:46 a.m.

(0:44:54)

Motion by Mr. Van Jew, seconded by Mr. Ron Craig, and by unanimous vote Moved to approve Business Item II.A. as presented.

B. 2018 RECHARGE MASTER PLAN UPDATE AND RESOLUTION NO. 2018-04

Recommend Advisory Committee to recommend to Watermaster Board to approve the 2018 RMPU as presented and adopt Resolution No. 2018-04.

(0:45:35) Ms. Sanchez from Wildermuth Environmental, Inc. gave a presentation. A discussion ensued.

(0:58:51)

Motion by Mr. Ron Craig, seconded by Ms. Rosemary Hoerning, and by unanimous vote Moved to approve Business Item II.B. as presented.

C. TASK ORDER NO. 4 UNDER MASTER AGREEMENT FOR COLLABORATIVE PROJECTS: CHINO BASIN CONJUNCTIVE USE ENVIRONMENTAL WATER STORAGE/EXCHANGE PROGRAM EVALUATION AND CONCEPTUAL DESIGN SUPPORT.

Recommend to the Advisory Committee to approve Task Order No. 4 Under Master Agreement for Collaborative Projects: Chino Basin Conjunctive Use Environmental Water Storage/Exchange Program Evaluation and Conceptual Design Support.

(0:59:16) Mr. Kavounas prefaced Business Item II.C. and introduced Mr. Aguilar from Inland Empire Utilities Agency to give a report.

Vice-Chair Jew left the meeting at 11:12 a.m.

Ms. Hoerning left the meeting at 11:13 a.m.

(0:59:53) Mr. Aguilar gave a report.

(1:03:43) Ms. Gienger requested to modify the language on page 115, regarding the last sentence of the first bullet-point under *Proposed* to read "The proposed maximum storage capacity..." Further discussion ensued.

(1:10:46)

Motion by Mr. John Bosler, seconded by Mr. Raul Garibay, and by unanimous vote Moved to approve Business Item II.C. as presented with the modifications as stated above.

Abstention by Mr. Ron Craig – City of Chino Hills

D. SAFE YIELD RESET-RELATED AGREEMENT DISCUSSION

Discussion and possible action.

This item was taken first after Confidential Session.

(0:02:55) Motion introduced by Mr. Corbin, seconded by Ms. Gienger: The Appropriative Pool approves the 2018 Agreement to Judgment and CAMA Amendments including Exhibit A, subject to the following four conditions:

- 1. That there is a clarification that the Desalter Replenishment formula with respect to adjusted physical production included in this document includes the production of Exhibit "G," Section 9 transferred water from the Non-Ag Pool to the Appropriative Pool. That was an element that was discussed and our goal here is to just make sure that the language is consistent to what we believe the agreement is between the parties, so we'd like to add that.
- 2. That the Non-Ag Pooling Plan that is going to be discussed at some point in the future, and I believe today on the Non-Ag Pool agenda, that that Pooling Plan be refined for consistency with this element so that both documents are consistent with each other in relation specifically to Exhibit "G," Section 9.
- 3. That the Appropriative Pool parties intend to recommend this agreement to their governing boards and that this approval is conditional upon that approval of each of the governing boards.
- 4. The Appropriative Pool further request confirmation from Watermaster that the agreements provide sufficient clarity for Watermaster to implement them without ambiguity. Some evaluation from Watermaster that what you have before you can be implemented, and any clarification needs to happen, then let's do it before it moves to the Court for approval.

(0:05:16) Vote taken

Motion by Mr. Todd Corbin, seconded by Ms. Katie Gienger, and by unanimous vote Motion to approve Business Item II.D. as shown above.

III. <u>REPORTS/UPDATES</u>

A. LEGAL COUNSEL REPORT

- 1. Appeal of April 28, 2017 Order
- 2. August 24, 2018 Hearing

(1:11:30) Mr. Kavounas reported on behalf of Mr. Herrema, who left to attend the Non-Agricultural Pool Meeting.

B. ENGINEER REPORT

- 1. Storage Framework
- 2. Fiscal Year 2017/18 GLMC Annual Report

(1:13:00) Mr. Malone gave a report.

C. CFO REPORT

None

D. GM REPORT

- 1. Proposed Changes to DYY Program Operation
- 2. CDA Production
- 3. Changes to the Overlying (Non-Agricultural) Pool Pooling Plan
- 4. Other

(1:14:22) Mr. Kavounas gave a report, and announced that Watermaster will be sending out a "Save-The-Date" notice for its 40th Judgment Anniversary event on December 4, 2018 at 4:00 p.m. He also provided a status update on the Assessment Packages, and commented on the CalDesal membership. A discussion ensued.

IV. INFORMATION

- 1. Cash Disbursements for August 2018
- 2. Recharge Investigations and Projects Committee (RIPCom)

VI. POOL MEMBER COMMENTS

(1:20:06) Mr. Craig commented that at least one agency (maybe more) are challenging the TCP MCL. A discussion ensued.

(1:22:56) Mr. Corbin informed the Pool that he updated Non-Agricultural Pool on the actions the Appropriative Pool took regarding Consent Calendar Item I.D. and Business Item II.D., and that the Non-Agricultural Pool will discuss further in its confidential session.

VI. OTHER BUSINESS

None

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

Chair Layton called for a confidential session at 9:01 a.m. to discuss Business Item II.D., Safe Yield-Related Agreement, and Appropriative Pool Strategic Planning. Confidential session concluded at 10:13 a.m. with no reportable action .

The Appropriative Pool considered Item II.D immediately following the Confidential Session.

ADJOURNMENT

Chair Layton adjourned the Appropriative Pool meeting at 11:38 a.m.

Secretary:_____

Approved:_____

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CHINO BASIN WATERMASTER

I. <u>BUSINESS ITEM – ROUTINE</u> A. MINUTES

1. Non-Agricultural Pool Meeting held on September 13, 2018

DRAFT MINUTES CHINO BASIN WATERMASTER NON-AGRICULTURAL POOL MEETING

September 13, 2018

The Non-Agricultural Pool meeting was held at the offices of Chino Basin Watermaster and via conference call using the Chino Basin Watermaster conference call number on September 13, 2018.

NON-AGRICULTURAL POOL MEMBERS PRESENT AT WATERMASTER

Brian Geye, Chair Andrew Silva for Bob Page California Speedway Corporation County of San Bernardino (Non-Ag)

NON-AGRICULTURAL POOL MEMBERS PRESENT ON CALL

Bob Bowcock, Vice-Chair Ramsey Haddad Tom O'Neill CalMat Co. California Steel Industries City of Ontario (Non-Ag)

WATERMASTER BOARD MEMBER PRESENT AT WATERMASTER

Bob Kuhn

Three Valleys Municipal Water District

WATERMASTER STAFF PRESENT AT WATERMASTER

Joseph Joswiak Edgar Tellez Foster Anna Nelson Justin Nakano Janine Wilson

Chief Financial Officer Senior Environmental Engineer Executive Services Director/Board Clerk Water Resources Senior Associate Senior Accountant

WATERMASTER CONSULTANTS PRESENT AT WATERMASTER

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

OTHERS PRESENT AT WATERMASTER

Todd Corbin Joshua Aguilar Jurupa Community Services District Inland Empire Utilities Agency

NON-AGRICULTURAL POOL LEGAL COUNSEL PRESENT ON CALL

Allen Hubsch

Loeb & Loeb, LLP

CALL TO ORDER

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

ROLL CALL

Ms. Wilson conducted the roll call.

AGENDA – ADDITIONS/REORDER

None

I. BUSINESS ITEMS - ROUTINE

A. MINUTES

Receive and file as presented:

1. Minutes of the Non-Agricultural Pool Meeting held August 9, 2018

(0:01:51)

Motion by Mr. Andrew Silva, seconded by Mr. Tom O'Neill. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present. Moved to receive and file Business Item I.A. as presented.

B. FINANCIAL REPORTS

Receive and file as presented:

- 1. Cash Disbursements for the month of July 2018
- 2. Watermaster VISA Check Detail for the month of July 2018
- 3. Combining Schedule for the Period July 1, 2018 through July 31, 2018
- 4. Treasurer's Report of Financial Affairs for the Period July 1, 2018 through July 31, 2018
- 5. Budget vs. Actual Report for the Period July 1, 2018 through July 31, 2018

(0:02:13)

Motion by Mr. Andrew Silva, seconded by Vice-Chair Bob Bowcock. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present. **Moved to receive and file Business Item I.B. without approval as presented.**

C. OBMP SEMI-ANNUAL STATUS REPORTS 2018-1

Recommend to the Advisory Committee recommend to the Watermaster Board to adopt the Semi-Annual OBMP Status Report 2018-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

(0:02:48) Mr. Tellez Foster reported that Item I.C., OBMP Semi-Annual Status Report 2018-1, has a minor wording change to refine the intended meaning of the report on page 60, third bullet-point.

(0:03:43)

Motion by Mr. Andrew Silva, seconded by Mr. Tom O'Neill. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.

Moved to approve staff recommendation of Business Item I.C. and to direct the Pool representatives to support at the Advisory Committee and Watermaster Board meetings subject to changes which they deem appropriate with the changes noted above.

D. CONSIDERATION OF APPLICATION FOR LOCAL STORAGE AGREEMENTS – OVERLYING (NON-AGRICULTURAL) POOL

Recommend to the Advisory Committee to recommend that Watermaster Board approves the application for local storage agreements as presented.

(0:04:06) Mr. Herrema gave a report.

(0:04:43) Mr. Corbin gave a report. A discussion ensued.

The Pool took Business Item I.D. during confidential session and the reportable actions are provided in sequence below.

II. BUSINESS ITEMS

A. FISCAL YEAR 2018/19 BUDGET TRANSFER (FORM T-18-07-01)

Recommend to the Advisory Committee to approve Fiscal Year 2018/19 Budget Transfer (Form T-18-07-01).

(0:08:40) Mr. Joswiak gave a report.

(0:10:33)

Motion by Mr. Andrew Silva, seconded by Mr. Tom O'Neill. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.

Moved to approve staff recommendation of Business Item II.A. and to direct the Pool representatives to support at the Advisory Committee and Watermaster Board meetings subject to changes which they deem appropriate.

B. 2018 RECHARGE MASTER PLAN UPDATE AND RESOLUTION NO. 2018-04

Recommend Advisory Committee to recommend to Watermaster Board to approve the 2018 RMPU as presented and adopt Resolution No. 2018-04.

(0:12:29) Ms. Sanchez from Wildermuth Environmental, Inc. gave a presentation. A discussion ensued.

(0:19:19)

Motion by Mr. Andrew Silva, seconded by Mr. Tom O'Neill. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.

Moved to approve staff recommendation of Business Item II.B. and to direct the Pool representatives to support at the Advisory Committee and Watermaster Board meetings subject to changes which they deem appropriate.

C. TASK ORDER NO. 4 UNDER MASTER AGREEMENT FOR COLLABORATIVE PROJECTS: CHINO BASIN CONJUNCTIVE USE ENVIRONMENTAL WATER STORAGE/EXCHANGE PROGRAM EVALUATION AND CONCEPTUAL DESIGN SUPPORT.

Recommend to the Advisory Committee to approve Task Order No. 4 Under Master Agreement for Collaborative Projects: Chino Basin Conjunctive Use Environmental Water Storage/Exchange Program Evaluation and Conceptual Design Support.

(0:19:50) Mr. Tellez Foster gave a preface of Business Item II.C. A discussion ensued.

(0:22:01) Mr. Aguilar from Inland Empire Utilities Agency gave a report. A discussion ensued.

(0:24:50)

Motion by Vice-Chair Bob Bowcock, seconded by Mr. Andrew Silva. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.

Moved to approve staff recommendation of Business Item II.C. and to direct the Pool representatives to support at the Advisory Committee and Watermaster Board meetings subject to changes which they deem appropriate.

D. SAFE YIELD RESET-RELATED AGREEMENT DISCUSSION Discussion and possible action.

Discussion and possible action.

(0:25:26) Mr. Corbin gave a report. A discussion ensued.

The Pool took Business Item II.D. during confidential session and the reportable actions are provided in sequence below.

E. CHANGES TO THE OVERLYING (NON-AGRICULTURAL) POOL POOLING PLAN Discussion and possible action.

The Pool took Business Item II.E. during confidential session and the reportable actions are provided in sequence below.

F. MEMBER STATUS CHANGES (For Discussion and Possible Action)

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

(0:31:09) Mr. Herrema reported that Watermaster was not aware of any member status changes.

III. <u>REPORTS/UPDATES</u>

- A. LEGAL COUNSEL REPORT
 - 1. Appeal of April 28, 2017 Order
 - 2. August 24, 2018 Hearing

(0:31:20) Mr. Herrema gave a report.

B. ENGINEER REPORT

- 1. Storage Framework
- 2. Fiscal Year 2017/18 GLMC Annual Report

(0:32:57) Mr. Malone gave a report.

C. CFO REPORT

None

D. GM REPORT

- 1. Proposed Changes to DYY Program Operation
- 2. CDA Production
- 3. Other

(0:34:21) Mr. Tellez Foster gave a report on behalf of Mr. Kavounas, who was in attendance at the Appropriative Pool meeting. A discussion ensued.

(0:37:44) Mr. Herrema reported that Watermaster will be sending out a "Save-The-Date" notice for the 40th Judgment Anniversary event on December 4, 2018 at 4:00 p.m. He also commented on the CalDesal membership, and gave an update on the upcoming Assessment Package and workshops. A discussion ensued.

IV. INFORMATION

- 1. Cash Disbursements for August 2018
- 2. Recharge Investigations and Projects Committee (RIPCom)

V. POOL MEMBER COMMENTS

None

VI. OTHER BUSINESS

None

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

Chair Geye called for a confidential session at 11:43 a.m. to discuss Exhibit "G" Transfer Rate Amendment, Peace Agreement Paragraph 5.3(e) Interpretation, Amendments to Judgment and CAMA to Implement Settlement Agreement Regarding Appeal From April 28, 2017 Order, Business Item I.D. Confidential session concluded at 12:32 p.m. with the following reportable actions:

(0:40:24)

1. <u>Business Item I.D., Consideration of Application for Local Storage Agreements – Overlying (Non-Agricultural) Pool:</u>

Approve the Non-Ag Pool's Local Storage Application, direct Advisory and Board representatives to support, and direct Watermaster to agendize the item for the November Advisory Committee meeting.

 Business Item II.D., Safe Yield-Related Agreement Discussion: Recommend Advisory and Board representatives support the Safe Yield Reset Re

Recommend Advisory and Board representatives support the Safe Yield Reset Related Agreement, with a change to 6.2(b)(iv)(5) adding the exclusion of Non-Ag Pool water transferred pursuant to Section 6 or Section 10 of Exhibit G. Direct pool counsel to work with the six-party group to facilitate said change.

3. <u>Business Item II.E., Changes to the Overlying (Non-Agricultural) Pool Pooling Plan</u> Approve Pooling Plan changes with the correction to the Section 6 "assignee/transferee" language, and authorize Pool Chair to direct Pool counsel to file with the Court, when appropriate.

ADJOURNMENT

Chair Geye adjourned the Non-Agricultural Pool meeting at 12:34 p.m.

Secretary: _____

Approved: _____

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CHINO BASIN WATERMASTER

I. <u>CONSENT CALENDAR</u> A. MINUTES

1. Agricultural Pool Meeting held on September 13, 2018

DRAFT MINUTES CHINO BASIN WATERMASTER AGRICULTURAL POOL MEETING

September 13, 2018

The Agricultural Pool meeting was held at the offices of Chino Basin Watermaster located at 9641 San Bernardino Road, Rancho Cucamonga, CA on September 13, 2018.

AGRICULTURAL POOL MEMBERS PRESENT

Bob Feenstra, Chair Jeff Pierson, Vice-Chair Pete Hall Lawrence Dimock Bob Page Marilyn Levin for Carol Boyd John Huitsing Nathan deBoom Ronald Pietersma Ron LaBrucherie, Jr.

Dairy Crops State of California – CIM State of California – CIM County of San Bernardino State of California – DOJ Dairy Dairy Dairy Crops

WATERMASTER BOARD MEMBERS PRESENT

Paul Hofer

Crops

WATERMASTER STAFF PRESENT

Peter Kavounas Joseph Joswiak Edgar Tellez Foster Anna Nelson Justin Nakano

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

WATERMASTER CONSULTANTS PRESENT

Brad Herrema Andy Malone Carolina Sanchez

OTHERS PRESENT

Tracy Egoscue Richard Rees Joshua Aguilar Brownstein Hyatt Farber Schreck, LLP Wildermuth Environmental, Inc. Wildermuth Environmental, Inc.

Egoscue Law Group, Inc. Wood plc Inland Empire Utilities Agency

CALL TO ORDER

Chair Feenstra called the Agricultural Pool meeting to order at 1:35 p.m.

AGENDA – ADDITIONS/REORDER

(0:00:27) Vice-Chair Pierson suggested to take Consent Calendar Item I.D. separately.

(0:00:44) Chair Feenstra pulled Consent Calendar Item I.C. to be taken separately.

I. <u>CONSENT CALENDAR</u>

A. MINUTES

Approve as presented:

1. Minutes of the Agricultural Pool Meeting held on August 9, 2018

B. FINANCIAL REPORTS

Receive and file as presented:

- 1. Cash Disbursements for the month of July 2018
- 2. Watermaster VISA Check Detail for the month of July 2018
- 3. Combining Schedule for the Period July 1, 2018 through July 31, 2018
- 4. Treasurer's Report of Financial Affairs for the Period July 1, 2018 through July 31, 2018
- 5. Budget vs. Actual Report for the Period July 1, 2018 through July 31, 2018

C. OBMP SEMI-ANNUAL STATUS REPORTS 2018-1

Recommend to the Advisory Committee recommend to the Watermaster Board to adopt the Semi-Annual OBMP Status Report 2018-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

D. CONSIDERATION OF APPLICATION FOR LOCAL STORAGE AGREEMENTS – OVERLYING (NON-AGRICULTURAL) POOL

Recommend to the Advisory Committee to recommend that Watermaster Board approves the application for local storage agreements as presented.

(0:01:23)

Motion by Vice-Chair Jeff Pierson, seconded by Mr. Nathan deBoom, and by unanimous vote Moved to approve Consent Calendar Items I.A. and I.B. as presented.

(0:02:22) Ms. Levin asked a question regarding Item I.C. concerning no mention of TCP Plume in Semi-Annual Report 2018-1. A discussion ensued.

(0:04:12) Mr. Kavounas noted that Item I.C., OBMP Semi-Annual Status Report 2018-1, has a minor wording change to refine the intended meaning of the report on page 60, third bullet-point. A discussion ensued.

(0:06:59) Ms. Levin introduced the motion that the Pool conditionally approves Item I.C. to move to the September Advisory Committee meeting if there are non-substantive changes; however, if there are substantive changes, the item will be brought back to the Pool meeting in October. Also, Mr. Kavounas will research if the Pool's request to look at the TCP Plume is relevant to be mentioned in the OBMP Semi-Annual Status Report 2018-1.

(0:07:21)

Motion by Ms. Marilyn Levin, seconded by Mr. Pete Hall, and by unanimous vote Moved to approve Consent Calendar Item I.C. as presented, subject to the notes above.

(0:07:43) The Pool went into Confidential Session.

(0:08:02) Mr. LaBrucherie introduced a motion for Item Consent Calendar Item I.D.

(0:08:14) Mr. Kavounas reported the actions the Appropriative Pool and Non-Agricultural Pool took for Consent Calendar Item I.D.

(0:08:39) Vote Taken

Motion by Mr. Ron LaBrucherie, Jr., seconded by Mr. Nathan deBoom, and by unanimous vote Moved bring Consent Calendar Item I.D. back to the October 2018 Pool meetings.

Abstention by Mr. Bob Page – County of San Bernardino

II. BUSINESS ITEMS

A. FISCAL YEAR 2018/19 BUDGET TRANSFER (FORM T -18-07-01)

Recommend to the Advisory Committee to approve Fiscal Year 2018/19 Budget Transfer (Form T-18-07-01).

(0:09:26) Mr. Joswiak gave a report. A discussion ensued.

(0:17:41) Motion by Mr. Pietersma, seconded by Mr. Pete Hall. Further discussion ensued.

(0:21:05) Vote Taken

Motion by Mr. Ron Pietersma, seconded by Mr. Pete Hall, and by unanimous vote Moved to approve Business Item II.A. as presented.

B. 2018 RECHARGE MASTER PLAN UPDATE AND RESOLUTION

Recommend Advisory Committee to recommend to Watermaster Board to approve the 2018 RMPU as presented and adopt Resolution No. 2018-04.

(0:21:20) Mr. Kavounas introduced Ms. Sanchez from Wildermuth Environmental, Inc. to give a presentation. A discussion ensued.

(0:34:16)

Motion by Vice-Chair Jeff Pierson, seconded by Mr. Pete Hall, and by unanimous vote Moved to approve Business Item II.B. as presented

C. TASK ORDER NO. 4 UNDER MASTER AGREEMENT FOR COLLABORATIVE PROJECTS: CHINO BASIN CONJUNCTIVE USE ENVIRONMENTAL WATER STORAGE/EXCHANGE PROGRAM EVALUATION AND CONCEPTUAL DESIGN SUPPORT.

Recommend to the Advisory Committee to approve Task Order No. 4 Under Master Agreement for Collaborative Projects: Chino Basin Conjunctive Use Environmental Water Storage/Exchange Program Evaluation and Conceptual Design Support.

(0:34:34) Mr. Kavounas introduced Mr. Aguilar from Inland Empire Utilities Agency to give a report. A discussion ensued.

(0:36:46)

Motion by Vice-Chair Jeff Pierson, seconded by Mr. Nathan deBoom, and by unanimous vote Moved to approve Business Item II.C. as presented

D. SAFE YIELD RESET-RELATED AGREEMENT DISCUSSION

Discussion and possible action.

(0:37:27) Mr. Kavounas gave a report.

(0:39:38) Mr. Pietersma introduced the motion that the Agricultural Pool does not approve the proposed Safe Yield Reset-Related Agreements as presented on September 11, 2018. The Agricultural Pool respectfully requests that the parties address the Ag Pool comments requested by him on July 19, 2018, as follows:

- 1. Please add the effective date of the Safe Yield Reset.
- 2. Please include the Safe Yield process that was part of the Judge's April 28, 2017 Order.
- 3. The Ag Pool respectfully requests that the final version of the Safe Yield Reset-Related Agreements be brought back to the October 2018 Pool meeting for the Pool's reconsideration.

(0:41:02) Vote taken

Motion by Mr. Ron Pietersma, seconded by Mr. Ron LaBrucherie, Jr., and by unanimous vote Moved to approve Business Item II.D. as stated above.

E. OLD BUSINESS None

III. <u>REPORTS/UPDATES</u>

A. LEGAL COUNSEL REPORT

- 1. Appeal of April 28, 2017 Order
- 2. August 24, 2018 Hearing

(0:41:54) Mr. Herrema gave a report.

B. ENGINEER REPORT

- 1. Storage Framework
- 2. Fiscal Year 2017/18 GLMC Annual Report

(0:43:28) Mr. Malone gave a report.

C. CFO REPORT

None

(0:45:03) Chair Feenstra requested the balance of the Agricultural Pool's private fund be reported during the October 2018 Ag Pool meeting.

D. GM REPORT

- 1. Proposed Changes to DYY Program Operation
- 2. CDA Production
- 3. Changes to the Overlying (Non-Agricultural) Pool Pooling Plan
- 4. Other

(0:45:35) Mr. Kavounas gave a report, and announced that Watermaster will be sending out a "Save-The-Date" notice for the 40th Judgment Anniversary event on December 4, 2018 at 4:00 p.m. He commented on the CalDesal membership, provided an update on the upcoming Assessment Package and workshops, and the TCP Plume does not belong and will not be included in the OBMP Semi-Annual Status Report 2018-1. A discussion ensued.

IV. INFORMATION

- 1. Cash Disbursements for August 2018
- 2. Recharge Investigations and Projects Committee (RIPCom)

V. POOL DISCUSSION

- 1. Chairman's Update
- 2. Pool Member Comments

V. POOL DISCUSSION

- 3. Chairman's Update
- 4. Pool Member Comments

VI. OTHER BUSINESS

None

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

Chair Feenstra called for a confidential session at 1:43 p.m. to discuss Appeal of the April 28, 2017 Order, August 17, 2018 Hearing, Storage, and Business Item II.D., Safe Yield Reset-Related Agreement. Confidential session concluded at 2:53 p.m. with the action for Business Item II.D. shown above.

ADJOURNMENT

Chair Feenstra adjourned the Agricultural Pool meeting at 3:44 p.m.

Secretary:_____

Approved: _____

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CHINO BASIN WATERMASTER

I. <u>CONSENT CALENDAR</u> (App & Ag Pool)

B. FINANCIAL REPORTS

- 1. Cash Disbursements for the month of August 2018
- 2. Watermaster VISA Check Detail for the month of August 2018
- 3. Combining Schedule for the Period July 1, 2018 through August 31, 2018
- 4. Treasurer's Report of Financial Affairs for the Period August 1, 2018 through August 31, 2018
- 5. Budget vs. Actual Report for the Period July 1, 2018 through August 31, 2018

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

B. FINANCIAL REPORTS

- 1. Cash Disbursements for the month of August 2018
- 2. Watermaster VISA Check Detail for the month of August 2018
- 3. Combining Schedule for the Period July 1, 2018 through August 31, 2018
- 4. Treasurer's Report of Financial Affairs for the Period August 1, 2018 through August 31, 2018
- 5. Budget vs. Actual Report for the Period July 1, 2018 through August 31, 2018



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: October 11, 2018

TO: Pool Committee Members

SUBJECT: Cash Disbursement Report - Financial Report B1 (August 31, 2018)

SUMMARY

Issue: Record of Cash Disbursements for the month of August 2018.

Recommendation: Receive and file Cash Disbursements for August 2018 as presented.

<u>Financial Impact</u>: Funds disbursed were included in the FY 2018/19 "Amended" Watermaster Budget.

<u>Future Consideration</u> Appropriative Pool – October 11, 2018: Receive and File Non-Agricultural Pool – October 11, 2018: Receive and File Agricultural Pool – October 11, 2018: Receive and File Advisory Committee – October 18, 2018: Receive and File Watermaster Board – October 25, 2018: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – October 11, 2018: Non-Agricultural Pool – October 11, 2018: Agricultural Pool – October 11, 2018: Advisory Committee – October 18, 2018: Watermaster Board – October 25, 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 August 2018 were \$2,196,411.78.

The most significant expenditures during the month were to Inland Empire Utilities Agency in the amounts of \$1,463,581.30 and \$29,590.05 (check number 20982 dated August 29, 2018 and check number 20986 dated August 29, 2018); Wildermuth Environmental, Inc. in the amounts of \$146,362.64 and \$198,093.65 (check number 20936 dated August 2, 2018 and check number 20967 dated August 20, 2018); and Brownstein Hyatt Farber Schreck in the amount of \$106,631.26 (check number 20968 dated August 20, 2018).

ATTACHMENTS

1. Financial Report - B1

CHINO BASIN WATERMASTER Cash Disbursements For The Month of August 2018

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	08/01/2018	20924	ACCENT COMPUTER SOLUTIONS, INC.	122798	1012 · Bank of America Gen'l Ckg	
	Bill	08/01/2018	122798		Monthly Service- August 2018	6052.4 · IT Managed Services	4,226.00
					Overwatch - August 2018	6052.5 · IT Data Backup/Storage	699.00
					OmniCloud- August 2018	6052.5 · IT Data Backup/Storage	96.00
					Office 365 subscriptions- August 2018	6054 · Computer Software	49.80
TOTAL	-						5,070.80
	Bill Pmt -Check	08/01/2018	20925	CENTURYLINK	71851276	1012 · Bank of America Gen'l Ckg	
	Bill	07/24/2018	71851278		7/17/18-8/16/18	6053 · Internet Expense	1,050.47
TOTAL	-						1,050.47
	Bill Pmt -Check	08/01/2018	20926	COMPUTER NETWORK	103861	1012 · Bank of America Gen'l Ckg	
	Bill	07/24/2018	103861		Hard drive repair for 2 laptops	6055 · Computer Hardware	528.00
TOTAL	-						528.00
	Bill Pmt -Check	08/01/2018	20927	EUROFINS EATON ANALYTICAL	L0401772	1012 · Bank of America Gen'l Ckg	
	Bill	06/30/2018	L0401772		L0401772	7108.4 · Hydraulic Control-Lab Svcs	1,240.00
	-						1,240.00
21	Bill Pmt -Check	08/01/2018	20928	LOEB & LOEB LLP	1778682	1012 · Bank of America Gen'l Ckg	
	Bill	06/30/2018	1778682		Non-Ag Pool Legal Services - June 2018	8567 · Non-Ag Legal Service	8,413.20
TOTAL	-						8,413.20
	Bill Pmt -Check	08/01/2018	20929	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
	Bill	07/24/2018	006492990009		- Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	776.96
TOTAL							776.96
	Bill Pmt -Check	08/01/2018	20930	STATE COMPENSATION INSURANCE FUND	1970970-18	1012 · Bank of America Gen'l Ckg	
	Bill	06/30/2018	1970970-17		Final premium statement for 2017	60183 · Worker's Comp Insurance	550.99
TOTAL							550.99
	Bill Pmt -Check	08/01/2018	20931	THE HOWARD E. NYHART CONPANY, INC.	0141317	1012 · Bank of America Gen'l Ckg	
	Bill	06/30/2018	0141317		FYE 6/30/2018 GASB 75 Report	6062.5 · Audit Support Services	4,250.00
TOTAL							4,250.00
	Bill Pmt -Check	08/01/2018	20932	ULLOA, EUNICE	Board Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	06/14/2018	6/14 Appro Pool Mtg		6/14/18 Appropriative Pool meeting	6311 · Board Member Compensation	125.00
	Bill	06/21/2018	6/21 Advisory Comm		6/21/18 Advisory Committee meeting	6311 · Board Member Compensation	125.00
					,		

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CHINO BASIN WATERMASTER Cash Disbursements For The Month of August 2018

	Type	Date	Num	Name	Memo	Account	Paid Amount
ΤΟΤΑ	L						375.00
	Bill Pmt -Check Bill	08/01/2018	20933	UNITED HEALTHCARE	052515168889	1012 · Bank of America Gen'l Ckg	
TOTA		07/24/2018	052515168889		Dental Insurance Premium - August 2018	60182.2 · Dental & Vision Ins	688.74
ΤΟΤΑ	.L						688.74
	Bill Pmt -Check	08/01/2018	20934	VERIZON WIRELESS	9810841828	1012 Book of America Coull Oly	
	Bill	07/24/2018	9810841828	VERIZON WIRELEUS	Acct #642073270-00001	1012 · Bank of America Gen'l Ckg 7103.7 · Grdwtr Qual-Computer Svc	100.04
τοτα	L				1000 #042010210-00001		100.04
							100.04
	Bill Pmt -Check	08/01/2018	20935	WESTERN MUNICIPAL WATER DISTRICT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	06/28/2018	6/28 Board Mtg		6/28/18 Board Meeting - Galleano attendance	6311 · Board Member Compensation	125.00
ΤΟΤΑ	L					-	125.00
	Bill Pmt -Check	08/02/2018	20936	WILDERMUTH ENVIRONMENTAL INC		1012 · Bank of America Gen'l Ckg	
	Bill	06/30/2018	2018177		2018177	6906.31 · OBMP-Pool, Adv. Board Mtgs	11,843.96
	Bill	06/30/2018	2018178		2018178	6906.32 · OBMP-Other General Meetings	2,247.65
	Bill	06/30/2018	2018179		2018179	6906.74 · OBMP-Mat'l Phy. Injury Requests	2,086.60
σ	Bill	06/30/2018	2018180		2018180	6906.71 · OBMP-Data ReqCBWM Staff	2,949.60
22	Bill	06/30/2018	2018181		2018181	6906 · OBMP Engineering Services	1,986.10
	Bill	06/30/2018	2018182		2018182	6906.81 · Prepare Annual Reports	120.50
	Bill	06/30/2018	2018183		2018183	7103.3 · Grdwtr Qual-Engineering	12,953.00
	Bill	06/30/2018	2018184		2018184	7104.3 · Grdwtr Level-Engineering	27,629.33
	Bill	06/30/2018	2018185		2018185	7107.2 · Grd Level-Engineering	12,427.50
	Bill	06/30/2018	2018186		2018186	7107.2 · Grd Level-Engineering	1,558.84
	Bill	06/30/2018	2018187		2018187	7108.31 · Hydraulic Control - PBHSP	984.80
	Bill	06/30/2018	2018188		2018188	7202.2 · Engineering Svc	587.06
	Bill	06/30/2018	2018189		2018189	7402 · PE4-Engineering	12,579.25
	Bill	06/30/2018	2018190		2018190	7402.10 · PE4 - Northwest MZ1 Area Proj.	4,839.65
	Bill Bill	06/30/2018	2018191		2018191	7510 · PE6&7-IEUA Salinity Mgmt. Plan	26,240.90
	Bill	06/30/2018	2018192		2018192	7602 · PE8&9-Engineering	22,748.40
τοτα		06/30/2018	2018193		2018193	6906.27 · HCP Mtgs/Tech. Review-IEUA Cost	2,579.50
IUIA	L						146,362.64
	Bill Pmt -Check	08/03/2018	ACH 080318	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	General Journal	07/28/2018	07/28/2018	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	-	2000 · Accounts Payable	6,886.20
ΤΟΤΑ		0//20/2010	0112012010				
1017							6,886.20
	Bill Pmt -Check	08/07/2018	ACH 080718	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
	Bill	07/16/2018	1394905143		1394905143	60182.1 · Medical Insurance	7,827.63
						-	

CHINO BASIN WATERMASTER Cash Disbursements For The Month of August 2018

	Туре	Date	Num	Name	Memo	Account	Paid Amount
ΤΟΤΑ	AL.						7,827.63
	Bill Pmt -Check	08/07/2018	20937	ACCENT COMPLETER SOLUTIONS INC	100000		
	Bill	07/31/2018	122920	ACCENT COMPUTER SOLUTIONS, INC.	122920 Workstation-Gregory-Balance Due	1012 · Bank of America Gen'l Ckg	200.00
τοτα		01/01/2010	122020		Workstation-Gregory-balance Due	6055 · Computer Hardware	899.20
							899.20
	Bill Pmt -Check	08/07/2018	20938	CHEF DAVE'S CAFE & CATERING	8361	1012 · Bank of America Gen'l Ckg	
	Bill	07/26/2018	8361		Lunch for 7/26/18 Watermaster Board meeting	6312 · Meeting Expenses	681.50
ΤΟΤΑ	L.						681.50
	Bill Pmt -Check	08/07/2018	20939	CHINO CHAMPION NEWSPAPER	8043	1012 · Bank of America Gen'l Ckg	
	Bill	07/16/2018	8043		Subscription-Chino Champion newspaper-1 year	6112 · Subscriptions/Publications	35.00
ΤΟΤΑ	L						35.00
	Bill Pmt -Check Bill	08/07/2018	20940	ELIE, STEVEN	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
TOTA		07/23/2018	7/23 Special Board		7/23/18 Special Board Meeting	6311 · Board Member Compensation	125.00
ΤΟΤΑ	L.						125.00
	Bill Pmt -Check	08/07/2018	20941	FILIPPI, GINO	Board Member Compensation	1012 Book of America Carll Ckg	
P2	Bill	07/23/2018	7/23 Special Board		7/23/18 Special Board Meeting	1012 · Bank of America Gen'l Ckg 6311 · Board Member Compensation	125.00
ώ	Bill	07/26/2018	7/26 Board Mtg		7/26/18 Board Meeting	6311 · Board Member Compensation	125.00
τοτα	L						250.00
							200.00
	Bill Pmt -Check	08/07/2018	20942	KUHN, BOB	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	07/05/2018	7/05 Exec Committee		7/05/18 Pool Chair & Executive Committee Mtg.	6311 · Board Member Compensation	125.00
	Bill	07/12/2018	7/12 Admin Mtg		7/12/18 Administrative & Check Signing Meeting	6311 · Board Member Compensation	125.00
	Bill	07/19/2018	7/19 Executive Comm		7/19/18 Pool Chair & Executive Committee Mtg.	6311 · Board Member Compensation	125.00
	Bill	07/23/2018	7/23 Special Board		7/23/18 Special Board Meeting	6311 · Board Member Compensation	125.00
	Bill	07/24/2018	7/24 Admin Mtg		7/24/18 Administrative & GM Meeting	6311 · Board Member Compensation	125.00
	Bill	07/26/2018	7/26 Board Mtg		7/26/18 Board Meeting	6311 · Board Member Compensation	125.00
ΤΟΤΑ	L						750.00
	Bill Pmt -Check	08/07/0040	20943				
	Bill Pint -Check	08/07/2018 07/26/2018	20943 7/26 Board Mtg	PARKER, KATHERINE	Board Member Compensation	1012 · Bank of America Gen'l Ckg	105.00
τοτα		0//20/2010	7720 Board Mig		7/26/18 Board Meeting	6311 · Board Member Compensation	125.00
IUIA	. L						125.00
	Bill Pmt -Check	08/07/2018	20944	PAYCHEX	2018072600	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018	2018072600		July 2018	6012 · Payroll Services	440.47
τοτα	L				-		440.47

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	08/07/2018	20945	PIETERSMA, RONALD	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	<u>Vereningen ill och sydd o regen edd fold Dir Dan Ydd</u> oladar i rikerening
	Bill	07/19/2018	7/19 Ag Pool Mtg		7/19/18 Ag Pool Meeting	8411 · Compensation	25.00
					7/19/18 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
тоти	AL.						125.00
	Bill Pmt -Check	08/07/2018	20946	READY REFRESH BY NESTLE	0023230253	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018	0023230253		Office Water Bottle - July 2018	6031.7 · Other Office Supplies	79.26
TOTA	AL.						79.26
	Bill Pmt -Check	08/07/2018	20947	RR FRANCHISING, INC.	59463	1012 · Bank of America Gen'l Ckg	
	Bill	08/01/2018	59463		Janitorial Service - August 2018	6024 · Building Repair & Maintenance	740.00
тоти	AL.				burntonal bervice - August 2010		740.00
	-						740.00
	Bill Pmt -Check	08/07/2018	20948	STATE COMPENSATION INSURANCE FUND	1970970-18	1012 · Bank of America Gen'l Ckg	
	Bill	08/01/2018	1970970-18		Monthly premium 7/26/18-8/26/18	60183 · Worker's Comp Insurance	552.42
ΤΟΤΑ	AL.						552.42
	Bill Pmt -Check	08/07/2018	20949	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'l Ckg	
σ	Bill	07/31/2018	001017890001		Vision Insurance Premium - August 2018	60182.2 · Dental & Vision Ins	63.18
107A 4	λL.				Ŭ		63.18
	Bill Pmt -Check	08/07/2018	20950	WESTERN MUNICIPAL WATER DISTRICT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	07/23/2018	7/23 Special Board		7/23/18 Special Board Mtg Galleano attendance	-	125.00
	Bill	07/26/2018	7/26 Board Mtg		7/26/18 Board Meeting - Galleano attendance	6311 · Board Member Compensation	125.00
τοτΑ	1L						250.00
	Bill Pmt -Check	08/07/2018	20951	YUKON DISPOSAL SERVICE	08-K2 213849	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/01/2018	08-k2 213849		Disposal Service - August 2018	6024 · Building Repair & Maintenance	117.14
TOTA	AL.						117.14
	General Journal	08/11/2018	08/11/2018	Payroll and Taxes for 07/29/18-08/11/18	Payroll and Taxes for 07/29/18-08/11/18	1012 · Bank of America Gen'l Ckg	
					Direct Deposits for 07/29/18-08/11/18	1012 · Bank of America Gen'l Ckg	26,605.90
					Payroll Taxes for 07/29/18-08/11/18	1012 · Bank of America Gen'l Ckg	8,968.54
				ICMA-RC	457(b) Employee Deductions for 07/29/18-08/11/18	8 1012 · Bank of America Gen'l Ckg	4,541.43
				ICMA-RC	401(a) Employee Deductions for 07/29/18-08/11/18	3 1012 ⋅ Bank of America Gen'l Ckg	1,311.76
ΤΟΤΑ	L						41,427.63
	Bill Pmt -Check	08/14/2018	20952	ACCENT COMPUTER SOLUTIONS, INC.		1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018	122947		RAM for AN desktop	6055 · Computer Hardware	204.77
	Bill	07/31/2018	123011		Progress invoice Cloud Storage-FTP Replacement	6052.6 · IT Services/Projects	1,200.00

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	Туре	Date	Num	Name	Memo	Account	Paid Amount
ΤΟΤΑ	L						1,404.77
	Bill Pmt -Check	08/14/2018	20953	ACWA JOINT POWERS INSURANCE AUTHORI	T) 0507745		
	Bill	08/08/2018	0567715	AGUA JOINT FOWERS INSURANCE AUTHORI		1012 · Bank of America Gen'l Ckg	007.00
	Bill	00/00/2010	0001110		Prepayment - September 2018 August 2018	1409 · Prepaid Life, BAD&D & LTD 60191 · Life & Disab.Ins Benefits	207.62
τοτα					August 2010	ourse - Life & Disab, ins Benefits	224.74
	-						432.36
	Bill Pmt -Check	08/14/2018	20954	APPLIED COMPUTER TECHNOLOGIES	2994	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018	2994		Database Consulting Services - July 2018	6052.2 · Applied Computer Technol	3,900.00
ΤΟΤΑ	L				<u> </u>	· · · · · · · · · · · · · · · · · · ·	3,900.00
							0,000.00
	Bill Pmt -Check	08/14/2018	20955	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/31/2018	XXXX-XXXX-XXXX-9341		Miscellanous office supplies	6031.7 · Other Office Supplies	298.43
					50% deposit-Gregory workstation	6055 · Computer Hardware	899.20
					Printer for front office	6055 · Computer Hardware	289.85
					Farewell lunch for R. Zapien	6141.3 · Admin Meetings	96.04
					Printer for Sr. Accountant office	6055 · Computer Hardware	462.25
					Employee recruitment CVI's	6016 · New Employee Search Costs	520.00
σ					Employee recruitment CVI's	6016 · New Employee Search Costs	200.00
25					Printer for CFO office	6055 · Computer Hardware	317.85
0.					Miscellaneous office supplies	6031.7 · Other Office Supplies	252.62
					PK meeting w/T. Layton, V. Jew	8312 · Meeting Expenses	50.69
					Court prep hearing preparation mtg #1	6909.1 · OBMP Meetings	50.00
					Court prep hearing preparation mtg #1	6909.1 · OBMP Meetings	15.00
					Board officers mtg/Pool chair	6312 · Meeting Expenses	115.00
					Court prep hearing preparation mtg #2	6909.1 · OBMP Meetings	60.00
					Staff lunch pre RIPCom mtg at IEUA	6909.1 · OBMP Meetings	60.00
					RegPK-attend 1st Annual W. Grdwtr Congress	6193.2 · Conference - Registration Fee	610.00
					Early bird checkin-PK flight-GRAC	6173 · Airfare/Mileage	15.00
					Early bird checkin-PK flight-GRAC	6173 · Airfare/Mileage	15.00
					Flight-PK-attend GRAC 1st Annual Grdwtr Congre	s: 6173 · Airfare/Mileage	99.89
					Lunch-CGC Meeting held at Watermaste	6141.3 · Admin Meetings	86.00
					Lunch-CGC Meeting held at Watermaster	6141.3 · Admin Meetings	26.40
					Miscellaneous office supplies	6031.7 · Other Office Supplies	14.20
					RegPK-attend 2018 Fall Conf. and Workshop	6193.2 · Conference - Registration Fee	555.00
			,		RegETF-attend 2018 Fall Conf. and Workshop	6193.2 · Conference - Registration Fee	555.00
					PK mtg w/T. Layton, V. Jew	8312 · Meeting Expenses	49.88
					PK, JJ, AN meeting	6141.3 · Admin Meetings	58.40
TOTAL	-						5,771.70

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	08/14/2018	20956	COMPUTER NETWORK	103900	1012 · Bank of America Gen'l Ckg	
	Bill	08/08/2018	103900		Hard drive repair for laptop	6055 · Computer Hardware	367.44
ΤΟΤΑ	Ŀ						367.44
	Bill Pmt -Check	08/14/2018	20957	CORELOGIC INFORMATION SOLUTIONS	81909434	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018	81909434		81909434	7103.7 · Grdwtr Qual-Computer Svc	62.50
					81909434	7101.4 · Prod Monitor-Computer	62.50
ΤΟΤΑ	L						125.00
	Bill Dest. Charle	00/44/0040	00050				
	Bill Pmt -Check	08/14/2018	20958	DE HAAN, HENRY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	07/12/2018	7/12 Ag Pool Mtg		7/12/18 Ag Pool Meeting	8411 · Compensation	25.00
TOTA					7/12/18 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
ΤΟΤΑ	L_						125.00
	Bill Pmt -Check	08/14/2018	20959	DI PRIMIO, ROBERT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	07/05/2018	7/05 Exec Committee		7/05/18 Executive Committee mtg w/Approp Pool	6311 · Board Member Compensation	125.00
	Bill	07/19/2018	7/19 Exec Committee		7/19/18 Executive Committee mtg w/Non-Ag Pool	6311 · Board Member Compensation	125.00
	Bill	07/23/2018	7/23 Special Board		7/23/18 Special Board Mtg	6311 · Board Member Compensation	125.00
_	Bill	07/24/2018	7/24 Board Agenda		7/24/18 Board Agenda Preview	6311 · Board Member Compensation	125.00
P2	Bill	07/26/2018	7/26 Board mtg		7/26/18 Board meeting	6311 · Board Member Compensation	125.00
TOTA	L		-		Ŭ	· · · · · · · · · · · · · · · · · · ·	625.00
	Bill Pmt -Check	08/14/2018	20960	EGOSCUE LAW GROUP, INC.	12020	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018	12020		Ag Pool Legal Services - July 2018	8467 · Ag Legal & Technical Services	35,400.00
ΤΟΤΑ	L						35,400.00
	Bill Pmt -Check	08/14/2018	20961	FEDAK & BROWN LLP	Progress Billing	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018			Progress Billing - July 2018	6062 · Audit Services	1,500.00
ΤΟΤΑ	L						1,500.00
	Bill Pmt -Check	08/14/2018	20002				
	Bill	07/12/2018	20962 7/12 Ag Pool Mtg	FEENSTRA, BOB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	405.00
	Bill	07/12/2018			7/12/18 Ag Pool mtg	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/23/2018	7/19 Advisory Comm 7/23 Special Board		7/19/18 Advisory Committee meeting 7/23/18 Special Board meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/25/2018	7/25 RIPCom Mtg		7/25/18 RIPCom meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	07/26/2018	7/26 Board Mtg		7/25/18 RIPCom meeting 7/26/18 Board meeting	8470 · Ag Meeting Attend -Special 8470 · Ag Meeting Attend -Special	125.00
ΤΟΤΑΙ		0112012010	1120 Doard Mig		7720/10 Board meeting	6470 * Ag Meeting Attend -Special	125.00
IUIA	L						625.00
	Bill Pmt -Check	08/14/2018	20963	FIRST LEGAL NETWORK LLC	40019787	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018	40019787		Court filings 7/11, 7/13, 7/17, 7/23 and 7/26	6061.5 · Court Filing Services	479.30
					o , , ,,	······································	Mailtonoine Cardonautor Cardonautor

	Type	Date	Num	Name	Memo	Account	Paid Amount
ΤΟΤΑΙ	_						479.30
	Bill Pmt -Check	08/14/2018	20964	PREMIERE GLOBAL SERVICES	26223659	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018	26223659		Non-Ag Pool mtg call on 7/19/18	8512 · Meeting Expense	40.41
					Fee - General	6022 · Telephone	49.00
					Fee - Confidential	6022 · Telephone	49.00
					TM4 call on 6/27	6909.1 · OBMP Meetings	6.18
					Advisory Committee request for assistance	6212 · Meeting Expense	6.17
					Advisory Committee request for assistance	6212 Meeting Expense	6.19
					WM coordination call on 7/17	6909.1 · OBMP Meetings	12.48
					Special Board meeting call on 7/23	6312 · Meeting Expenses	15.68
					Special Board meeting call on 7/23	6312 · Meeting Expenses	6.19
					Board meeting agenda preview call on 7/24	6312 · Meeting Expenses	14.47
					Team discussion call re WM topics on 7/24	6909.1 · OBMP Meetings	33.87
					GRA presentation review call on 7/25	6909.1 · OBMP Meetings	6.20
					Service fee	6022 · Telephone	9.35
TOTAL	_					-	255.19
-0	Bill Pmt -Check	08/14/2018	20965	SPECIALIZED SERVICES OF SO CAL	2042	1012 · Bank of America Gen'l Ckg	
N	Bill	08/01/2018	2042		CPR, AED, and Basic First Aid Training for staff	6192 · Seminars - General	320.00
TOTAL	-					-	320.00
	Bill Pmt -Check	08/14/2018	20966	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018	7076224530355049		Vehicle Fuel - July 2018	6175 · Vehicle Fuel	171.84
TOTAL	-					-	171.84
	Check	08/15/2018	08/15/2018	Service Charge	Service Charge	1012 · Bank of America Gen'l Ckg	
					Service Charge	6039.1 · Banking Service Charges	629.26
TOTAL	-					-	629.26
	Bill Pmt -Check	08/16/2018	ACH 081618	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	General Journal	08/11/2018	08/11/2018	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 07/29/18-08/11/18	2000 · Accounts Payable	6,886.20
TOTAL	-						6,886.20
	Bill Pmt -Check	08/20/2018	20967	WILDERMUTH ENVIRONMENTAL INC		1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018	2018207		2018207	6906.31 · OBMP-Pool, Adv. Board Mtgs	6,853.55
	Bill	07/31/2018	2018208		2018208	6906.32 · OBMP-Other General Meetings	1,737.25
	Bill	07/31/2018	2018209		2018209	6906.74 · OBMP-Mat'l Phy. Injury Requests	513.30
	Bill	07/31/2018	2018210		2018210	6906.71 · OBMP-Data ReqCBWM Staff	16,480.98
	Bill	07/31/2018	2018211		2018211	6906.72 · OBMP-Data ReqNon CBWM Staff	1,381.70
						•	

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill	07/31/2018	2018212		2018212	6906.22 · Water Rights Compliance Rprting	7,572.65
	Bill	07/31/2018	2018213		2018213	6906 · OBMP Engineering Services	774.80
	Bill	07/31/2018	2018214		2018214	6906.9 · OBMP-2018 RMPU Master Update	26,983.90
	Bill	07/31/2018	2018215		2018215	6906.15 · Integrated Model Mtgs-IEUA Cost	2,360.00
	Bill	07/31/2018	2018216		2018216	6906.81 · Prepare Annual Reports	707.60
	Bill	07/31/2018	2018217		2018217	7103.3 · Grdwtr Qual-Engineering	19,276.72
	Bill	07/31/2018	2018218		2018218	7104.3 · Grdwtr Level-Engineering	8,398.87
	Bill	07/31/2018	2018219		2018219	7107.2 · Grd Level-Engineering	4,386.18
					WSP USA Inc.	7107.6 · Grd Level-Contract Svcs	9,370.71
	Bill	07/31/2018	2018220		2018220	7107.2 · Grd Level-Engineering	102.00
					Neva Ridge Technologies, Inc.	7107.3 · Grd Level-SAR Imagery	12,000.00
	Bill	07/31/2018	2018221		2018221	7402 · PE4-Engineering	24,826.40
	Bill	07/31/2018	2018222		2018222	7402.10 · PE4 - Northwest MZ1 Area Proj.	1,619.64
	Bill	07/31/2018	2018223		2018223	7202.2 · Engineering Svc	2,010.90
	Bill	07/31/2018	2018224		2018224	7502 · PE6&7-Engineering	856.00
	Bill	07/31/2018	2018225		2018225	7602 · PE8&9-Engineering	49,880.50
τοτα	.L.						198,093.65
		00/00/00/00					
P	Bill Pmt -Check	08/20/2018	20968	BROWNSTEIN HYATT FARBER SCHRECK		1012 · Bank of America Gen'l Ckg	22 (22 22
28	Bill	07/31/2018	730709		730709	6078 · BHFS Legal - Miscellaneous	20,422.80
					Out of Office Copying/Printing	6078 · BHFS Legal - Miscellaneous	15.50
					Mileage/Parking Expense	6275 · BHFS Legal - Advisory Committee	36.67
					Mileage/Parking Expense	8375 · BHFS Legal - Appropriative Pool	12.26
					Mileage/Parking Expense	8475 · BHFS Legal - Agricultural Pool	12.26
	D				Mileage/Parking Expense	8575 · BHFS Legal - Non-Ag Pool	12.26
	Bill	07/31/2018	730710		Personnel Matters	6073 · BHFS Legal - Personnel Matters	445.50
					GM Contract Amendment	6073 · BHFS Legal - Personnel Matters	3,287.25
	Bill	07/31/2018	730711		730711	6907.34 · Santa Ana River Water Rights	278.10
	Bill	07/31/2018	730712		730712	6907.36 · Santa Ana River Habitat	141.75
	Bill	07/31/2018	730713		730713	6275 · BHFS Legal - Advisory Committee	2,397.93
	Bill	07/31/2018	730714		730714	6375 · BHFS Legal - Board Meeting	9,225.45
					Mileage/Parking Expense	6375 · BHFS Legal - Board Meeting	36.67
					Delivery/Ground Transportation	6375 · BHFS Legal - Board Meeting	250.00
	Bill	07/31/2018	730715		730715	8375 · BHFS Legal - Appropriative Pool	1,826.55
	Bill	07/31/2018	730717		730717	8475 · BHFS Legal - Agricultural Pool	1,826.55
	Bill	07/31/2018	730719		730719	8575 · BHFS Legal - Non-Ag Pool	1,826.55
	Bill	07/31/2018	730722		730722	6071 · BHFS Legal - Court Coordination	32,030.55
					Mileage/Parking Expense	6071 · BHFS Legal - Court Coordination	36.78
					Mileage/Parking Expense	6071 · BHFS Legal - Court Coordination	36.78
	Bill	07/31/2018	730723		730723	6077 · BHFS Legal - Party Status Maint	3,192.75

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill	07/31/2018	730724		730724	6907.39 · Recharge Master Plan	2,405.70
					Mileage/Parking Expense	6907.39 · Recharge Master Plan	36.58
	Bill	07/31/2018	730725		730725	6907.40 · Storage Agreements	603.45
	Bill	07/31/2018	730726		730726	6907.42 · Safe Yield Recalculation	19,820.70
					Delivery/Ground Transportation-2 trips	6907.42 · Safe Yield Recalculation	300.00
					Lodging-5 nights	6907.42 · Safe Yield Recalculation	1,125.00
					Mileage/Parking Expense	6907.42 · Safe Yield Recalculation	36.79
	Bill	07/31/2018	730727		730727	6907.44 · SGMA Compliance	4,915.35
					Mileage/Parking Expense	6907.44 · SGMA Compliance	36.78
ΤΟΤΑΙ	-						106,631.26
	Bill Pmt -Check	08/20/2018	20969	CUCAMONGA VALLEY WATER DISTRICT		1012 · Bank of America Gen'l Ckg	
	Bill	08/16/2018	20000	COCAMONICA VALLET MATER DIGTNOT	Office lease due September 1, 2018	1422 · Prepaid Rent	6,608.80
ΤΟΤΑΙ	-						6,608.80
							0,000.00
	Bill Pmt -Check	08/20/2018	20970	EUROFINS EATON ANALYTICAL		1012 ⋅ Bank of America Gen'l Ckg	
	Bill	07/10/2018	L0404635		L0404635	7108.4 · Hydraulic Control-Lab Svcs	440.00
	Bill	07/12/2018	L0404636		L0404636	7108.4 · Hydraulic Control-Lab Svcs	1,194.00
тота	-						1,634.00
29							
w w	Bill Pmt -Check	08/20/2018	20971	GREAT AMERICA LEASING CORP.	23188608	1012 · Bank of America Gen'l Ckg	
	Bill	08/17/2018	23188608		Invoice for August 2018	6043.1 · Ricoh Lease Fee	2,605.07
					2018 San Bernardino County Property Tax Fee	6043.3 · Ricoh Property Tax Fees	490.44
ΤΟΤΑΙ	-						3,095.51
	Bill Pmt -Check	08/20/2018	20972	JOHN J. SCHATZ	Appropriative Pool Legal Services	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018			July 2018	8367 · Legal Service	7,844.00
TOTAL							7,844.00
	-						7,044.00
	Bill Pmt -Check	08/20/2018	20973	NELSON, ANNA	Employee Reimbursement	1012 · Bank of America Gen'l Ckg	
	Bill	08/15/2018			Reimburse for Notary Recertification	6192 · Seminars - General	209.06
TOTAL							209.06
	Bill Pmt -Check	08/20/2018	20974	OFFICE & ERGONOMIC SOLUTIONS, INC.	Office Furniture	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	08/14/2018			Final Payment-office furniture	1840 · Capital Assets	5,078.91
TOTAL							5,078.91
	Bill Dent Obrest	00/00/0040	00075				
	Bill Pmt -Check	08/20/2018	20975	PETTY CASH	2737-2750	1012 · Bank of America Gen'l Ckg	
	Bill	07/31/2018	2737-2750		Lunch for 6/15/18 Ag Pool meeting	8412 · Meeting Expenses	43.62
					Supplies for washing field trucks	6151 · Small Tools & Equipment	20.75

	Туре	Date	Num	Name	Memo	Account	Paid Amount
					Parking/mileage reimbursement-CalPers Seminar	6192 · Seminars - General	50.43
					Miscellaneous office supplies	6031.7 · Other Office Supplies	124.82
					Supplies-Board Exec Committee & Pool Chairs	6312 · Meeting Expenses	18.44
					Supplies for June and July staff meetings	6141.3 · Admin Meetings	28.93
					ETF mtg w/IEUA	8312 · Meeting Expenses	35.58
ΤΟΤΑ	L						322.57
	Bill Pmt -Check	08/20/2018	20976	PIERSON, JEFFREY	Board and Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	07/05/2018	7/05 Exec Comm Mtg		7/05/18 Exec. Comm Board & Appropriative Pool	6311 · Board Member Compensation	125.00
	Bill	07/10/2018	7/10 Admin Mtg		7/10/18 Admin. meeting w/GM-conference call	6311 · Board Member Compensation	125.00
	Bill	07/12/2018	7/12 Ag Pool Mtg		7/12/18 Ag Pool Meeting	8411 · Compensation	25.00
					7/12/18 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
	Bill	07/19/2018	7/19 Special Ag Mtg		7/19/18 Special Ag Pool Executive Strategy mtg.	8411 · Compensation	25.00
					7/19/18 Special Ag Pool Executive Strategy mtg.	8470 · Ag Meeting Attend -Special	100.00
	Bill	07/19/2018	7/19 Exec Committee		7/19/19 Exec. CommBoard & Non-Ag Pool	6311 · Board Member Compensation	125.00
	Bill	07/23/2018	7/23 Admin Meeting		7/23/18 Admin. mtg.w/GM-Pool Chairs conf. call	6311 · Board Member Compensation	125.00
	Bill	07/24/2018	7/24 Admin Meeting		7/24/18 Admin. Mtg.w/GM-conference call	6311 · Board Member Compensation	125.00
ΤΟΤΑ	L						875.00
P3	Bill Pmt -Check	08/20/2018	00077				
õ	Bill	08/31/2018	20977	STAULA, MARY L	Retiree Medical Retiree Medical	1012 · Bank of America Gen'l Ckg 60182.4 · Retiree Medical	05.47
ΤΟΤΑ		00/01/2010			Retiree Metical	60162.4 · Retriee Medical	25.17
1017	-						25.17
	Bill Pmt -Check	08/20/2018	20978	UNITED HEALTHCARE	052502293904	1012 · Bank of America Gen'l Ckg	
	Bill	08/15/2018	052502293904		Dental Insurance Premium - September 2018	60182.2 · Dental & Vision Ins	433.36
TOTA	-						433.36
	Bill Pmt -Check	08/20/2018	20979	VERIZON WIRELESS	9812160995	1012 · Bank of America Gen'l Ckg	
	Bill	08/15/2018	9812160995		Acct #470810953-00001	6022 · Telephone	336.37
ΤΟΤΑΙ	-						336.37
	Bill Pmt -Check	08/23/2018	ACH 082318	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	Bill	08/01/2018	15345627		Annual Unfunded Accrued Liability for Plan 3299	60180 · Employers PERS Expense	5,456.55
ΤΟΤΑΙ	-						5,456.55
	General Journal	08/25/2018	08/25/2018	Payroll and Taxes for 08/12/18-08/25/18	Payroll and Taxes for 08/12/18-08/25/18	1012 · Bank of America Gen'l Ckg	
		30/20/2010	00.20/2010	1 ayron and 1 axes for 00/12/10-00/20/10	•	6	24,767.98
					Direct Deposits for 08/12/18-08/25/18	1012 · Bank of America Gen'l Ckg	
				ICMA-RC	Payroll Taxes for 08/12/18-08/25/18 457(b) Employee Deductions for 08/12/18-08/25/18	1012 · Bank of America Gen'l Ckg	7,907.59
				ICMA-RC	401(a) Employee Deductions for 08/12/18-08/25/18	-	4,189.76 1,311.76
					To real comployee Deductions for 00/12/16-00/20/16	TOTZ Dank OF America Gent CKy	1,311.76

	Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTAL	-						38,177.09
	Bill Pmt -Check Bill	08/29/2018 08/23/2018	20980 72576659	CENTURYLINK	72576659 8/17/18-9/16/18	1012 · Bank of America Gen'l Ckg 6053 · Internet Expense	1,050.46
TOTAL	-						1,050.46
	Bill Pmt -Check Bill	08/29/2018 08/23/2018	20981 90948438900509145	FRONTIER COMMUNICATIONS	909-484-3890-050914-5 Office fax	1012 · Bank of America Gen'l Ckg 6022 · Telephone	143.76
TOTAL	-						143.76
	Bill Pmt -Check	08/29/2018	20982	INLAND EMPIRE UTILITIES AGENCY	1800003901	1012 · Bank of America Gen'l Ckg	
TOTAL	Bill	08/23/2018	1800003901		TO #3 - Pomona Extensometer Contract Admin.	7402.10 · PE4 - Northwest MZ1 Area Proj.	1,463,581.30 1,463,581.30
	-						1,400,001.00
	Bill Pmt -Check	08/29/2018	20983	LEGAL SHIELD	0111802	1012 · Bank of America Gen'l Ckg	
TOTAL	Bill	08/23/2018	0111802		Employee Deductions - August 2018	60194 · Other Employee Insurance	79.70
TOTAL	-						79.70
ъ	Bill Pmt -Check	08/29/2018	20984	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
3	Bill	08/23/2018	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	775.35
TOTAL							775.35
	Bill Pmt -Check	08/29/2018	20985	VERIZON WIRELESS	9812696708	1012 · Bank of America Gen'l Ckg	
	Bill	08/23/2018	9812696708		Acct #642073270-00001	7103.7 · Grdwtr Qual-Computer Svc	100.04
TOTAL							100.04
	Bill Pmt -Check	08/29/2018	20986	INLAND EMPIRE UTILITIES AGENCY	1800003899	1012 · Bank of America Gen'l Ckg	
	Bill	08/22/2018	1800003899		SCADA System Upgrades Project-Invoice #10	7690.61 · GWR SCADA Upgrades (TO #4)	29,590.05
TOTAL							29,590.05
	Bill Pmt -Check	08/29/2018	20987			1012 Bank of America Con'l Ckg	
	Bill	08/29/2018	20967	KESSLER ALAIR INSURANCE SERVICES, INC.	Environ. Pollution Liab. coverage-Right of Entrys	1012 · Bank of America Gen'l Ckg 6085 · Business Insurance Package	9,544.19
TOTAL							9,544.19
	Bill Pmt -Check Bill	08/29/2018 08/29/2018	20988 1041	CUBICLE AND OFFICE, LLC.	1041 Panels and desks for field staff work area	1012 · Bank of America Gen'l Ckg 1840 · Capital Assets	18,819.43
TOTAL		0012012010	1071			1040 Capital Assets	18,819.43
	Bill Pmt -Check	08/30/2018	ACH 083018	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	

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	Type General Journal	Date 08/25/2018	Num 18/08/09	Name PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Memo CalPERS Retirement for 08/12/18-08/25/18	Account 2000 · Accounts Payable	Paid Amount 6,886.20
ΤΟΤΑ	L						6,886.20
	General Journal	08/31/2018	08/31/2018	Wage Works FSA Direct Debits - August 2018	Wage Works FSA Direct Debits - August 2018	1012 · Bank of America Gen'l Ckg	
					Wage Works FSA Direct Debits - August 2018	1012 · Bank of America Gen'l Ckg	724.98
					Wage Works FSA Direct Debits - August 2018	1012 · Bank of America Gen'l Ckg	-215.36
					Wage Works FSA Direct Debits - August 2018	1012 · Bank of America Gen'l Ckg	509.60
					Wage Works FSA Direct Debits - August 2018	1012 · Bank of America Gen'l Ckg	76.25
ΤΟΤΑΙ	-						1,095.47
						Total Disbursements:	2,196,411.78



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E. General Manager

STAFF REPORT

DATE: October 11, 2018

TO: Pool Committee Members

SUBJECT: VISA Check Detail Report - Financial Report B2 (August 31, 2018)

SUMMARY

Issue: Record of VISA credit card payment disbursed for the month of August 2018.

Recommendation: Receive and file VISA Check Detail Report for August 2018 as presented.

<u>Financial Impact</u>: Funds disbursed were included in the FY 2018/19 "Amended" Watermaster Budget.

<u>Future Consideration</u> Appropriative Pool – October 11, 2018: Receive and File Non-Agricultural Pool – October 11, 2018: Receive and File Agricultural Pool – October 11, 2018: Receive and File Advisory Committee – October 18, 2018: Receive and File Watermaster Board – October 25, 2018: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – October 11, 2018: Non-Agricultural Pool – October 11, 2018: Agricultural Pool – October 11, 2018: Advisory Committee – October 18, 2018: Watermaster Board – October 25, 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 August 2018 was \$5,771.70. The payment was processed in the amount of \$5,771.70 (by check number 20955 dated August 14, 2018). The monthly charges for August 2018 of \$5,771.70 were for routine and customary expenditures and properly documented with receipts.

ATTACHMENTS

1. Financial Report - B2

CHINO BASIN WATERMASTER VISA Check Detail Report August 2018

Туре	Num	Date	Name	Memo	Account	Paid Amount
Bill Pmt -Check	08/14/2018	20955	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2018	XXXX-XXXX-XX	XX-9341	Miscellanous office supplies	6031.7 · Other Office Supplies	298.43
				50% deposit-Gregory workstation	6055 · Computer Hardware	899.20
				Printer for front office	6055 · Computer Hardware	289,85
				Farewell lunch for R. Zapien	6141.3 · Admin Meetings	96.04
				Printer for Sr. Accountant office	6055 · Computer Hardware	462.25
				Employee recruitment CVI's	6016 · New Employee Search Costs	520.00
				Employee recruitment CVI's	6016 · New Employee Search Costs	200.00
				Printer for CFO office	6055 · Computer Hardware	317.85
				Miscellaneous office supplies	6031.7 · Other Office Supplies	252.62
				PK meeting w/T. Layton, V. Jew	8312 · Meeting Expenses	50.69
				Court prep hearing preparation mtg #1	6909.1 · OBMP Meetings	50.00
				Court prep hearing preparation mtg #1	6909.1 · OBMP Meetings	15.00
				Board officers mtg/Pool chair	6312 · Meeting Expenses	115.00
				Court prep hearing preparation mtg #2	6909.1 · OBMP Meetings	60.00
				Staff lunch pre RIPCom mtg at IEUA	6909.1 · OBMP Meetings	60.00
				RegPK-attend 1st Annual W. Grdwtr Congress	6193.2 · Conference - Registration Fee	610.00
				Early bird checkin-PK flight-GRAC	6173 · Airfare/Mileage	15.00
				Early bird checkin-PK flight-GRAC	6173 · Airfare/Mileage	15.00
				Flight-PK-attend GRAC 1st Annual Grdwtr Congress	6173 · Airfare/Mileage	99.89
				Lunch-CGC Meeting held at Watermaste	6141.3 · Admin Meetings	86.00
				Lunch-CGC Meeting held at Watermaster	6141.3 · Admin Meetings	26.40
				Miscellaneous office supplies	6031.7 · Other Office Supplies	14.20
				RegPK-attend 2018 Fall Conf. and Workshop	6193.2 · Conference - Registration Fee	555.00
				RegETF-attend 2018 Fall Conf. and Workshop	6193.2 · Conference - Registration Fee	555.00
				PK mtg w/T. Layton, V. Jew	8312 · Meeting Expenses	49.88
				PK, JJ, AN meeting	6141.3 · Admin Meetings	58.40
L					Total Disbursements:	5,771.70

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CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E. General Manager

STAFF REPORT

DATE: October 11, 2018

TO: Pool Committee Members

SUBJECT: Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2018 through August 31, 2018 - Financial Report B3 (August 31, 2018)

SUMMARY

<u>Issue</u>: Record of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2018 through August 31, 2018.

<u>Recommendation</u>: Receive and file Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2018 through August 31, 2018 as presented.

Financial Impact: Funds disbursed were included in the FY 2018/19 "Amended" Watermaster Budget.

Future Consideration Appropriative Pool – October 11, 2018: Receive and File Non-Agricultural Pool – October 11, 2018: Receive and File Agricultural Pool – October 11, 2018: Receive and File Advisory Committee – October 18, 2018: Receive and File Watermaster Board – October 25, 2018: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – October 11, 2018: Non-Agricultural Pool – October 11, 2018: Agricultural Pool – October 11, 2018: Advisory Committee – October 18, 2018: Watermaster Board – October 25, 2018:

BACKGROUND

A Combining Schedule of Revenue, Expenses and Changes in Net Assets for the period July 1, 2018 through August 31, 2018 is provided to keep all members apprised of the FY 2018/19 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, 2018 THROUGH AUGUST 31, 2018

			OPTIMUM	POOL ADMINISTR	ATION & SPECIA	L PROJECTS			GASB 75		AMENDED
		WATERMASTER	BASIN	APPROPRIATIVE	AG	NON-AG	GROUNDWATER	LAIF	BEG. NET	GRAND	BUDGET
		ADMINISTRATION			POOL	POOL	REPLENISHMENT		POSITION	TOTALS	2018-2019
	Administrative Revenues: Administrative Assessments	L <u></u>									8,655,545
	Interest Revenue			_	-	_				-	63,968
	Mutual Agency Project Revenue	167,712								167,712	167,712
	Miscellaneous Income	21								21	0
	Total Revenues	167,733	<u> </u>		-		-	-	_	167,733	8,887,225
		the second s							and a second		
	Administrative & Project Expenditures:										
	Watermaster Administration	370,968								370,968	1,337,141
	Watermaster Board-Advisory Committee	37,262								37,262	226,519
	Ag Pool Misc. Expense - Ag Fund			05 500	-	00 540				-	400
	Pool Administration		005 000	25,599	90,962	26,510				143,071	624,643
	Optimum Basin Mgmt Administration OBMP Project Costs		235,869 3,187,445							235,869 3,187,445	2,273,267 5,503,869
	Debt Service		3, 187,445 580,585							580,585	580,585
	Basin Recharge Improvements		560,565							560,565	3,068,941
	Total Administrative/OBMP Expenses	408,230	4,003,899	25,599	90,962	26,510				4,555,199	13,615,365
	Net Administrative/OBMP Expenses	(240,497)	(4,003,899)	20,000	30,302	20,010				1,000,100	10,010,000
	Allocate Net Admin Expenses To Pools	240,497	(4,000,000)	174,593	57,008	8,895				-	
	Allocate Net OBMP Expenses To Pools		3,423,314	2,485,219	811,474	126,621				-	
	Allocate Debt Service to App Pool		580,585	580,585	011,111	120,021				-	
	Allocate Basin Recharge to App Pool		-	-						_	
	Agricultural Expense Transfer*			959,445	(959,445)					-	
	Total Expenses			4,225,440		162,026		-	-	4,555,199	13,615,365
7	Net Administrative Income			(4,225,440)		(162,026)		-	-	(4,387,466)	(4,728,140)
မ္မ	Other Income/(Expense)			,							
-	Replenishment Water Assessments						_			_	0
	Desalter Replenishment Obligation						_			_	Ő
	Non-Ag Stored Water Purchases									-	0
	Exhibit "G" Non-Ag Pool Water			-						-	0
	Interest Revenue						-			-	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
	Gain on Sale of Assets			-		-		-		-	0
	Other Post-Employment Benefits (OPEB) Refund-Excess Reserves			-		-			-	-	0
	Refund-Recharge Debt			-						-	Õ
	Funding To/(From) Reserves									-	0_
	Net Other Income/(Expense)			-	-	-	-	-	-	-	0
	Net Transfers To/(From) Reserves		(4,387,466)	(4,225,440)		(162,026)	-	-	_	(4,387,466)	(4,728,140)
			0	<u>, , , , , , , , , , , , , , , , , , , </u>	<u></u>	, <u>, , , , , , , , , , , , , , , , </u>					
	Net Assets, July 1, 2018			9,661,977	493,108	80,791	(4,534)	(20,461)	(443, <u>445)</u>	9,767,436	
	Net Assets, End of Period			5,436,536	493,108	(81,235)	(4,534)	(20,461)	(443,445)	5,379,970	5,379,970
	16/17 Assessable Production 16/17 Production Percentages			82,269.159 72.597%	26,862.554 23.704%	4,191.579 3.699%				113,323.292 100.000%	

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

N:Administration\Meetings - Agendas & Minutes\2018\Staff Reports\10 - October\Pools\20181011 - B3 Combining Schedule_August 2018.xls]Jul2018-Aug2018

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CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E. General Manager

STAFF REPORT

DATE: October 11, 2018

TO: Pool Committee Members

SUBJECT: Treasurer's Report of Financial Affairs for the Period August 1, 2018 through August 31, 2018 - Financial Report B4 (August 31, 2018)

SUMMARY

<u>Issue</u>: Record of increases or decreases in the cash position, assets and liabilities of Watermaster for the Period of August 1, 2018 through August 31, 2018.

<u>Recommendation</u>: Receive and file Treasurer's Report of Financial Affairs for the Period August 1, 2018 through August 31, 2018 as presented.

Financial Impact: Funds disbursed were included in the FY 2018/19 "Amended" Watermaster Budget.

<u>Future Consideration</u> Appropriative Pool – October 11, 2018: Receive and File Non-Agricultural Pool – October 11, 2018: Receive and File Agricultural Pool – October 11, 2018: Receive and File Advisory Committee – October 18, 2018: Receive and File Watermaster Board – October 25, 2018: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – October 11, 2018: Non-Agricultural Pool – October 11, 2018: Agricultural Pool – October 11, 2018: Advisory Committee – October 18, 2018: Watermaster Board – October 25, 2018:

BACKGROUND

A Treasurer's Report of Financial Affairs for the Period August 1, 2018 through August 31, 2018 is provided to keep all members apprised of the total cash in banks (Bank of America, LAIF, and CaITRUST); 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 CaITRUST, 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 AUGUST 1, 2018 THROUGH AUGUST 31, 2018

Financial Report - B4

	DEPOSITORIES: Cash on Hand - Petty Cash Bank of America Governmental Checking-Demand Deposits Zero Balance Account - Payroll Trust Account - County of San Bernardino Local Agency Investment Fund - Sacramento		\$ 462,632 -	\$	500 462,632 845 7,700,442
	TOTAL CASH IN BANKS AND ON HAND TOTAL CASH IN BANKS AND ON HAND	8/31/2018 7/31/2018			8,164,419 0,174,932
	PERIOD INCREASE (DECREASE)			\$ (2,010,513)
CHANGE IN CASH POSITION DUE TO:					
Decrease/(Increase) in Assets:	Accounts Receivable Assessments Receivable			\$	180,131
	Prepaid Expenses, Deposits & Other Current Assets				- (27,568)
(Decrease)/Increase in Liabilities					898,922
	Accrued Payroll, Payroll Taxes & Other Current Liabilities				14,085
	Long Term Liabilities				2,280
	Transfer to/(from) Reserves			(.	3,078,363)
	PERIOD INCREASE (DECREASE)			\$ (2	2,010,513)

	Petty Cash	Ģ	Sovt'l Checking Demand	 ro Balance Account Payroll	 ust Account County of n Bernardino	Local Agency vestment Funds	Totals
SUMMARY OF FINANCIAL TRANSACTIONS:	 			 			
Balances as of 7/31/2018	\$ 500	\$	448,145	\$ -	\$ 845	\$ 9,725,442	\$ 10,174,932
Deposits	-		2,210,899	-	-	_	2,210,899
Transfers	-		(167,070)	(113,980)	-	(2,025,000)	(2,306,050)
Withdrawals/Checks		2 (0) 100 (0) (0)	(2,029,341)	 113,980			 (1,915,362)
Balances as of 8/31/2018	\$ 500	\$	462,632	\$	\$ 845	\$ 7,700,442	\$ 8,164,419
PERIOD INCREASE OR (DECREASE)	\$ 	\$	14,487	\$ -	\$ 	\$ (2,025,000)	\$ (2,010,513)

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CHINO BASIN WATERMASTER TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD AUGUST 1, 2018 THROUGH AUGUST 31, 2018

INVESTMENT TRANSACTIONS

Effective					Days to	Interest	Maturity
Date	Transaction	Depository	Activity	Redeemed	Maturity	Rate(*)	Yield
8/22/2018	Withdrawal		(525,000)				
8/24/2018	Withdrawal		(1,500,000)				
TOTAL INVEST	MENT TRANSAG	CTIONS	\$ (2,025,000)	\$0			

* The earnings rate for L.A.I.F. is a daily variable rate; 1.90% was the effective yield rate at the Quarter ended June 30, 2018.

INVESTMENT STATUS August 31, 2018

Financial Institution	Principal Amount	Number of Days	Interest Rate	Maturity Date
Local Agency Investment Fund	\$ 7,700,442			
TOTAL INVESTMENTS	\$ 7,700,442			

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,

Jours Solar

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Joseph S. Joswiak Chief Financial Officer Chino Basin Watermaster

N:\Administration\Meetings - Agendas & Minutes\2018\Staff Reports\10 - October\Pools\[20181011 - B4 Treasurers Report_August 2018.xls]August 2018



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E. General Manager

STAFF REPORT

- DATE: October 11, 2018
- TO: Pool Committee Members
- SUBJECT: Budget vs. Actual Report for the Period July 1, 2018 through August 31, 2018 Financial Report B5 (August 31, 2018)

SUMMARY

<u>Issue</u>: Record of revenues and expenses of Watermaster for the Period of July 1, 2018 through August 31, 2018.

<u>Recommendation</u>: Receive and file Budget vs. Actual Report for the Period July 1, 2018 through August 31, 2018 as presented.

Financial Impact: Funds disbursed were included in the FY 2018/19 "Amended" Watermaster Budget.

<u>Future Consideration</u> Appropriative Pool – October 11, 2018: Receive and File Non-Agricultural Pool – October 11, 2018: Receive and File Agricultural Pool – October 11, 2018: Receive and File Advisory Committee – October 18, 2018: Receive and File Watermaster Board – October 25, 2018: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – October 11, 2018: Non-Agricultural Pool – October 11, 2018: Agricultural Pool – October 11, 2018: Advisory Committee – October 18, 2018: Watermaster Board – October 25, 2018:

BACKGROUND

A Budget vs. Actual Report for the period July 1, 2018 through August 31, 2018 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 - AUGUST 2018

Year-To-Date (YTD) for the two months ending August 31, 2018, all but seven categories were at or below the projected budget. The categories over budget were: (1) the Administration Salary/Benefits expenses (6010's) which were over budget by \$7,410 or 4.1% 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 \$67,375 or 259.1% as a result of miscellaneous legal matters as detailed in the BHFS section; (3) Business Insurance expenses (6080's) over budget by \$6,846 or 23.8% as a result of the additional coverage for Environmental and Pollution Liability as recommended by our broker, for water sampling activities within the basin by the Watermaster staff, not budgeted for in the FY 2018/19 budget; (4) Watermaster Board expenses (6300's) over budget by \$2,001 or 7.4% as a result of increased activities and Board meetings during the months of July 2018 through August 2018; (5) Appropriative Pool Administration expenses (8300's) over budget by \$1,520 or 6.3% as a result of increased legal activities by the Appropriative Pool attorney for the months of July 2018 through August 2018; (6) Agricultural Pool Legal Services (8467's) over budget by \$32,950 or 96.4% as a result of increased legal activities performed by the Agricultural Pool's attorney during the months of July 2018 through August 2018; and (7) Non-Agricultural Pool Administration expenses (8500's) over budget by \$7,653 or 40.6% as a result of increased legal activities performed by the Non-Agricultural Pool's attorney during the months of July 2018 through August 2018. For the majority of the expense categories within the Watermaster budget for FY 2018/19, the individual line-item budgets are divided into 12-monthly amounts and allocated accordingly. As the fiscal year progresses, these categories listed above could level out over time and be within the budget levels.

Overall, the Watermaster (YTD) Actual Expenses were \$2,341,399 or 34.0% below the (YTD) Budgeted Expenses of \$6,896,598.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2018:

During the month of July 2018, the "Carry Over" funding was calculated. The Total "Carry Over" funding amount of \$4,728,140.07 has been posted to the general ledger accounts. The total amount of \$4,728,140.07 consisted of \$3,068,940.82 from Capital Improvement Projects, \$1,594,653.00 from Engineering Services, and \$64,546.25 from Administration Services. More detailed information is provided regarding this issue under the "Carry Over" Funding section.

The Amended Budget for FY 2018/19 is \$13,615,365.07 which includes \$4,728,140.07 for the prior years "Carry Over" funding. The Original Approved budget for FY 2018/19 of \$8,887,225 was adopted by the Watermaster Board on May 24, 2018 (\$8,887,225 + \$4,728,140.07 = \$13,615,365.07).

SALARIES EXPENSE

CURRENT MONTH - AUGUST 2018

As of August 31, 2018, the total (YTD) Watermaster salary expenses were \$13,607 or 4.3% below the (YTD) budgeted amount of \$319,656. The overall staffing budget was developed with a staffing level of ten Full-Time Equivalents (FTE's), and staffing is currently at ten Full-Time Equivalents (FTE's) as of October 2, 2018.

Two candidates for the Field Operations Specialist (position #9 and position #10) were presented with a conditional offer letter dated September 7, 2018. Both candidates successfully cleared a background investigation, drug screening, and pre-employment physical. The two new Watermaster employees started employment on Tuesday, October 2, 2018. Both employees will be introduced to the Watermaster parties at the Pools, Advisory, and Board meetings during the month of October 2018.

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 2018/19 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 August 31, 2018. 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 '18 - Aug '18 Actual	Jul '18 - Aug '18 Budget	\$ Over Budget	% of Budget	FY 2018/19 Annual Budget
WM Salary Expense					
6011 · WM Staff Salaries	178,904.55	171,893.00	7,011.55	104.08%	993,161.00
6011.1 · WM Staff Salaries - Overtime	1,703.55	0.00	1,703.55	100.0%	0.00
6011.4 · 457(f) NQDC Plan	5,658.17	4,940.00	718.17	114.54%	37,034.00
6017 · Temporary Services	0.00	3,500.00	-3,500.00	0.0%	21,000.00
6201 · Advisory Committee - WM Staff Salaries	4,562.93	4,372.00	190.93	104.37%	25,259.00
6301 · Watermaster Board - WM Staff Salaries	6,489.17	6,996.00	-506.83	92,76%	40,422.00
8301 · Appropriative Pool - WM Staff Salaries	7,250.31	6,504.00	746.31	111.48%	37,577.00
8401 · Agricultural Pool - WM Staff Salaries	3,735.66	5,509.00	-1,773.34	67.81%	31,829.00
8501 · Non-Agricultural Pool - WM Staff Salaries	3,053.13	3,757.00	-703.87	81.27%	21,712.00
6901 · OBMP - WM Staff Salaries	11,474.16	24,391.00	-12,916.84	47.04%	140,931.00
7101.1 · Production Monitor - WM Staff Salaries	7,227.54	11,094.00	-3,866.46	65.15%	64,095.00
7102.1 · In-line Meter - WM Staff Salaries	0.00	3,230.00	-3,230.00	0.0%	18,657.00
7103.1 · Grdwater Quality - WM Staff Salaries	7,340.85	12,428.00	-5,087.15	59.07%	71,806.00
7104.1 · Grdwater Level - WM Staff Salaries	10,040.00	10,986.00	-946.00	91.39%	63,475.00
7107.1 · GrdLevel Monitoring - WM Staff Salaries	6 0.00	916.00	-916.00	0.0%	5,290.00
7108.1 · Hydraulic Control - WM Staff Salaries	0.00	695.00	-695.00	0.0%	4,015.00
7108.11 · Prado Basin - WM Staff Salaries	0.00	947.00	-947.00	0.0%	5,466.00
7201 · Comp Recharge - WM Staff Salaries	8,972.27	10,123.00	-1,150.73	88.63%	58,482.00
7301 · PE3&5 - WM Staff Salaries	1,474.40	2,790.00	-1,315.60	52.85%	16,174.00
7401 · PE4 - WM Staff Salaries	3,179.17	1,717.00	1,462.17	185.16%	9,919.00
7501 · PE6&7 - WM Staff Salaries	0.00	968.00	-968.00	0.0%	5,588.00
7501.1 · PE 6&7 - WM Staff Salaries (Plume)	0.00	852.00	-852.00	0.0%	4,925.00
7601 · PE8&9 - WM Staff Salaries	2,243.95	3,695.00	-1,451.05	60.73%	21,350.00
Subtotal WM Staff Costs	263,309.81	292,303.00	-28,993.19	90.08%	1,698,167.00
60185 · Vacation	33,624.35	13,339.00	20,285.35	252.08%	77,067.00
60186 · Sick Leave	4,617.00	9,459.00	-4,842.00	48.81%	54,656.00
60187 · Holidays	4,497.64	4,555.00	-57.36	98.74%	68,319.00
Subtotal WM Paid Leaves	42,738.99	27,353.00	15,385.99	156.25%	200,042.00
Total WM Salary Costs	306,048.80	319,656.00	-13,607.20	95.74%	1,898,209.00

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2018:

The Sr. Field Operations Specialist submitted his written resignation on July 3, 2018 and left employment of Watermaster on July 17, 2018. Watermaster staff met with the Personnel Committee on August 23, 2018 to discuss the plan to reclassify Position #10 from a Water Resources Associate to a Sr. Field Operations Specialist. The Personnel Committee unanimously approved and recommended moving forward with the new position reclassification and adjustment.

The positions of Field Operations Specialist (Position #9) and Sr. Field Operations Specialist (Position #10) are currently under recruitment. The final selection of the two top candidates, along with issuance of a conditional offer of employment will take place before September 10, 2018 with the final screening process being successful completion of a background investigation, passing a drug test, and passing a pre-employment physical. The two positions are anticipated to be onboard with Watermaster as early as October 1, 2018. Both candidates will be introduced to the Watermaster parties at the Pools, Advisory, and Board meetings scheduled for October 2018.

LEGAL SERVICES BROWNSTEIN HYATT FARBER SCHRECK EXPENSES

CURRENT MONTH – AUGUST 2018

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 2018/19. 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 \$963,028.

As of August 31, 2018, 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 \$31,132 or 19.3% above the (YTD) budgeted amount of \$161,233.

WATERMASTER ADMINISTRATIVE LEGAL SERVICES:

Overall, the Watermaster Administrative Legal Services expense (6070's) as of August 31, 2018, was \$67,375 or 259.1% above the budgeted amount of \$26,003. The specific items within the Administrative Legal Services expenses (6070's) which were over budget were Court Coordination (6071) over budget by \$34,739 or 477.0; Personnel Matters (6073) which were over budget by \$2,261 or 137.0%; Party Status Maintenance (6077) which were over budget by \$1,100 or 36.4%; and the Miscellaneous Category (6078) which were over budget by \$37,020 or 587.6%. Please see Note 1 on the following page for a more detailed explanation of the miscellaneous types of expenses (6078).

The specific items within the Administrative Legal Services expenses (6070's) which were under budget were the expenses for Rules and Regulations (6072) under budget by \$1,805 or 100.0%; and Interagency Issues (6074) under budget by \$5,940 or 100.0%.

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 August 31, 2018 was \$2,226 or 6.8% below the budgeted amount of \$32,850. 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 2018. With regards to the Board Meeting expenses (6375), an additional Special Board Meeting was held during the month of July 2018 which increased the legal services for this specific line item category.

OBMP LEGAL SERVICES:

The OBMP legal expenses (accounts 6907.31 through 6907.90) were below the budget for the month. As of August 31, 2018 the category of OBMP legal expenses were \$34,017 or 33.2% below the budgeted amount of \$102,380. The majority of expenses within this OBMP category were under budget (YTD), however, the Recharge Master Plan expenses (6907.39) were over budget by \$6,232 or 78.9%; and Safe Yield Redetermination and Reset legal expenses (6907.42) were over budget by \$21,220 or 111.7%.

The table listed below summarizes the Brownstein Hyatt Farber Schreck (BHFS) expenses as of August 31, 2018 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 '18 - Aug '18 Actual	Jul '18 - Aug '18 Budget	\$ Over Budget	% of Budget	FY 2018/19 Annual Budget
6070 · Watermaster Legal Services		Duuget	¢ over budget		Annual Duuger
6071 · BHFS Legal - Court Coordination	42,022.49	7,283.00	34,739.49	576.99%	43,700.00
6072 · BHFS Legal - Rules & Regulations	0.00	1,805.00	-1,805.00	0.0%	10,825.00
6073 · BHFS Legal - Personnel Matters	3,910.95	1,650.00	2,260.95	237.03%	9,900.00
6074 · BHFS Legal - Interagency Issues	0.00	5,940.00	-5,940.00	0.0%	35,640.00
6076 · BHFS Legal - Storage Issues	0.00	0.00	0.00	0.0%	0.00
6077 · BHFS Legal - Party Status Maintenance	4,124.70	3,025.00	1,099.70	136.35%	18,150.00
6078 · BHFS Legal - Miscellaneous (Note 1)	43,319.55	6,300.00	37,019.55	687.61%	37,800.00
Total 6070 · Watermaster Legal Services	93,377.69	26,003.00	67,374.69	359.1%	156,015.00
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6275 · BHFS Legal - Advisory Committee	3,674.23	3,960.00	-285.77	92.78%	21,780.00
6375 · BHFS Legal - Board Meeting	16,815.66	14,040.00	2,775.66	119.77%	77,220.00
6375.1 · BHFS Legal - Board Workshop(s)	0.00	0.00	0.00	0.0%	12,038.00
8375 · BHFS Legal - Appropriative Pool	3,365.77	4,950.00	-1,584.23	68.0%	27,225.00
8475 · BHFS Legal - Agricultural Pool	3,402.55	4,950.00	-1,547.45	68.74%	27,225.00
8575 · BHFS Legal - Non-Ag Pool	3,365.77	4,950.00	-1,584.23	68.0%	27,225.00
Total BHFS Legal Services	30,623.98	32,850.00	-2,226.02	93.22%	192,713.00
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	2,185.00	-2,185.00	0.0%	13,125.00
6907.32 · Chino Airport Plume	0.00	2,185.00	-2,185.00	0.0%	13,125.00
6907.33 · Desalter/Hydraulic Control	0.00	3,935.00	-3,935.00	0.0%	23,625.00
6907.34 · Santa Ana River Water Rights	278.10	2,715.00	-2,436.90	10.24%	16,275.00
6907.36 · Santa Ana River Habitat	1,903.95	7,220.00	-5,316.05	26.37%	43,300.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	2,625.00	-2,625.00	0.0%	15,750.00
6907.39 · Recharge Master Plan	14,131.77	7,900.00	6,231.77	178.88%	47,400.00
6907.40 · Storage Agreements	4,386.15	15,400.00	-11,013.85	28.48%	92,400.00
6907.41 · Prado Basin Habitat Sustainability	263.25	2,710.00	-2,446.75	9.71%	16,250.00
6907.42 · Safe Yield Recalculation	40,220.44	19,000.00	21,220.44	211.69%	114,000.00
6907.44 · SGMA Compliance	7,179.63	13,150.00	-5,970.37	54.6%	78,900.00
6907.45 · OBMP Update	0.00	18,030.00	-18,030.00	0.0%	108,200.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	5,325.00	-5,325.00	0.0%	31,950.00
Total 6907 · WM Legal Counsel	68,363.29	102,380.00	-34,016.71	66.77%	614,300.00
Total Brownstein, Hyatt, Farber, Schreck Costs	192,364.96	161,233.00	31,131.96	119.31%	963,028.00

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) CallMat intervention; (18) Angelica's water rights transfer; (19) Exhibit "G" rate issues; (20) Blomquist outline review; (21) Right of Entry Agreements for various locations; and (22) Miscellaneous legal research on current and pending issues.

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

OBMP ENGINEERING SERVICES AND LEGAL COSTS

CURRENT MONTH - AUGUST 2018

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 two months ending August 31, 2018, the actual expenses of \$230,554 were below the budgeted amount of \$365,302 by \$134,748 or 36.9%. For a detailed discussion, the following is provided.

Budget vs. Actual Report for the Period Page 7 of 16

For August 31, 2018, the accounts 6901-6903 (Optimum Basin Mgmt. Program) section was below the Year-To-Date (YTD) budget by \$13,238 or 42.5%. 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 \$12,917 or 53.0%. The remaining expense was the Santa Ana Watershed Project Authority (SAWPA) FY 2018/19 Basin Monitoring Program Task Force Contribution which was budgeted at \$6,742 and actual expenses were \$321 or 4.8% below budget as of August 31, 2018.

For August 31, 2018, the accounts 6906 (Optimum Basin Mgmt. Program Engineering Services) section was below the Year-To-Date (YTD) budget by \$86,425 or 37.5%. The majority of expenses within this OBMP category were under budget (YTD), however, the accounts which were over budget were as follows: the Water Rights Compliance Reporting expenses (6906.22) which were over budget by \$8,321 or 194.7%; the OBMP-Data Requests-CBWM Staff Engineering Services expenses (6906.71) which were over budget by \$6,055 or 36.3%; and the OBMP-2018 RMPU Master Update expenses (6906.90) which were over budget by \$45,112 or 497.6%.

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 \$27,452 while some other line item activities were below the budget by \$61,469. Above the budget line item was the Recharge Master Plan expenses of \$6,232; and the Safe Yield Redetermination and Reset expenses of \$21,220. The individual legal projects/activities that were below budget for the Year-To-Date (YTD) period were the Archibald South Plume of \$2,185; the Chino Airport Plume of \$2,185; the Desalter/Hydraulic Control of \$3,935; the Santa Ana River Water Rights of \$2,437; the Santa Ana River Habitat of \$5,316; the Regional Water Quality Control Board of \$2,625; Storage Agreements of \$11,014; the Prado Basin Habitat Sustainability of \$2,447; SGMA Compliance of \$5,970; OBMP Update of \$18,030; and the WM Unanticipated legal expenses of \$5,325. For the two months ended August 31, 2018, the overall cumulative (YTD) budget was \$102,380 and the actual (BHFS) legal expenses totaled \$68,363 which resulted in an under budget variance of \$34,017 or 33.2%.

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 August 31, 2018 this category of expenses was \$1,069 or 75.8% below the budgeted amount of \$1,410.

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 Sevaine 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 August 31, 2018 this category of expenses was fully invoiced in the amount of \$0 to IEUA.

Overall, the Optimum Basin Management Program (OBMP) category was \$230,554 compared to a (YTD) budget of \$365,302 for an under budget of \$134,748 or 36.9% as of August 31, 2018.

The table listed below summarizes the Optimum Basin Management Program (OBMP) expenses as of August 31, 2018 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 '18 - Aug '18	Jul '18 - Aug '18	* Ourse Durdenst		FY 2018/19
6900 · Optimum Basin Mgmt Plan	Actual	Budget	\$ Over Budget	% of Budget	Annual Budget
6901 · WM Staff Salaries	11,474.16	24,391.00	-12,916.84	47.04%	140 021 00
6903 · OBMP SAWPA Group	6,421.00	6,742.00	-321.00	95.24%	140,931.00 6,742.00
Total 6901-6903 · OBMP WM Staff/SAWPA	17,895.16	31,133.00	-13,237.84	57.48%	147,673.00
6906 · OBMP Engineering Services			-10,207.04	07.4078	
6906.1 · OBMP - Watermaster Model Update	0.00	9,754.00	-9,754.00	0.0%	58,544.00
6906.15 · Integrated Model Mtgs IEUA Costs	2,503.50	3,330.00	-826.50	75.18%	19,960.00
6906.21 · State of the Basin Report	0.00	26,402.00	-26,402,00	0.0%	158,422.00
6906.22 · Water Rights Compliance Reporting	12,596.35	4,275.00	8,321.35	294.65%	25,650.00
6906.23 · SGMA Reporting Requirements	0.00	2,250.00	-2,250.00	0.0%	13,500.00
6906.24 · Compliance - SB88 and SWRCB	0.00	1,352.00	-1,352.00	0.0%	8,092.00
6906.26 · 2019 OBMP Update	0.00	26,479.00	-26,479.00	0.0%	158,872.00
6906.27 · HCP Meetings/Tech. Review-IEUA Cost		2,970.00	-2,970.00	0.0%	17,810.00
6906.28 · Agriculture Prod. & Estimation	0.00	3,742.00	-3,742.00	0.0%	22,452.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	13,820.52	16,327.00	-2,506.48	84.65%	97,962.00
6906.32 · OBMP - Other General Meetings	8,628.85	13,513.00	-4,884.15	63.86%	81,093.00
6906.71 · OBMP - Data Requests - CBWM Staff	22,728.79	16,674.00	6,054.79	136.31%	100,044.00
6906.72 · OBMP - Data Requests - Non CBWM	1,686.90	5,388.00	-3,701.10	31.31%	32,348.00
6906.73 · OBMP - Safe Yield Recalculation	21,661.20	67,814.00	-46,152.80	31.94%	406,884.00
6906.74 · OBMP - Mat'l Phy. Injury Requests	513.30	11,997.00	-11,483.70	4.28%	71,967.00
6906.81 · Prepare Annual Reports	2,169.60	3,248.00	-1,078.40	66.8%	19,498.00
6906.9 · OBMP - 2018 RMPU Master Update	54,178.20	9,066.00	45,112.20	597.6%	54,396.00
6906 · OBMP Engineering Services - Other	3,467.20	5,798.00	-2,330.80	59.8%	34,768.00
Total 6906 · OBMP Engineering Services	143,954.41	230,379.00	-86,424.59	62.49%	1,382,262.00
6907 · OBMP Legal Fees					
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	2,185.00	-2,185.00	0.0%	13,125.00
6907.32 · Chino Airport Plume	0.00	2,185.00	-2,185.00	0.0%	13,125.00
6907.33 · Desalter/Hydraulic Control	0.00	3,935.00	-3,935.00	0.0%	23,625.00
6907.34 · Santa Ana River Water Rights	278.10	2,715.00	-2,436.90	10.24%	16,275.00
6907.36 · Santa Ana River Habitat	1,903.95	7,220.00	-5,316.05	26.37%	43,300.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	2,625.00	-2,625.00	0.0%	15,750.00
6907.39 · Recharge Master Plan	14,131.77	7,900.00	6,231.77	178.88%	47,400.00
6907.40 · Storage Agreements	4,386.15	15,400.00	-11,013.85	28.48%	92,400.00
6907.41 · Prado Basin Habitat Sustainability	263.25	2,710.00	-2,446.75	9.71%	16,250.00
6907.42 · Safe Yield Recalculation	40,220.44	19,000.00	21,220.44	211.69%	114,000.00
6907.44 · SGMA Compliance	7,179.63	13,150.00	-5,970.37	54.6%	78,900.00
6907.45 · OBMP Update	0.00	18,030.00	-18,030.00	0.0%	108,200.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	5,325.00	-5,325.00	0.0%	31,950.00
Total 6907 · WM Legal Counsel	68,363.29	102,380.00	-34,016.71	66.77%	614,300.00
Total 6907 · OBMP Legal Fees	68,363.29	102,380.00	-34,016.71	66.77%	614,300.00
6909 · OBMP Other Expenses					
6909.1 · OBMP Meetings	340.93	250.00	90.93	136.37%	1,500.00
6909.3 · Other OBMP Expenses	0.00	330.00	-330.00	0.0%	2,000.00
6909.6 · OBMP Expenses - Miscellaneous	0.00	830.00	-830.00	0.0%	5,000.00
Total 6909 · OBMP Other Expenses	340.93	1,410.00	-1,069.07	24.18%	8,500.00
6910 · WEI Support for IEUA	0.00	0.00	0.00	0.007	<u> </u>
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	230,553.79	365,302.00	-134,748.21	63.11%	2,152,735.00

PREVIOUSLY REPORTED ACTIONS (Descending Order) None

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

CURRENT MONTH - AUGUST 2018

As of August 31, 2018, the total (YTD) Engineering Services expenses were \$300,007 or 14.0% below

the (YTD) budget amount of \$2,137,985. The OBMP Implementation Projects (consolidated accounts 7100's – 7700's) were all under budget as of August 31, 2018, with the exception of the Groundwater Quality-Engineering expenses (7103.3) which were over budget by \$10,853 or 32.7%; PE4-Engineering expenses (7402) which were over budget by \$29,542 or 169.0%; and PE8&9-Engineering expenses (7602) which were over budget by \$1,249 or 1.9%.

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 first quarter ECAC report (for the months July 2018 – September 2018) is scheduled to be produced by Wildermuth Environmental, Inc. and distributed to Watermaster during the month of October 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 August 31, 2018. 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:

6906 ⋅ OBMP Engineering Services - Other 6906.1 ⋅ OBMP - Watermaster Model Update 6906.15 ⋅ Integrated Model Mtgs-IEUA Cost 6906.21 ⋅ State of the Basin Report	Actual 3,467.20 0.00 2,503.50 0.00 12,596.35	Budget 5,798.00 9,754.00 3,330.00	\$ Over Budget -2,330.80 -9,754.00	% of Budget 59.8% 0.0%	Annual Budget 34,768.00
6906.1 · OBMP - Watermaster Model Update 6906.15 · Integrated Model Mtgs-IEUA Cost	0.00 2,503.50 0.00 12,596.35	9,754.00 3,330.00	-9,754.00		•
6906.15 · Integrated Model Mtgs-IEUA Cost	2,503.50 0.00 12,596.35	3,330.00	•	0.0%	
	0.00 12,596.35				58,544.00
6906.21 · State of the Basin Report	12,596.35		-826.50	75.18%	19,960.00
		26,402.00	-26,402.00	0.0%	158,422.00
6906.22 · Water Rights Compliance Reporting	0.00	4,275.00	8,321.35	294.65%	25,650.00
6906.23 · SGMA Reporting Requirements	0.00	2,250.00	-2,250.00	0.0%	13,500.00
6906.24 · Compliance - SB88 and SWRCB	0.00	1,352.00	-1,352.00	0.0%	8,092.00
6906.26 · 2019 obmp Update	0.00	26,479.00	-26,479.00	0.0%	158,872.00
6906.27 · HCP Meetings/Technical Review-IEUA Cos	r 0.00	2,970.00	-2,970.00	0.0%	17,810.00
6906.28 · Agriculture Prod. & Estimation	0.00	3,742.00	-3,742.00	0.0%	22,452.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	13,820.52	16,327.00	-2,506.48	84.65%	97,962.00
6906.32 · OBMP - Other General Meetings	8,628.85	13,513.00	-4,884.15	63.86%	81,093.00
6906.71 · OBMP - Data Requests - CBWM Staff	22,728.79	16,674.00	6,054.79	136.31%	100,044.00
6906.72 · OBMP - Data Requests - Non CBWM	1,686.90	5,388.00	-3,701.10	31.31%	32,348.00
6906.73 · OBMP - Safe Yield Recalculation	21,661.20	67,814.00	-46,152.80	31.94%	406,884.00
6906.74 · OBMP - Mat'l Physical Injury Requests	513.30	11,997.00	-11,483.70	4.28%	71,967.00
6906.81 · Prepare Annual Reports	2,169.60	3,248.00	-1,078.40	66.8%	19,498.00
6906.90 · OBMP - 2018 RMPU Master Update	54,178.20	9,066.00	45,112.20	597.6%	54,396.00
7103.3 · Grdwtr Qual-Engineering	44,059.90	33,207.00	10,852.90	132.68%	199,243.00
7103.5 · Grdwtr Qual-Lab Svcs	0.00	12,940.00	-12,940.00	0.0%	38,820.00
7104.3 · Grdwtr Level-Engineering	20,863.33	40,054.00	-19,190.67	52.09%	240,328.00
7104.8 · Grdwtr Level-Contracted Services	0.00	1,670.00	-1,670.00	0.0%	10,000.00
7104.9 · Grdwtr Level-Capital Equipment	0.00	1,330.00	-1,330.00	0.0%	8,000.00
7107.2 · Grd Level-Engineering	8,081.14	37,059.00	-28,977.86	21.81%	98,243.00
7107.3 · Grd Level-SAR Imagery	12,000.00	15,000.00	-3,000.00	80.0%	85,000.00
7107.6 · Grd Level-Contract Svcs	9,370.71	32,647.00	-23,276.29	28.7%	92,227.00
7107.8 · Grd Level-Capital Equipment	0.00	2,112.00	-2,112.00	0.0%	12,692.00
7108.31 · Hydraulic Control-PBHSP	4,558.05	12,859.00	-8,300.95	35.45%	77,159.00
7108.4 · Hydraulic Control-Lab Svcs	1,634.00	2,260.00	-626.00	72.3%	9,038.00
7108.41 · Hydraulic Control-PBHSP	0.00	0.00	0.00	0.0%	15,026.00
7108.6 · Hydraulic Control-Outside Professionals	0.00	1,670.00	-1,670.00	0.0%	10,000.00
7109.3 · Recharge & Well - Engineering	1,448.40	4,208.00	-2,759.60	0.0%	25,248.00
7202.2 · Comp Recharge-Engineering Services	4,070.97	15,270.00	-11,199.03	26.66%	91,640.00
7303 · PE3&5-Engineering - Other	0.00	1,630.00	-1,630.00	0.0%	9,760.00
7402 · PE4-Engineering	47,026.85	17,485.00	29,541.85	268.96%	104,910.00
7402.10 · PE4-MZ1 Pomona Project	1,470,361.18	1,559,137.00	-88,775.82	94.31%	1,703,417.00
7403 · PE4-Contract Svcs	0.00	1,670.00	-1,670.00	0.0%	10,000.00
7502 · PE6&7-Engineering	2,272.30	14,652.00	-12,379.70	15.51%	87,912.00
7510 · PE6&7-IEUA Salinity Mgmt. Plan	0.00	33,718.00	-33,718.00	0.0%	108,178.00
7602 · PE8&9-Engineering	68,276.80	67,028.00	1,248.80	101.86%	105,348.00
Total Engineering Services Costs	1,837,978.04	2,137,985.00	-300,006.96	85.97%	4,524,451.00 *

* Wildermuth and Subcontractor Engineering Budget of \$2,929,798 plus Carryover Funds from FY 2017/18 of \$1,594,653 Carryover Funds from FY 2017/18 of \$1,594,653 = \$24,822 (7107.2); \$20,727 (7107.6); \$1,530,279 (7402.10); and \$18,825 (7510)

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2018:

The breakdown of the total Task Order amount of \$2,929,798 includes direct labor costs for Wildermuth Environmental, Inc. (87.2%) along with other direct charges such as equipment rental, laboratory fees, travel costs, reproduction costs, and outside professional services (12.8%).

The approved "Original" Engineering Services budget of \$2,929,798 was increased by "Carry Over" funding in the amount of \$1,594,653 to the "Amended" amount of \$4,524,451 for FY 2018/19 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 2018/19 timeframe or future years. The Carry-Over amount of \$1,594,653 from FY 2017/18 to the FY 2018/19 budget are provided in detail as follows:

- 1. 7107.2 Ground-Level Engineering Services of \$24,822. The Watermaster's Subsidence Management Plan includes a "long-term pumping test" in the Managed Area to test the Guidance Level that was budgeted for in FY 2017/18. The test was not performed in FY 2017/18. This carryover budget will support the monitoring of injection, production, groundwater levels, and ground motion associated with the test, if it is performed in FY 2018/19.
- 7107.6 Ground-Level Contract Services of \$20,727. The Watermaster's Subsidence Management Plan includes a "long-term pumping test" in the Managed Area to test the Guidance Level that was budgeted for in FY 2017/18. The test was not performed in FY 2017/18. This carryover budget will support the monitoring of injection, production, groundwater levels, and ground motion associated with the test, if it is performed in FY 2018/19.
- 3. 7402.1 OBMP Engineering Services Northwest MZ-1 for \$1,530,279. The installation of the Pomona Extensometer has been delayed until FY 2018/19 and the monitoring program in Northwest MZ-1 has not yet been fully implemented. The carryover request will support the efforts to drill, construct, equip, test, and document the installation of the Pomona Extensometer, and complete the installation of the monitoring network in Northwest MZ-1.
- 4. 7510 IEUA Update Recycled Water Permit-Salinity for \$18,825. The Salinity Management effort is a 2.5-year project and is being cost shared with IEUA. FY 2017/18 was the first year of implementation. The unspent budget in FY 2017/18 is necessary to complete the total project.

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 were 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.		5	50% Billing "TO" IEUA		50% Billing "FROM" IEUA	Costs For Watermaster		
Jul. 2018 - Aug. 2018	\$	9,116.10	\$	(4,558.05)	\$		\$	4,558.05	
Totals	\$	9,116.10	\$	(4,558.05)	\$	-	\$	4,558.05	
		7108.31		7108.31		7108.31			
Maximum Costs	\$	174,318.00	\$	87,159.00	\$	87,159.00	\$	87,159.00	

PREVIOUSLY REPORTED ACTIONS (Descending Order) None:

OTHER INCOME AND EXPENSE

There were no other significant items to report within the category of Other Income and Expenses for the month ending August 31, 2018.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2018:

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 2018/19 annual administrative fee invoice was issued on July 6, 2018 in the amount of \$167,712.36 under invoice number 2018-DYY. Payment in the amount of \$167,712.36 was received and deposited on August 7, 2018.

"CARRY OVER" FUNDING BACKGROUND OF "CARRY OVER" FUNDING

Budget vs. Actual Report for the Period Page 13 of 16

Once the FY 2017/18 period as of June 30, 2018 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 2018/19 budget. The Total "Carry Over" funding amount of \$4,728,140.07 was posted to the accounts as of July 1, 2018. The total amount of \$4,728,140.07 consisted of \$3,068,940.82 from Capital Improvement Projects, \$1,594,653.00 from Engineering Services, and \$64,546.25 from Administration Services (\$3,068,940.82 + \$1,594,653.00 + \$64,546.25 = \$4,728,140.07).

CURRENT MONTH - AUGUST 2018

As of August 31, 2018, the total (YTD) amount remaining of the "Carried Over" funding is \$2,110,726.45 (\$4,728,140.07 - \$2,617,413.62 = \$2,110,726.45).

The following details are provided:

"Carried Over" Expenses At June 30, 2018

		GL Account		
\$ 7,500.00	А	6061.6	FY 2017/18	ADMIN
\$ 57,046.25	В	7107.63	FY 2017/18	ADMIN
\$ 24,822.00	С	7107.2 ²	FY 2017/18	ENG
\$ 20,727.00	D	7107.6 3	FY 2017/18	ENG
\$ 1,530,279.00	Е	7402.1 ⁴	FY 2017/18	ENG
\$ 18,825.00	F	7510 ⁵	FY 2017/18	ENG
\$ 37,981.33	G	7209.1 1	FY 2013/14	PROJ
\$ 35,397.53	Н	7209.2 1	FY 2013/14	PROJ
\$ 589,923.18	1	7690.15	FY 2016/17	PROJ
\$ 1,171.33	J	7690.16 1	FY 2016/17	PROJ
\$ 3,877.00	К	7690.3 1	FY 2013/14	PROJ
\$ 106,590.18	L	7690.4	FY 2014/15	PROJ
\$ 1,126,900.00	L	7690.4	FY 2015/16	PROJ
\$ 1,065,600.00	L	7690.4	FY 2016/17	PROJ
\$ 859.80	Μ	7690.5 1	FY 2013/14	PROJ
\$ 36,615.05	Ν	7690.61	FY 2014/15	PROJ
\$ 38,675.00	Ν	7690.61	FY 2015/16	PROJ
\$ 15,062.88	0	7690.7	FY 2014/15	PROJ
\$ 5,000.00	0	7690.7	FY 2015/16	PROJ
\$ 5,287.54	Ρ	7690.8	FY 2016/17	PROJ
\$ 4,728,140.07				
* * * * * * * * * * * * * * * * * * * *	\$ 57,046.25 \$ 24,822.00 \$ 20,727.00 \$ 1,530,279.00 \$ 18,825.00 \$ 37,981.33 \$ 37,981.33 \$ 35,397.53 \$ 589,923.18 \$ 1,171.33 \$ 3,877.00 \$ 106,590.18 \$ 1,126,900.00 \$ 36,615.05 \$ 36,615.05 \$ 36,615.05 \$ 15,062.88 \$ 5,000.00 \$ 5,000.00	\$ 57,046.25 B \$ 24,822.00 C \$ 20,727.00 D \$ 1,530,279.00 E \$ 18,825.00 F \$ 37,981.33 G \$ 35,397.53 H \$ 1,171.33 J \$ 1,171.33 J \$ 1,126,900.00 L \$ 1,065,600.00 L \$ 859.80 M \$ 36,615.05 N \$ 38,675.00 N \$ 15,062.88 O \$ 5,000.00 C \$ 5,000.00 O \$ 5,287.54 P	\$ 7,500.00 A 6061.6 \$ 57,046.25 B 7107.63 \$ 24,822.00 C 7107.6 ³ \$ 20,727.00 D 7107.6 ³ \$ 1,530,279.00 E 7402.1 ⁴ \$ 18,825.00 F 7510 ⁵ \$ 37,981.33 G 7209.1 ¹ \$ 35,397.53 H 7209.2 ¹ \$ 3589.923.18 I 7690.16 ¹ \$ 1,171.33 J 7690.16 ¹ \$ 3,877.00 K 7690.3 ¹ \$ 1,126,900.00 L 7690.4 \$ 1,065,600.00 L 7690.4 \$ 1,065,600.00 L 7690.4 \$ 36,615.05 N 7690.61 \$ 38,675.00 N 7690.61 \$ 15,062.88 O 7690.7 \$ 5,000.00 O 7690.7 \$ 5,287.54 P 7690.8	\$ 7,500.00 A 6061.6 FY 2017/18 \$ 57,046.25 B 7107.63 FY 2017/18 \$ 24,822.00 C 7107.2 ² FY 2017/18 \$ 24,822.00 C 7107.6 ³ FY 2017/18 \$ 20,727.00 D 7107.6 ³ FY 2017/18 \$ 1,530,279.00 E 7402.1 4 FY 2017/18 \$ 18,825.00 F 7510 5 FY 2017/18 \$ 37,981.33 G 7209.1 1 FY 2013/14 \$ 35,397.53 H 7209.2 1 FY 2013/14 \$ 358,923.18 I 7690.15 FY 2016/17 \$ 1,171.33 J 7690.16 1 FY 2016/17 \$ 3,877.00 K 7690.3 1 FY 2013/14 \$ 106,590.18 L 7690.4 FY 2014/15 \$ 1,126,900.00 L 7690.4 FY 2016/17 \$ 1,065,600.00 L 7690.4 FY 2016/17 \$ 859.80 M 7690.5 1 FY 2013/14

"Carried Over" Balance, July 1, 2018	\$ 4,728,140.07			
Less: (Invoices Received To Date FY 2018/19)				
Ground Level - Engineering Services	\$ (8,081.14)	С	7107.2 ²	
Ground Level - Contract Services	\$ (9,370.71)	D	7107.6 ³	
PE4 - Northwest MZ-1 Area Project	\$ (1,470,361.18)	Е	7402.1 4	
Jurupa Pumping Station (TO #5)	\$ (37,981.33)	G	י 7209.1	Budget Transfer T-18-07-01 (OUT)
Wineville Basin Proof of Concept (TO #6)	\$ (35,397.53)	Н	7209.2 1	Budget Transfer T-18-07-01 (OUT)
RMPU Amendment (TO #1)	\$ 690,258.97	I	7690.15	Budget Transfer T-18-07-01 (IN)
RMPU Amendment (TO #1)	\$ (980,182.15)	I	7690.15	Invoice Paid
Hickory Basin Recharge Improvement Project	\$ (3,877.00)	К	7690.3 1	Budget Transfer T-18-07-01 (OUT)
San Sevaine Recharge Improvement Project (TO #8)	\$ (106,590.18)	L	7690.4	Budget Transfer T-18-07-01 (OUT)
San Sevaine Recharge Improvement Project (TO #8)	\$ (1,126,900.00)	L	7690.4	Budget Transfer T-18-07-01 (OUT)
San Sevaine Recharge Improvement Project (TO #8)	\$ (1,065,600.00)	L	7690.4	Budget Transfer T-18-07-01 (OUT)
CB20 Turnout Noise Abatement Project	\$ (859.80)	М	7690.5 1	Budget Transfer T-18-07-01 (OUT)
GWR SCADA Upgrades (TO #4)	\$ (29,590.05)	Ν	7690.61	
Lower Day Basin RMPU (TO #2)	\$ 414,540.85	Ρ	7690.8	Budget Transfer T-18-07-01 (IN)
Lower Day Basin RMPU (TO #2)	\$ (119,828.39)	Ρ	7690.8	Invoice Paid
Funds on Hold for Projects	\$ 1,272,406.02	Q	7690.9	Budget Transfer T-18-07-01 (IN)
Updated Balance as of August 31, 2018	\$ 2,110,726.45			

Project completed with funds available for (1) reallocation to another project, (2) paydown debt service, (3) maintain as extra funding, or (4) distribution to the Appropriative Pool as a credit through the Assessment invoicing.

² Engineering work not completed in FY 2017/18 to perform ground level surveys for the long-term pumping test.

³ Outside professionals work not completed in FY 2017/18 to perform ground level surveys for the long-term pumping test.

* Work not completed in FY 2017/18 for installation of the Pomona extensioneter and monitoring program for the Northwest MZ-1 area.

* Watermaster's portion of the unused FY 2017/18 budget to finalize the 2.5 year project to Update Recycled Water Permit with IEUA

Updated Balance as of August 31, 2018					
Blomquist Report - Update	\$ 7,500.00	А	6061.6	FY 2017/18	ADMIN
Grd Level - MVWD SCADA Reimbursement	\$ 57,046.25	в	7107.63	FY 2017/18	ADMIN
Ground Level - Engineering Services	\$ 16,740.86	С	7107.2 ²	FY 2017/18	ENG
Ground Level - Contract Services	\$ 11,356.29	D	7107.6 ³	FY 2017/18	ENG
PE4 - Northwest MZ-1 Area Project	\$ 59,917.82	Е	7402.1 ₄	FY 2017/18	ENG
PE6&7-IEUA Salinity Mgmt. Plan	\$ 18,825.00	F	7510 5	FY 2017/18	ENG
Jurupa Pumping Station (TO #5)	\$ -	G	7209.1 1	FY 2013/14	PROJ
Wineville Basin Proof of Concept (TO #6)	\$ -	Н	7209.2 1	FY 2013/14	PROJ
RMPU Amendment (TO #1)	\$ 300,000.00	I	7690.15	FY 2016/17	PROJ
East Declez Basin (TO #1)	\$ 1,171.33	J	7690.16 1	FY 2016/17	PROJ
Hickory Basin Recharge Improvement Project	\$ -	к	7690.3 1	FY 2013/14	PROJ
San Sevaine Recharge Improvement Project (TO #8)	\$ -	L	7690.4	FY 2014/15	PROJ
San Sevaine Recharge Improvement Project (TO #8)	\$ -	L	7690.4	FY 2015/16	PROJ
San Sevaine Recharge Improvement Project (TO #8)	\$ -	L	7690.4	FY 2016/17	PROJ
CB20 Turnout Noise Abatement Project	\$ -	М	7690.5 1	FY 2013/14	PROJ
GWR SCADA Upgrades (TO #4)	\$ 7,025.00	Ν	7690.61	FY 2014/15	PROJ
GWR SCADA Upgrades (TO #4)	\$ 38,675.00	Ν	7690.61	FY 2015/16	PROJ
Upper Santa Ana River HCP (TO #7)	\$ 15,062.88	0	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$ 5,000.00	0	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$ 300,000.00	Р	7690.8	FY 2016/17	PROJ
Funds on Hold for Projects	\$ 1,272,406.02	Q	7690.9	Budget Transfe	r T-18-07-01 (IN)
Updated Balance as of August 31, 2018	\$ 2,110,726.45				

ADMINISTRATION SERVICES:

Unspent funds related to ongoing projects and associated activities from the Administration Services budget from FY 2017/18 in several accounts totaling \$64,546.25 were "Carried Over" into the current FY 2018/19 budget. These funds were from the Blomquist Report-Update [A] in the amount of \$7,500 in account (6061.6); and Ground Level – MVWD SCADA Reimbursement [B] in the amount of \$57,046.25 in account (7107.63).

ENGINEERING SERVICES:

Unspent funds related to ongoing projects and associated activities from the Engineering Services budget from FY 2017/18 in several accounts totaling \$1,594,653 were "Carried Over" into the current FY 2018/19 budget. These funds were from the Ground Level - Engineering Services [C] in the amount of \$24,822 in account (7107.2); Ground Level - Contract Services [D] in the amount of \$20,727 in account (7107.6); PE4 – Northwest MZ-1 Area Project [E] in the amount of \$1,530,279 in account (7402.1); and PE6&7-IEUA Salinity Management Plan [F] in the amount of \$18,825 in account (7510).

COMPLETED PROJECTS WITH FUNDING AVAILABLE:

Several projects were completed during FY 2017/18 or in prior years and have remaining funds available to be either (1) reallocated to other project(s) that need additional funding, (2) keep amounts on reserve for future Capital Improvement Projects, (3) pay down the debt service; or (4) refunded back to the Appropriative Pool when the Assessment package is invoiced. The funding amounts available are as follows: Jurupa Pumping Station [G] in the amount of \$37,981.33 (account 7209.1); Wineville Basin Proof of Concept [H] in the amount of \$35,397.53 (account 7209.2); East Declez Basin [J] in the amount of \$1,171.33 (account 7690.16); Hickory Basin Recharge Improvement Project [K] in the amount of \$3,877.00 (account 7690.3); and CB20 Turnout Noise Abatement Project [M] 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 [I] has a remaining budget from FY 2016/17 of \$589,923.18 in account (7690.15); the San Sevaine Recharge Improvement Project-Task Order #8 [L] has a remaining funded budget balance of \$2,299,090.18 in account (7690.4); the GWR SCADA Upgrades-Task Order #4 [N] has a remaining funded budget balance of \$75,290.05 in account (7690.61); the Upper Santa Ana River HCP-Task Order #7 [O] has a remaining funded balance of \$20,062.88 in account (7690.7); and the Lower Day Basin RMPU-Task Order #2 [P] has a remaining funded budget balance of \$5,287.54 in account (7690.8). The total funded budget for these combined projects is \$2,989,653.83.

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 August 31, 2019, any remaining balances of the FY 2018/19 and prior years funding (if any), along with any new FY 2018/19 expenses, will then be "Carried Over" into the FY 2019/20 budget.

AUDIT FIELD WORK

FY 2017/18:

The auditors from the audit firm of Fedak & Brown LLP were onsite at the Watermaster offices on April 17, 2018. This was the start of the interim field work for the period of July 1, 2017 through February 28, 2018. The final field work for the period of March 1, 2018 through June 30, 2018 was completed during August 7, 2018 through August 8, 2018. The Annual Financial and Audit Reports are scheduled to be presented to the Watermaster Board by Fedak & Brown LLP at the October 25, 2018 Board meeting. The Annual Financial and Audit Reports for FY 2017/18 are anticipated to be posted to the Watermaster website no later than October 31, 2018.

ASSESSMENT INVOICING

CURRENT MONTH - AUGUST 2018

The FY 2018/19 Assessment Package (Draft) is scheduled for presentation at Workshop #1 on Tuesday, October 23, 2018 at 1:00pm. If needed, the FY 2018/19 Assessment Package (Draft) is also scheduled for presentation at Workshop #2 on Tuesday, October 30, 2018 at 1:00pm.

The FY 2018/19 Assessment Package is scheduled for presentation to the Pools on Thursday, November 8, 2018 and to the Advisory Committee and Board on Thursday, November 15, 2018.

If the FY 2018/19 Assessment Package is approved by the Advisory Committee and adopted by the Board on Thursday, November 15, 2018, the Assessment invoices will be issued by Watermaster no later than Friday, November 16, 2018 with payment due 30-days after invoice date. Payments will be due to Watermaster on Monday, December 17, 2018. As past practice, payment can be made to Watermaster by either a wire transfer or check. Per the judgment, late fees could be assessed for any payment not received as of 5:00pm on Monday, December 17, 2018.

To date, all assessment invoice payments have been received. No Assessment activity for the month to report.

PREVIOUSLY REPORTED ACTIONS (Descending Order) None:

ATTACHMENTS

1. Financial Report - B5

CHINO BASIN WATERMASTER Budget vs. Actual Current Month, Year-To-Date and Fiscal Year-End

	1	/12th (8.33%) c	of the Total Budg	get	2	/12th (16.67%)	of the Total Bud	lget	1	.00% of the Tota	al Budget	
	F	or The Month o	of August 2018		Yea	r-To-Date as of	August 31, 2018	3	Fiscal Year End as of June 30, 2019			,
	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%	167,712.36	167,712.00	0.36	100.0%	167,712.00	167,712.00	0.00	100.0%
4110 · Admin Asmnts-Approp Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	8,301,750.00	8,301,750.00	0.00	100.0%
4120 · Admin Asmnts-Non-Agri Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	353,795.00	353,795.00	0.00	100.0%
4700 · Non Operating Revenues	10.25	0.00	10.25	100.0%	20.67	0.00	20,67	100.0%	63,968.00	63,968.00	0.00	100.0%
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	10.25	0.00	10.25	100.0%	167,733.03	167,712.00	21.03	100.01%	8,887,225.00	8,887,225.00	0.00	100.0%
Gross Profit	10.25	0.00	10.25	100.0%	167,733.03	167,712.00	21.03	100.01%	8,887,225.00	8,887,225.00	0.00	100.0%
Expense												
6010 · Admin. Salary/Benefit Costs	89,884.27	92,451.00	-2,566.73	97.22%	188,992.91	181,583.00	7,409.91	104.08%	1,062,695.00	1,062,695.00	0.00	100.0%
6020 · Office Building Expense	9,455.37	10,034.00	-578.63	94.23%	17,808.05	18,818.00	-1,009.95	94.63%	112,399.00	112,399.00	0.00	100.0%
6030 · Office Supplies & Equip.	3,519.06	3,325.00	194.06	105.84%	4,996.19	5,075.00	-78.81	98.45%	50,500.00	50,500.00	0.00	100.0%
6040 · Postage & Printing Costs	3,595.51	3,402.00	193.51	105.69%	6,192.21	6,354.00	-161.79	97.45%	47,142.00	47,142.00	0.00	100.0%
6050 · Information Services	14,074.24	15,208.00	-1,133.76	92.55%	29,967.78	31,136.00	-1,168.22	96.25%	151,656.00	151,656.00	0.00	100.0%
6060 · Contract Services	3,915.91	5,000.00	-1,084.09	78.32%	5,895.21	16,100.00	-10,204.79	36.62%	45,125.00	45,125.00	0.00	100.0%
6070 · Watermaster Legal Services	33,909.78	13,001.00	20,908.78	260.82%	93,377.69	26,003.00	67,374.69	359.1%	156,015.00	156,015.00	0.00	100.0%
6080 · Insurance	9,544.19	0.00	9,544.19	100.0%	35,660.67	28,815.00	6,845.67	123.76%	30,315.00	30,315.00	0.00	100.0%
6110 · Dues and Subscriptions	0.00	250.00	-250.00	0.0%	14,132.50	15,098.00	-965.50	93.61%	34,590.00	34,590.00	0.00	100.0%
-0 6140 · WM Admin Expenses	22.36	50.00	-27.64	44.72%	206.48	250.00	-43.52	82,59%	2,350.00	2,350.00	0.00	100.0%
6150 · Field Supplies	0.00	150.00	-150.00	0.0%	21.29	200.00	-178.71	10.65%	1,550.00	1,550.00	0.00	100.0%
6170 · Travel & Transportation	963.71	2,355.00	-1,391.29	40.92%	2,805.44	4,230.00	-1,424.56	66,32%	24,170.00	24,170.00	0.00	100.0%
6190 · Training, Conferences, Seminars	2,394.56	2,524.00	-129.44	94.87%	5,539.80	6,848.00	-1,308.20	80.9%	37,857.00	37,857.00	0.00	100.0%
6200 · Advisory Comm - WM Board	3,583.64	4,257.00	-673.36	84.18%	8,249.52	8,416.00	-166.48	98.02%	47,539.00	47,539.00	0.00	100.0%
6300 · Watermaster Board Expenses	12,416.15	13,596.00	-1,179.85	91.32%	29,012.39	27,011.00	2,001.39	107.41%	178,980.00	178,980.00	0.00	100.0%
8300 · Appr PI-WM & Pool Admin	12,376.00	12,111.00	265.00	102.19%	25,599.09	24,079.00	1,520.09	106.31%	140,552.00	140,552.00	0.00	100.0%
8400 · Agri Pool-WM & Pool Admin	3,733.98	5,541.00	-1,807.02	67.39%	7,552.41	10,959.00	-3,406.59	68.92%	62,054.00	62,054.00	0.00	100.0%
8467 · Ag Legal & Technical Services	31,716.73	17,083.00	14,633.73	185.66%	67,116.73	34,167.00	32,949.73	196.44%	205,000.00	205,000.00	0.00	100.0%
8470 · Ag Meeting Attend -Special	1,250.00	1,850.00	-600.00	67.57%	2,275.00	3,700.00	-1,425.00	61.49%	22,200.00	22,200.00	0.00	100.0%
8471 · Ag Pool Expense	0.00	0.00	0.00	0.0%	14,018.00	15,000.00	-982.00	93.45%	85,000.00	85,000.00	0.00	100.0%
8485 · Ag Pool - Misc. Exp Ag Fund	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	400.00	400.00	0.00	100.0%
8500 · Non-Ag PI-WM & Pool Admin	11,181.72	9,470.00	1,711.72	118.08%	26,509.57	18,857.00	7,652.57	140.58%	109,837.00	109,837.00	0.00	100.0%
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	-15,210.42	-34,935.00	19,724.58	43.54%	-34,628.56	-69,871.00	35,242.44	49.56%	-419,223.00	-419,223.00	0.00	100.0%
6900 · Optimum Basin Mgmt Plan	123,101.29	179,559.00	-56,457.71	68.56%	230,553.79	365,302.00	-134,748.21	63.11%	2,152,735.00	2,152,735.00	0.00	100.0%
9501 · G&A Expenses Allocated-OBMP	3,047.63	10,044.00	-6,996.37	30.34%	5,315.10	20,092.00	-14,776.90	26.45%	120,532.00	120,532.00	0.00	100.0%
7101 · Production Monitoring	2,366.70	5,735.00	-3,368.30	41.27%	7,352.54	11,224.00	-3,871.46	65.51%	64,875.00	64,875.00	0.00	100.0%
7102 · In-line Meter Installation	0.00	31,772.00	-31,772.00	0.0%	0.00	63,465.00	-63,465.00	0.0%	380,107.00	380,107.00	0.00	100.0%
7103 · Grdwtr Quality Monitoring	27,902.49	30,630.00	-2,727.51	91.1%	51,725.83	60,985.00	-9,259.17	84.82%	324,329.00	324,329.00	0.00	100.0%
7104 · Gdwtr Level Monitoring	16,279.17	28,121.00	-11,841.83	57.89%	30,903.73	55,998.00	-25,094.27	55.19%	333,553.00	333,553.00	0.00	100.0%
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	3,592.96	19,736.00	-16,143.04	18.21%	29,451.85	157,046.25	-127,594.40	18.75%	424,094.25	424,094.25	0.00	100.0%

CHINO BASIN WATERMASTER Budget vs. Actual Current Month, Year-To-Date and Fiscal Year-End

	1/	/12th (8.33%) o	f the Total Budg	get	2/	(12th (16.67%)	of the Total Bud	get	1	00% of the Tota	l Budget	
	Fo	or The Month o	f August 2018		Year	r-To-Date as of	August 31, 2018	3	Fise	cal Year End as	of June 30, 2019)
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
7108 · Hydraulic Control Monitoring	4,558.05	8,102.00	-3,543.95	56.26%	6,192.05	18,431.00	-12,238.95	33.6%	120,704.00	120,704.00	0.00	100.0%
7109 · Recharge & Well Monitoring Prog	1,448.40	2,104.00	-655.60	68.84%	1,448.40	4,208.00	-2,759.60	34.42%	25,248.00	25,248.00	0.00	100.0%
7200 · PE2- Comp Recharge Pgm	7,412.36	-59,733.86	67,146.22	-12.41%	306,621.97	320,631.00	-14,009.03	95.63%	1,334,437.00	1,334,437.00	0.00	100.0%
7300 · PE3&5-Water Supply/Desalte	0.00	2,827.00	-2,827.00	0.0%	1,474.40	5,599.00	-4,124.60	26.33%	32,934.00	32,934.00	0.00	100.0%
7400 · PE4- Mgmt Plan	1,492,941.64	25,089.00	1,467,852.64	5,950.58%	1,520,567.20	1,580,425.00	-59,857.80	96.21%	1,830,746.00	1,830,746.00	0.00	100.0%
7500 · PE6&7-CoopEfforts/SaltMgmt	1,416.30	15,702.00	-14,285.70	9.02%	2,272.30	50,190.00	-47,917.70	4.53%	206,603.00	206,603.00	0.00	100.0%
7600 · PE8&9-StorageMgmt/Conj Use	20,216.36	18,946.00	1,270.36	106.71%	70,520.75	70,783.00	-262,25	99.63%	127,048.00	127,048.00	0.00	100.0%
7690 · Recharge Improvement Debt Pymt	1,129,600.59	73,378.86	1,056,221.73	1,539.41%	1,710,185.59	3,649,525.82	-1,939,340.23	46.86%	3,649,525.82	3,649,525.82	0.00	100.0%
7700 · Inactive Well Protection Prgm	0.00	42.00	-42.00	0.0%	0.00	84.00	-84.00	0.0%	500.00	500.00	0.00	100.0%
9502 · G&A Expenses Allocated-Projects	12,162.79	24,891.00	-12,728.21	48.86%	29,313.46	49,781.00	-20,467.54	58.89%	298,691.00	298,691.00	0.00	100.0%
Total Expense	3,078,373.49	593,668.00	2,484,705.49	518.54%	4,555,199.33	6,896,598.07	-2,341,398.74	66.05%	13,615,365.07	13,615,365.07	0.00	100.0%
Net Ordinary Income	-3,078,363.24	-593,668.00	-2,484,695.24	518.53%	-4,387,466.30	-6,728,886.07	2,341,419.77	65.2%	-4,728,140.07	-4,728,140.07	0.00	100.0%
Other Income												
4210 · Approp Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4220 · Non-Ag Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4225 · Interest Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
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%
O 4715 · Gain on Sale of Assets	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Notal Other 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%
Other Expense				1								
5010 · Groundwater Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
5100 · Other Water Purchases	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9200 · Interest Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9251 · Other Post Employment Benefits	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9996 · Refund-Excess Reserves-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9997 · Refund-Excess Reserves-NonAg	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9998 · Refund-Recharge Debt-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9999 · To/(From) Reserves	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Other 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%
Net Other 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%
Net Income	-3,078,363.24	-593,668.00	-2,484,695.24	518.53%	-4,387,466.30	-6,728,886.07	2,341,419.77	65.2%	-4,728,140.07	-4,728,140.07	0.00	100.0%
									L			

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

- I. CONSENT CALENDAR (App and Ag Pool)
 - C. CONSIDERATION OF APPLICATION FOR LOCAL STORAGE AGREEMENTS – APPROPRIATIVE POOL

I. <u>BUSINESS ITEMS – ROUTINE (Non-Ag Pool)</u>

C. CONSIDERATION OF APPLICATION FOR LOCAL STORAGE AGREEMENTS – APPROPRIATIVE POOL



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PETER KAVOUNAS, P.E. General Manager

STAFF REPORT

- DATE: October 11, 2018
- TO: Pool Committee Members
- SUBJECT: Consideration of Application for Local Storage Agreements Appropriative Pool (Consent Calendar Item I.C)

SUMMARY

<u>Issue</u>: Consideration of Application for Local Storage Agreements – Storage of Excess Carryover and Local Supplemental Water by members of the Appropriative Pool.

<u>Recommendation:</u> Recommend to the Advisory Committee to recommend that the Watermaster Board approves the application for local storage agreements as presented.

Financial Impact: None

Future Consideration

Appropriative Pool – October 11, 2018: Recommend to the Advisory Committee to recommend that Watermaster Board approves the application for storage agreements as presented.

Non-Agricultural Pool – October 11, 2018: Recommend to the Advisory Committee to recommend that Watermaster Board approves the application for storage agreements as presented.

Agricultural Pool – October 11, 2018: Recommend to the Advisory Committee to recommend that Watermaster Board approves the application for storage agreements as presented.

Advisory Committee – November 15, 2018: Recommend to the Watermaster Board to approve the application for storage agreements as presented. Watermaster Board – November 15, 2018: Approve the application and authorize the General Manager to execute the necessary storage agreements.

ACTIONS:

Appropriative Pool – October 11, 2018:

Non-Agricultural Pool – October 11, 2018:

Agricultural Pool – October 11, 2018:

Advisory Committee – November 15, 2018: Watermaster Board – November 15, 2018:

BACKGROUND

The Court approved the Peace Agreement, the Optimum Basin Management Program (OBMP) 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).

Pursuant to the Peace Agreement §5.2; Restated Judgment, Exhibit G, Non-Agricultural Pool Pooling Plan ¶7; Restated Judgment Exhibit H, and Appropriative Pool Pooling Plan ¶12 parties are required to have approved Local Storage Agreements for the amounts in their stored water accounts.

During its regular meeting in March 2018 the Watermaster Board approved Local Storage Agreements for all Appropriative and Non-Agricultural Pool parties for the balances shown in their respective accounts in the approved 2017/18 Assessment Package.

DISCUSSION

The Appropriative Pool has submitted an Application for Local Storage Agreement (Attachment 1) on behalf of all its members for their Excess Carry Over and Local Supplemental accounts. The application was noticed on October 5, 2018 (Attachment 2).

The 500,000 ac-ft Safe Storage Capacity threshold analyzed in the OBMP Implementation Plan PEIR has been reexamined and revised to 600,000 ac-ft, through June 30, 2021. The total water in stored water accounts as of June 30, 2017 is 533,920.721 ac-ft. The anticipated total in stored water accounts as of June 30, 2018 is approximately between 535,000 ac-ft to 540,000 ac-ft, and the actual number will be known at the time of the 2018/19 Assessment Package approval.

The storage applications to be considered at this time are for the Excess Carry Over and Local Supplemental accounts of the members of the Appropriative Pool. The agreements are being requested at this time even though the actual amount is not officially determined until the time the Assessment Package is approved later this year. The ending balance of Appropriative Pool parties accounts will be reflected in the Assessment Package after any losses and transactions are accounted for. The approval of the subject storage applications, if granted, would apply to the yet-to-be-approved amounts pertaining to Appropriative Pool parties' accounts in the 2018/19 Assessment Package.

ATTACHMENTS

1. Form 1 – Application for Local Storage Agreement

 Notice of Application for Local Storage Agreements as noticed on October 5, 2018 (click on link below to access): <u>https://cbwm.syncedtool.com/1/files/share/384187/Public%20FTP/Pending%20Applications/20181005%20Noti</u> <u>ce%20of%20Application%20for%20Storage%20Agreement%20-</u> <u>Storage%20of%20Excess%20Carryover%20and%20Local%20Supplemental%20Water%20by%20the%20Appropri</u> ative%20Pool.pdf/9abb162877b999?view=1

ATTACHMENT 1

<u>Form 1</u>

APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICAN Watermaster A see attached T	ppropriative Pool Pa	arties with Stor	ed Water Accounts -	Various			
Name of Pa				Date Requested		Date Approved	
Various	ai ty			Amount shown in 2018-19 Assessment Package	Acre-feet		Acre-feet
Street Addr	ess			Amount Requeste	ed	Amount Approve	d
Various		CA	Various				
City		State	Zip Code				
Telephone:	Various			Facsimile: Vario	us		
	Stabilize or re Facilitate utiliz Facilitate reple Preserve pum	- Check a duce future ation of otl enishment ping right f	cal Supplemental o Il that may apply water costs/asses her available source under certain well s or a changed future pproved purpose not list	sments. es of supply. ites. potential use.	[x] Both		
METHOD A [] [] []	Recharge (Fo Transfer of Ri	rm 2) ght to Wate	CEMENT IN STOR er in Storage (Form arty to the Judgmen	3)	attach all ti	hat may apply	
METHOD A	ND LOCATIO	N OF REC	APTURE FROM S	ORAGE - Check	and attach	all that may appl	у

Pump from my wells (Form 4)

]]] Transfer to another party to the Judgment (Form 3)

WATER QUALITY AND WATER LEVELS

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

The latest water quality and water levels throughout the basin are shown in the latest State of the Basin Report.

MATERIAL PHYSICAL INJURY

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

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

July 2001

Form 1 (cont.)

ADDITIONAL INFORMATION ATTACHED	Yes []x] No [[]]
Applicant A/P Char	
TO BE COMPLETED BY WATERMASTER:	
DATE OF APPROVAL FROM NON-AGRICULT	URAL POOL:
DATE OF APPROVAL FROM AGRICULTURAL	. POOL:
DATE OF APPROVAL FROM APPROPRIATIVE	E POOL:
HEARING DATE, IF ANY:	
DATE OF ADVISORY COMMITTEE APPROVA	L:
DATE OF BOARD APPROVAL:	Agreement #

FORM 1 - TABLE A

NEW STORAGE ACCOUNT BALANCES BY PARTY (TBD BY APPROVED 2018/19 ASSESSMENT PACKAGE)

PARTY NAME

- 1

Arrowhead Mountain Spring Water Calmat Company Chino Hills, City of Chino, City of Cucamonga Valley Water District Desalter Authority Fontana Union Water Company Fontana Water Company Fontana, City of Golden State Water Company Jurupa Community Services District Marygold Mutual Water Company Monte Vista Irrigation Company Monte Vista Water District NCL Co. LLC Niagara Bottling, LLC Nicholson Trust Norco, City of Ontario, City of Pomona, City of San Antonio Water Company San Bernardino County of (Shooting Park) Santa Ana River Water Company Upland, City of West End Consolidated Water Company West Valley Water District

405 N. Indian Hill Blvd., Claremont, CA 91711-4614 405 N. Indian Hill Blvd., Claremont, CA 91711-4614 3210 E. Guasti Road, Suite 100, Ontario, CA 91761 5050 Schaefer Ave., Chino, CA 91710-5549 10440 Ashford St., Rancho Cucamonga, CA 91729 2151 S. Haven Ave., Suite 202, Ontario, CA 91761 15966 Arrow Route, Fontana, CA 92335 15966 Arrow Route, Fontana, CA 92335 8353 Sierra Avenue, Fontana, CA 92335 401 S. San Dimas Canyon Road, San Dimas, CA 91733 11201 Harrel St. Mira Loma, Ca. 91752 9725 Alder Ave., Bloomington, CA 92316 PO Box 71, Montclair, CA 91763 PO Box 71, Montclair, CA 91763 405 N. Indian Hill Blvd., Claremont, CA 91711-4614 2560 E. Philadelphia St., Ontario, CA 91761 15966 Arrow Route, Fontana, CA 92335 2870 Clark Ave., Norco, CA 92860 1425 S. Bon View Ave., Ontario, CA 91761 148 N.Huntington St., Pomona, CA 91768 139 N. Euclid Ave., Upland, CA 91786 385 North Arrowhead Ave., 5th Floor, San Bernardino, CA 92415 10530 54th Street, Jurupa Valley, CA 91752 PO Box 460, Upland, CA 91785-0460 PO Box 460, Upland, CA 91785-0460 PO Box 920, Rialto, CA 92377

PARTY ADDRESS

CONTACT PERSON	EXCESS CARRYOVER
CONTACT PERSON Kevin Sage Kevin Sage Ron Craig Dave Crosley Martin Zvirbulis Curtis Paxton Seth Zielke Cris Fealy Chuck Hays Ben Lewis Todd Corbin Justin Brokaw Van Jew Van Jew Van Jew Van Jew Bob Bowcock Geoffrey Kamansky Chris Fealy Chad Blais Scott Burton Darron Poulsen Teri Layton Bob Page Arnold Rodriguez	EXCESS CARRYOVER TBD TBD TBD TBD TBD TBD TBD TBD
Rosemary Hoerning Rosemary Hoerning Clarence Mansell	TBD TBD TBD

SUPPLEMENTAL- RECYCLED WATER	SUPPLEMENTAL- IMPORTED WATER
N/A	TBD
N/A	TBD
TBD	TBD
TBD	TBD
TBD	TBD
N/A	TBD
TBD	TBD
N/A	TBD
N/A	TBD
TBD	TBD
N/A	TBD
TBD	TBD
N/A	TBD
TBD	TBD
N/A	TBD
N/A	TBD

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Storage Agreements as noticed on October 5, 2018

(click on link below to access):

https://cbwm.syncedtool.com/1/files/share/384187/Public%2 OFTP/Pending%20Applications/20181005%20Notice%20of %20Application%20for%20Storage%20Agreement%20-Storage%20of%20Excess%20Carryover%20and%20Local% 20Supplemental%20Water%20by%20the%20Appropriative %20Pool.pdf/9abb162877b999?view=1 THIS PAGE HAS INTENTIONALLY BEEN LEFT BLANK FOR PAGINATION

I. CONSENT CALENDAR (App and Ag Pool)

D. CONSIDERATION OF APPLICATION FOR LOCAL STORAGE AGREEMENTS – OVERLYING (NON-AGRICULTURAL) POOL



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: October 11, 2018

TO: Appropriative and Overlying (Agricultural) Pool Committee Members

SUBJECT: Consideration of Application for Local Storage Agreements – Overlying (Non-Agricultural) Pool (Consent Calendar Item I.D.)

SUMMARY

<u>Issue</u>: Consideration of Application for Local Storage Agreements – Storage of Excess Carryover Water by members of the Overlying (Non-Agricultural) Pool.

<u>Recommendation</u>: Recommend to the Advisory Committee to recommend that the Watermaster Board approves the application for local storage agreements as presented.

Financial Impact: None

Future Consideration

Appropriative Pool – October 11, 2018: Recommend to the Advisory Committee to recommend that Watermaster Board approves the application for storage agreements as presented.

Agricultural Pool – October 11, 2018: Recommend to the Advisory Committee to recommend that Watermaster Board approves the application for storage agreements as presented.

Advisory Committee – October 18, 2018: Recommend to the Watermaster Board to approve the application for storage agreements as presented. Watermaster Board – October 25, 2018: Approve the application and authorize the General Manager to execute the necessary storage agreements.

ACTIONS:

Appropriative Pool – September 13, 2018: Deferred to the October 2018 meeting for consideration.

Non-Agricultural Pool – September 13, 2018: Unanimously recommended Advisory Committee to recommend to the Watermaster Board to approve, subject to changes which they deem appropriate.

Agricultural Pool – September 13, 2018: Deferred to the October 2018 meeting for consideration.

Appropriative Pool – October 11, 2018:

Agricultural Pool – October 11, 2018:

Advisory Committee – October 18, 2018: Watermaster Board – October 25, 2018:

BACKGROUND

The Court approved the Peace Agreement, the Optimum Basin Management Program (OBMP) 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).

Pursuant to the Peace Agreement §5.2; Restated Judgment, Exhibit G, Non-Agricultural Pool Pooling Plan ¶7; Restated Judgment Exhibit H, and Appropriative Pool Pooling Plan ¶12 parties are required to have approved Local Storage Agreements for the amounts in their stored water accounts.

During its regular meeting in March 2018 Watermaster Board approved Local Storage Agreements for all Appropriative and Non-Agricultural Pool parties for the balances shown in their respective accounts in the approved 2017/18 Assessment Package.

DISCUSSION

The Non-Agricultural Pool has submitted an Application For Local Storage Agreement (Attachment 1) on behalf of all its members for their Excess Carry Over accounts. The application was noticed on September 7, 2018 (Attachment 2).

The 500,000 ac-ft Safe Storage Capacity threshold analyzed in the OBMP Implementation Plan PEIR has been reexamined and revised to 600,000 ac-ft, through June 30, 2021. The total water in stored water accounts as of June 30, 2017 is 533,920.721 ac-ft. The anticipated total in stored water accounts as of June 30, 2018 is approximately between 535,000 ac-ft to 540,000 ac-ft, and the actual number will be known at the time of the 2018/19 Assessment Package approval.

The storage applications to be considered at this time are for the Excess Carry Over accounts of the members of the Non-Agricultural Pool. The agreements are being requested at this time even though the actual amount is not officially determined until the time the Assessment Package is approved later this year. The ending balance of Non-Agricultural Pool parties accounts will be reflected in the Assessment Package after any losses and transactions are accounted for. The approval of the subject storage applications, if granted, would apply to the yet-to-be-approved amounts pertaining to Non-Agricultural Pool parties' accounts in the 2018/19 Assessment Package.

The Non-Agricultural Pool approved the Application at its September 13, 2018 meeting. The Appropriative and Agricultural Pools moved to defer the Application and requested that it is brought back to their October 2018 meetings for consideration.

ATTACHMENTS

- 1. Form 1 Application for Local Storage Agreement
- 2. Notice of Application for Local Storage Agreements as noticed on September 7, 2018 (click on link below to access):

https://cbwm.syncedtool.com/1/files/share/384187/Public%20FTP/Pending%20Applications/20180907%20Notice %20of%20Application%20for%20a%20Local%20Storage%20Agreeement%20-

%20Storage%20of%20Excess%20Carryover%20Water%20by%20the%20Non%20Ag%20Pool.pdf/9abb162877b 999?view=1

APPLICATION FOR LOCAL STORAGE AGREEMENT

APPLICANT

Non-Agricultural Pool Co	mmittee,	for its members	July 1, 2018	<u></u>
Name of Party		_	Date Approved	Date Approved
Various Street Address Various City Telephone: <u>Various</u>	CA State	Various Zip Code	For each member, a quantity equal to the surplus carryover of such member as of midnight on the evening of June 30, 2018. See Attachment. Amount Requested	Amount Approved

Facsimile: Various

TYPE OF WATER TO BE PLACED IN STORAGE

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

PURPOSE OF STORAGE - Check all that may apply

- [] Stabilize or reduce future water costs/assessments.
- [] Facilitate utilization of other available sources of supply.
- [] Facilitate replenishment under certain well sites.
- [] Preserve pumping right for a changed future potential use.
- [X] Other, explain <u>Any purpose authorized or otherwise permitted under the Judgment and/or other governing documents</u>

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

	[]	Recharge (Form 2)	N/A: This application applies only to surplus carryover
	[]	Transfer of Right to Water in Storage (Form 3)	of members of the Non-Agricultural Pool. Surplus carryover consists of unproduced ground water.
1	[]	Transfer from another party to the Judgment	carryover consists of unproduced ground water.
		(Form 5)	

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

[]	· · ·	Other: Any method permitted under the Judgment
[]	Transfer to another party to the Judgment	and/or other governing documents.
	(Form 3)	

WATER QUALITY AND WATER LEVELS

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

For information about the water quality and water levels of the Basin, please see

http://www.cbwm.org/rep_engineering.htm and http://cbwm.org/rep_eng_maps.htm

MATERIAL PHYSICAL INJURY

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

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

ADDITIONAL INFORMATION ATTACHED Yes [X] No []
Applicant,
Chair, Non-Agricultural Pool Committee, as authorized by affirmative action of the Committee at its regular meeting on August 9, 2018
TO BE COMPLETED BY WATERMASTER:
DATE OF APPROVAL FROM NON-AGRICULTURAL POOL:
DATE OF APPROVAL FROM AGRICULTURAL POOL:
DATE OF APPROVAL FROM APPROPRIATIVE POOL:
HEARING DATE, IF ANY:
DATE OF ADVISORY COMMITTEE APPROVAL:
DATE OF BOARD APPROVAL: Agreement #

2

ATTACHMENT

This is an application for storage agreements authorized by the Non-Agricultural Pool Committee on behalf of the members of the Non-Agricultural Pool for surplus carryover of such members as of June 30, 2018. This application is for a single year. The Non-Agricultural Pool Committee presently anticipates filing an application for the year ended June 30, 2019 in 2019.

In Section 8 of the Judgment, the Court determined that the members of the Non-Agricultural Pool were owners of an overlying water right. [Judgment, Section 8.] The allocation of Safe Yield to members of the Non-Agricultural Pool is not subject to adjustment for changes in Safe Yield. [Judgment, Section 44.]

If a member of the Non-Agricultural Pool produces less than its assigned share of Operating Safe Yield in any year, such unproduced water is considered "carryover," and may be produced by such member in a subsequent year. [Judgment, Exhibit G, Section 7.] The first water produced by such member during any such subsequent year is deemed to be produced from any such carryover. [Judgment, Exhibit G, Section 7.] If the quantity of carryover of any member of the Non-Agricultural Pool in a year exceeds its production in such year, then such unproduced water is considered "surplus carryover." [Judgment, Exhibit G, Section 7.] Section 7 of Exhibit G provides that members of the Non-Agricultural Pool shall execute storage agreements with Watermaster "as a condition of preserving such surplus carryover."

The applicant understands that, at least in some instances, and for reasons unknown to the applicant, the term "surplus carryover" is referred to as "excess carryover." For that reason, the applicant has checked the box marked "excess carryover" on this form.

The applicant understands that Watermaster reports the quantity of carryover and excess carryover of each member of the Non-Agricultural Pool in the annual assessment packages. The most recent annual assessment package is available on Watermaster's website. http://www.cbwm.org/rep_finance.htm. Based on Section 7 of Exhibit G to the Judgment, as described in the immediately preceding paragraph, the quantity added to the surplus carryover of each member of the Non-Agricultural Pool for the year ended June 30, 2018 is equal to or less than the carryover of such member for the year ended June 30, 2017.

Carryover becomes surplus carryover on June 30 of each year. In order to "preserve such surplus carryover," the Non-Agricultural Pool Committee desires that members of the Non-Agricultural Pool have storage agreements in place on or prior to June 30 of each year, or, where doing so prior to June 30 is not feasible, as soon as practicable thereafter.

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Storage Agreements as noticed on September 7, 2018

(click on link below to access):

https://cbwm.syncedtool.com/1/files/share/384187/Public%20FTP/Pending%20Applicatio ons/20180907%20Notice%20of%20Application%20for%20a%20Local%20Storage%20 Agreeement%20-%20Storage%20of%20Excess%20Carryover%20Water%20by%20the%20Non%20Ag %20Pool.pdf/9abb162877b999?view=1 THIS PAGE HAS INTENTIONALLY BEEN LEFT BLANK FOR PAGINATION

II. BUSINESS ITEMS A. CHINO BASIN STORAGE FRAMEWORK



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: October 11, 2018

TO: Pool Committee Members

SUBJECT: Chino Basin Storage Framework (Business Item II.A.)

SUMMARY

<u>Issue</u>: The Chino Basin Storage Framework investigation has been completed and needs to be presented to the Watermaster Board, to be authorized for use in future evaluations of storage.

<u>Recommendation</u>: Recommend that the Advisory Committee recommend to the Watermaster Board to receive and file the Final Storage Framework Investigation Report, and authorize the use of the tools and technical information developed by the investigation for storage planning and future evaluations.

Financial Impact: There is no financial impact to Watermaster as a result of the recommendation,

Future Consideration Appropriative Pool - October 11, 2018: Advice and assistance Non-Agricultural Pool - October 11, 2018: Advice and assistance Agricultural Pool - October 11, 2018: Advice and assistance Advisory Committee - October 18, 2018: Advice and assistance Watermaster Board - October 25, 2018: Approval [Within WM Duties and Powers]

ACTIONS:

Appropriative Pool - October 11, 2018: Non-Agricultural Pool - October 11, 2018: Agricultural Pool - October 11, 2018: Advisory Committee - October 18, 2018: Watermaster Board - October 25, 2018:

BACKGROUND

The 2000 Optimum Basin Management Program (OBMP) storage management plan consists of managing groundwater production, replenishment, recharge, and storage such that total storage within the basin ranges from a low of 5,300,000 ac-ft to a high of 5,800,000 ac-ft.

The understanding of Chino Basin has improved considerably since 2000 when the OBMP was first created. Collection of data has allowed the refinement and calibration of the groundwater model, which is now used for many purposes. Since the year 2000 the volume held in storage by the parties has increased to over 500,000 ac-ft, and is projected to increase further in the future.

Considering the time that has passed since the environmental documentation was approved for the OBMP, and the enhanced understanding of the basin an update of the OBMP seems appropriate, including a revision of the storage management plan. A study of the basin response to various levels of storage is helpful as a foundation for updating the Chino Basin storage management plan.

DISCUSSION

The goals of the Storage Framework investigation are to describe how the Basin will respond to varying levels of use of storage space, and identify potential material physical injury and other management challenges.

The investigation was carried out using Watermaster's computer model to simulate groundwater pumping, recharge, storage and withdrawals from storage. Metrics for material physical injury and pumping sustainability were established to compare basin response; existing facilities' capacity was examined to determine whether additional facilities would be required for higher volumes of storage space use; and the effects on storage and net inflow to the basin were calculated.

Various scenarios were evaluated, starting with the volume of storage that will be occupied by parties using their projected water management practices, and then incrementally adding up to 300,000 ac-ft of storage for Storage and Recovery programs.

The Storage Framework investigation was reviewed regularly with stakeholders through workshops, and shared in draft form at various stages for parties' review and comments. The final report is attached (Attachment 1).

The investigation will be used as a tool to inform the development of a storage management plan for Chino Basin, to guide and evaluate future storage and recovery applications, and other storage investigations in the future.

ATTACHMENTS

 Link to Final Storage Framework Report (click on the link below to access): <u>https://cbwm.syncedtool.com/shares/folder/9abb162877b999/?folder_id=1429</u> Final Storage Framework Report (click on link below to access):

https://cbwm.syncedtool.com/shares/folder/9abb162877b999/?f older_id=1429 THIS PAGE HAS INTENTIONALLY BEEN LEFT BLANK FOR PAGINATION

II. BUSINESS ITEMS B. SAFE YIELD RESET-RELATED AGREEMENT DISCUSSION



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: October 11, 2018

TO: Pool Committee Members

SUBJECT: Safe Yield Reset-Related Agreement Discussion (Business Item II.B.)

SUMMARY

<u>Issue</u>: The six parties to the appeal of the Court's April 28, 2017 order are proposing an agreement that would amend the Restated Judgment and the Peace and Peace II Agreements as a condition of a settlement among themselves, in order for appellants to withdraw their appeal.

<u>Recommendation:</u> Discussion and possible action.

Financial Impact: This item has no financial impact on Watermaster.

Future Consideration

Advisory Committee - October 20, 2018: Discussion and possible action.

ACTIONS:

Appropriative Pool – September 13, 2018: Unanimously approved the following: "The Appropriative Pool approves the 2018 Agreement to Judgment CAMA Amendments including Exhibit A, subject to the following:

- 1. That there is a clarification that the Desalter Replenishment formula with respect to adjusted physical production included in this document includes the production of Exhibit "G," Section 9 transferred water from the Non-Ag Pool to the Appropriative Pool.
- 2. That the Non-Ag Pooling Plan that is going to be discussed today be refined for consistency with this element. So that both documents are consistent with each other in relation specifically in relation to Exhibit "G," Section 9.
- 3. That the Appropriative Pool parties intend to recommend this agreement to the governing boards and that this approval is conditional upon that approve of each governing boards.
- 4. Appropriative Pool further request conformation from Watermaster that the agreements provide sufficient clarity for Watermaster to implement them without ambiguity, before it moves to the Court for approval. "
- **Non-Agricultural Pool September 13, 2018:** Unanimously approved to recommend Advisory and Board representatives support the Safe Yield Reset Related Agreement, with a change to 6.2(b)(iv)(5) adding the exclusion of Non-Ag Pool water transferred pursuant to Section 6 or Section 10 of Exhibit G. Direct pool counsel to work with the six-party group to facilitate said change.
- Agricultural Pool September 13, 2018: Unanimously voted to approve the following: "The Ag Pool does not approve the proposed Safe Yield Reset Related Agreements as presented on September 11, 2018. The Ag Pool respectfully requests that the parties address the Ag Pool comments from the July 19, 2018 Ag Pool meeting as follows:

1. Please add the effective date of the Safe Yield reset.

^{2.} Please include the Safe Yield process that was part of the Judge's April 28, 2017 Order. The Ag Pool respectfully requests that the final versions of the Safe Yield Reset Related Agreements be brought to the October Pool meetings for reconsideration."

Advisory Committee - September 20, 2018: No action taken

BACKGROUND

On September 11, 2018, the six parties to the appeal from the April 28, 2017 Order circulated a proposed agreement that would amend the Restated Judgment and the Peace and Peace II Agreements, along with attachments, for consideration by the Pool Committees.

DISCUSSION

The three Pool Committees considered the documents during the September 13, 2018 meetings, and their respective actions are shown on the cover page of this staff report.

The documents that were considered on September 13, 2018, as may have been modified during the Pool Committee discussion, were circulated to Advisory Committee during its September 20, 2018 meeting. No action was taken.

As of the time of the compilation of this staff report Watermaster has not received any documents for distribution to the Pools.

IV. INFORMATION

1. Cash Disbursements for September 2018

For Informational Purposes Only

CHINO BASIN WATERMASTER Cash Disbursements For The Month of September 2018

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	09/06/2018	ACH 090618	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
	Bill	08/14/2018	1394905143		Medical Insurance Premium	60182.1 · Medical Insurance	6,152.76
ΤΟΤΑΙ	-						6,152.76
	Bill Pmt -Check	09/06/2018	ACH 090618	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	Bill	08/18/2018	10000015402710		Fees for GASB-68 Reports & Schedules	60180 · Employers PERS Expense	700.00
ΤΟΤΑΙ	-						700.00
	General Journal	09/08/2018	09/08/2018	Payroll and Taxes for 08/26/18-09/08/18	Payroll and Taxes for 08/26/18-09/08/18	1012 · Bank of America Gen'l Ckg	
					Direct Deposits for 08/26/18-09/08/18	1012 · Bank of America Gen'l Ckg	25,972.40
					Payroll Taxes for 08/26/18-09/08/18	1012 · Bank of America Gen'l Ckg	8,783.23
				ICMA-RC	457(b) Employee Deductions for 08/26/18-09/08/1	≀1012 · Bank of America Gen'l Ckg	4,541.43
				ICMA-RC	401(a) Employee Deductions for 08/26/18-09/08/1	≀1012 · Bank of America Gen'l Ckg	1,311.76
ΤΟΤΑΙ	-						40,608.82
	Bill Pmt -Check	09/13/2018	ACH 091318	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	General Journal	09/08/2018	09/08/2018	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 08/26/18-09/08/18	2000 · Accounts Payable	6,886.20
	-						6,886.20
ភ	Bill Pmt -Check	09/14/2018	20989	ACCENT COMPUTER SOLUTIONS, INC.	123295	1012 · Bank of America Gen'l Ckg	
	Bill	09/01/2018	123295		Monthly service - Sept. 2018	6052.4 · IT Managed Services	4,226.00
					Overwatch - Sept. 2018	6052.5 · IT Data Backup/Storage	699.00
					OmniCloud - Sept. 2018	6052.5 · IT Data Backup/Storage	108.00
					Office 365 subscriptions - Sept. 2018	6052.4 · IT Managed Services	58.10
					Image office storage	6052.5 · IT Data Backup/Storage	1,088.75
TOTAL							6,179.85
	Bill Pmt -Check	09/14/2018	20990	ACWA JOINT POWERS INSURANCE AUTHORI	10512818	1012 · Bank of America Gen'l Ckg	
	Bill	09/10/2018	0512818		Prepayment - October 2018	1409 · Prepaid Life, BAD&D & LTD	219.87
					September 2018	60191 · Life & Disab.Ins Benefits	217.40
TOTAL							437.27
	Bill Pmt -Check	09/14/2018	20991	APPLIED COMPUTER TECHNOLOGIES	2999	1012 · Bank of America Gen'l Ckg	
	Bill	08/30/2018	2999		Database Consulting Services - August 2018	6052.2 · Applied Computer Technol	3,770.80
TOTAL							3,770.80
	Bill Pmt -Check	09/14/2018	20992	ARION GLOBAL, INC.		1012 · Bank of America Gen'l Ckg	
	Bill	08/24/2018			Cost of hauling away old office furniture	6027 · Other Building Expense	1,275.00
TOTAL							1,275.00

CHINO BASIN WATERMASTER Cash Disbursements For The Month of September 2018

Туре	Date	Num	Name		Account	Paid Amount
Bill Pmt -Check	09/14/2018	20993	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2018	XXXX-XXXX-XXXX-934	11	50% deposit-AN desktop	6055 · Computer Hardware	895.23
				CVI's for new employee search	6016 · New Employee Search Costs	79.65
				50% deposit-new office furniture	1840 · Capital Assets	5,056.50
				Clear tabs for tabletop for office	6031.7 · Other Office Supplies	3.97
				Replacement Boardroom laptop battery	6055 · Computer Hardware	30.85
				Replacement case for CFO cell phone	6031.7 · Other Office Supplies	17.91
				Toner cartridges for office printers	6031.7 · Other Office Supplies	1,031.79
				File/storage boxes	6031.7 · Other Office Supplies	65.05
				Curtains 4 kitchen, tables/lamps 4 reception area	6031.7 · Other Office Supplies	382.46
				Replacement blender for office	6031.7 · Other Office Supplies	64.35
				Lunch for pre-Ag meeting	8412 · Meeting Expenses	62.42
				PK meeting w/Razak	8312 · Meeting Expenses	25.08
				Miscellaneous office supplies	6031.7 · Other Office Supplies	48.07
				Storage boxes	6031.7 · Other Office Supplies	270.40
				Laminating supplies	6031.7 · Other Office Supplies	8.71
				Replacement keyboard/mouse	6055 · Computer Hardware	20.76
σ				Registration fee for webinar for AN	6193.2 · Conference - Registration Fee	196.13
00 D				Lunch for 8/23 Board meeting	6312 · Meeting Expenses	108.76
.,				Lunch for 8/23 Board meeting	6312 · Meeting Expenses	107.04
				Data hubs for meeting room	6031.7 · Other Office Supplies	51.13
				Miscellaneous office supplies	6031.7 · Other Office Supplies	24.55
				Miscellaneous office supplies	6031.7 · Other Office Supplies	96.69
				Miscellaneous office supplies	6031.7 · Other Office Supplies	273.68
				Miscellaneous office supplies	6031.7 · Other Office Supplies	86.37
				Lunch for PK meeting w/Ag Pool	8412 · Meeting Expenses	74.67
				Miscellaneous office supplies	6031.7 · Other Office Supplies	407.00
				Registration fee-CG-attend Outlook seminar	6193.2 · Conference - Registration Fee	293.70
OTAL						9,782.92
Bill Pmt -Check	09/14/2018	20994	BOWCOCK, ROBERT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	08/16/2018	8/16 RIPCom Mtg		8/16/18 RIPCom Meeting	6311 · Board Member Compensation	125.00
Bill	08/20/2018	8/20 Water Bank Mtg		8/20/18 Water Bank Stakeholder Meeting #4	6311 · Board Member Compensation	125.00
Bill	08/23/2018	8/23 Board Mtg		8/23/18 Board Meeting	6311 Board Member Compensation	125.00
OTAL						375.00
Bill Pmt -Check	09/14/2018	20995	CORELOGIC INFORMATION SOLUTIONS	80914552	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2018	81914552		80914552	7103.7 · Grdwtr Qual-Computer Svc	62.50
				80914552		02.00

CHINO BASIN WATERMASTER Cash Disbursements For The Month of September 2018

Type Tell Name Manue Manue Manue Manue Manue Account Fpid Amount TOTAL Bill Pent Check 58/14/2016 2009 UBLE AND OFFICE, LLC. 1044 1012 - Bank of America Gent Org 58/12/2016 <th></th> <th>Turne</th> <th>Dete</th> <th></th> <th></th> <th></th> <th>·</th> <th></th>		Turne	Dete				·	
Bill Pritt-Check Opi-12013 2005 CUBCLE AND OFFICE, LLC. 104 1012 - Bank of America Gent Ckg 982,775 TUTAL 0 001/42018 2097 DE BOOM, NATHAN App Pool Member Compensation 012 - Bank of America Gent Ckg 982,775 TUTAL 0 001/42018 2097 DE BOOM, NATHAN App Pool Member Compensation 012 - Bank of America Gent Ckg 982,775 TUTAL 0 001/42018 2097 DE BOOM, NATHAN App Pool Member Compensation 012 - Bank of America Gent Ckg 92,000 TUTAL 0 001/42018 20987 DE BOOM, NATHAN App Pool Member Compensation 012 - Bank of America Gent Ckg 25,000 TUTAL 0 001/42018 20987 DE BOOM, NATHAN 20018 0012 - Bank of America Gent Ckg 25,000 TUTAL 001/42018 20997 DE BOOM, NOTEKE, LLC. Bood Member Compensation 1012 - Bank of America Gent Ckg 25,000 TUTAL 001/42018 20987 E005CUE LAW OROUP, INC. 120.00 250.00 1012 - Bank of America Gent Ckg 251.716.72 122.60	TOTA	and a second	Date	Num	Name	Memo	Account	Paid Amount
Bill S4122014 1044 Hencether Level and	IUIA	L						125.00
Bill D8/12/2019 1044 File cabinet, booknames for Ops staff 1640 : Capital Assets 680.78 (80.78) TOTAL Bill Pmt-Check 00442016 29977 DE BOOM, MATHAN Ap Pool Member Compensation BOIM & Ap Pool Member Compensation DBMT & Ap Pool Member Compensation BUMT & Board Member Compensation BUMT & Check 0012 · Bank of America Gent Ckg BUMT & Check 0012 · Bank of America Gent Ckg BUMT & Check 0012 · Bank of America Gent Ckg BUMT & Check 0012 · Bank of America Gent Ckg BUMT & Check 0014 · Bank of America Gent Ckg BUMT & Check 0014 · Bank of America Gent Ckg BUMT & Check 0014 · Bank of America Gent Ckg BUMT & Check 0014 · Bank of America Gent Ckg BUMT & Check 0014 · Bank of America Gent Ckg BUMT & Check 0012 · Bank of America Gent Ckg BUMT & Check 0012 · Bank of America Gent Ckg BUMT & Check 0014 · Bank of America Gent Ckg BUMT & Check 0014 · Bank of America Gent Ckg BUMT & Check 0014 · Bank of America Gent Ckg BUMT & Check		Bill Pmt -Check	09/14/2018	20996	CUBICLE AND OFFICE. LLC.	1044	1012 - Bank of America Gen'i Ckg	
TOTAL Status Status </td <td></td> <td>Bill</td> <td></td> <td></td> <td>,</td> <td></td> <td>· ·</td> <td>930 75</td>		Bill			,		· ·	930 75
BII Phil-Dinck Bit Off-42018 (abs/32018) 2997 (bb/32018) DE DOM, NATHAN Ap Poil Member Compensation attrint Ag Pool Meeting 102 - Bak of Anerica Gen1 Cig Bit 1 - Compensation (arrow beeting) 20.00 (arrow beeting) TUTL BII Phil-Check Bit Bit Bit Bit Phil-Check 09/42018 (000/20218) 2099 (20218) DE DOM, NATHAN Board Member Compensation (arrow beeting) 102 - Bak of Anerica Gen1 Cig Bit 1 - Compensation (2017) 2020 (2000) TUTL Bit Phil-Check Bit Bit 1 - Compensation (2017) 0000 (2018) 2099 (2018) DE DOM, NATHAN Board Member Compensation (2017) 102 - Bak of Anerica Gen1 Cig Bit 1 - Compensation (2017) 102 - Bak of Anerica Gen1 Cig Bit 1 - Compensation (2000) 125.00 (2000) TUTL Bit Phil-Check Bit 0 09/42018 2099 (2024) EOOSOUE LAW GROUP, INC. 12044 1012 - Bank of America Gen1 Cig Bit 1 - Compensation (2000) 125.00 (2000) TUTL Bit Phil-Check Bit 0 09/42018 2000 ELE, STEVEN Board Member Compensation (2018) 1012 - Bank of America Gen1 Cig Bit 1 - Coard Member Compensation (2018) 1012 - Bank of America Gen1 Cig Bit 1 - Coard Member Compensation (2018) 1012 - Bank of America Gen1 Cig Bit 1 - Coard Member Compensation (2018) 1012 - Bank of America Gen1 Cig Bit 2000 22500 (2018) 12500 (2018) 12	TOTA	L						
Nil Still Pint-Check Bill Pint-Check								000.10
TOTAL Board Member Compensation BUI PMI-Oheck 09/14/2018 (2017) 2018 (2017) Difference (2017)		Bill Pmt -Check	09/14/2018	20997	DE BOOM, NATHAN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
TOTAL 125.00 Bill Pnt-Check Bill 0914/42018 0421/2018 2099 623 Board Agends Bill D PRIMO, ROBERT Board Member Compensation 8/21/18 Board Agends B/23/18 Board Member Compensation 8/23/18 Board Member Compensation B/23/18 Board Member Compensation B/23/18 Board Member Compensation B/23/18 Board Member Compensation B/23/18 Board Member Compensation B/11 · Board Member Compensation B/23/18 Board Member Compensation B/11 · Board Memetric Compensation B/11 · Board Member Compensatio		Bill	08/09/2018	8/09 Ag Pool Mtg		8/09/18 Ag Pool Meeting	8411 · Compensation	25.00
Bill Prit -Check Bill Bill Prit -Check Bill Bill Prit -Check Bill Prit -Check Bill Bill Prit -Check Bill Bill Bill Prit -Check Bill Bill Bill Bill Bill Bill Bill Bill						8/09/18 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill Bill Bill Bill Contact BBIL Patt-Check Bill Bill Bill Bill Bill Bill Bill Bil	TOTA	<u> </u>						125.00
Bill Bill Bill Bill D OB3/1/2018 (23/2018) Bill Poil Check (23/2018) OB/1/2018 (23/2018) EGOSCUE LAW GROUP, INC. (25/0) Bill Poil Legal Services - August 2018 (23/18 Board agenda prevides meeting (23/18 Board Meeting) Bill Poil - Board Agenda Check (23/18 Board Meeting) Bill Check (23/18 Board Meeting)								
Bill DB2222019 223 Board Meeting Bill Pmt DB1 / Board Meeting C011 / Board Meeting C011 / Board Meeting C011 / Board Meeting C012 / Board Meeting C010 / C010 TOTAL Bill Pmt-Check 091/4/2018 20999 EGOSCUE LAW GROUP, INC. 12048 1012 · Bank of America Gen1 Ckg 31,716.73 Bill Pmt-Check 091/4/2018 20999 ELE, STEVEN Board Member Compensation 1012 · Bank of America Gen1 Ckg 31,716.73 Bill Pmt-Check 091/4/2018 21000 · ELE, STEVEN Board Member Compensation 1012 · Bank of America Gen1 Ckg 31,716.73 Bill Pmt-Check 091/4/2018 21000 · ELE, STEVEN Board Member Compensation 1012 · Bank of America Gen1 Ckg 31,716.73 TOTAL 091/4/2018 21001 · FEDAK & BROWN LLP Progress Billing - Audit Services 1012 · Bank of America Gen1 Ckg 32,256.00 TOTAL 091/4/2018 · 21062 · FEDAK & BROWN LLP Progress Billing - Audit Services 1012 · Bank of America Gen1 Ckg 32,256.00 Bill Pmt-Check 091/4/2018 · 21062 · FEDAK & BROWN LLP Progress Billing - Audit Services 10		Bill Pmt -Check	09/14/2018	20998	DI PRIMIO, ROBERT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
TOTAL Bill Pmt-Check 09/14/2018 29995 EGOSCUE LAW GROUP, INC. 12048 1012 - Bank of America Gen! Ckg 31,716,73 TOTAL Bill Pmt-Check 09/14/2018 2090 EGOSCUE LAW GROUP, INC. 12048 1012 - Bank of America Gen! Ckg 31,716,73 TOTAL 09/14/2018 2090 ELIE, STEVEN Board Member Compensation 1012 - Bank of America Gen! Ckg 31,716,73 Bill Pmt-Check 09/14/2018 2000 ELIE, STEVEN Board Member Compensation 1012 - Bank of America Gen! Ckg 31,716,73 TOTAL 09/14/2018 2100 ELIE, STEVEN Board Member Compensation 1012 - Bank of America Gen! Ckg 32,256,00 TOTAL 2100 FEDAK & BROWN LLP Progress Billing - Audit Services 0012 - Bank of America Gen! Ckg 3,256,00 TOTAL 09/14/2018 2002 FEDAK & BROWN LLP Progress Billing - Audit Services 012 - Bank of America Gen! Ckg 3,256,00 TOTAL 09/14/2018 2002 FEDAK & BROWN LLP Progress Billing - Audit Services 012 - Bank of America Gen! Ckg 3,256,00 Bill 09/19/2018<			08/21/2018	8/21 Board Agenda		8/21/18 Board agenda preview meeting	6311 · Board Member Compensation	125.00
Line Bill Pnt -Check Bill 09/14/2018 08/31/2018 2099 12/48 EGOS CUE LAW GROUP, INC. 12048 Ag Pool Legal Services - August 2018 1012 · Bank of America Gen1 Ckg 8467 · Ag Legal & Technical Services 31,716.73 TOTAL Bill Pnt -Check Bill 09/14/2018 21000 ELIE, STEVEN Board Member Compensation 8/23/18 Board Meeting 1012 · Bank of America Gen1 Ckg 6311 · Board Member Compensation 125.00 125.00 TOTAL Bill Pnt -Check Bill 09/14/2018 21001 FEDAK & BROWN LLP Progress Billing - Audit Services August 2018 1012 · Bank of America Gen1 Ckg 6062 · Audit Services 3,256.00 TOTAL 09/14/2018 21001 FEDAK & BROWN LLP Progress Billing - Audit Services 1012 · Bank of America Gen1 Ckg 6062 · Audit Services 3,256.00 TOTAL 08/03/12018 0100 Ag Pool Mtg FEENSTRA, BOB Ag Pool Member Compensation 8/03/18 Ag Pool meeting 1012 · Bank of America Gen1 Ckg 6062 · Audit Services 3,256.00 Bill 08/03/12018 8/03 Ag Pool Mtg B/03/18 Ag Pool meeting 8/03/18 Ag Pool meeting 8/70 · Ag Meeting Attend -Special 125.00 125.00 Bill 08/03/2018 8/03 Ag Pool Mtg B/03/18 Ag Pool meeting 8/23/18 Board Meeting 8/70 · Ag Meeting Att		Bill	08/23/2018	8/23 Board Meeting		8/23/18 Board meeting	6311 · Board Member Compensation	125.00
Bill D93/12018 12448 Ag Pool Logal Services - August 2018 8/67 - Ag Legal & Technical Services 31,716.73 TGAL Bill Pmt - Check D9/14/2018 21000 ELIE, STEVEN Board Member Compensation 1012 - Bank of America Gen'l Ckg Bill Pmt - Check D9/14/2018 21001 FEDAK & BROWN LLP Progress Billing - Audit Services 1012 - Bank of America Gen'l Ckg Bill Pmt - Check D9/14/2018 21001 FEDAK & BROWN LLP Progress Billing - Audit Services 1012 - Bank of America Gen'l Ckg Bill Pmt - Check D9/14/2018 21001 FEDAK & BROWN LLP Progress Billing - Audit Services 1012 - Bank of America Gen'l Ckg Bill Pmt - Check 09/14/2018 21002 FEENSTRA, BOB Ag Pool Member Compensation 1012 - Bank of America Gen'l Ckg Bill 08/09/12/2018 8/09 Ag Pool Mtg 8/09/18 Ag Pool meeting 8470 - Ag Meeting Attend - Special 125.00 Bill 08/16/2018 8/16 Advisory Commit 8/16/18 RIPCom Mtg 8/16/18 RIPCom Mtg 8/16/18 RIPCom Mtg 125.00 Bill 08/23/2018 8/33 Special Ag Mtg 8/16 Advisory Commit 8/16/18 RIPCom Mtg	TOTAI	_						250.00
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OF Bill Pmt - Check 09/14/2018 21000 ELE, STEVEN Board Member Compensation 1012 · Bank of America Gen'l Ckg 125.00 TOTAL Bill Pmt - Check 09/14/2018 2/23 Board Mig FEDAK & BROWN LLP Progress Billing - Audit Services 1012 · Bank of America Gen'l Ckg 3,256.00 Bill Pmt - Check 09/14/2018 21001 FEDAK & BROWN LLP Progress Billing - Audit Services 1012 · Bank of America Gen'l Ckg 3,256.00 TOTAL Bill Pmt - Check 09/14/2018 21002 FEENSTRA, BOB Ag Pool Member Compensation 1012 · Bank of America Gen'l Ckg 3,256.00 Bill Pmt - Check 09/14/2018 21002 FEENSTRA, BOB Ag Pool Member Compensation 1012 · Bank of America Gen'l Ckg 3,256.00 Bill 08/09/2018 8/09 Ag Pool Mig FEENSTRA, BOB Ag Pool meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/09/2018 8/09 Ag Pool Mig 8/09 Ag Pool meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/39/2018 8/19 Advisory Commite 8/23/18 Personnel Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/39/2018 8/23 Breatial Ag			08/31/2018	12048		Ag Pool Legal Services - August 2018	8467 · Ag Legal & Technical Services	31,716.73
V Bill Pmt-Check Bill 09/14/2018 21000 ELIE, STEVEN Board Member Compensation 8/23/18 Board Meeting 1012 · Bank of America Gen'l Ckg 6311 · Board Member Compensation 125.00 TOTAL Bill Pmt-Check Bill 09/14/2018 21001 FEDAK & BROWN LLP Progress Billing - Audit Services August 2018 1012 · Bank of America Gen'l Ckg 6062 · Audit Services 3,256.00 BIII Pmt-Check Bill 09/14/2018 21002 FEDAK & BROWN LLP Progress Billing - Audit Services August 2018 1012 · Bank of America Gen'l Ckg 8062 · Audit Services 3,256.00 BIII Pmt-Check Bill 09/14/2018 21002 FEENSTRA, BOB Ag Pool Member Compensation 8/09/18 Ag Pool meeting 8/09/18 Ag Pool meeting 8/16/18 Advisory Committee meeting 8/170 · Ag Meeting Attend -Special 125.00 125.00 Dill 08/23/18 Board Meeting 8/10/18 Special Ag Pool meeting 8/10/18 S		-						31,716.73
Bill 08/23/2018 M/23 Bill Pmt - Check 09/14/2018 21001 FEDAK & BROWN LLP Progress Billing - Audit Services 1012 - Bank of America Gen'l Ckg 3,256.00 Bill 08/23/12018 21001 FEDAK & BROWN LLP Progress Billing - Audit Services 1012 - Bank of America Gen'l Ckg 3,256.00 DTAL EBII Pmt -Check 09/14/2018 21002 FEENSTRA, BOB Ag Pool Member Compensation 1012 - Bank of America Gen'l Ckg 3,256.00 Bill 08/09/2018 8/09 Ag Pool Mig FEENSTRA, BOB Ag Pool Member Compensation 1012 - Bank of America Gen'l Ckg 3,256.00 Bill 08/09/2018 8/09 Ag Pool Mig FEENSTRA, BOB Ag Pool Member Compensation 1012 - Bank of America Gen'l Ckg 125.00 Bill 08/09/2018 8/16 Advisory Comm B/16/18 Advisory Comm 8/16/18 Advisory Comm 8/16/18 Advisory Comm 125.00 Bill 08/12/2018 8/12 Personnel Comm 8/12/3/18 Board Meeting 8/170 - Ag Meeting Attend - Special 125.00 Bill 08/23/2018 8/23 Personnel Comm 8/23/18 Personnel Committee meeting 8/170 - Ag Meeting Attend - Special 125.00 Bill 08/23/2018 8								
DTAL Stars Gamma and a stars and a stare stars and a stare stars and a stars and a stars and a s					ELIE, STEVEN	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill Pmt -Check Bill 09/14/2018 21001 FEDAK & BROWN LLP Progress Billing - Audit Services August 2018 1012 · Bank of America Gen'l Ckg 3,256.00 TOTAL Bill Pmt -Check 09/14/2018 21002 FEENSTRA, BOB Ag Pool Member Compensation 1012 · Bank of America Gen'l Ckg 3,256.00 3,256.00 Bill 08/09/2018 8/09 Ag Pool Mtg FEENSTRA, BOB Ag Pool Member Compensation 1012 · Bank of America Gen'l Ckg 1012 · Bank of America Gen'			08/23/2018	8/23 Board Mtg		8/23/18 Board Meeting	6311 · Board Member Compensation	125.00
Bill 08/31/2018 Link Figure Link of	ΤΟΤΑΙ	-						125.00
Bill 08/31/2018 21002 FEENSTRA, BOB Ag Pool Member Compensation 1012 · Bank of America Gen'l Ckg Bill 08/09/2018 8/09 Ag Pool Mtg 8/09 Ag Pool Mtg 8/09/18 Ag Pool meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/09/2018 8/16 Advisory Comm 8/16/18 Advisory Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/12/2018 8/18 RIPCom Mtg 8/16/18 Advisory Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/23/2018 8/12 Bersonnel Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/23/2018 8/23 Board Mtg 8/23/18 Personnel Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/23/2018 8/23 Board Mtg 8/23/18 Personnel Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/23/2018 8/23 Board Mtg 8/23/18 Board meeting 8470 · Ag Meeting Attend - Special 125.00 TOTAL Bill 08/23/2018 8/23 Board Mtg 8/23/18 Board meeting 8470 · Ag Meeting Attend - Special 125.00 TOTAL Bill 08/23/2018 8/23 Board Mtg 8/23/18 Board Meeting 8470 · Ag Meeting Attend - Special 125.00 TOTAL TOTAL		Bill Pmt Check	09/11/2019	21001			1010 Dark of Anna inc. Carll Olar	
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Bill 08/09/2018 8/09 Ag Pool Mtg 8/09 Ag Pool Mtg 8/09/18 Ag Pool meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/16/2018 8/16 Advisory Comm 8/16 /18 Advisory Committee meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/16/2018 8/16 RIPCom Mtg 8/16/18 RIPCom meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/16/2018 8/16 RIPCom Mtg 8/16/18 RIPCom meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/23/2018 8/23 Personnel Comm 8/23/18 Personnel Committee meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/30/2018 8/23 Personnel Comm 8/23/18 Personnel Committee meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/30/2018 8/23 Board Mtg 8/30/18 Special Ag Pool meeting 8470 · Ag Meeting Attend -Special 125.00 TOTAL 8/30/2018 8/30 Special Ag Mtg 8/30/18 Special Ag Pool meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/30/2018 8/30 Special Ag Mtg 8/30/18 Special Ag Pool meeting 8470 · Ag Meeting Attend -Special 125.00 TOTAL T T <	101/1	-						3,256.00
Bill 08/09/2018 8/09 Ag Pool Mtg 8/09 Ag Pool Mtg 8/09/18 Ag Pool meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/16/2018 8/16 Advisory Comm 8/16 / 18 Advisory Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/16/2018 8/16 RIPCom Mtg 8/16 / 18 RIPCom meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/23/2018 8/23 Personnel Comm 8/23 / 18 Personnel Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/30/2018 8/23 Board Mtg 8/23 / 18 Personnel Committee meeting 8470 · Ag Meeting Attend - Special 125.00 Bill 08/30/2018 8/30 Special Ag Mtg 8/30 / 18 Special Ag Pool meeting 8470 · Ag Meeting Attend - Special 125.00 TOTAL T FILIPPI, GINO Board Member Compensation 1012 · Bank of America Gen'l Ckg 750.00 Bill 08/23/2018 8/23 Board Meeting 8/23/18 Board Meeting 6311 · Board Member Compensation 125.00 Bill 08/23/2018 8/23 Board Meeting 8/23/18 Board Meeting 6311 · Board Member Compensation 125.00		Bill Pmt -Check	09/14/2018	21002	FEENSTRA, BOB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill 08/16/2018 8/16 RIPCom Mtg 8/16 RIPCom meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/23/2018 8/23 Personnel Comm 8/23/18 Personnel Committee meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/23/2018 8/23 Board Mtg 8/23/18 Board meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/30/2018 8/23 Board Mtg 8/30 Special Ag Mtg 8/30/18 Special Ag Pool meeting 8470 · Ag Meeting Attend -Special 125.00 TOTAL TOTAL		Bill	08/09/2018	8/09 Ag Pool Mtg				125.00
Bill 08/23/2018 8/23 Personnel Comm 8/23/18 Personnel Committee meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/23/2018 8/23 Board Mtg 8/23/18 Board meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/30/2018 8/30 Special Ag Mtg 8/23/18 Board meeting 8470 · Ag Meeting Attend -Special 125.00 TOTAL TOTAL FILIPPI, GINO Board Member Compensation 1012 · Bank of America Gen'l Ckg 125.00 Bill 08/23/2018 8/23 Board Meeting 8/23/18 Board Meeting 1012 · Bank of America Gen'l Ckg 125.00 Bill 08/23/2018 8/23 Board Meeting 8/23/18 Board Meeting 121.00 125.00		Bill	08/16/2018	8/16 Advisory Comm		8/16/18 Advisory Committee meeting	8470 · Ag Meeting Attend -Special	125.00
Bill 08/23/2018 8/23 Board Mtg 8/23/18 Board meeting 8470 · Ag Meeting Attend -Special 125.00 Bill 08/30/2018 8/30 Special Ag Mtg 8/30/18 Special Ag Pool meeting 8470 · Ag Meeting Attend -Special 125.00 TOTAL 750.00 8/23/18 Board Meeting 1012 · Bank of America Gen'l Ckg 125.00 Bill 08/23/2018 8/23 Board Meeting 8/23/18 Board Meeting 1012 · Bank of America Gen'l Ckg Bill 08/23/2018 8/23 Board Meeting 8/23/18 Board Meeting 1012 · Bank of America Gen'l Ckg		Bill	08/16/2018	8/16 RIPCom Mtg		8/16/18 RIPCom meeting	8470 · Ag Meeting Attend -Special	125.00
Bill 08/30/2018 8/30 Special Ag Mtg 8/30/18 Special Ag Pool meeting 8470 · Ag Meeting Attend - Special 125.00 DOTAL Bill Pmt -Check 09/14/2018 21003 FILIPPI, GINO Board Member Compensation 1012 · Bank of America Gen'l Ckg Bill 08/23/2018 8/23 Board Meeting 8/23/18 Board Meeting 6311 · Board Member Compensation 125.00		Bill	08/23/2018	8/23 Personnel Comm		8/23/18 Personnel Committee meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL Bill Pmt -Check 09/14/2018 21003 FILIPPI, GINO Board Member Compensation 1012 · Bank of America Gen'l Ckg Bill 08/23/2018 8/23 Board Meeting 8/23/18 Board Meeting 6311 · Board Member Compensation 125.00		Bill	08/23/2018	8/23 Board Mtg		8/23/18 Board meeting	8470 · Ag Meeting Attend -Special	125.00
Bill Pmt -Check 09/14/2018 21003 FILIPPI, GINO Board Member Compensation 1012 · Bank of America Gen'l Ckg Bill 08/23/2018 8/23 Board Meeting 8/23/18 Board Meeting 6311 · Board Member Compensation 125.00		Bill	08/30/2018	8/30 Special Ag Mtg		8/30/18 Special Ag Pool meeting	8470 · Ag Meeting Attend -Special	125.00
Bill 08/23/2018 8/23 Board Meeting 8/23/18 Board Meeting 6311 · Board Member Compensation 125.00	ΤΟΤΑΙ	-						750.00
		Bill Pmt -Check	09/14/2018	21003	FILIPPI, GINO	Board Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
TOTAL 125.00		Bill	08/23/2018	8/23 Board Meeting		8/23/18 Board Meeting	6311 · Board Member Compensation	125.00
	TOTAL	-						125.00

For Informational Purposes Only

CHINO BASIN WATERMASTER Cash Disbursements For The Month of September 2018

	Type Dat	te	Num	Name	Memo	Account	Paid Amoun
Bill Pmf	t -Check 09/1	14/2018	21004	HUITSING, JOHN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	08/0	09/2018	8/09 Ag Pool Mtg		8/09/18 Ag Pool Meeting	8411 · Compensation	25.
					8/09/18 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.
Bill	08/3	31/2018	7/12 Ag Pool Mtg		7/12/18 Ag Pool Meeting	8411 · Compensation	25.
					7/12/18 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100
TAL							250
Bill Pmt	t -Check 09/1	14/2018	21005	JOHN J. SCHATZ	Appropriative Pool Legal Services	1012 · Bank of America Gen'l Ckg	
Bill	08/3	31/2018			Appropriative Pool Legal Services - August 2018	8367 · Legal Service	6,970
TAL							6,970
Bill Pmt	t -Check 09/1	4/2018	21006	KUHN, BOB	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	08/0	9/2018	8/09 Appro Pool Mtg		8/09/18 Appropriative Pool Meeting	6311 · Board Member Compensation	125
Bill	08/1	6/2018	8/16 Advisory Comm		8/16/18 Advisory Committee Meeting	6311 · Board Member Compensation	125
Bill	08/2	21/2018	8/21 Conference Call		8/21/18 Board Agenda Preview conference call	6311 · Board Member Compensation	125
Bill	08/2	23/2018	8/23 Board Mtg		8/23/18 Board meeting	6311 · Board Member Compensation	125
Bill	08/3	30/2018	8/30 Admin Mtg		8/30/18 Administrative meeting	6311 · Board Member Compensation	125
JAL D							625.
2	t -Check 09/1	4/2018	21007	LOEB & LOEB LLP	1785289	1012 · Bank of America Gen'l Ckg	
Bill	07/3	81/2018	1785289		Non-Ag Pool Legal Services - July 2018	8567 · Non-Ag Legal Service	11,950
TAL							11,950
Bill Pmt	t -Check 09/1	4/2018	21008	NELSON, ANNA	Employee Reimbursement	1012 · Bank of America Gen'l Ckg	
Bill	08/2	28/2018			Reimburse for power cords for office	6031.7 · Other Office Supplies	41
					Reimburse for admin lunch mtg	6141.3 · Admin Meetings	22
TAL							63.
Bill Pmt	t -Check 09/1	4/2018	21009	PAYCHEX	2018083000	1012 · Bank of America Gen'l Ckg	
Bill	08/3	81/2018	2018083000		August 2018	6012 · Payroll Services	468.
TAL							468.
Bill Pmt	t -Check 09/1	4/2018	21010	PIETERSMA, RONALD	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	08/0	9/2018	8/09 Ag Pool Mtg		8/09/18 Ag Pool Meeting	8411 · Compensation	25.
					8/09/18 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100
TAL							125
Bill Pmt	t -Check 09/1	4/2018	21011	PREMIERE GLOBAL SERVICES	26377150	1012 · Bank of America Gen'l Ckg	
Bill	08/3	80/2018	26377150		Non-Ag Pool meeting call on 8/09	8512 · Meeting Expense	22.

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CHINO BASIN WATERMASTER Cash Disbursements For The Month of September 2018

Туре	Date	Num	Name	Memo	Account	Paid Amount
				Service Fee - General	6022 · Telephone	49.00
				Service Fee - Confidential	6022 · Telephone	49.00
				Pomona Extensometer call on 7/30	6909.1 · OBMP Meetings	11.73
				Pools agenda prep call on 7/31	8312 · Meeting Expenses	2.06
				Pools agenda prep call on 7/31	8412 · Meeting Expenses	2.06
				Pools agenda prep call on 7/31	8512 · Meeting Expense	2.06
				HCP call w/IEUA	6909.1 · OBMP Meetings	6.19
				Annual Report kick-off call on 8/03	6909.1 · OBMP Meetings	14.97
				WM coordination call on 8/06	6909.1 · OBMP Meetings	6.55
				HCP call w/IEUA	6909.1 · OBMP Meetings	7.77
				SY Reset update call on 8/06	6909.1 · OBMP Meetings	12.58
				Pool mtgs check call on 8/08	8312 · Meeting Expenses	4.69
				Pool mtgs check call on 8/08	8412 · Meeting Expenses	4.69
				Pool mtgs check call on 8/08	8512 · Meeting Expense	4.69
				Pomona Extensometer call on 8/13	6909.1 · OBMP Meetings	17.90
				WM coordination call on 8/20	6909.1 · OBMP Meetings	19.51
				Board agenda preview call on 8/21	6312 · Meeting Expenses	14.05
				Service Fee	6022 · Telephone	9.55
OTAL						261.06
œ						
Bill Pmt -Check	09/14/2018	21012	PURCHASE POWER	8000-9090-0016-8851	1012 · Bank of America Gen'l Ckg	
Bill	08/30/2018	8000909000168851		Postage refill	6042 · Postage - General	500.00
OTAL						500.00
Bill Pmt -Check	09/14/2018	21013	R&D PEST SERVICES	0233545	1012 · Bank of America Gen'l Ckg	
Bill	09/06/2018	0233545		Pest control	6024 · Building Repair & Maintenance	100.00
OTAL						100.00
Bill Pmt -Check	09/14/2018	21014	READY REFRESH BY NESTLE	0023230253	1012 · Bank of America Gen'l Ckg	
Bill	08/30/2018	0023230253		Office Water Bottle - August 2018	6031.7 · Other Office Supplies	46.91
OTAL						46.91
Bill Pmt -Check	09/14/2018	21015		60835	1012 Bank of America Carll Ckr	
Bill Bill	09/01/2018	60835	RR FRANCHISING, INC.		1012 · Bank of America Gen'l Ckg	740.00
	09/01/2010	00035		Monthly janitorial service - September 2018	6024 · Building Repair & Maintenance	
OTAL						740.00
Bill Pmt -Check	09/14/2018	21016	SOCIETY FOR HUMAN RESOURCE MGMT.	9007649844	1012 ⋅ Bank of America Gen'l Ckg	
Bill	09/13/2018	9007649844		Membership-Joswiak 12/01/18-11/30/19	6111 · Membership Dues	189.00
OTAL						189.00

CHINO BASIN WATERMASTER Cash Disbursements For The Month of September 2018

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	09/14/2018	21017	STATE COMPENSATION INSURANCE FUND	1970970-18	1012 · Bank of America Gen'l Ckg	30 Pathware Biographic Contract Contraction (1996)
	Bill	09/01/2018	1970970-18		Monthly premium 8/26/18-9/26/18	60183 · Worker's Comp Insurance	552.42
TOTAL							552.42
	Bill Pmt -Check	09/14/2018	21018	TELLEZ-FOSTER, EDGAR	Employee Reimbursement	1012 · Bank of America Gen'l Ckg	
	Bill	09/07/2018			Meetings with candidates for field staff position	6016 New Employee Search Costs	255.99
ΤΟΤΑΙ							255.99
	Bill Pmt -Check	09/14/2018	21019	ULLOA, EUNICE	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	08/09/2018	8/09 Appro Pool Mtg		8/09/18 Appropriative Pool meeting	6311 · Board Member Compensation	125.00
	Bill	08/28/2018	8/28 GRCC Mtg		8/28/18 GRCC meeting	6311 · Board Member Compensation	125.00
TOTAL							250.00
	Bill Pmt -Check	09/14/2018	21020	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg	
	Bill	08/31/2018	7076224530355049		Fuel - August 2018	6175 · Vehicle Fuel	53.71
TOTAL							53.71
	Bill Pmt -Check	09/14/2018	21021	USA-FACT INC	Background Checks	1012 ⋅ Bank of America Gen'l Ckg	
Ρ	Bill	08/25/2018	8083027		Background check - field staff positions	6016 · New Employee Search Costs	142.37
ğ	Bill	08/31/2018	8090727		Background check - field staff positions	6016 · New Employee Search Costs	35.95
90 TOTAL							178.32
	Bill Pmt -Check	09/14/2018	21022	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'l Ckg	
	Bill	08/30/2018	001017890001		Vision Insurance Premium - September 2018	60182.2 · Dental & Vision Ins	63.18
TOTAL							63.18
	Bill Pmt -Check	09/14/2018	21023	VISTAGE WORLDWIDE, INC.	SOPINV00000733083	1012 · Bank of America Gen'l Ckg	
	Bill	09/01/2018	SOPINV00000733083		Kavounas Membership-Oct. 2018 to Sept. 2019	1433 · Prepaid Membership Dues	17,053.00
TOTAL							17,053.00
	Bill Pmt -Check	09/14/2018	21024	WESTERN MUNICIPAL WATER DISTRICT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	08/23/2018	8/23 Board Mtg		8/23/18 Board Meeting - Galleano attendance	6311 · Board Member Compensation	125.00
TOTAL							125.00
	Bill Pmt -Check	09/14/2018	21025	YUKON DISPOSAL SERVICE	08-K2 213849	1012 · Bank of America Gen'l Ckg	
	Bill	09/01/2018	08-k2 213849		Disposal Service - September 2018	6024 · Building Repair & Maintenance	117.14
TOTAL							117.14
	Bill Pmt -Check	09/14/2018	21026	ACCENT COMPUTER SOLUTIONS, INC.	IT Managed Services	1012 · Bank of America Gen'l Ckg	
	Bill	08/30/2018	123389		Overwatch (Firewall and 4TB)	6052.5 · IT Data Backup/Storage	1,750.00
					·		·

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	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill	08/31/2018	123418		480GB SSD upgrade for auxilliary room laptop	6055 · Computer Hardware	191.80
	Bill	08/31/2018	123425		RAM upgrade for boardroom laptop	6055 · Computer Hardware	99.90
	Bill	08/31/2018	123562		Windows 10 upgrades for various laptops	6054 · Computer Software	597.00
	Bill	08/31/2018	123440		Cloud storage, FTP replacement	6052.5 · IT Data Backup/Storage	225.00
TOTAL	-						2,863.70
	Bill Pmt -Check	09/25/2018	ACH 092518	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	Bill	09/01/2018	15415406		Annual Unfunded Accrued Liability Plan 3299	60180 · Employers PERS Expense	5,456.55
TOTAL	-						5,456.55
	Bill Pmt -Check	09/25/2018	21027	INLAND EMPIRE UTILITIES AGENCY		1012 · Bank of America Gen'l Ckg	
	Bill	08/01/2018	1800003831		Lower Day Improvement Projects Inv #6	7690.8 · Lower Day Basin RMPU (TO #2)	119,828.39
	Bill	08/09/2018	1800003878		RMPU Yield Enhancements Projects Invoice #8	7690.15 · RMPU Amend. Yield (TO #1)	980,182.15
TOTAL	-						1,100,010.54
	Bill Pmt -Check	09/25/2018	21028	MICHAEL'S #3844	Board Room	1012 · Bank of America Gen'l Ckg	
	Bill	09/25/2018			Custom matting/framing Annual Report covers	1840 · Capital Assets	2,930.69
т от ац 9	Bill Pmt -Check Bill	09/25/2018 09/25/2018	21029	SEVEN STAR PAINTING CO.	Office Painting Deposit for office painting	1012 · Bank of America Gen'l Ckg 1840 · Capital Assets	2,930.69 950.00 950.00
TOTAL	-						950.00
	Bill Pmt -Check	09/27/2018	21030	ACCENT COMPUTER SOLUTIONS, INC.	123802	1012 · Bank of America Gen'l Ckg	
	Bill	10/01/2018	123802		Monthly service - Oct. 2018	6052.4 · IT Managed Services	4,226.00
					Overwatch - Oct. 2018	6052.5 · IT Data Backup/Storage	699.00
					OmniCloud - Oct. 2018	6052.5 · IT Data Backup/Storage	117.00
					Office 365 subscriptions - Oct. 2018	6052.4 · IT Managed Services	91.30
					Image office storage (per GB, per month)	6052.5 · IT Data Backup/Storage	817.73
TOTAL	-						5,951.03
	Bill Pmt -Check	09/27/2018	21031	BLUERIDGE SOFTWARE, INC.	9894	1012 · Bank of America Gen'l Ckg	
	Bill	09/26/2018	9894		Annual support for 10/25/18-10/24/19	6054 · Computer Software	629.82
TOTAL	-						629.82
	Bill Pmt -Check	09/27/2018	21032	BUSINESS TELECOMMUNICATION SYSTEMS	14128	1012 · Bank of America Gen'l Ckg	
	Bill	09/19/2018	14128		ShoreTel IP480 phone-new employee	6022 · Telephone	332.17
TOTAL	-						332.17

-	Type	Date	Num	Name	Memo	Account	Paid Amount
E	Bill Pmt -Check	09/27/2018	21033	CENTURYLINK	73607985	1012 · Bank of America Gen'l Ckg	
E	Bill	09/26/2018	73607985		9/17/18-10/16/18	6053 · Internet Expense	1,051.2
TOTAL							1,051.28
E	Bill Pmt -Check	09/27/2018	21034	CUCAMONGA VALLEY WATER DISTRICT		1012 · Bank of America Gen'l Ckg	
E	Bill	09/17/2018			Office lease due October 1, 2018 - annual rent	adjı 1422 · Prepaid Rent	6,866.54
TOTAL							6,866.54
E	Bill Pmt -Check	09/27/2018	21035	DE HAAN, HENRY	Ag Pool Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
E	Bill	08/09/2018	8/09 Ag Pool Mtg		8/09/18 Ag Pool Meeting	8411 · Compensation	25.00
					8/09/18 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL							125.00
E	3ill Pmt -Check	09/27/2018	21036	FIRST LEGAL NETWORK LLC	40020648	1012 · Bank of America Gen'l Ckg	
E	Bill	08/31/2018	40020648		Court filings for August 2018	6061.5 · Court Filing Services	659.91
TOTAL							659.91
E	3ill Pmt -Check	09/27/2018	21037	FRONTIER COMMUNICATIONS	909-484-3890-050914-5	1012 · Bank of America Gen'l Ckg	
0	Bill	09/18/2018	90948438900509145		Office fax	6022 · Telephone	143.32
r eg al N							143.32
E	Bill Pmt -Check	09/27/2018	21038	GREAT AMERICA LEASING CORP.	23370386	1012 · Bank of America Gen'l Ckg	
E	Bill	09/26/2018	23370386		Invoice for September 2018	6043.1 · Ricoh Lease Fee	2,605.07
TOTAL							2,605.07
E	Bill Pmt -Check	09/27/2018	21039	LEGAL SHIELD	0111802	1012 · Bank of America Gen'l Ckg	
E	Bill	09/26/2018	0111802		Employee deductions - September 2018	60194 · Other Employee Insurance	79.70
TOTAL							79.70
E	Bill Pmt -Check	09/27/2018	21040	LOEB & LOEB LLP	1788092	1012 · Bank of America Gen'l Ckg	
E	Bill	08/31/2018	1788092		Non-Ag Pool Legal Services - August 2018	8567 · Non-Ag Legal Service	8,071.20
FOTAL							8,071.20
E	3ill Pmt -Check	09/27/2018	21041	OFFICE & ERGONOMIC SOLUTIONS, INC.	17772	1012 · Bank of America Gen'l Ckg	
E	Bill	09/13/2018	17772		Credenza, bookcase, chairs	1840 · Capital Assets	856.59
FOTAL							856.59
E	3ill Pmt -Check	09/27/2018	21042	READY REFRESH BY NESTLE	0023230253	1012 · Bank of America Gen'l Ckg	
B	Bill	09/26/2018	0023230253		Office Water Bottle - September 2018	6031.7 · Other Office Supplies	68.45
FOTAL							68.45

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	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	09/27/2018	21043	SEVEN STAR PAINTING CO.	Office Painting	1012 · Bank of America Gen'l Ckg	
	Bill	09/26/2018			Balance due for office painting	1840 · Capital Assets	2,550.00
ΤΟΤΑ	L						2,550.00
	Bill Pmt -Check	09/27/2018	21044	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
	Bill	09/26/2018	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	775.35
ΤΟΤΑ	L						775.35
	Bill Pmt -Check	09/27/2018	21045	STAPLES BUSINESS ADVANTAGE	8051432222	1012 · Bank of America Gen'l Ckg	
	Bill	09/15/2018	8051432222		Miscellaneous office supplies	6031.7 · Other Office Supplies	130.32
ΤΟΤΑ	L						130.32
	Bill Pmt -Check	09/27/2018	21046	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
	Bill	09/30/2018			Retiree medical	60182.4 · Retiree Medical	25.17
ΤΟΤΑ	L						25.17
	Bill Pmt -Check	09/27/2018	21047	UNITED HEALTHCARE	052553741745	1012 · Bank of America Gen'l Ckg	
-0	Bill	09/14/2018	052553741745		Dental Insurance Premium - October 2018	60182.2 · Dental & Vision Ins	561.05
T SATA	L						561.05
	Bill Pmt -Check	09/27/2018	21048	USA-FACT INC	Background Investigations	1012 · Bank of America Gen'l Ckg	
	Bill	09/08/2018	8091423		Background check-field staff position applicants	6016 · New Employee Search Costs	91.99
	Bill	09/15/2018	8032128		Background check-field staff position applicants	6016 · New Employee Search Costs	3.00
ΤΟΤΑ	L						94.99
	Bill Pmt -Check	09/27/2018	21049	VERIZON WIRELESS	9274013426	1012 · Bank of America Gen'l Ckg	
	Bill	09/18/2018	9814013426		Acct #470810953-00001	6022 · Telephone ·	297.23
ΤΟΤΑ	L						297.23
	Bill Pmt -Check	09/27/2018	21050	VERIZON WIRELESS	9814550558	1012 · Bank of America Gen'l Ckg	
	Bill	09/26/2018	9814550558		Acct #642073270-00001	7103.7 · Grdwtr Qual-Computer Svc	100.06
ΤΟΤΑΙ	L						100.06
	Bill Pmt -Check	09/27/2018	ACH 092718	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	General Journal	09/22/2018	09/27/2018	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 09/09/18-09/22/18	2000 · Accounts Payable	6,886.20
ΤΟΤΑΙ	_						6,886.20
	General Journal	09/28/2018	09/28/2018	Payroll and Taxes for 09/019/18-09/22/18	Payroll and Taxes for 09/019/18-09/22/18	1012 · Bank of America Gen'l Ckg	
					Direct deposits for 09/019/18-09/22/18	1012 · Bank of America Gen'l Ckg	25,995.91

Туре	Date	Num	Name	Memo		Paid Amount
				Payroll Taxes for 09/019/18-09/22/18	1012 · Bank of America Gen'l Ckg	8,790.56
			ICMA-RC	457(b) Employee deductions for 09/019/18-09/22/	11012 · Bank of America Gen'l Ckg	4,541.43
			ICMA-RC	401(a) Employee deductions for 09/019/18-09/22/	11012 · Bank of America Gen'l Ckg	1,311.76
TOTAL						40,639.66

Total Disbursements:

1,346,221.86

CHINO BASIN WATERMASTER

IV. INFORMATION

2. Recharge Investigations and Projects Committee (RIPCom)

Recharge Investigations and Projects

Committee Meeting

Agenda

When: Thursday, September 20, 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
- 3. IEUA/CBWM joint projects
 - a) Status updates
 - b) Budget updates
- 4. RMPU Implementation updates
 - a) 2018 RMPU

Next Recharge Investigations and Projects Committee (RIPCom) Meeting Date: Thursday, October 18, 2018 @ 9:30 a.m.

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Non-RMPU Ongoing Projects



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GWR AND RW SCADA UPGRADES PROJECT NO. EN14047 STATUS UPDATE: September 10, 2018

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> \$892,000		<u>Actual Cost to Date</u> \$767,805		
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	Projected Cost	Actual Cost
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	04/30/18	In Progress	\$577 <i>,</i> 368	\$577,368
				\$767,805	\$767,805

*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:

Project is complete. Final cost is being confirmed.

Project Photos:





Rubber Dam control panel

San Sevaine Turnout control panel





UPPER SANTA ANA RIVER WATERSHED HABITAT CONSERVATION PLAN PROJECT NO. RW15002 STATUS UPDATE: September 10, 2018

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.

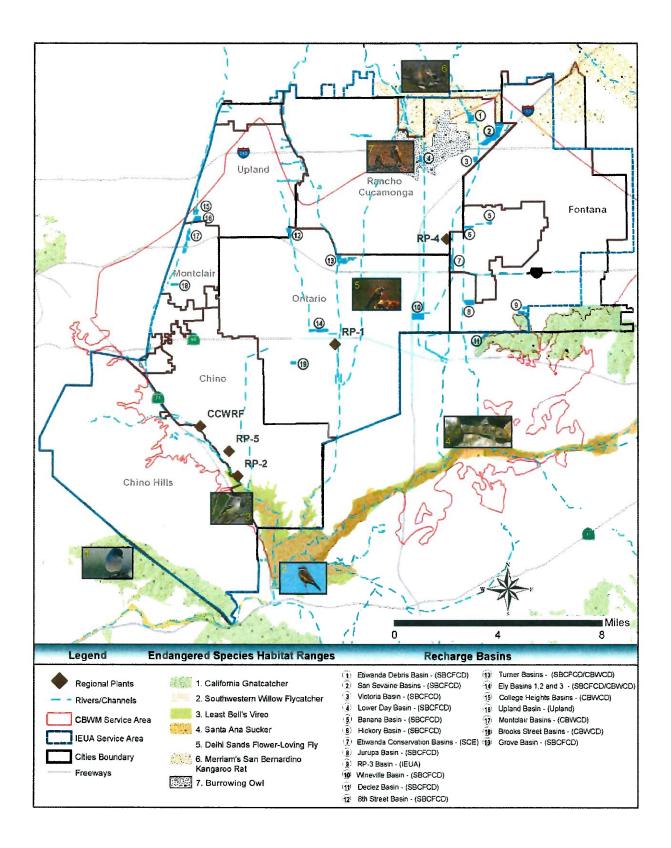
Schedule:

	Project Budget		Actual Cost to Date		
	\$160,000		\$141,121		
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	Projected Cost	<u>Actual Cost</u>
Investigate/Plan	07/01/14	12/31/19	In Progress	\$160,000	\$141,121
				\$160,000	\$141,121

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

Project Update:

There are no major updates since the previous status report.



RMPU PROJECTS



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SAN SEVAINE IMPROVEMENTS PROJECT PROJECT NO. EN13001 STATUS UPDATE: September 10, 2018

As part of the 2013 Amendment to the 2010 Recharge Master Plan Update (RMPU), this Project will evaluate, design, and construct basin improvements needed to maximize infiltration and recharge capture at the San Sevaine Basins. The final recommendation from the preliminary development report proposes to implement: (1) a new stormwater / recycled water pump station in Basin 5, (2) directly 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 Buc</u> \$6,460,00			<u>ost to Date</u> 17,299	
Phase	<u>Start</u>	<u>Finish</u>	<u>Status</u>	Projected Cost	<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 <i>,</i> 899
Permits	05/15/13	01/31/18	Completed	\$25,000	\$25,000
Bid and Award	12/13/16	09/20/17	Completed	\$5,000	\$5,000
Construction	09/21/17	12/24/18	In Progress	\$5,740,000	\$4,247,219
				\$6,460,000	\$5,017,299

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. Awarded Clean Water State Revolving Fund (SRF) for the construction of the project. This awarded financing includes a \$2.5 million forgiveness grant against the principal.

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 Task Order No. 8 of the Master Agreement of 2014 (May 2017)

Project Update:

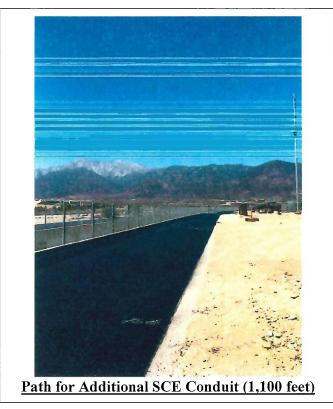
• IEUA is proposing to re-bid a part of the electrical scope that had a change of condition during construction. The original construction contract with the general contractor,

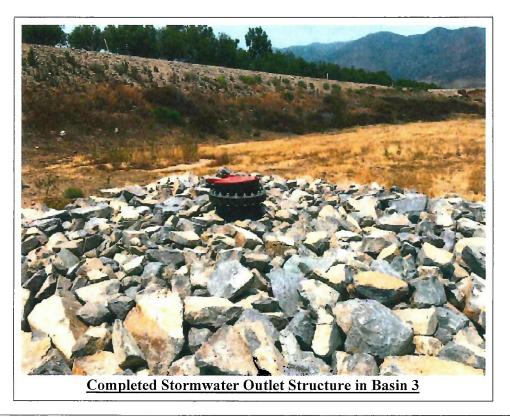
September 10, 2018

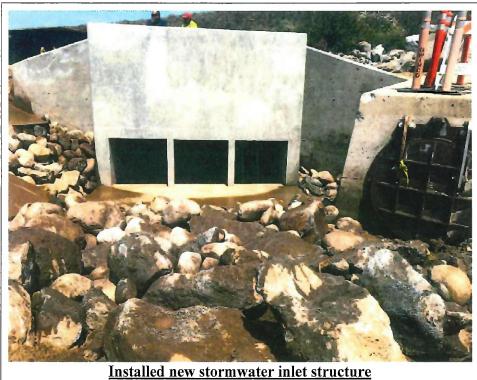
Gwinco, had new electrical conduit placed 200 feet to Southern California Edison's power source. While preparing for this connection, SCE provided a different location for the power source. This resulted in a longer conduit route, approximately 1,100 feet north, across a public road. With this change of condition, Gwinco provided a revised cost of over \$300K. At this cost, IEUA decided to remove the initial scope from Gwinco and solicit for more competitive pricing on the new condition. IEUA will bid the 1,100 feet of SCE conduit and award the scope in December. In the meantime, IEUA will utilize a portable electric generator when Gwinco is ready for system testing, which is set for early December.

- Extended construction schedule was needed to address the long lead time for the electrical system from Rockwell Automation. The motor control center from Rockwell and most of their control products was experiencing an unusual long lead-time. After several meetings with Rockwell, IEUA was able to minimize the long delivery period but still required an extension towards the project completion. The construction extension is to account for equipment availability which pushed out the connection and testing of the control system. The revised construction completion is late December 2018.
- Unforeseen field conditions resulted in the following added scope to the contractor:
 - An unmarked storm drain pipe impacted the pipe placement and needed to be rejected.
 - Another storm drain pipe was discovered in a different location and needed to be adjusted.

Construction Activities Photos:















POST 2014 STORMWATER RECHARGE PROGRAM PROJECT NOS. RW15003.00/.01/.02/.03/.04/.05/.06 & RW15004.00 STATUS UPDATE: AUGUST 10, 2018

The following are the projects under the "Post 2014 Stormwater Recharge Program" that are recommended for final design, bid and construction:

Basin			Initial Yield		Updated Yield ⁽¹⁾	
PID		Post 2014 Stormwater Recharge Program ⁽²⁾	SW	RW	SW	RW
	Projects			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.

Project Budget:

<u>Project Budget</u> \$23,007,817		<u>Actual Cost to Dat</u> \$ 3,267,315	te	
RMPU Project	07,817	Total Projected Expenses	Actual Cost (to date)	
Lower Day Basin (PID 12)		\$4,008,000	\$476,481	
Victoria Basin ⁽⁴⁾ (PID 11)		\$168,800	\$55,547	
Montclair Basins (PID 2)		\$1,788,100	\$293,787	
RP-3 Basin ⁽⁴⁾		\$1,486,700	\$244,267	
Wineville Basin	(23a)			
Jurupa Basin		\$14,996,200	\$2,239,650	
Wineville/Jurupa Force Main				
Total		\$22,447,800	\$3,267,315	

(4) Cost shared between IEUA and Watermaster

Project/Phase	Planned Expenses	Actual Cost (to date)
East Declez		
Project Development	\$114,000	\$112,445
Sub-Total	\$114,000	\$112,445
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	\$2,000	\$2,000
Preliminary Design	\$47,000	\$47,000
Environmental	\$14,017	\$14,017
Sub-Total	\$63,017	\$63,017
Total	\$560,017	\$199,218

The following are the planned expenses and cost to date for deferred RMPU projects:

Grant/Loan Update:

RMPU Project	Funding Programs	Received Grant
Lower Day Pasin (DID 12)	Grant Prop. 84 DWR/SAWPA	\$750,000
Lower Day Basin (PID 12)	USBR - Grant	\$375,000
PD 2 Pasin (DID22a)	USBR - Grant	\$300,000
RP-3 Basin (PID23a)	SWRCB - Stormwater Grant	\$743,350
Minoville (humano (Fores Main (DID 22-)	SWRCB - Stormwater Grant	\$7,498,100
Wineville/Jurupa/Force Main (PID 23a)	USBR – Drought Resiliency Grant	\$750,000
Montclair Basin (PID 2))	-	γ=
Victoria Basin (PID 11)	-	-
	Received Total	\$10,416,450

IEUA recently received a \$750,000 United State Bureau of Reclamation (USBR) WaterSMART Drought Resiliency Construction grant award for the Chino Basin Watermaster's RMPU Project 23a - Wineville, Jurupa and RP-3 Basins Improvement Project (Project). The grants team is working with the State Water Board on a Clean Water SRF loan for the remaining balance of the entire 2013 RMPU project package

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	PID 23a Task Order
SWRCB Grant	\$8,241,450	Task Order amendment required to include
USBR Grant	\$300,000	additional grant funds
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	CSI Basin Task Order
Watermaster	\$63,017	Task Order amendment required to remove CSI
IEUA	\$0	and show remaining cost (updated further)
Total	\$63,017	

Project Update:

- 1) The following are updates to each of the on-going RMPU projects:
 - a) Victoria Basin Project is out to bid. Bids close on September 18.
 - b) Wineville/Jurupa Storm Water Distribution Pipeline Received Flood Control District permit comments. Currently finalizing the design. A resubmittal with the District is required. This will push the schedule as shown below.
 - c) Montclair Basin Army Corps provide permit review comments. Currently finalizing the design plans. A resubmittal with the Corps is requested. This will push the schedule as shown below.
 - d) Lower Day Basin Flood Control comments were received. The engineer is finalizing the design plans. A resubmittal of the plans is required. This will push the schedule as shown below.
- 2) The following is an update to RMPU's RP-3 Basin Improvement Project:
 - a) Full construction work on the site started on August 27.
 - b) The site is currently being demolished.
 - c) The remaining Basin improvements at RP-3 will be combined with other RMPU projects to seek more competitive pricing.
- 3) Update on Clean Water State Revolving Fund (CWSRF) Application (loan assistance for water quality improvement project) IEUA staff submitted all required application forms to the State Water Board. As discussed, IEUA is expecting SRF funding to be available under the following fiscal year (Fiscal Year 19/20). Notification of funding is expected on April 2019.
- 4) Regulatory Permits Update The following three regulatory agencies: California Department of Fish & Wildlife, Santa Ana Regional Water Quality Control Board and US Army Corps of Engineers are being notified of the project. Awaiting a response to project notification.

Schedule

Lower Day (PID 12), Wineville/Jurupa/Force main (PID 23a) & Montclair Basin (PID 2):

Phases	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	11/30/18	In Progress
Design	12/18/14	11/30/18	In Progress
Bid and Award	12/03/18	04/17/19	Not Started
Construction	04/18/18	09/30/20	Not Started

Schedule – Victoria Basin (PID 11) :

Phases	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	08/07/18	In Progress
Design	12/18/14	08/07/18	In Progress
Bid and Award	08/08/18	12/19/18	In Progress
Construction	12/20/18	12/31/19	Not Started

Schedule – RP-3 Basin (PID 23a):

Phases	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	01/09/18	Completed
Design	12/18/14	12/14/17	Completed
Bid and Award	01/10/18	06/20/18	In Progress
Construction	06/21/18	12/31/19	In Progress

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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
	l				T	COST	SHARE	Γ	BL	UDGE	T ALLOCATIC	<u>DN</u>		<u>IEUA PROJ</u>	ECT	COSTS	<u>CB</u>	WM	PROJECT COS	T <u>S</u>	
Project Name (Project ID) (Cost Sharing Task Order)	IEUA Project No.	1	Project Cost To Date	Approve Budget		IEUA	CBWM		Grant Funding		IEUA		CBWM	Share on Actual Cost To Date	R	Remaining Balance	re on Actual ost To Date		Invoices Paid To Date		emaining Balance
Pre-RMPU Ongoing Projects								Γ											276 175	÷	45 700
GWR SCADA Upgrades (7690.61) (Task No. 4) ¹	EN14047.00	\$	767,805	\$ 892	,000	50%	50%	\$	139,650	\$	376,175	\$	421,875	\$ 323,799	Ş	52,376	\$ 383,903	Ş	376,175	Ş	45,700
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	\$	141,121	\$ 160	,000	50%	50%	\$	-	\$	80,000	\$	80,000	\$ 70,561	\$	9,440	\$ 70,560.50	\$	59,937	\$	20,063
SUBTOTAL PRE-RMPU PROJECTS		\$	2,136,022	\$ 2,279	,096			\$	332,500	\$	973,298	\$	1,018,998	\$ 911,483	\$	61,815	\$ 971,586	\$	962,187	\$	56,811
																		ĺ			
RMPU Projects	EN12001.00		F 017 200	\$ 6,460	000	50%	50%	\$	3,625,000	Ś	1,417,500	Ś	1,417,500	\$ 1,100,932	Ś	316,568	\$ 1,100,932	Ś	368,410	\$	1,049,090
San Sevaine Improvements PID7 (7690.40) (Task No. 8)	EN13001.00	\$	5,017,299	\$ 6,460	,000	50%	50%	Ŷ	5,025,000		1,417,500		1,417,500	<i>\$</i> 1,100,502		010,000		ľ			
Lower Day Basin Improvement PID12 (7690.8) (Task No. 2) *	RW15004.00	\$	467,481	\$ 4,008	3,000	0%	100%	\$	1,125,000	\$	-	\$	2,883,000	\$-	\$	-	\$ 467,481	\$	323,712	\$	2,559,288
East Declez (7690.16) (1st Amendment - Task No. 1) *	RW15003.01	\$	112,445	\$ 114	¢,000	0%	100%	\$	-	\$	-	\$	114,000	\$ -	\$	-	\$ 112,445	\$	112,445	\$	1,555
Declez Basin PID 27 (7690.21) (Task No. 1) *	RW15003.00	\$	6,513	\$ 105	5,000	0%	100%	\$	-	\$	-	\$	105,000	\$ -	\$	-	\$ 6,513	\$	6,513	\$	98,487
Turner Basins PID14 (7690.21) (Task No. 1) *	RW15003.00	\$	2,605	\$ 42	2,000	0%	100%	\$	-	\$	-	\$	42,000	\$-	\$	-	\$ 2,605	\$	2,605	\$	39,395
Ely Basin PID15a (7690.21) (Task No. 1) *	RW15003.00	\$	14,638	\$ 236	5,000	0%	100%	\$	-	\$	-	\$	236,000	\$ -	\$	-	\$ 14,638	\$	14,638	\$	221,362
Victoria Basin Improvements PID11 (7690.25) (Task No. 10) *	RW15003.02	\$	55,547	\$ 168	3,800	50%	50%	Ş		\$	84,400	\$	84,400	\$ 27,774	\$	56,627	\$ 27,774	\$	14,094	\$	70,306
Montclair Basin Improvements PID2 (7690.26) (Task No.11) *	RW15003.03	\$	293,787	\$ 1,788	3,100	0%	100%	\$	-	\$	-	\$	1,788,100	\$-	\$	-	\$ 293,787	\$	149,081	\$	1,639,019
CSI Basin Improvements PID 18a (7690.27) (Task No. 12) *	RW15003.04	\$	63,017	\$ 966	5,000	0%	100%	\$	-	\$	-	\$	966,000	\$ -	\$	-	\$ 63,017	\$	31,978	\$	934,022
RP3 Basin Improvements PID23a (7690.35) (Task No. 9) *	RW15003.05	\$	244,267	\$ 1,486	5,700	50%	50%	\$	712,070	\$	387,315	\$	387,315	\$ 122,134	\$	265,182	\$ 122,134	\$	61,976	\$	325,339
Wineville Basin Improvements PID23a (7690.36) (Task No. 9) *	RW15003.06			\$ 3,588	3,000	0%	100%	\$	1,895,530	\$	-	\$	1,692,470	\$ -	\$	-	\$ 535,860	\$	271,919	\$	1,420,551
Jurupa Basin Improvements PID23a (7690.36) (Task No. 9) *	RW15003.06	\$	2,239,650	\$ 1,424	1,000	0%	100%	\$	741,730	\$		\$	682,270	\$ -	\$	-	\$ 212,671	\$		\$	574,351
Wineville/Jurupa Force Main PID 23a (7690.36) (Task No. 9) *	RW15003.06			\$ 9,984	1,200	0%	100%	\$	5,192,120	\$	-	\$	4,792,080	\$-	\$	-	\$ 1,491,119		756,660		4,035,420
Post 2014 Storm Water Recharge Program *		\$	3,499,950	\$ 23,910),800			\$	9,666,450	\$	471,715	\$	13,772,635			321,808	3,350,043				11,919,096
SUBTOTAL RMPU PROJECTS		\$	8,517,249	\$ 30,370),800			\$	13,291,450	\$	1,889,215	\$	15,190,135	\$ 1,250,839	\$	638,376	\$ 4,450,976	\$	2,221,949	\$	12,968,186
GRAND TOTALS		\$	10,653,271	\$ 32,649	9,896			\$	13,623,950	\$	2,862,513	\$	16,209,133	\$ 2,162,322	\$	700,191	\$ 5,422,562	\$	3,184,136	\$	13,024,998

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.

A12	A13	A14

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81	presentation	B2		B3	B4		B5		B6	B7		B8	B9		B10	B11	B	12	B13		B14 A Future Years	B15)	B1	16
	4	2040-040-020-020-020-020-020-020-020-020						C	BWM Fiscal	Year 2018/1	.9	CUDDE	NT YEAR CBWM A						CBWM FUTURE			•			and the second
Project Name	0	Budget Carry-Over		<u>CURRI</u> pproved Budget	Approved Budget (Not Assessed Collected)	A	<u>GET</u> Budget mendments/ Transfers	Fis	Total scal Year Budget	Actual to I (Includir Paid & Outstand Invoices	ing	CORRE Remaining Balance Available	Completed Projects With Available Funds To Be Distributed	R	CBWM Remaining Projected Costs	Budget Amendment Required? (Yes/No)	CarryO	ected ver Funds 018/19	Eiscal Voar	F	iscal Year 2020/21	Fiscal Y 2021/	ł	Fiscal 2022	
Pre RMPU Ongoing Projects	Ĵ	an gan da ya da marangkey ne yaya gan da ya da an Dina																				4		*	
GWR SCADA Upgrades (7690.61) (Task No. 4)	\$	75,290	\$	-		\$	-	\$	75,290	\$ 29	,590 \$	45,700	\$ -	\$	45,700	No	Ş	-	Ş -	Ş	-	\$	-	Ş	-
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)	\$	20,063	\$	-		\$	-	\$	20,063	\$	- \$	20,063	\$-	\$	20,063	No	\$	-	\$ -	\$	-	\$	-	\$	-
SUBTOTAL PRE-RMPU PROJECTS	\$	86,401	\$	-		\$	-	\$	86,401	\$ 29	,590 \$	56,811	\$ -	\$	56,811		\$		\$-	\$	-	\$	-	\$	-
DMDUD	_																								
RMPU Projects San Sevaine Improvements (7690.4) (Task No. 8) ¹	s	2,299,090	Ś	-		Ś	(2,299,090)	Ś	~		\$; -	\$ -	\$	1,049,090	No	\$	-	\$ -	\$	1,049,090	\$	-	\$	-
																						<u>,</u>	047	*	
Lower Day Basin Improvement Project (7690.8) (Task No. 2) * ²	\$	5,287	\$	-	\$ -	\$	414,541	\$	419,828	\$ 119	,828 \$	300,000	\$ -	\$	2,559,288	No	Ş	-	\$ 1,275,331	. Ş	983,140	Ş	817	\$	-
East Declez Basin (7690.18) (1st Amendment - Task No. 1) *	\$	1,555	\$	-		\$	-	\$	1,555	\$	- \$	1,555	\$-	\$	1,555	No	\$	-	\$-	\$	-	\$	-	\$	-
Declez Basin PID 27 (7690.21) (Task No. 1) *	\$	-	\$	-		\$	**	\$	-	\$	- \$	-	\$	\$	98,487	No	\$	-	\$ 98,487	\$		\$	-	\$	-
Turner Basins PID14 (7690.21) (Task No. 1) *	\$	-	\$	-		\$	-	\$	-	\$	- \$	-	\$-	\$	39,395	No	\$	-	\$ 39,395		-	\$	-	\$	-
Ely Basin PID15a (7690.21) (Task No. 1) *	\$	-	\$	-		\$	-	\$	-	\$	- \$	-	\$ -	\$	221,362	No	\$	-	\$ 221,362	2 \$	-	\$	-	\$	-
Victoria Basin Improvements PID11 (7690.25) (Task No. 10) *	\$	-	\$	-	\$ -	\$	-	\$	-	\$	- \$	-	\$ -	\$	70,306	No	\$	-	\$ 43,298	3\$	26,164	\$	844	\$	-
Montclair Basin Improvements PID2 (7690.26) (Task No.11) *	\$	-	\$	-		\$	-	\$	-	\$	- \$	-	\$ -	\$	1,639,019	No	\$	-	\$ 1,066,897	7 \$	554,311	\$	17,811		
CSI Basin Improvements PID 18a (7690.27) (Task No. 12) *	\$	-	\$	-		\$	-	\$	-	\$	- ¢	-	\$ -	\$	934,022	No	\$	-	\$ 624,902	2 \$	299,460	\$	9,660	\$	-
RP3 Basin Improvements PID23a (7690.35) (Task No. 9) *	\$. –	\$	-	\$-	\$	-	\$		\$	- ¢	-	\$ -	\$	325,339	No	\$	-	\$ 325,339	\$	-	\$	-	\$	-
Wineville Basin Improvements PID23a (7690.36) (Task No. 9) *	\$	-	\$	-		\$	- -	\$		\$	- ¢	-	\$ -	\$	1,420,551	No	\$	-	\$ 250,000	\$	1,170,551	\$	-	\$	-
Jurupa Basin Improvements PID23a (7690.36) (Task No. 9) *	\$	-	\$	-		\$	-	\$	-	\$	- \$	-	\$ -	\$	574,351	No	\$	-	\$ 150,000	\$	424,351	\$	-	\$	-
Wineville/Jurupa Force Main PID 23a (7690.36) (Task No. 9) *	\$	-	\$	-		\$	-	\$	-	\$	- ¢	-	\$ -	\$	4,035,420	No	\$	-	\$ 1,759,753	3 \$	2,210,838	\$	64,829	\$	-
2013 RMPU Amendment Yield Enhancement Projects (7690.15) (Task No. 1) * ³	, \$	589,923	\$	-	\$-	\$	690,259	\$	1,280,182	\$ 980),182 \$	\$ 300,000	\$-	\$	-	No	\$	-	\$ (300,000	5) \$	-	\$	-	\$	-
Post 2014 Storm Water Recharge Program *	\$	596,765	\$	-	\$ -	\$	1,104,800	\$	1,701,565	\$ 1,100),010 \$	601,555	\$ -	\$	11,919,096	No	\$	-	\$ 5,554,765	5\$	5,668,815	\$	93,961	\$	-
SUBTOTAL RMPU PROJECTS	\$	2,895,855	\$		\$-	\$	(1,194,290))\$	1,701,565	\$ 1,100),010 \$	601,555	\$-	\$	12,968,186		\$	-	\$ 5,554,765	5\$	6,717,906	\$	93,961	\$	
GRAND TOTALS	\$	2,982,256	\$	-	\$ -	\$	(1,194,290)	\$	1,787,966	\$ 1,129	9,600 \$	658,366	\$-	\$	13,024,998		\$	-	\$ 5,554,765	5 \$	6,717,906	\$	93,961	\$	-

NOTES:

¹ Funding collected in prior years for San Sevaine Improvements of \$2,299,090.18 has been reallocated to Page 3 per RIPCom recommendation during the July 2018 meeting. Budget Transfer Form T-18-07-01 for \$2,377,205.84 approved during September 2018 meetings. ² Lower Day funding of \$414,540.85 from Budget Transfer T-18-07-01 of \$78,115.66 and \$336,425.19 from Page 3. Budget Transfer Form T-18-07-01 approved during September 2018 meetings.

³ 2013 RMPU Amendment Yield Enhancement Projects funding of \$690,258.97 from Budget Transfer T-18-07-01 from Page 3. Budget Transfer Form T-18-07-01 approved during September 2018 meetings.

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Columns B13-B16	\$ 12,366,632
Column B8	\$ 658,366
Column B10	\$ 13,024,998

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C1		C2	C3		C4	C5	C6		C7		C8	C9	`C10	C11		C12	C13	C14	- Contractory	C15
						CBW	/M Fiscal Yea	r 2018/									CBWM Future Ye	ars		
Project Name	1	ıdget y-Over	CURRENT YEAF Approved Budget	Am	/ <u>M BUDGET</u> Budget nendments/ Transfers	Total Fiscal Year Budget	Actual to D (Includin Paid & Outstandi Invoices	g ng	<u>CURRI</u> Remaining Balance Available	Pi	<u>EAR CBWM AC</u> Completed rojects With ailable Funds To Be Distributed ¹	CTUALS CBWM Remaining Projected Costs	Budget Amendment Required? (Yes/No)	Projecteo CarryOve Funds FY 2018/1	r T	Fiscal Year 2019/20	BUDGET NEEDS Fiscal Year 2020/21	Fiscal Yea 2021/22		Fiscal Year 2022/23
Pre RMPU Ongoing Projects																				
CB20 Noise Mitigation (7690.5) COMPLETED	\$	860	\$ -	\$	(860)	\$-	\$	- \$	-	\$	-	\$-	No	\$	- , ç	\$ -	\$ -	\$	- \$	÷ -
Wineville Proof of Concept (7209.2) (Task No. 6) COMPLETED	\$	35,398	\$ -	\$	(35,398)	\$ -	\$	- ļ¢	-	\$	-	\$ -	No	\$	- \$	\$-	\$ -	\$	- ;	5 -
Jurupa Pump Station (7209.1) (Task No. 5) COMPLETED	\$	37,981	\$ -	\$	(37,981)	\$-	\$	- \$	-	\$	-	\$ -	No	\$	- \$	\$ -	\$ -	\$	- 5	\$-
Hickory Basin (7690.3) COMPLETED	\$	3,877	\$ -	\$	(3,877)	\$-	\$	- \$	-	\$	-	\$ -	No	\$		\$-	\$ -	\$		\$-
SUBTOTAL PRE-RMPU PROJECTS	\$	78,116	\$-	\$	(78,116)	\$ -	\$	- \$; -	\$	-	\$-		\$	- 9	\$-	\$-	\$	- 9	\$-
RMPU Projects San Sevaine Improvements (7690.4) (Task No. 8)	\$2	2,299,090	\$· -	\$	(2,299,090)	\$-	\$	- \$; - ·	\$	-	\$-	No	\$	- 5	\$-	\$ -	\$	- 5	\$-
Funds on Hold for Projects (7690.9) ¹	\$	-	\$ -	\$	1,272,406	\$ 1,272,406	\$	- \$	-	\$	1,272,406	\$ -	No	\$	- 9	\$ -	\$ -	\$		\$ -
SUBTOTAL RMPU PROJECTS	\$ 2	,299,090	\$-	\$	(1,026,684)	\$ 1,272,406	\$	- 5	; -	\$	1,272,406	\$-		\$	- !	\$-	\$-	\$	- !	\$-
GRAND TOTALS		2,377,206			(1,104,800)			- 5	-	\$	1,272,406	\$ -		\$	-	\$	\$ -	\$	- !	\$ -

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

NOTES:

¹ \$1,272,406.02 of the Funds on Hold for Projects could be (1) allocated to other projects; (2) kept in reserve; (3) used to fund debt service; or (4) refunded to the Appropriators on the next Assessment.

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CHINO BASIN WATERMASTER

IV. INFORMATION

- 3. Plumes Status Reports
 - a. Semiannual Report for the Chino Airport Plume
 - b. Semiannual Report for the Archibald South Plume
 - c. Annual Report for the GE Flatiron Plume
 - d. Annual Report for the GE Test Plume
 - e. Annual Report for the CIM
 - f. Annual Report for former Kaiser Steel
 - g. Annual Report for Milliken Landfill
 - h. Annual Report for Stringfellow Plume

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) associated with the Chino Airport groundwater plume. 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 2018 are shown in the table below.

Contaminant	MCL (µgl)	Maximum Concentration (µgl)
TCE	5	830
1,2,3-TCP	0.005	44
cis-1,2-DCE	6	47
1,2- DCA	0.5	1.5

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 Report¹, the extent of the plume with detectable TCE concentrations greater than 0.5 µgl is about 3,500 feet wide and 12,500 feet long, extending southwest from the Chino Airport 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 Plume. 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 µgl, and the West and East Plumes with 1,2,3-TCP concentrations greater than 0.5 µgl.

TCE Plume. The West TCE Plume extends roughly 9,000 feet towards the southwest from its source area and then 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

² Tetra Tech (2018) *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. January 2018.



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

West TCE plumes ranges from 1,000 to 2,700 feet averaging 1,700 feet. The East 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 in the area of CAMW33, 34 and 35.

1,2,3-TCP Plume. The West 1,2,3-TCP Plume extends roughly 10,500 feet towards the southwest and then 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 and extends approximately 3,000 feet to the south.

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 Required the County to respond to Regional Board comments on the draft Feasibility Study and submit of a final Feasibility Study.

Regulatory and Investigation 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 groundwater characterization 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.



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. The preferred remedial action identified in the Feasibility Study is a groundwater pump-and-treat system to provide hydraulic containment and treatment of both the West Plume and the East Plume. 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. In March 2018, the Regional Board extended the public comment period until April 18, 2018.

Remedial Actions: The preferred remedial action identified in the Final Feasibility Study and Draft IRAP is a groundwater pump-and-treat system consisting of ten extraction wells and an on-site granular activated carbon treatment system. The extraction wells are intended to produce approximately 900 gallons per minute (1,450 acre-feet per year) of groundwater. 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

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.



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.

⁴https://geotracker.waterboards.ca.gov/view_documents?global_id=SL208634049&enforcement_id=6316113 ⁵https://geotracker.waterboards.ca.gov/view_documents?global_id=SL208634049&enforcement_id=6316116 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.

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 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 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.

The Groundwater Well Installation and Aquifer Pumping Test Work Plan⁹ was submitted to the Regional Board in July 2017. The work plan provides the details for the construction of two sets of pumping well clusters and 12 piezometers to perform aquifer pumping tests. Extracted groundwater generated during the aquifer pumping tests will be treated using granular activated carbon to remove contaminants, held temporary on-site in 20,000-gallon tanks until profiled, and then discharged directly to the ground surface via agricultural irrigation on the Chino Airport property. The data obtained from the aquifer pumping tests 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 of ten additional monitoring wells at select locations along the plume boundaries.

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 website¹⁰. 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 Summer and Fall 2017*¹¹ was submitted to the Regional Board in January 2018.

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

¹¹ Tetra Tech (2018). Semiannual Groundwater Monitoring Report Summer and Fall 2018. Prepared for County of San Bernardino. January 2018.



⁹ Tetra Tech (2017). Groundwater Well Installation and Aquifer Pumping Test Work Plan. Prepared for the County of San Bernardino. July 2017.

¹⁰ http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL208634049

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* Report¹² 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: In February 2018, the County began the installation of extraction wells and piezometers pursuant to the *Groundwater Well Installation and Aquifer Pumping Test Work Plan.* Between March and June 2018 pumping well clusters PW-1(A/B) and PW-2(A/B/C) and four piezometer wells clusters, PZ1(A/B), PZ2(A/B), PZ3(A/B) and PZ4(A/B) were installed. PW-1(A/B) and piezometer wells clusters PZ1(A/B) and PZ2(A/B) were completed within the center of the East Plume. PW-2(A/B/C) and piezometer wells clusters PZ3(A/B) and PZ4(A/B) were completed in the center of the West Plume approximately 400 feet north of CDA well I-2. Additionally, four monitoring well clusters (ten casings) were installed in March and April 2018. Exhibit 1 shows the locations of the new extraction wells, new piezometers, and new monitoring wells. Aquifer pumping tests at the extraction wells began in August 2018.

In April 2018 the following CEQA documents for the proposed remedial strategy were published: *Notice of Availability/Notice of Intent to Adopt a Mitigated Negative Declaration Chino Airport Groundwater Contamination Remedial Action Plan* and the *Initial Study Environmental Checklist Form*.^{13,14} The public review period for these documents ended on May 10, 2018. The County's response to comments is pending.

The County submitted a *Former Agricultural Well Destruction Work Plan*¹⁵ to the Regional Board in July 2018. The document detailed the procedures for destroying five abandoned/inactive agricultural wells located in the western portion of the airport property. As of September 21, 2018, three of the five wells had been destroyed, and destruction activities for the fourth well had begun. The fifth well is being considered for use in irrigating a sod far. A determination of whether to use the well or proceed with destruction is on hold until the County completes the calibration of the transient flow model in early 2019 and performs modeling of pumping scenarios to evaluate the impact of its use on the plume footprint. Upon completion of this evaluation the County will discuss the proposed plans for destruction of this well with the Regional Board.

¹³ https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7323769629/SL208634049.PDF



¹² Wildermuth Environmental Inc. (2017). Optimum Basin Management Program - 2016 State of the Basin Report. Prepared for the Chino Basin Watermaster. June 2017.

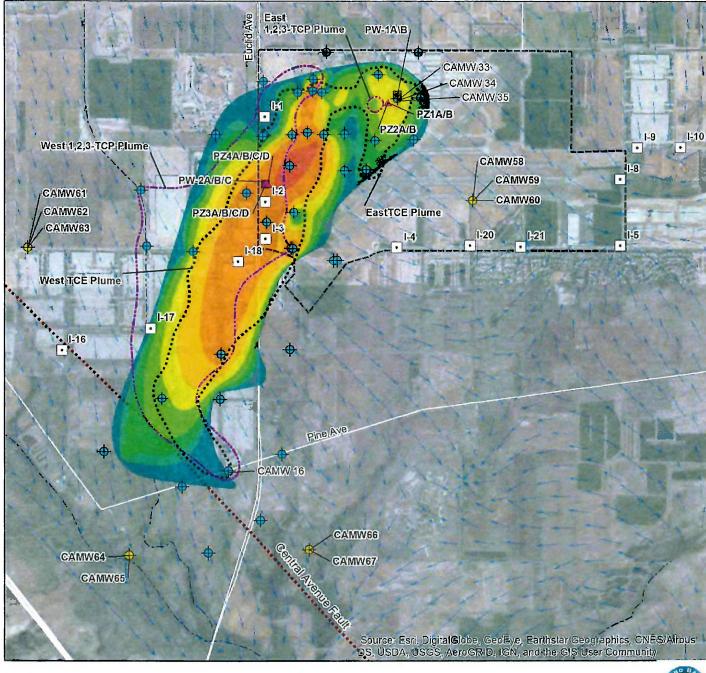
¹⁴ https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5682043671/SL208634049.PDF

¹⁵ Tetra Tech (2018). Former Agricultural Well Destruction Work Plan. Prepared for the County of San Bernardino. July 2018.

In August 2018, the County submitted a *Human Health and Screening Ecological Risk Assessment¹⁶* (HERRA) to the Regional Board. The HERRA was conducted to evaluate the potential human health and ecological risks from potential exposures to chemicals detected in soil, soil gas, and groundwater associated with the Chino Airport.



¹⁶ Tetra Tech (2018). Final Human Health and Screening Ecological Risk Assessment. Prepared for the County of San Bernardino. August 2018.



Maximum TCE Concentration (µgl) July 2011 to June 2016 (Delineated by Watermaster in the 2016 State of the Basin Report)

-	≤ 5
	> 5 to ≤ 10
	> 10 to ≤ 20
Sec. 1	> 20 to ≤ 50
	> 50 to ≤ 100
	> 100 to ≤ 200
	> 200 to ≤ 500
	> 500

Extent of Plume as Delineated by the County in 2017 Winter and Spring Semiannual Monitoring Report



County Monitoring Wells Constructed from 2003-2015

County Wells Constructed in 2018

- + Monitoring
- Piezometer
- Production
- Chino Basin Desalter Authority
 Production Well
- 2017 Model-Generated Groundwater Flow Direction (Model Layer 1)

Chino Airport Property Boundary



Chino Airport Plume



Author: SO Date: 10/2/2018 Name: ChinoAirport_20181002

0	0.25	0.5



CBWM Semi-Annual Status Report

Miles

Exhibit 1

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Semiannual Status Report South Archibald Plume October 2018

Contaminant: The primary contaminant is trichloroethene (TCE). The maximum contaminant level (MCL) for TCE is 5 micrograms per liter (μ gl). The maximum TCE concentration detected in a groundwater sample collected from wells within the plume during the last five years (2013 to 2018) is 90 μ gl. 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 Report¹, 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 period of July 2011 to June 2016. In December 2017, the Cities of Ontario and Upland delineated the extent of the plume with TCE concentrations greater than or equal to 0.5 µgl based on sampling events 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:

- 2005 Draft Cleanup and Abatement Orders (CAOs)– Six CAOs were issued, one each to the following parties: the Aerojet-General Corporation, The Boeing Company, Northrop Grumman Corporation, Lockheed Martin Corporation, General Electric Corporation and the United States Department of Defense.
- 2012 Draft CAO This CAO was 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, excluding Northrop Grumman.

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,

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, Aeroject 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.



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

Semiannual Status Report South Archibald Plume October 2018

The Boeing Company, General Electric Company, and Lockheed Martin Corporation, collectively the 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 from 2007 to 2014, the ABGL parties and/or the RP-1 parties conducted sampling at private residential wells and taps approximately every two years 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 water tank systems where water is delivered from the City of Ontario's potable supply via truck deliveries, 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 μ gl). 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. In November

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.



³ Erler & Kalinowski, Inc. (2014). Supplemental Data Report Trichloroethene Plume Central Chino Basin. Prepared for Aeroject 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.

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 (excluding 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) 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 the construction and operation of three new CDA wells (II-10, II-11, and II-12) 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. Existing CDA well I-11 would also be plumbed into the air-stripping treatment facility as part of the project. The CDA completed construction of Wells II-10 and II-11 in 2015 and the wells were equipped for operation in mid-2018. Both the dedicated raw water pipeline construction and the property acquisition for Well II-12 are underway. The overall project is anticipated to be completed and operational by 2020.

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, 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 µgl) who are currently receiving bottled water. In February 2017, the Cities of Ontario and Upland submitted a Domestic Water Supply Work Plan⁹ to the Regional Board that outlined the approach to provide water tank systems or a connection to the City of Ontario's municipal water supply system

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



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

Semiannual Status Report South Archibald Plume October 2018

for affected residences currently receiving bottled water. The Regional Board approved¹⁰ the work plan on March 3, 2017. At the time of the work plan approval, 32 residences were already using tanks systems that were previously installed and 21 residences were receiving bottled water. The work plan addressed providing new offers for alternative water supply remedies for the 21 residences that were receiving bottled water. The alternative water supply options included: installation of a tank system; connection to an existing City of Ontario water main; connection to a future City of Ontario water main; or remain on bottled water. 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, and construction and connection to a new water main will occur within 18 months of resident consent. Additionally, bottled water will be supplied to any newly affected residents immediately upon determining that TCE is present at concentrations greater than 4 μ gl.

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 4 µgl. 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.

In December 2017, the Cities of Ontario and Upland submitted results from the second round of sampling in the *Annual Groundwater Monitoring Report*¹⁴ for monitoring conducted between September and November 2017. Forty-two samples were collected from 41 residential or agricultural locations located within and or downgradient of the historical footprint of the plume. Samples were collected

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



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

¹⁴Dudek (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 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.

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from an outside tap, an inside faucet, or from the supply well. The report also 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.

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

Recent Activity: The most recent monitoring event was conducted by the RP-1 Parties from September to November 2017. The next annual monitoring event is scheduled for Fall 2018.

Domestic Water Supply. 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 the need for another offer of an alternative water supply for these residences will be evaluated following the next sampling event scheduled for Fall 2018.

Plume Remediation. CDA and IEUA continue to negotiation property access for construction of well II-12 with the private land owner of the selected construction site. The property access agreement has taken longer than expected due to extenuating circumstances and has caused delays in the advancement of various project activities in the Stipulated CAO that are dependent on acquiring the well II-12 site. These tasks include: design and construction of well II-12; design and construction of the raw water pipeline to connect well II-12 to the Desalter II treatment facility; and design and construction of the decarbonator modification. In June 2018, a request¹⁵ to modify the project schedule was submitted to the Regional Board for these project tasks. The Regional Board approved the request in July 2018.^{16,17}

The construction of well II-12 is expected to begin in 2019 and completed by mid-2020. The completion of the dedicated pipeline to convey groundwater from the three new wells and existing well I-11 is on hold until the land acquisition process for well II-12 and its pipeline is complete. The overall project is anticipated to be operational by 2020.

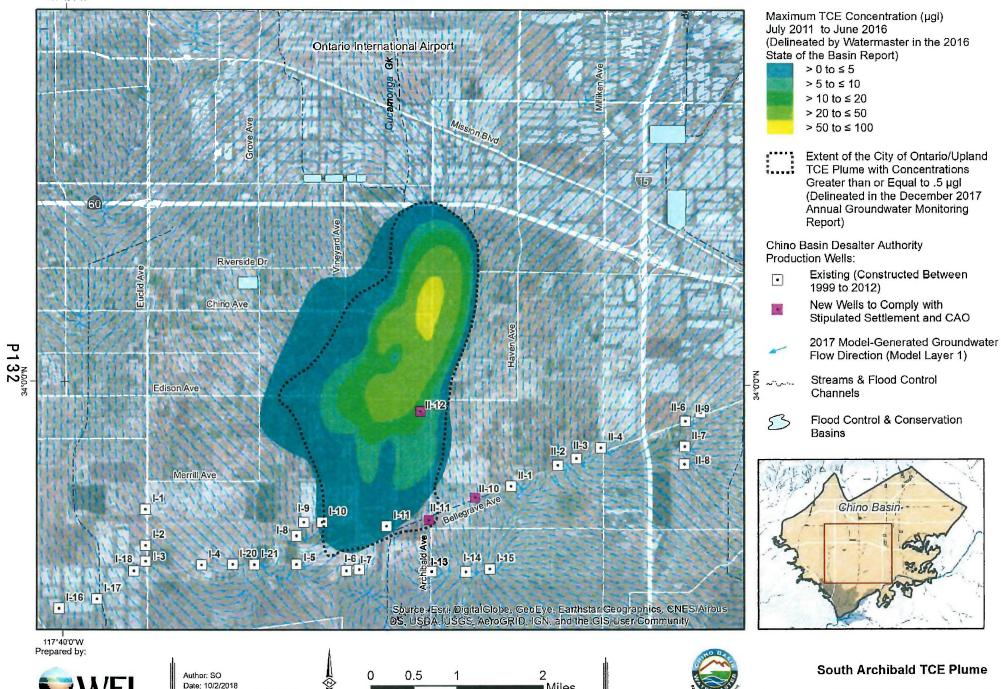


¹⁵ IEUA (2018). Letter from IEUA to the Regional Board - Project Deadline Extension Request – Stipulated Settlement and Cleanup and Abatement Order No. R8-2016-0016. June 21, 2018.

¹⁶ Regional Board (2018). Letter from Hope Smythe to IEUA – Approval of Project Deadline Extension Request – Stipulated Settlement and Cleanup and Abatement Order (Stipulated CAO) No. R8-20016-0016. July 12, 2018

¹⁷ Regional Board (2018). Letter from Hope Smythe to IEUA – Update to Project Deadline Extension – Stipulated Settlement and Cleanup and Abatement Order (Stipulated CAO) No. R8-20016-0016. July 17, 2018

117°40'0"W



Author: SO Date: 10/2/2018 Name: SouthArchibald_20181002

Miles

CBWM Semi-Annual Status Report

Exhibit 1

Contaminants: The primary contaminant is trichloroethene (TCE). The maximum contaminant level (MCL) for TCE is 5 micrograms per liter (μ gl). The maximum TCE concentration detected in groundwater samples collected from wells within the plume from July 2013 to June 2018 was 20,000 μ gl (measured at well MW-22A in April 2018). Other contaminants of concern (COCs) include tetrachloroethylene (PCE), total chromium, hexavalent chromium, 1,1,1-trichloroethane and 1,1,2-trichloroethane.

Location: The General Electric (GE) Flatiron TCE plume is in the northern Chino Basin within the City of Ontario. It extends south-southwest from the historical footprint of the GE Flatiron Facility, which was located at 234 East Main Street. As delineated by the Chino Basin Watermaster (Watermaster) in the 2016 State of the Basin Report,¹ the extent of the plume with TCE concentrations greater than 5 µgl measures approximately 3,150 feet wide and extends 9,000 feet south-southwest (hydraulically downgradient) from the Flatiron Facility. Exhibit 1 shows the location and extent of the TCE plume as delineated by Watermaster and by GE in 2016². Note that both delineations do not include data from newly installed well clusters MW-19A/B/C, MW-20A/B/C, MW-21, MW-22A/B, MW-23A/B, and MW-24A/B. Incorporation of this data for an updated delineation of the plume extent will be prepared by the Watermaster for the upcoming 2018 State of the Basin Report and will demonstrate the TCE plume extends downgradient of the 2016 delineations towards well cluster MW-20A/B/C based on the data collected at the newly installed wells.

Site History: GE manufactured clothes irons at the Flatiron Facility from the early 1900s to 1982. During World War II, the facility was also used to manufacture equipment to support the war effort for the U.S. War Department. GE closed the facility and sold the property in 1982; since then, ownership has changed several times. The property is currently owned by Oakfield Realty Partners, LLC and is part of an industrial park.

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

- Investigative Order No. 87-146 Requiring characterization of on-site conditions and groundwater beneath and down-gradient of the GE Flatiron site using gas surveys, soil boring installation and sampling, and groundwater monitoring well installation and sampling.
- Waste Discharge Requirements (WDRs) and Monitoring and Reporting Programs (M&RPs) Order No. 95-62 and R8-2011-0019 (current) – General WRDs and M&RPs for the discharge of treated water from the pump and treat system.

Regulatory and Investigation History: In 1987, groundwater-quality samples collected from an inactive City of Ontario municipal production well downgradient of the site had TCE and chromium concentrations above drinking water standards, prompting the Regional Board to request that GE

² Amec Foster Wheeler (2016). 2016 Conceptual Site Model Former General Electric Company Housewares Site 234 East Main Street, Ontario, California. Prepared for General Electric Company. October 4, 2016.



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

prepare a Phase I investigation to determine if the Flatiron Facility was the source of the contaminants detected. The results of the Phase I investigation prompted the Regional Board to issue Investigation Order No. 87-146, requiring GE and West End Investments (the property owner at the time) to characterize on-site conditions and the groundwater flow gradient beneath the Flatiron Facility. The Phase II through V ^{3, 4, 5, 6} investigations included soil gas surveys, soil boring installation and sampling, and groundwater monitoring well installation and sampling to define the extent of COCs in groundwater both on and offsite. These investigations conducted from 1987 to 1992, indicated that a contaminant plume was present beneath and downgradient of the Flatiron Facility and showed that concentrations of TCE and total chromium in groundwater were above the California primary MCLs of 5 and 50 µgl, respectively.

The results from the multi-phase investigation prompted the proposal of an interim remedial measure (IRM) in 1993. The IRM was based on the conceptual site model in the *Interim Measure-Preliminary Design Report.*⁷ Local and regional numerical groundwater models were constructed to provide a basis for the design of the IRM and extraction well options for containment near the downgradient extent of the plume. Extraction well (EW-01) was installed in December of 1993, and one monitoring well and three piezometers were installed nearby to provide observation points during aquifer testing at EW-01. The IRM began in 1996 and included pumping groundwater from EW-01, treating for TCE and other contaminants, and discharging the treated groundwater to the Ely Basins for recharge.

A Feasibility Study⁸ was completed in 1995 prior to the start of the IRM to evaluate groundwater and soil remediation alternatives. In October of 1997, the Regional Board approved a remediation alternative that included the ongoing use of extraction well EW-01 and the installation of an additional extraction well (EW-02) near the center of the contaminant plume to pump and treat contaminated groundwater. Extraction well EW-02 was constructed in 1999 and went online in 2002.

The Regional Board issued WDR Order No. 95-62 in 1995 to regulate the discharge of treated water from the pump and treat system to Ely Basin. This order was replaced with WDR Order R8-2011-0019⁹ in 2011 to discharge the treated groundwater to the Chino Basin via injection wells. The 2011

⁹ Santa Ana Regional Water Quality Control Board. (2011). Issuance of Waste Discharge Requirements for General Electric Company, GE Francis Water Treatment Plant, San Bernardino County, Order No. R8-2011-0019. April 22, 2011.



³ Bechtel Environmental, Inc. (1989). Phase II Soil and Groundwater Investigation, Former GE Flatiron Manufacturing, Ontario, California. January 1989.

⁴ Bechtel Environmental, Inc. (1990). Phase III Investigation Report, Former GE Flatiron Manufacturing, Ontario, California. August 1990.

⁵ Geomatrix Consultants, Inc., and Beak Consultants Ltd. (1992). Phase IV Investigation Report 234 East Main Street and Vicinity, Ontario, California. January 1992.

⁶ Geomatrix Consultants, Inc., and Beak Consultants Ltd. (1993). Phase V Investigation Report 234 East Main Street and Vicinity, Ontario, California. January 1993.

⁷ Geomatrix Consultants, Inc. and Beak Consultants Ltd. (1993). Interim Remedial Measure – Preliminary Design Report, 234 East Main Street and Vicinity, Ontario, California. October 5, 1993.

⁸ Geomatrix Consultants, Inc. (1995). Feasibility Study Report, 234 East Main Street and Vicinity, Ontario, California. November 1995.

WDR outlines the current discharge prohibitions, effluent limitations, and required monitoring and reporting program.

In 2015, GE submitted a Work Plan¹⁰ to the Regional Board to outline a program for evaluating the effectiveness of existing remedial measures and to provide recommendations for additional investigation or remediation. Implementation of the Work Plan began in 2016 with the installation of four borings to collect discrete-depth soil and groundwater samples that were tested for TCE, PCE, chromium, and hexavalent chromium.

The Regional Board required the development of a Conceptual Site Model¹¹ in 2016 to incorporate the information from the recent investigations with all historical information to develop a framework to be used to identify data gaps and guide future decisions on investigation, monitoring, and remedial actions. One critical component of the Conceptual Site Model, as highlighted by the Regional Board, is the installation of a sentinel well downgradient of the plume.

On June 22, 2016, a Work Plan¹² was submitted to the Regional Board, outlining the installation of a new-multi-depth well cluster (MW-19A/B/C), to further assess the dissolved-phase chromium and VOC concentrations in the downgradient direction. The first sampling event at well cluster MW-19A/B/C indicated that the TCE concentration in the shallow casing (MW-19A) was greater than the MCL. This finding prompted the Regional Board to request that an additional monitoring well cluster be constructed downgradient of MW-19 and upgradient of the City of Chino's municipal production well Chino-11 to allow for further evaluation of the plume extent. On November 14, 2016, GE submitted the Work Plan¹³ for the construction of well cluster MW-20A/B/C about 420 feet upgradient from Chino-11. Construction was completed in May 2017. The first sampling event at well cluster MW-20A/B/C in July 2017 indicted that TCE in the intermediate casing (MW-20B) was greater than the MCL.

From May 2016 to March 2017, four additional monitoring well clusters (MW-21, MW-22A/B, MW-23A/B and MW-24A/B) were constructed in the upgradient area of the plume as part of the supplemental remedial investigation activities.

Remedial Action Plan: In 1996 GE began operation of a groundwater extraction and treatment system to contain and treat the contaminated groundwater. In 1996, GE began operating extraction well EW-1 at the leading edge of the contaminant plume to prevent further migration of the plume. In 2002, GE began operating extraction well EW-2 located in the center of the plume to prevent migration of the contaminants past the mid-point of the plume. Groundwater pumped from EW-1

¹³ Amec Forster Wheeler (2016). Work Plan for Installation of Additional Sentinel Monitoring Well Cluster. General Electric Company Former Flatiron Facility. Prepared for General Electric Company. November 14, 2016.



¹⁰ Amec Foster Wheeler (2015). Work Plan for Supplemental Remedial Investigation. 234 East Main Street and Vicinity, Ontario California. Prepared for General Electric Company. March 30, 2015.

¹¹ Amec Foster Wheeler (2016). 2016 Conceptual Site Model. Former General Electric Company Housewares Site 234 East Main Street, Ontario, California. Prepared for General Electric Company. October 4, 2016.

¹² Amec Forster Wheeler (2016). Work Plan for Installation of Cross-Gradient Monitoring Well Clusters. General Electric Company Former Flatiron Facility. Prepared for General Electric Company. August 15, 2016.

and EW-2 is conveyed by separate pipelines to the GE Flatiron Facility treatment system located at 501 W. Francis Street. The groundwater is treated first with an ion exchange resin and then with liquidphase granular activated carbon to reduce chromium and VOC concentrations before being discharged. As detailed in WDR Order No. R8-20011-0019, discharged water from the treatment system is required to maintain average monthly concentrations of TCE, PCE, 1,1,1-trichloroethane, and chromium below their respective MCLs of 5, 5, 200 and 50 µgl. From 1996 to 2011, the treated groundwater was discharged via a pipeline to the Ely Basins flood control and groundwater recharge facility. In 2005, long term recharge plans by the Watermaster and Inland Empire Utilities Agency placed a priority on the use of the Ely Basins for recharge of storm water, recycled water and imported water. It was expected that the Ely Basins would be fully allocated to these sources of recharge waters in the future. In 2005, GE began evaluating alternative discharge options for the treated groundwater. A site was selected at 2025 South Bon View Avenue to install injection wells to accept the treated groundwater. Three injection wells (IW-01, IW-02, and IW-03) and conveyance pipelines were completed in July 2011 and began receiving treated waters from the treatment system.

Exhibit 1 shows the locations of the extraction and injection wells. As of August 2018, approximately 17,539 acre-feet of water has been treated at the treatment system.¹⁴

Monitoring and Reporting: There are two interlinked monitoring and reporting programs for the GE Flatiron site: one for groundwater and one for the remediation system. The objectives of the respective programs are: 1) to monitor groundwater elevations and concentrations/extents of the dissolved-phase plume over time, and 2) track and evaluate the performance of the remediation system. The groundwater monitoring program includes measuring groundwater levels and collecting groundwater-quality samples for chemical analysis from site wells at a quarterly frequency. Currently, the depth to groundwater is measured in 31 wells and three piezometers every quarter. Groundwater-quality samples are collected from between 21 and 34 monitoring wells and piezometers, dependent on the specific quarter's monitoring plan and analyzed primarily for dissolved metals and VOCs. Reports summarizing the results of the monitoring and remediation efforts are published semiannually in January and July each year.

The remediation system monitoring program consists of operations and maintenance activities performed in conjunction with the entire system, and at a minimum, monthly sampling and analyses of the treatment plant influent and treated effluent pursuant to WDR Order No. R8-2011-0019. In addition to the semiannual summaries included in the groundwater monitoring reports, treatment system monitoring results are reported monthly to the Regional Board. Semiannual groundwater monitoring and remediation reports, monthly treatment system summary reports, and other relevant documents/data can be found on the Regional Board's GeoTracker website.¹⁵

Recent Activity: The six new monitoring well clusters (13 wells) installed during 2016 and 2017 either onsite in the northern extent of the plume or downgradient of the plume (see Exhibit 1) were



¹⁴ General Electric (2018). *GE Flatiron Facility Treatment System Summary*- August 2018. E-mail prepared for Santa Ana Regional Water Quality Control Board. August 30, 2018.

¹⁵ https://geotracker.waterboards.ca.gov/profile_report?global_id=SL0607132486

monitored quarterly for groundwater quality from January 2017 to April 2018. The monitoring results show that TCE was present at concentrations above the MCL in at least one well in all six well cluster locations. The table below summarizes the highest TCE concentrations from January 2017 to April 2018 for these wells:

Well Name	Well Location	Sample Date	TCE (µg/L)
MW-21	Northern Extent of Plume	1/31/2018	4,200
MW-22A	Northern Extent of Plume	4/27/2018	20,000
MW-22B	Northern Extent of Plume	4/27/2018	15
MW-23A	Northern Extent of Plume	1/31/2018	12,000
MW-23B	Northern Extent of Plume	4/27/2018	75
MW-24A	Northern Extent of Plume	8/2/2017	15,000
MW-19A	Downgradient of Southern Extent of Plume	3/22/2017	8.7
MW-20B	Downgradient of Southern Extent of Plume	1/30/2018	36

New Monitoring Wells with TCE concentrations Above the MCL of 5 μ g/L

GE has not prepared an updated plume delination since their 2016 conceptual site model¹⁶ to include analytical results from the new monitoring wells. Updated delinations of the TCE plume are expected to extend approximately 2,800 feet downgradient from the 2016 extent towards well cluster MW-20A/B/C.

On June 21, 2018 GE submitted a work plan to the Regional Board for an expansion of the soil vapor extraction system currently being implemented at the site.

The most recent groundwater monitoring report¹⁷ was submitted to the Regional Board on July 24, 2018. This report summarizes the groundwater monitoring and remediation activities performed between January 1 and June 30, 2018. The following describes the key findings presented in the document:

- Groundwater elevations appear to be increasing in the vicinity of the site.
- Except for wells MW-06 and MW-09, VOC and dissolved metals concentrations in samples collected from the site monitoring wells during the reporting period were consistent with historical data.
- The highest TCE, PCE, total chromium and hexavalent chromium concentrations detected during the monitoring period were: 20,000 µg/L (MW-22A), 970 µg/L (MW-21), 1,490 (MW-23A), and 1,600 µg/L (MW-23A), respectively.
- The extraction wells have been generally effective at meeting the remedial action objectives.

¹⁷ Wood Environment & Infrastructure Solutions, Inc. (2018). *First Semiannual 2018 Groundwater Monitoring and Remediation Report. Prepared for General Electric Company.* July 24, 2018.

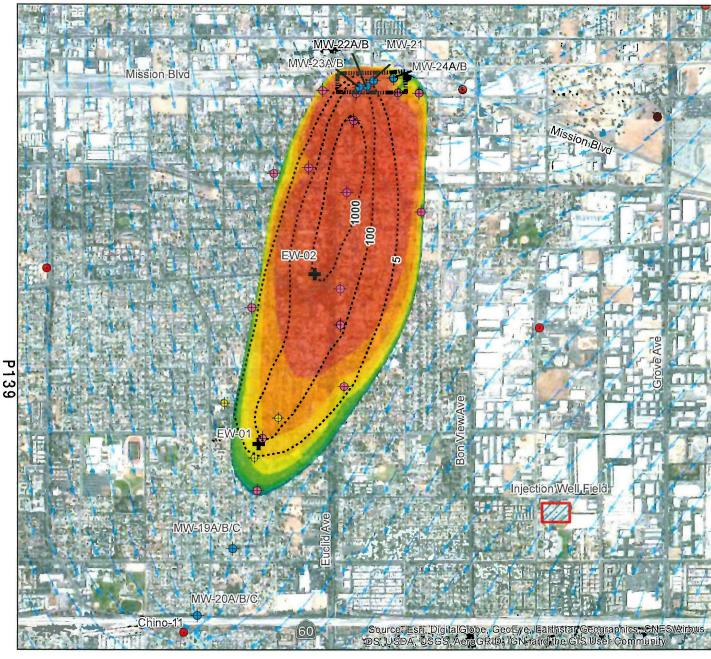


¹⁶ Amec Foster Wheeler (2016). 2016 Conceptual Site Model Former General Electric Company Housewares Site 234 East Main Street, Ontario, California. Prepared for General Electric Company. October 4, 2016

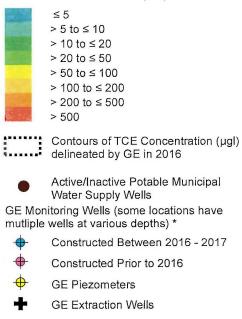
- The injection well field has been effective in returning treated groundwater to the upper aquifer of the Chino Subbasin.
- The results of compliance monitoring indicate the groundwater treatment system was in compliance with discharge limitations described in the WDRs.

GE will continue monitoring at the Flatiron Facility pursuant to the Regional Board Clean-up Status of Open – Assessment & Interim Remedial Action.





Maximum TCE Concentration (μ gl) July 2011 to June 2016 (Delineated by Watermaster in the 2016 State of the Basin Report)





GE Flatiron Property Boundary

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

 $\sqrt{1}$ Streams & Flood Control Channels

* Wells are labeled by well name if mentioned in the report



Prepared by:



Author: LG Date: 10/3/2018 Name: 20181002_GEFlatPlumeStatus_Ex1

0 0.125 0.25 0.5 Miles



Plume Status Report

GE Flatiron TCE Plume

Exhibit 1

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Annual Status Report GE Test Cell Plume October 2018

Contaminants: The primary contaminant is trichloroethene (TCE). The maximum contaminant level (MCL) for TCE is 5 micrograms per liter (μ gl). The maximum TCE concentration detected in a groundwater sample collected from wells within the plume during the from the last five years (July 2013 to June 2018) is 1,500 μ gl (measured at well OW-15pi in January 2018), which is the highest concentration of TCE ever measured at a well within the plume. Other contaminants of concern include: tetrachloroethene (PCE), 1,1-dichloroethene, 1,2-dichloroethane, and cis-1,2-dichloroethene.

Location: The General Electric (GE) Test Cell plume is in the northern Chino Basin within the City of Ontario. The plume is elongated in shape and extends downgradient in a southwest direction from the former GE Jet Engine Test Cell Facility (Test Cell Facility), located at 2264 Avion Street. The site is located approximately a mile northeast of the Ely recharge basins. The land uses overlying the plume are predominately industrial and commercial. As delineated by the Chino Basin Watermaster (Watermaster) in the *2016 State of the Basin Report*,¹ the extent of the plume with TCE concentrations greater than or equal to 0.5 µgl measures approximately 2,300 feet wide and 9,800 feet long. Exhibit 1 compares the location and extent of the plume as delineated by Watermaster, and by GE per their most recent characterization published in the second quarter of 2018².

Site History: From 1956 to 2011, the Test Cell Facility was predominately used to test and maintain commercial and military aircraft engines. Solvents used at the facility included TCE, PCE, 1,1,1- trichloroethane (1,1,1-TCA), methyl ethyl ketone, and isopropyl alcohol, which were stored in 55- gallon drums and an aboveground storage tank. In the early 1970s, TCE was replaced with the use of 1,1,1-TCA, which in 1981 was replaced with isopropyl alcohol—the only solvent used onsite until 1996. Prior to 1974, wastewater from manufacturing processes flowed into the natural wash along the north side of the facility until two dry wells were constructed on the northwest side of the former Test Cell Facility. From 1974 to 2011, wastewater from manufacturing was disposed of by discharging to the onsite dry wells. The Test Cell Facility ceased operation in 2011, and the site is currently vacant.

Consent Order: State of California Department of Health Services (CDHS) Docket No. 88/89-009CO. Consent Order Health and Safety Code Section 25355.5(a)(1)(B) and 25355.5 (a)(1)(C). In the Matter of: General Electric Engine Maintenance Center. September 1998.

Regulatory and Monitoring History: An investigation performed by C.H.J, Inc. soil engineers in 1984 detected TCE, PCE, dibromochloromethane, and 1,1,1-TCA in soil samples taken from the dry wells. Results from this investigation were deemed invalid due to inappropriate analytical

² Geosyntec Consultants (2018). Second Quarter 2018 Groundwater Monitoring Report. Prepared for GE Engine Services Test Cell Facility. July 31, 2018.



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

Annual Status Report GE Test Cell Plume October 2018

methods.³ In 1985, another consulting firm retained by GE detected 1,1,1-trichloroethane, TCE, and PCE in subsurface soils onsite.⁴ An investigation performed in 1987 revealed the presence of volatile organic compounds (VOCs) in the soil near the disposal sites.⁵ In 1988, the Consent Order was signed between GE and the CDHS to initiate the investigation of soil, surface water, and groundwater contamination, and the appropriate remedial actions. The Santa Ana Regional Water Quality Control Board (Regional Board) oversees the groundwater investigation and remediation efforts.

Pursuant to the Consent Order, GE began groundwater investigations in 1991 with the installation of onsite monitoring wells adjacent to the two dry wells used to discharge untreated wastewater. The monitoring performed at these wells indicated the presence of VOCs in the groundwater beneath the Test Cell Facility and that the contamination had possibly migrated offsite. The Regional Board requested an offsite investigation to determine the extent of the contamination. An extensive offsite investigation was completed in multiple phases from 1995 to 1998. The initial phase was completed in March 1995 and included the installation of three offsite monitoring wells. Moreover, in late 1995, five borings where drilled to determine the horizontal and vertical limits of VOCs in groundwater, and three of the five borings were completed as monitoring wells. Monitoring at these offsite monitoring wells indicated that the VOC plume extended about 4,000 feet offsite. Between 1996 and 1998, seven additional monitoring wells and seven piezometers were constructed offsite.

Following the initial groundwater investigation, two offsite multi-depth well clusters were installed between 2001 and 2002 to provide information on the vertical distribution of VOCs. Monitoring of these multi-depth wells indicated that TCE concentrations were highest in the intermediate and deep interval zones. In 2003, GE submitted a groundwater feasibility study to the Regional Board (Feasibility Study),⁶ followed by a draft remedial action plan (RAP)⁷ in 2006. The Feasibility Study and RAP identified pump and treat and monitored natural attenuation as remediation alternatives.

In 2009, additional multi-depth well clusters were installed at two locations offsite and one location onsite.⁸ And, pursuant to a 2014 work plan approved by the Regional Board, GE destroyed six

⁸ Geosyntec Consultants. (2009). *Monitoring Well Installation Work Plan. GE Engines Services Test Cell Facility*. Prepared for GE Engine Services. July 2, 2009.



³ Investigation described in State of California Department of Health Services. (1998). Docket No. 88/89-009CO. Consent Order Health and Safety Code Section 25355.5(a)(1)(B) mad 25355.5 (a)(1)(C). In the Matter of General Electric Engine Maintenance Center. September 1998.

^{4 4} Ibid.

⁵ Dames & Moore. (1987). Subsurface Investigation, Ontario California, for General Electric Aviation Services Operations. February 4, 1987.

⁶ Geosyntec. 2003. Groundwater Feasibility Study – GE Engines Test Cell Facility, Ontario, California. December 3, 2003.

⁷ Geosyntec. 2006. Draft Groundwater Remedial Action Plan, GE Engine Services Test Cell Facility, 2264 Avion Place, Ontario, California. November 17, 2006.

monitoring wells that were dry and replaced them with an additional onsite multi-depth well cluster.

Remedial Action Plan: The 2003 Feasibility Study⁹ and 2006 draft RAP¹⁰ identified two groundwater remediation alternatives: (1) extraction and treatment of groundwater for areas that have VOC concentrations approximately ten times the MCL and (2) monitored natural attenuation of groundwater for areas that have VOC concentrations less than ten times the MCL. Plans to implement a groundwater pump-and-treat system were put on hold after the draft RAP was submitted because the only suitable location for discharging the treated effluent was the nearby Ely recharge basins, and GE could not obtain capacity at the recharge basin from the San Bernardino Flood Control District. Monitored natural attenuation is the only remedial action that has been implemented.¹¹

From 2003 to about 2012, TCE concentrations in samples collected from monitoring wells across the extent of the plume generally decreased; this trend was attributed to natural attenuation. In 2002, TCE concentrations above 50 µgl were measured as far as about 4,000 feet downgradient of the facility. By 2008, groundwater with TCE concentrations above 50 µgl only extended about 2,600 feet downgradient. GE met with the Regional Board in 2008 to discuss the status of the plume and to reevaluate the RAP to consider monitored natural attenuation (MNA) as the primary remedial action. Based on this discussion, GE agreed to install additional monitoring well clusters between the former GE facility and well cluster OW-16, located in the center of the plume. This well was selected because it had the highest historical offsite TCE concentrations in the intermediate and deep intervals. Pursuant to this agreement, two offsite well clusters (OW-17 and OW-18) and one onsite well cluster (MW-8) were installed in August and September 2009 as part of ongoing activities to evaluate MNA. The 2006 Draft RAP was withdrawn in in February 2010 and evaluation of MNA continued.

In November 2010, GE met with the Regional Board again to reevaluate MNA and as a result the Regional Board required that GE prepare a work plan to destroy and/or replace monitoring wells that had gone dry since their construction. GE submitted a work plan¹² for the destruction of five onsite wells and one offsite well and the construction of a well cluster onsite to replace the

¹² Geosyntec Consultants. (2014). Monitoring Well Installation and Destruction Report. Prepared for Regional Water Quality Control Board, Santa Ana Region. June 10, 2014.



 ⁹ Geosyntec. (2003). Groundwater Feasibility Study – GE Engines Test Cell Facility, Ontario, California. December 3, 2003.
 ¹⁰ Geosyntec. (2006). Draft Groundwater Remedial Action Plan, GE Engine Services Test Cell Facility, 2264 Avion Place, Ontario, California. November 17, 2006.

¹¹ Phone Correspondence with Mr. Kamron Saremi at the Regional Board on December 14, 2017.

monitoring wells that had gone dry. The work plan was approved by the Regional Board in 2011 and implemented in 2014.

Monitoring and Reporting: The objectives of the monitoring program are to evaluate the extent and magnitude of the VOC plume emanating from the Test Cell Facility and to support the ongoing evaluation of MNA as a remedy. Groundwater monitoring is performed quarterly and consists of measuring groundwater levels and collecting groundwater samples at all accessible onsite and offsite monitoring wells and piezometers. This includes 13 single casing monitoring wells, 17 multi-nested monitoring wells in six locations, and seven piezometers. Exhibit 1 shows the locations of all monitoring sites. Quarterly groundwater-quality samples are analyzed for VOCs, including TCE, PCE, chloroform, benzene, and others. Reports summarizing the results of the monitoring are published each quarter. All data that have been collected by GE since 2005 are posted on the Regional Board's GeoTracker website.¹³ Conclusions from the monitoring program can be found in the quarterly reports posted on GeoTracker.

Recent Activity: During the second quarter of 2018, groundwater quality samples were collected at 31 monitoring wells, and groundwater-level measurements were obtained from 35 monitoring wells. The monitoring event was conducted in April 2018 and the report documenting the sampling

event and results was submitted to the Regional Board in July 2018¹⁴. The following summarizes some of the key results and conclusions contained in the second quarter report:

- Variations in the IEUA's timing and volumes of recharge at the Ely Basins influence the local horizontal hydraulic gradient and groundwater flow direction, including the area that comprises the central portion of the plume that is directly north of the Ely Basins. However, in any given year, the general horizontal hydraulic gradients remain relatively constant despite long-term changes in groundwater levels and seasonal changes in recycled water recharge at the Ely Basins of up to five feet.
- Over the last four years, significant increases in TCE concentrations have been observed in well OW-6 and well cluster OW-15, located near the center of the plume, north of the Ely Basins where large fluctuations of hydraulic gradient have also occurred.
- There are increasing trends in TCE concentrations at monitoring wells OW-8, OW-9p and OW-17-S. These wells are primarily located in the central and northern portions of the plume and downgradient of the former Test Cell Facility.
- The highest TCE concentration measured is at the intermediate interval of well cluster OW-15 located in the center of the plume. The TCE concentration at this well showed a increasing trend from the fourth quarter of 2013 to the second quarter of 2018, increasing

¹⁴ Geosyntec Consultants. (2017). Third Quarter 2017 Groundwater Monitoring Report. Prepared for GE Global Operations, Environment, Health and Safety. October 2017.



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¹³ http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL208634049

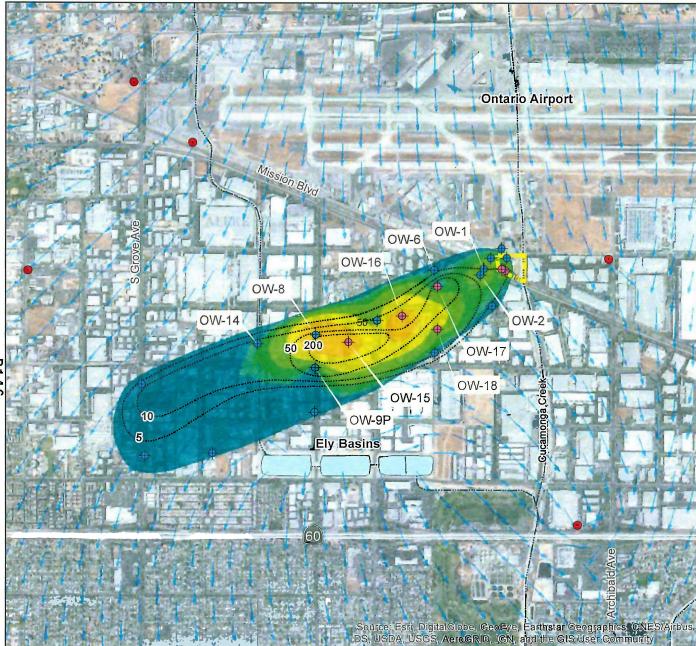
from 140 μ gl to 1,400 μ gl. The maximum peak concentration of 1,500 μ gl was observed in the first quarter of 2018.

- Over the last year, increasing TCE concentrations have been observed at OW-14 and OW-16i, also located in the center of the plume.
- Over the past six years, TCE concentrations at the two monitoring wells just downgradient of the former Test Cell facility (OW-1 and OW-2) have gradually declined and are significantly lower than historical concentrations observed in these monitoring wells.
- Approximately 71 percent of the wells that are being monitored have TCE concentrations above the MCL.

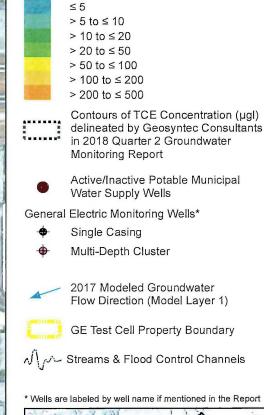
GE will continue monitoring pursuant to the Regional Board Clean-up Status of *Open – Verification Monitoring*. The third quarter 2018 monitoring event was performed in July 2018 and the monitoring report will be submitted to the Regional Board by GE in October 2018. Upon review of the third quarter 2018 monitoring report, the Regional Board will schedule a time to meet with GE and evaluate if remediation actions other than MNA are required to address the increasing TCE concentrations found in wells at the center of the plume.¹⁵

¹⁵ Phone Correspondence with Mr. Kamron Saremi at the Regional Board on August 27, 2018.





Maximum TCE Concentration (µgl) July 2011 to June 2016 (Delineated by Watermaster in the 2016 State of the Basin Report)





GE Test Cell TCE Plume

Prepared by:

Author: SO Date: 10/3/2018 Name: 20181002_GETestPlume_Status_Ex1





Plume Status Report

Exhibit 1

Contaminants: The primary contaminant is tetrachloroethene (PCE). The maximum contaminant level (MCL) for PCE is 5 micrograms per liter (μ gl). The highest concentration of PCE historically measured at a well within the plume is 1,990 μ gl (MW-7 in 1998). Other contaminants of concern include the following volatile organic compounds (VOCs): trichloroethene (TCE), 1,2-dichloroethene, bromodichloromethane, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, and toluene.

Location: The California Institution for Men (CIM) is a state correctional facility located in the City of Chino. The property occupies approximately 1,500 acres. CIM is located approximately 2.5 miles east of the City of Chino Hills and approximately seven miles north of Prado Dam. As delineated by the Chino Basin Watermaster (Watermaster) in the *2016 State of the Basin Report*,¹ the extent of the plume with detectable PCE concentrations greater than 0.5 µgl is about 4,000 feet long and 3,000 feet wide, and it is located predominantly beneath the CIM property (Exhibit 1).

Site History: Since 1939, the State of California Department of General Services (State) has operated the Chino Institution for Men (CIM), a correctional facility in the City of Chino. The property is bounded by Eucalyptus Avenue to the north, Euclid Avenue to the east, Kimball Avenue to the south, and Central Avenue to the west. The primary uses of the CIM property include agricultural operations, inmate housing, and correctional facilities. The Heman G. Stark Youth Correctional Facility occupies the eastern portion of the CIM property. CIM provides potable water to both the nearby Youth Correctional Facility and Chino Institution for Women as well as the CIM facilities. CIM operates multiple supply wells, a distribution system, and a water treatment plant. The land surrounding the CIM property was historically used for agriculture and dairy activities, but it has rapidly developed in recent years to residential and commercial uses.

Regulatory Orders:

• No regulatory Orders for site remediation and monitoring. The State conducted voluntary cleanup and monitoring under direction from Santa Ana Regional Water Quality Control Board (Regional Board). On December 17, 2009, the Regional Board determined "No Further Action" was required for remediation or monitoring.

Regulatory and Monitoring History: In 1990, PCE was detected at a concentration of 26 µgl at CIM drinking water supply Well 1. This prompted the California Department of Health Services (CDHS), now the California State Board Division of Drinking Water (DDW), to direct CIM to stop using the well as a source of drinking water. The detection of elevated PCE concentrations in two other CIM drinking water supply wells (1A and 11A) triggered the Regional Board to request an investigation of the source and extent of the onsite PCE contamination.

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



The Phase I Initial Site Assessment² was performed at the CIM site in 1992 and included a review of CIM's history, operations, and chemical use. The investigation identified five potential sites where VOCs were used and could have impacted soil and groundwater. These areas included: the old laundry building, the furniture factory, the vocational shops, the state garage, and the powerhouse.

The Phase II Site Assessment³ was performed from 1992 to 1994 and included a soil vapor survey, soil sampling analysis, groundwater quality analysis, and vapor extraction testing. Seven groundwater monitoring wells were installed and sampled as part of this investigation. The results from the soil vapor investigation and the groundwater quality analysis showed low concentrations of contaminants throughout the site. The old laundry facility and nearby areas were identified as the most likely principal source of VOCs at CIM.

An interim remedial measure, which included the extraction and treatment of groundwater from Well 1, was implemented in 1997. In 2001, construction began on two CIM water supply wells and associated piping to prevent VOC-impacted groundwater at the southern end of the plume from migrating away from the site.

Between August 1994 and May 2001, a network of approximately 43 monitoring wells at varying depths in the shallow, intermediate, and deep aquifer zones below the site were constructed. The wells were sampled intermittently through 2007 to analyze the extent and concentrations of VOCs in the groundwater beneath the CIM property. The VOC impacts to groundwater were limited to the source area and immediately downgradient and had not and were not expected to migrate off the property. A final monitoring event⁴ was conducted by the State during January 2007, which included groundwater quality sampling at 39 water supply and monitoring wells at the CIM property. Based on this monitoring event and data from previous monitoring efforts, it was concluded that PCE concentrations in groundwater beneath the site had substantially diminished. All samples collected from the potable water supply wells during this sampling event did not test above the MCL for PCE or any other VOCs. However, PCE concentrations above the MCL of 5 μ gl were present in three monitoring wells in the shallow aquifer zone, ranging from about 8 to 27 μ gl.

In February 2007, the State submitted a request to the Regional Board for a No Further Action (NFA) finding for groundwater remediation and monitoring at CIM. On December 17, 2009, the Regional Board issued a determination of NFA for the CIM site.⁵

⁵ California Regional Water Quality Control Board, Santa Ana Region. Determination of No Further Action (NFA), Tetrachloroethylene Remediation Project, California Institution for Men, Chino. December 17, 2009.



² Geomatrix. (1992). Report of Phase I Investigation, VOCs in Soil and Groundwater, Department of Corrections California Institution for Men, Chino. April 20, 1992.

³ Geomatrix. (1994). Phase II Assessment of VOCs in Soil and Groundwater, California Institution for Men Chino, California. Prepared for Department of General Services. October 4, 1994.

⁴ Geomatrix. (2007). January 2007 Groundwater Monitoring PCE Remediation Project California Institution for Men Chino, California. Prepared for Department of General Services Real Estate Services Division Project Management Branch. May 17, 2007

Remedial Action: In July 1997, the State implemented remediation activities termed *The PCE Remediation Project⁶*, with an interim remedial measure where groundwater pumped from Well 1 was treated for VOCs using air stripping. Operation of the air stripper at Well 1 continued until 2004, when the permeability of the air stripper packing was compromised by the accumulation of mineral precipitates. The pump-and-treat process at Well 1 removed 57.9 pounds of PCE and TCE collectively. Groundwater production from Well 1 resumed without treatment in 2004 with approval from the CDHS and Regional Board. A supplemental remedial measure began in 2001 which included the construction of two new CIM water supply wells (Well 14 and Well 15), located in an area to intercept the toe of the VOC plume, promoting hydraulic control of the VOCs in groundwater beneath the CIM. Wells 14 and 15 operated without treatment, and from January 2003 to December 2008, these two wells removed an additional 13.8 pounds of PCE and TCE collectively.

Remediation requirements at CIM ended in December 2009 with the Regional Board's determination of NFA. CIM water supply Wells 1, 14, and 15 continue to be active production wells.

Monitoring and Reporting Program: The State conducted voluntary monitoring at CIM pursuant to the Regional Board from 1992 to 2007 at 31 monitoring wells and 14 water supply wells. Voluntary monitoring ended in December 17, 2009 with the Regional Board's approval of the 2009 determination of NFA. As part of the NFA the State was required to decommission monitoring wells located onsite in accordance with California Well Standards (DWR Bulletin No. 74-81). It was agreed amongst the consultants, counsel, the State, and the Watermaster to preserve some of the CIM monitoring wells for the Watermaster's groundwater-level monitoring program pursuant to the Optimum Basin Management Program (OBMP). Watermaster and the State agreed to preserve the following 16 wells:

B2B	MW-21S	MW-28S	MW-34S
B4B	MW-24I	MW-28I	P-23S
MW-20I	MW-24S	MW-31I	P-23I
MW-21I	MW-22DR	MW-33S	P-23D

Groundwater-quality monitoring of the CIM potable supply wells continues as part of its water supply operations under the DDW regulations. The State samples the potable supply wells monthly for PCE and TCE and reports to the DDW. Watermaster routinely collects all groundwater-quality data from the DDW's Water Quality Analyses Database⁷ for the CIM potable supply wells as part of the OBMP groundwater-quality monitoring program and uses this data to characterize the areal extent and concentration of the PCE plume every two years.

Recent Activity: There is no further regulatory activity associated with the CIM Cleanup Program Site since case closure pursuant to the December 17, 2009 determination of NFA.

⁷ https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/EDTlibrary.shtml



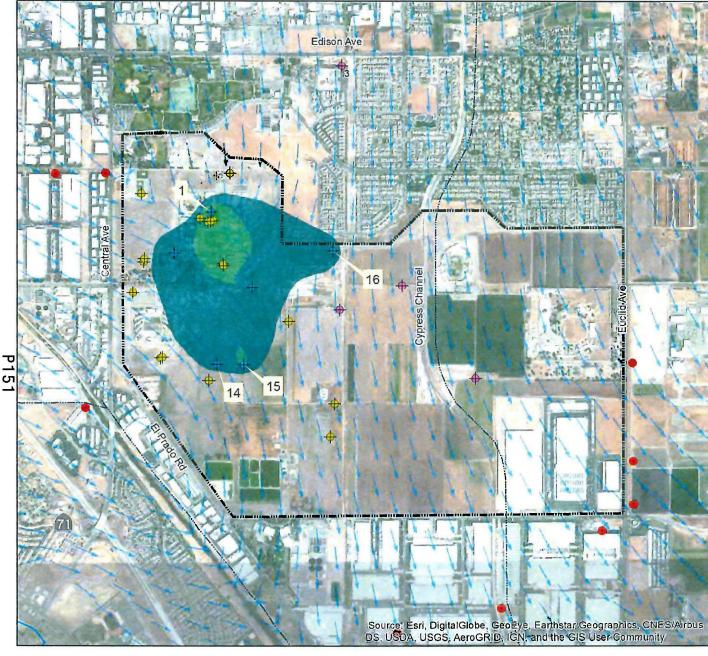
⁶ Geomatrix Consultants, Inc. (2005). PCE Remediation Project Report. California Institution for Men. Prepared for California Department of General Services. July 2005

The most recent characterization of the plume was completed by Watermaster in the 2016 State of the Basin Report (Exhibit 1). Since case closure in 2009, the PCE plume has shown no significant change, based on available data. The following table summarizes the five-year maximum PCE concentration (October 2013 to June 2018) for wells within the plume based on monthly DDW sampling:

Maximum Five-Year PCE Concentration in CIM Wells (October 2013 – June 2018)

Well	Maximum PCE (µgl)
1	15
1A	3.4
11A	1
14	1.25
15	8.5
16	2.2





Maximum PCE Concentration (µgl) July 2011 to June 2016 (Delineated by Watermaster in the 2016 State of the Basin Report)

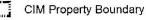
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CIM Monitoring Wells Preserved for the Watermaster Groundwater-Level + Monitoring Program (some locations have multiple wells at various depths)

CIM Potable Water Supply Wells*

- . Active as of Fiscal Year 2018
- Inactive as of Fiscal Year 2018
- Other Potable Municipal Water Supply Wells

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



My→- Streams & Flood Control Channels

* Wells are labeled by well name if mentioned in the report



CIM PCE Plume

WILDERMOTH ENVIRONMENTAL.IN

Prepared by:

Author: SO Date: 10/2/2018 Name: 20181002_CIM_PlumeStatus_Ex1



Plume Status Report

Miles

Exhibit 1

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Contaminants of Concern: From 1983 to 1993 the primary contaminants of concern (COC) for the former Kaiser Steel Mill site were total dissolved solids (TDS) and total organic carbon (TOC). In 2008, additional investigations commenced to identify other COCs. Currently, COCs associated with the site include: hexavalent chromium, carbon tetrachloride, and chloroform. TDS and TOC are no longer considered contaminants of concern.

Location: The former Kaiser Steel Mill site is a 1,200-acre parcel in an unincorporated area of San Bernardino County between the Cities of Fontana and Ontario. The site is bounded by Whittram Avenue to the north, Interstate 10 to the south, and Etiwanda and Cherry Avenues to the west and east, respectively. The last delineation of the Kaiser TDS/TOC plume extent was completed in 2008 by the Chino Basin Watermaster (Watermaster),¹ and at that time, the plume was approximately 7,000 feet wide and extended 18,500 feet southwest from the site. Exhibit 1 shows the location of the site and the extent of the TDS plume in 2008. No plume delineations for the other contaminants of concern have been prepared.

Site History: The Kaiser Steel Corporation operated the Kaiser Steel Mill from 1943 to 1983, and during peak production, the facility was the largest steel producer in the western United States. For the first 30 years, solid and liquid wastes produced from the manufacturing processes were disposed of in waste pits and unlined surface impoundments throughout the site, which allowed for evaporation and percolation. In the early 1970's, the surface impoundments were lined to eliminate percolation to groundwater. In 1987, the Kaiser Steel Corporation filed for bankruptcy and re-organized into Kaiser Resources Inc., which later became Kaiser Ventures Inc.

After the Kaiser Steel Corporation ceased steel operations in 1983, portions of the property were divided and leased or sold to the following corporations:

- Chemwest Industrial Inc., a chemical manufacturing company, leased land in the southwest portion of the property (East Slag Pile Area in Exhibit 1), but no longer operates on-site.
- California Steel Industries (CSI) Purchased 458 acres to continue operations as a steel rolling mill.
- The Auto Club Speedway (formerly California Speedway) was constructed by the Penske Corporation on 500 acres in the northern corner of the site in 1995.
- CCG Ontario, LLC (CCG),² purchased 592 acres along the western and southern portions of the property in 2000 and inherited responsibility for remediation and monitoring of site contamination from Kaiser Ventures Inc.

Regulatory Orders:

• Regional Water Quality Control Board Santa Ana Region (Regional Board) Cleanup and

² CCG Ontario is a subsidiary of Prologis a real-estate and supply chain logistics company.



¹ Wildermuth Environmental, Inc. (2008) *Chino Basin Management Zone 3 Monitoring Program Final Report.* Prepared for Chino Basin Watermaster and Inland Empire Utilities Agency. December 2008.

Abatement Order (CAO) No. 87-121 – Required Kaiser Steel Corporation to initiate a Phase IV groundwater investigation and implement a remediation action alternative for groundwater contamination.

- Regional Board CAO No. 91-40 Required a feasibility study for a salt-offset remediation alternative for groundwater contamination.
- California Department of Health Services (now Department of Toxic Substance Control [DTSC]) Consent Order with Kaiser Resources Inc. (August 1988) Required Kaiser Resources Inc. to investigate any release of contamination to air, soil, surface water, and groundwater and ensure appropriate remedial measures were taken.
- DTSC Imminent and Substantial Endangerment Determination Consent Order with CCG (August 2000) Transferred responsibility of investigation and remedial activities associated with the 592 acres purchased by CCG and the Coal Tar Pits Parcel to CCG.

Regulatory and Investigation History: In July 1983, a phased investigation of potential groundwater contamination, resulting from the disposal of high-salinity wastewater to unlined ponds during the early years of operation, was performed at the former Kaiser Steel Mill site. The Phase I and II studies³ were completed in December 1983 and identified 28 waste sites and four likely point-sources that contributed to TDS and TOC contamination of groundwater beneath the facility. Groundwater samples were collected at existing on-site and off-site wells to determine the preliminary extent of groundwater contamination and to assess groundwater quality downgradient from the site. The Phase III investigation⁴, completed in March 1986, resulted in the construction of monitoring wells at six additional locations (five single-point and a quadruple-nested. Based on the data three separate TDS plumes were identified: one on-site extending to a depth of 770 feet below ground surface (ft-bgs), and two that migrated off-site. Additionally, one TOC plume was identified on-site extending to a depth of approximately 100 (ft-bgs). The Phase III investigation determined that the TDS plumes were moving downgradient at a rate of 100 to 300 feet per year with the potential to impact downgradient municipal production wells.

In 1987, the Regional Board issued CAO No. 87-121⁵ to the Kaiser Steel Corporation in response to the findings of the phased investigations, which required a Phase IV groundwater investigation to further characterize the plume extents and evaluate remediation strategies, such as groundwater extraction and treatment.

On August 22, 1988 a Consent Order⁶ was signed between Kaiser Resources Inc. and the California Department of Health Services, Toxic Substances Division (later known as the DTSC) to assess the

⁶ Department of Toxic Substances Control Docket No. HAS 87/88-032CO. Consent Order (Health and Safety code sections 205,25355.1(a)(1)) August 22, 1988.



³ James M. Montgomery and Associates (1983). *Final Report, Kaiser Steel Corporation Groundwater Evaluations*. December 1983.

⁴ James M. Montgomery and Associates (1986). *Kaiser Steel Corporation Phase III Groundwater Investigation*. Prepared for Kaiser Steel Corporation. March 1986.

⁵ California Regional Water Quality Control Board (1987). Cleanup and Abatement Order No. 87-121 for Kaiser Steel Corporation Fontana, San Bernardino County. August 26, 1987.

extent of soil and groundwater contamination at the site and prescribe any necessary remedial actions. Two preliminary assessment and site inspection reports were published (August 1988 and January 1989⁷) to identify areas of contamination that required further investigation. A Remedial Investigation and Feasibility Study of the identified areas was completed in 1990. The investigation concluded the following:

- three areas of the former Kaiser Steel Mill site required remediation and further investigation—the tar pits, the by-products plant area, and the east slag pile, and
- two areas required removal of contaminated materials—the cooling tower sludge pit and the furnace dust and mill scale piles. Remediation of the by-products plant area and cooling tower sludge pit began in 1995 prior to the construction of the Auto Club Speedway.

In 1990, Kaiser Resources Inc. initiated plans for a 'salt-offset' as an alternative to groundwater extraction and treatment of the TDS and TOC plumes. In March 1991, the Regional Board rescinded CAO No. 87-121 and issued CAO No. 91-40, which allowed Kaiser Resources Inc. to complete a feasibility study for a salt-offset program. The Draft Phase IV Groundwater Remediation and Feasibility Study⁸ was published in 1991 which analyzed a salt-offset alternative and nine other groundwater remediation alternatives. In 1993, CAO No. 91-40 was rescinded when Kaiser Resources Inc. and the Regional Board entered into a settlement agreement (known as the Salt Offset Agreement). Under the Agreement, Kaiser Resources Inc. would contribute financial resources and dedicate its Chino Basin water rights to support the construction and operation of the Chino Basin Desalters in exchange for release from any future liability for TDS and TOC contamination. Kaiser Resources Inc. made a one-time contribution of \$1.5 million and 25,000 acre-feet of its water rights established under the Chino Basin Judgement.

Between 1986 and 1994, an interim groundwater-quality monitoring program was implemented to further characterize the extent of the TDS and TOC groundwater contamination. The monitoring program consisted of sampling a network of 30 on-site and off-site monitoring and production wells, including newly constructed monitoring wells (KOSF-1 and MP-2). The maximum TDS and TOC concentrations detected in groundwater samples during this time were 1,600 milligrams per liter (mgl) and 70 mgl, respectively.

In 2000, CCG purchased 592 acres of the former Kaiser Steel Mill site and entered into a Consent Order⁹ with the DTSC that transferred responsibility for remediation of site related contamination from Kaiser Ventures Inc. (formerly Kaiser Resources) to CCG. The 2000 Consent Order also

⁹ Department of Toxic Substances Control Docket No. I&SE -CO 00/01-001 Imminent and Substantial Endangerment Determination and Consent Order (Health and Safety Code Sections 25355.5(a)(1)(B) and (C), 25358.3 (a), 58009 and 58010.) August 10, 2000.



⁷ JMM (1989) RCRA Facility Assessment Report. Prepared for Kaiser Steel Resources Inc. January 1989.

⁸ Mark J. Wildermuth (1991) Phase IV Groundwater Remediation Feasibility Draft Report. Prepared for Kaiser Steel Resources Inc. November 1991.

required CCG to perform groundwater investigations and, if necessary, develop remediation alternatives for additional contaminates of concern, other than TDS and TOC.

Remedial Action: As previously noted, remediation activities associated with the TDS and TOC plumes ended with the adoption of the 1993 Salt Offset Agreement. The 2000 Consent Order between the DTSC and CCG divided the site into four 'Operable Units' (OU's) (see Exhibit 1 for OU boundaries) and required continued remediation of each OU. The following describes the Remedial Action Plans (RAP) implemented for each OU:

- **OU-1 Tar Pits.** DTSC approved the final amended RAP in 2000 which prescribed the construction of a cap over the tar pits parcel.
- OU-2 Auto Club Speedway/By-Products Area. DTSC approved the final RAP on May 2, 1995, which prescribed material removal and the construction of a 12.84-acre cap over the contaminated soil. Prior to the construction of the cap 9,212 tons of sludge waste were excavated and treated via chemical fixation and 21,200 tons were removed completely from the site¹⁰.
- **OU-3 East Slag Pile Landfill Area.** DTSC approved the final RAP on October 31, 2007, which documented the construction of a four-foot thick monolithic soil cover, landfill gas collection and control system/monitoring probes, surface water drainage system, groundwater monitoring, and long-term operation and maintenance.
- OU-4 Chemwest Upper Ponds/Consolidated Waste Cell/Aboveground Storage Tanks/Chrome Ponds and Adjacent Areas (CCAC). DTSC approved the final RAP on February 13, 2009, which prescribed the construction of a cap over the CCAC¹¹, groundwater monitoring, and long-term operation and maintenance.

The above remedial activities specified for OU-1 through OU-4 have been implemented. Long-term monitoring and inspection reports for each OU are published on an annual or semi-annual basis to ensure the completed remedies are operating properly.

In 2008, an additional operable unit (OU-5) (not a geographical area) was established to conceptually describe site-wide groundwater monitoring in accordance with a *Groundwater Remedial Investigation Work Plan*¹² (2008 Work Plan) published the same year. The 2008 Work Plan aimed to address data gaps in assessing groundwater contamination other than TDS and TOC, and to develop a long-term groundwater-quality monitoring program. The resulting Site-Wide Groundwater Monitoring Program was approved by DTSC on November 3, 2008 and commenced with the installation of 32 groundwater monitoring wells at 24 locations over a five-month period in 2009. Eight quarterly groundwater sampling events were performed from 2009 to 2011. Data collected from the sampling

¹¹ Shaw Environmental (2009). Final Remedial Action Plan OU-4. January 2009.

¹² Shaw Environmental Inc. (2008). Groundwater Remedial Investigation Work Plan; Former Kaiser Steel Mill. Prepared for CCG Ontario LLC. October 2008



¹⁰ Iris Environmental. (2014) Third Five-Year Review Report Auto Club Speedway Operable Unit No. 2, By-Products Area Former Kaiser Steel Mill Facility San Bernardino County, California. Prepared for CCG-Ontario LLC. June 2014

effort were used to perform a health risk assessment of off-site groundwater by comparing measured constituent concentrations with EPA regional screening levels (RSL's). Hexavalent chromium, carbon tetrachloride, and chloroform were detected at concentrations above the risk-based screening concentrations and were therefore determined to be site-wide constituents of concern that warranted continued monitoring.

On September 1, 2016, CCG completed the *Final Groundwater Remedial Investigation Report/Feasibility Study and Remedial Action Plan*¹³ (Final RI/FS/RAP) which included the results of the Site-Wide Groundwater Monitoring Program. The selected RAP for OU-5 was continued groundwater monitoring and was approved by the DTSC on September 13, 2016. The site-wide groundwater monitoring will include annual sampling of 20 monitoring wells (11 well sites), and annual reporting to the DTSC.

Monitoring and Reporting: Current groundwater monitoring efforts are performed pursuant to the Operations and Maintenance plans for OU-2, OU-3, and OU-4. Initial groundwater monitoring for OU-5 ceased in 2011 following completion of the eight consecutive sampling events prescribed in the 2008 Work Plan. Continued groundwater monitoring and reporting on an annual basis for OU-5 was proposed in the *Sitewide Water Quality Sampling and Analysis Plan* included as Appendix M of the Final RI/FS/RAP but does not appear to have been implemented to date.

Exhibit 1 shows the location of the 24 well sites currently and historically monitored for OU's 1 through 5. The table below summarizes the number of wells, sampling frequency, and duration of sampling for each monitored OU.

Operable Unit	# of Wells	Sampling Frequency (Duration)
OU-2	5	Quarterly (1995-2015); Semi-Annual (2015-present)
OU-3	9	Quarterly (2011-2015); Semi-Annual (2015-present)
OU-4	11	Quarterly (2011-present)
OU-5 (work plan)	34	Quarterly (2009-2011)
OU-5 (final RAP)	20	Annually (pending)

Groundwater monitoring reports for OU-2, OU-3, and OU-4 are published on a quarterly or semiannual basis. Site-Wide Five-Year Reports are prepared and submitted to the DTSC to determine if the implemented remedial actions remain protective of human health and the environment.



¹³ Iris Environmental Inc. (2016). *Final Groundwater Remedial Investigation Report/Feasibility Study and Remedial Action Plan. Prepared for CCG Ontario, LLC.* September 2016

Currently, Watermaster samples eleven monitoring wells annually at four down-gradient locations (Exhibit 1) for the Key Well Groundwater Quality Monitoring Program (KWGWQMP) and provides monitoring results to CCG upon request.

Recent Activity: The most recent groundwater monitoring reports published for OU-2, OU-3, and OU-4 are summarized below:

- **OU-2** The Second Semi-Annual 2017 Groundwater Monitoring Report for OU-2¹⁴ was completed February 15, 2018 and describes results from sampling that occurred on August 16 and 21, 2017. Nitrate (up to 44 mg]) and sulfate (up to 550 mgl) were detected at concentrations above their respective Maximum Contaminant Levels (MCLs) of 10 mgl and 250 mgl. Hexavalent chromium (up to 6.0 micrograms per liter [µgl]), lead (up to 4.9 µgl), and arsenic (up to 1.5 µgl) were detected at concentrations above their respective Public Health Goals (PHG) of 0.02 µgl, 0.2 µgl, and 0.004 µgl.
- **OU-3** The revised *Second Semi-Annual 2017 Groundwater Monitoring Report for OU-3*¹⁵ was completed June 18, 2018 and describes results from sampling that occurred from August 16 through 23, 2017. Hexavalent chromium was detected at concentrations up to 8.0 µgl but did not exceed the MCL.
- OU-4 The revised Fourth Quarter 2017 Groundwater Monitoring Report for OU-4¹⁶ was completed June 15, 2018 and describes results from sampling that occurred from November 15 through 21, 2017. Nitrate (up to 17 mgl), sulfate (up to 310 mgl), carbon tetrachloride (up to 1.4 μgl), total chromium (up to 73 μgl), and hexavalent chromium (up to 76 μgl) were detected at concentrations above their respective MCL's of 10 mgl, 250 mgl, 0.5 μgl, 50 μgl, and10 μgl¹⁷.

A *Site-Wide Five-Year Review Report*¹⁸ was submitted to the DTSC on April 1, 2016. The report concluded that the remedial actions for all OUs are functioning as intended. The next Site-Wide Five-Year Report is scheduled to be published in 2021.

Watermaster performed their most recent annual sampling event at the eleven Kaiser and MZ3 monitoring wells for the KWGWQMP during September 2018 (analytical results are pending). Over the last five years (2012-2017) data from these wells have shown MCL exceedances for the following constituents: nitrate as nitrogen, sulfate, arsenic, and hexavalent chromium¹⁷, with maximum

¹⁸ RPS Iris Environmental (2016). Final Site-Wide Five-Year Review Report. Prepared for CCG Ontario LLC. April 2016.



¹⁴ RPS Iris Environmental (2018). Second Semi-Annual 2017 Groundwater Monitoring Report Operable Unit No. 2 By-Products Area (Auto Club Speedway). Prepared for CCG Ontario LLC. February 2018.

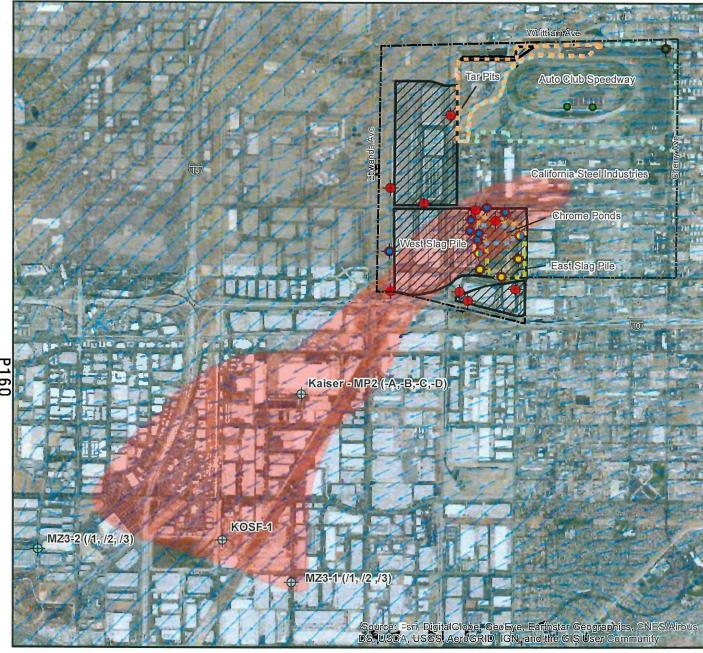
¹⁵ RPS Iris Environmental (2018). Groundwater Monitoring Report Third Quarter 2017 Chemwest Upper Ponds/ Consolidated Waste Cell, Aboveground Storage Tanks, Chrome Ponds and Adjacent Areas (CCAC) and Second Semi-Annual 2017 East Slag-Pile Landfill Area (ESPLA). Prepared for CCG Ontario, LLC. June 2018.

¹⁶ RPS Iris Environmental (2018). Groundwater Monitoring Report Fourth Quarter 2017 Chemwest Upper Ponds/ Consolidated Waste Cell, Aboveground Storage Tanks, Chrome Ponds and Adjacent Areas (CCAC) and CCAC Annual Report. Prepared for CCG Ontario, LLC. June 2018.

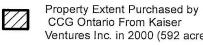
¹⁷ As of September 11, 2017 the MCL for hexavalent chromium that was established in 2014 is no longer in effect; the Superior Court of Sacramento County issued a judgement invalidating the MCL and ordering State Water Resources Control Board (State Board) to overturn the MCL. As of September 11, 2017 there is no MCL for hexavalent chromium but the State Board does plan on establishing a new MCL in the near future.

concentrations of 12 mgl (well MZ3-1/1), 270 mgl (well MP2-B), 18 µgl (well MZ3-2/2), and 17 µgl (well MP2-A) respectively. Other constituents in exceedance of MCLs in at least one of the wells over the last five years include: chromium, 1,2,3-trichloropropane, trihalomethanes, perchlorate, 1,1-dichloroethene, 1,2-dichloroethane, and trichloroethene (TCE).





Original Property Extent of Kaiser Steel Mill



Ventures Inc. in 2000 (592 acres)

Operable Unit (OU) Boundaries

02	OU-1	- 633	OU-3
86 A 12 11 - 12 12 - 12 - 12 12 - 12 - 12	OU-2		OU-4

CCG Site Monitoring Wells (some locations have multiple wells at various depths)

- OU-2 OU-4 ۲
- **OU-5** OU-3 0

0 OU-3 and OU-4

Monitoring Wells Sampled Annually 0 by Watermaster for the KWGWMP (some locations have wells at various depths)

- Extent of the Kaiser TDS plume in 2008 as Delineated by Watermaster
 - 2017 Model-Generated Groundwater Flow Direction (Model Layer 1)



Former Kaiser Steel/ CCG Ontario **Contaminant Site**

Plume Status Report

Exhibit 1

σ 0

Prepared by:



Author: RT Date: 10/1/2018 Name: 20180926_KaiserPlumeStatus



Contaminant: The primary contaminant is trichloroethene (TCE). The maximum contaminant level (MCL) for TCE is 5 micrograms per liter (µgl). The maximum TCE concentration detected in groundwater samples collected from wells within the plume area during the last five years (July 2013 to June 2018) is 16 µgl (measured at well M-08B in October 2013). The highest concentration of TCE ever measured on site is 178 µgl (measured at well M-2B in April 1997). Other contaminants of concern include the following volatile organic compounds (VOCs): tetrachloroethene (PCE), dichlorodifluoromethane, trichlorofluoromethane, 1,1-dichloroethane, and cis-1,2-dichloroethene.

Location: The Milliken Sanitary Landfill (MSL) is located in the City of Ontario along the northwest intersection of Milliken Avenue and Mission Boulevard. The MSL occupies an area of approximately 196 acres about one mile west of Interstate 15 and 1.2 miles southeast of Ontario International Airport. The MSL is owned and managed by the County of San Bernardino Solid Waste Management Division (County). The MSL TCE plume extends downgradient in a southwestern direction from the MSL site. As delineated by the Chino Basin Watermaster (Watermaster) in the 2016 State of the Basin Report,¹ the extent of the plume with detectable TCE concentrations greater than 0.5 µgl is about 2,500 feet at its widest point and 1,500 feet long. Exhibit 1 compares the location and extent of the TCE plume delineated by Watermaster (WEI, 2017) and by the County in its most recent (2015) delineation of the plume for total VOCs.²

Site History: The MSL was operated as a Class III Municipal Solid Waste Management Unit accepting non-hazardous waste from 1958 to March 1999. Since its closure, the County maintains the MSL drainage and erosion control systems to ensure, to the greatest extent possible, that ponding, infiltration, inundation, erosion, slope failure, and washout are prevented during peak storm flows. The drainage control facilities consist of a network of earthen berms, benches, asphalt down drains and V-channels, concrete channels, reinforced concrete pipes, and sedimentation basins.

As of 2017, the County leases a portion of the MSL property to PVN Milliken, LLC for a photovoltaic solar facility. The three-megawatt power generating solar facility consist of about 14.5 acres of solar panels located on the top and intermediate decks of the closed landfill. The footprint of the facility is shown on Exhibit 1.

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

• Waste Discharge Requirements (WDR) and Monitoring and Reporting Program (M&RP) Order No. 81-3 and subsequent WDRs and M&RPs Order Nos. 93-57, 94-17, 96-40, 98-89, and R8-2015-0040 (current). Requirements for the design, construction, and maintenance of run-on runoff drainage control systems at the landfill and the supportive monitoring and

² Geo-Logic Associates. (2015). County of San Bernardino Workplan: Investigation of Off-Site Impacts to Groundwater at the Milliken Sanitary Landfill. Prepared for County of San Bernardino Solid Waste Management Division. July 2015.



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

reporting requirements. Orders Nos. 93-57, 94-17, 96-4, and 98-99 are combined WRDs and M&RPs for all landfills in the Santa Ana Region.

- Cleanup and Abetment (CAO) Order No. 91-92. Required the MSL to correct drainage and erosion control deficiencies that existed on the landfill property.
- Cease and Desist Order No. 96-41. Required the MSL to submit a workplan with a schedule for the design and construction of a permanent and effective drainage and erosion control system and implemention of said workplan.
- WDRs R8-2002-0033, R8-2002-0085, R8-2013-0020 (current). General WDRs for the reinjection/percolation of extracted and treated groundwater within the Santa Ana Region.

Regulatory and Monitoring History: On February 26, 1981, the Regional Board adopted WDR No. 81-3 for the discharge of municipal solid wastes to land at the MSL. The WDR addressed the placement, monitoring, and reporting of waste at the landfill; however, it did not require groundwater monitoring. In 1987, groundwater monitoring began with the installation of five monitoring wells as part of the Solid Waste Assessment Test (SWAT) investigation³ at the MSL. Results from the initial monitoring indicated that there were multiple contaminants at concentrations significantly above background levels in the groundwater underlying and adjacent to the facility. The contaminants included multiple VOCs: dichlorodifluoromethane, 1,1-dichloroethene, PCE, and TCE. In 1989, the Regional Board requested that the County investigate the nature and extent of the VOC contamination. As a result, the County completed the Phase I Evaluation Monitoring Program (EMP)^{4,5} in 1994, which included the installation of ten additional monitoring wells; eight wells were installed downgradient from the facility, and two wells were installed upgradient. Elevated concentrations of TCE and PCE were detected in the new monitoring wells.

On June 24, 1991, the Regional Board issued CAO No. 91-92 to the County and other landfill operators in the region. The order required the correction of the drainage and erosion control deficiencies on the landfill property that could potentially cause the discharge of pollutants to groundwater. In 1994, the CAO was rescinded when the landfills achieved compliance, and concurrently, Order No. 94-17 was adopted to amend the WRDs for all landfills in the Santa Ana Region and combine them under one WRD and M&RP. In 1996, the Regional Board issued Cease and Desist Order No. 96-41⁶ for the MSL for failure to maintain the drainage and erosion control systems. In October 1999, the Regional Board approved the *Final Closure and Post Closure Maintenance Plan*⁷ for the MSL. The MSL began its multiphase closure process while still accepting waste. Phase one, termed the "East Mound Closure," was completed in March 1997, and was a pilot project to aid

 ⁶ Regional Board. (1996). Tentative Cease and Desist Order No. 96-41, for Violations of WDRs (Order No. 81-3, as Amended by Order No. 93-57, Order No. 94-17, and Order No. 96-40) at the Milliken Sanitary Landfill, San Bernardino County. April 5, 1996.
 ⁷ Project Navigator, Ltd. (1999). Final Postclosure Maintenance Plan, Milliken Sanitary Landfill. Prepared for the County of San Bernardino, Solid Waste System Division. September 1999.



³ IT Corporation. (1989). *Final Report Solid Waste Assessment Test Milliken Sanitary Landfill, Project No. 240275*. Prepared for County of San Bernardino Environmental Public Works Agency Solid Waste Management Department. June 1898.

⁴ Converse Consultants Inland Empire. (1994). Groundwater Contamination Evaluation, Milliken Sanitary Landfill.

⁵ Dames & Moore. (1995). Report, Phase I of Workplan Investigation of Groundwater Contamination Plume, Milliken Sanitary Landfill, Ontario California. Prepared for of San Bernardino Solid Waste Management Division. September 1995.

in the design of a soil cover for the rest of the landfill to prevent further contamination. Phase two, termed the "North and East Slope Closure," was completed in 1997 and included the construction of a six-foot thick monolithic cover over 45 acres of the landfill. The final phase of the landfill closure was completed in March of 2005 when the remaining 72 acres of the landfill were covered with a four-foot monolithic cover.

In response to the findings from the Phase I Evaluation Monitoring Program, 14 additional monitoring wells were constructed from 1994 to 1997 to further investigate the extent of contamination from the MSL. Under the direction of the Regional Board, the County completed a Phase II Evaluation Monitoring Program⁸ and an Engineering Feasibility Study⁹ in 1998. Groundwater flow modeling¹⁰ was also performed to support the selection of an appropriate remediation strategy. The Regional Board approved a remediation alternative that included (1) a pump and treat system for onsite contaminated groundwater and (2) monitored natural attenuation for offsite contaminated groundwater. Construction of the pump and treat system was completed on March 4, 1999 and consisted of 13 groundwater extraction wells located at the downgradient edge of the MSL site. Offsite monitoring for natural attenuation began at four offsite wells in 1998.

Beginning in 2000, groundwater-levels declined monotonically in the vicinity of the MSL, and by 2007, the groundwater-level dropped below the total depths of all 13 of the onsite extraction wells and five of the offsite monitoring wells. In response, the Regional Board requested that the County complete an updated feasibility study to update the evaluation of the effectiveness of the remediation strategy and the extent of the contaminant plume. In March 2013, the County finalized the *Updated Engineering Feasibility Study*¹¹ for the MSL (2013 Feasibility Study). The 2013 Feasibility Study evaluated several potential alternative treatments to mitigate the plume. The County concluded that monitored natural attenuation was the appropriate remediation alternative. This revised remediation alternative was approved by the Regional Board on May 15, 2013.

In 2015, the County submitted a work plan¹² to investigate the offsite impacts to groundwater near the landfill, which addressed the following requests from the Regional Board: collect gas samples to evaluate human health risks for commercial developments south of the landfill, update the 1998 groundwater flow model to incorporate current data and the fact that the groundwater pump-and-treat system is not in use, evaluate the need for additional corrective actions, and install additional downgradient monitoring wells. The County proposed (1) to model the plume using the computer

 ¹¹ Geo-Logic Associates. (2013). Updated Engineering Feasibility Study for Corrective Action. Milliken Sanitary Landfill County of San Bernardino, California. Prepared for the County of San Bernardino, Solid Waste System Division. March 2013.
 ¹² Geo-Logic Associates. (2015). County of San Bernardino Workplan: Investigation of Off-Site Impacts to Groundwater at the Milliken Sanitary Landfill.



⁸ Geo-Logic Associates. (1998). *Phase II Evaluation Monitoring Report, Milliken Sanitary Landfill*. Prepared for the County of San Bernardino, Solid Waste System Division. May 1998.

⁹ Geo-Logic Associates. (1998). *Engineering Feasibility Study, Milliken Sanitary Landfill*. Prepared for the County of San Bernardino, Solid Waste System Division. May 1998.

¹⁰ Geo-Logic Associates. (1999). Groundwater Flow Model, Milliken Sanitary Landfill. Prepared for the County of San Bernardino, Solid Waste System Division. February 1999.

software BIOCHLOR¹³ and (2) to increase the frequency of soil-gas monitoring from quarterly to four times per quarter to evaluate the feasibility of expanding the landfill gas collection system and converting the dry groundwater extraction wells to soil-vapor-extraction wells.

The County and PVN Milliken, LLC. submitted a revised *Final Postclosure Maintenance Plan*¹⁴ in November 2016 and a land use plan¹⁵ in December 2016 to modify the MSL's end use plan to include the solar plant on the landfill surface. The Regional Board approved the plans in January 2017.¹⁶ The revised post-closure maintenance plan provides a basis for plan inspection, maintenance, and monitoring of the MSL during the post closure maintenance period. The revised land use plan describes PVN Milliken's modification to the landfill, and its responsibility to maintain and monitor the land in a way that does not impact water quality.

Remedial Action Plan: As previously noted, the original remedial action plan that consisted of pump and treat and monitored natural attenuation had to be revised due to declining water levels. All 13 onsite extraction wells and five of the eight offsite monitoring wells dried up as groundwater elevations declined below well depths. This also caused the pump and treat system to halt operations beginning in 2007. The 2013 Feasibility Study identified monitored natural attenuation as the preferred remedial alternative and included certain 'trigger points' that would require additional mitigation measures to be initiated. Action is triggered:

1) when the total VOC concentration¹⁷ in samples from downgradient monitoring well M-8B exceeds the 1998 model-predicted VOC concentrations for two consecutive quarters, or

2) when a "statistically significant" increasing VOC concentration trend is identified over a one-year period after the landfill gas improvements have been implemented.

The trigger points were approved by the Regional Board in 2013.¹⁸ If additional remedial action is deemed necessary based on these trigger points, the most appropriate and cost-effective remediation measure will be evaluated at the time.

The 2013 Feasibility Study specified that if VOC concentrations increase to one-half of the 1998 model-predicted VOC concentrations in wells at the center of the plume, an additional off-site

¹⁸ Santa Ana Regional Water Quality Control Board. (2013). *Identification of Triggers for Additional Corrective Action System for the Milliken I ndfill, San Bernardino County.* Letter dated May 15, 2013.



 ¹³ Fate-and-transport natural attenuation modeling developed by the United States Environmental Protection Agency
 ¹⁴ Project Navigator, Ltd. (2016). *Final Postclosure Maintenance Plan Milliken Sanitary Landfill 36-AA-0054 Ontario, California*.

Prepared for the County of San Bernardino Department of Public Works – Solid Waste Management Division. on behalf of PVN Milliken, LLC. September 10, 1999. Revised June 2004. Revised 2014. Revised November 2016.
 ¹⁵ Project Navigator, Ltd. (2016). Land Use Plan for the Milliken Sanitary Landfill 36-AA-0054 Ontario, California, County of San Bernardino. Prepared on behalf of PVN Milliken, LLC for the County of San Bernardino Department of Public Works – Solid Waste Management Division. December 2016.

¹⁶ Santa Ana Regional Water Quality Control Board (2017). Approval of the Revised Final Post Closure Maintenance Plan and Land Use Plan for Milliken Landfill, Ontario, San Bernardino County. January 19, 2017.

¹⁷ Total VOC load equals the sum of all detected VOC concentrations in a given sample [µg]].

monitoring well would be necessary near well M-19 to monitor the attenuation of the plume in the lower aquifer as it moves away from the site.

Monitoring and Reporting: The County conducts groundwater, surface water, and soil monitoring at the MSL pursuant to a Corrective Action Program to address impacts to groundwater. The monitoring program consists of 26 groundwater monitoring wells, two piezometers, five soil-pore gas monitoring probes, three surface water monitoring stations, and one landfill gas condensate station. All monitoring wells that are not dry are sampled quarterly for groundwater quality and measured for groundwater levels. Surface-water quality sampling at three stations is conducted semi-annually in the first and third quarters. Soil-gas screening is performed quarterly, and landfill gas condensate sampling is conducted annually in the fourth quarter.

The groundwater data collected during the quarterly sampling events is statistically analyzed to identify increasing or decreasing trends of VOCs and other constituents of concern.

The quarterly groundwater monitoring data are also used to assess natural attenuation of the off-site extent of the plume. Monitoring well M-8B was used to calibrate the model and to determine the trigger point concentrations that would necessitate further corrective actions. Exhibit 1 shows the location of well M-8B. The model-predicted VOC concentrations over time are shown in the following table:

Trigger Points for Additional Corrective Action Measures (µgL)								
Year	Total VOC Load at M-8B*	Year	Total VOC Load at M- 8B*	Year	Total VOC Load at M-8B*			
2013	120	2027	123	2041	50			
2014	123	2028	117	2042	45			
2015	125	2029	112	2043	40			
2016	128	2030	106	2044	35			
2017	130	2031	101	2045	30			
2018	130	2032	96	2046	25			
2019	129	2033	90	2047	20			
2020	128	2034	85	2048	18			
2021	127	2035	80	2049	16			
2022	126	2036	75	2050	14			
2023	125	2037	70	2051	13			
2024	124	2038	65	2052	12			
2025	124	2039	60	2053	11			
2026	123	2040	55	2054	10			

*Total VOC load equals the sum of all detected VOC concentrations in a given sample [ugl].



Recent Activity:

The County's most recent monitoring event occurred in April 2018. The results of the monitoring event were reported in the second quarter of 2018 monitoring report submitted to the Regional Board in July 2018.¹⁹ During the 2018 second quarter sampling event groundwater-levels were measured at nine wells, and groundwater-quality samples were collected at eight wells. Fifteen monitoring wells, one piezometer, and all three surface water monitoring stations were dry. There was no methane detected in the soil-pore gas samples. The following summarizes the main results from the monitoring event:

- The TCE concentrations in all active monitoring wells have remained below the MCL as of April 2018 with the exception of M-8B, which exceeded the MCL with a concentration of 9.9 µgl on April 10, 2018.
- The total VOC concentration at well M-8B was 22 µgl, which is below the trigger threshold of 130 µgl. Thus, no additional correction action has been triggered.
- There were no significant changes in groundwater chemistry beneath the MSL, compared to the previous monitoring event, but there were three higher than historical maximum concentrations: nitrate as nitrogen at M-7B (24 milligrams per liter [mgl]), nitrate as nitrogen at M-15B (5 mgl respectively), and chloroform at well M-12B (0.51 µgl).
- No additional corrective actions have been triggered and monitoring for natural attenuation will continue under the existing approved protocols.

On March 9, 2018, the County submitted the *Evaluation of Off-Site Impacts to the Groundwater at the MSL*²⁰ to the Regional Board pursuant to the 2015 workplan. The report included an update of the 1998 groundwater-flow model to incorporate the non-operating groundwater pump-and-treat system and current monitoring data, and a summary of the soil-pore gas sampling at the dry extraction wells for the pump-and-treat system. Based on the results of the modeling and monitoring, the County proposes: 1) the installation of a new downgradient monitoring well (see Exhibit 1), and 2) a focused soil-gas investigation to determine whether soil gas mitigation is necessary. The Regional Board accepted the proposed actions on March 29, 2018.²¹

²¹ Regional Board (2018). Evaluation of Off-Site Impacts to Groundwater at the Milliken Sanitary Landfill, San Bernardino County Global ID:L1000745844. March 29, 2018. Letter from Keith Person on behalf of Cindy Li.



¹⁹ Geo-Logic. (2018). County of San Bernardino Water Quality Monitoring Report, Second Quarter 2018 Monitoring Period, Milliken Sanitary Landfill. Submitted by County of San Bernardino Solid Waste Management Division, July 2018.

²⁰ Geo-Logic. (2018). Evaluation of Off-Site Impacts to Groundwater at the Milliken Sanitary Landfill County of San Bernardino, California. Prepared for County of San Bernardino Solid Waste Management Division. March 2018.



Maximum TCE Concentration (µg/l) July 2011 to June 2016 (Delineated by Watermaster in the 2016 State of the Basin Report)

≤ 5
> 5 to ≤ 10
> 10 to ≤ 20
> 20 to ≤ 50

Contours of Total VOCs Concentrations (µgl) as delineated by the County in 2015

County of San Bernardino Monitoring Wells

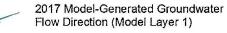
Sampled in 2018*

Dry in 2018*

Proposed New Well Location

△ Surface Water Monitoring Station (Dry)

Extent of Solar Facility - Installed in 2017



Milliken Sanitary Landfill

* Wells are labeled by well name if mentioned in the report



Prepared by:



Author: SO Date: 10/4/2018 Name: 20181002_MillikenPlume_Status_Ex1





Milliken Sanitary Landfill TCE Plume

Plume Status Report

Exhibit 1

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Annual Status Report Stringfellow Contaminant Plume October 2018

Contaminants: The primary contaminants at the Stringfellow site are perchlorate, trichloroethene (TCE), and chloroform. The maximum contaminant level (MCL) for perchlorate and TCE are 6 micrograms per liter (μ gl), and 5 μ gl, respectively. Chloroform does not have a MCL but is assessed to a cleanup level¹ of 6 μ gl for the Stringfellow site. The maximum concentrations detected in groundwater samples collected from site wells over the five-year period from July 2013 to June 2018 for perchlorate, TCE, and chloroform and are shown in the table below. The data are reported in two general groups: 1) an aggregate of wells in Zones 1-3 (i.e. zones within Pyrite Canyon) and 2) wells within Zone 4 (i.e. downgradient of Pyrite Canyon).

Contaminant	MCL or Cleanup Level (µgł)	Maximum Concentration 2013-2018 (µgl)					
Zones 1-3							
Perchlorate	6	14,000					
TCE	5	330,000					
chloroform	6	11,000					
	Zone 4						
Perchlorate	6	1,600					
TCE	5	22					
chloroform	6	21					

Other contaminates at the site include, other volatile organic compounds (VOCs), semi-volatile organic compounds (SOCs), pesticides, para-chlorobenzenesulfonic acid, n-nitrosodimethylamine, and selected heavy metals. Additionally, the groundwater under the former evaporation ponds has a pH of <4.

Location: The former Stringfellow Landfill site is located within the eastern portion of the Chino Basin in Pyrite Canyon about one mile north of the community of Glen Avon in the Jurupa Valley. Pyrite Canyon overlies Holocene and Pleistocene unconsolidated alluvium and alluvial fan deposits, and bound by the granodiorite and metasedimentary units of the Jurupa Mountains.² The site is geographically divided into four groundwater zones in consideration of various operational and remediation activities. These zones include:

• Zone 1. On-site/Upper Mid-Canyon Area. Includes the original 17-acre disposal facility in the northern most part of Pyrite Canyon upgradient of a clay barrier (Zone 1A) and an area extending 600 feet south of the clay barrier (Zone 1B). The clay barrier was constructed in 1980 downgradient of the evaporation ponds to mitigate migration of subsurface liquids.

² Dibblee, T.W., and Minch, J.A. (2004). Geologic map of the Riverside West/south 1/2 of Fontana quadrangles, San Bernardino and Riverside County, California: Dibblee Geological Foundation, Dibblee Foundation Map DF-128, scale 1:24,000



 $^{^1}$ Cleanup levels were established for TCE (5 μgl and equal to the MCL) and chloroform (6 μgl) in the Interim Records of Decision 4 by the United State Environmental Protection Agency

- Zone 2. Mid-Canyon Area. Includes the middle portion of the Pyrite Canyon. Contains a line of extraction wells and the Pretreatment Plant
- Zone 3. Lower Canyon Area. Extends southward from just south of the mid-canyon extraction wells to just north of Highway 60. Includes the Lower Canyon Treatment Facility
- Zone 4. A Residential community and light industrial area in the City of Jurupa Valley, extending from Highway 60 to immediately north of the Santa Ana River (approximately 22,000 to 24,500 feet southwest of the former disposal facility in Zone 1A). Includes the Community Well Head Treatment System

The general extent of plumes originating from the Stringfellow site with detectable concentrations of perchlorate, TCE, and chloroform greater than their MCLs or cleanup levels are shown in Exhibit 1. These delineations are based on the 2016 *Annual Groundwater Monitoring and Remedy Effectiveness Evaluation Report*³. The TCE and chloroform plumes are significantly less extensive than the perchlorate plume and have the following approximate extents:

- The perchlorate plume ≥ 6 µgl extends from Zone 1 approximately 24,000 feet to the south/southwest to Zone 4. The perchlorate plume varies in width between approximately 250 and 3,200 feet. Two smaller perchlorate plumes are also shown on Exhibit 1. The first is approximately 1,400 feet long and 200 feet wide and is located near the midpoint and slightly east of the main plume. The second is located slightly west of the distal end of the main plume and is approximately 3,900 feet long and 1,000 feet wide.
- The TCE plume ≥ 5 µgl is approximately 3,100 feet long and 300 feet wide and extends from Zone 1 to the midpoint of Zone 3 near the Lower Canyon Treatment Facility. A smaller (approximately 1,000 feet by 250 feet) disconnected TCE plume is approximately 3,400 feet further downgradient in Zone 4.
- The chloroform plume \geq 6 µgl is approximately 2,000 feet long and 300 feet wide and is primarily restricted to Zones 1 and 2.

Site History: Stringfellow Quarry Company Inc. operated the site as a 'Class I' hazardous waste disposal facility from 1956 to 1972 pursuant to the issuance of a land use variance by the Riverside County Planning Commission in 1952. During this time, approximately 34 million gallons of industrial liquid waste—derived primarily from electroplating, metal finishing, pesticide production, and aerospace propulsion industries—were deposited in unlined evaporation ponds, occupying 17 acres



³ Kleinfelder. (2017). 2016 Annual Groundwater Monitoring and Remedy Effectiveness Evaluation Report Stringfellow Superfund Site. Prepared for California Environmental Protection Agency. November 2017.

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of the site⁴ (located within *Zone 1a* on Exhibit 1). In addition to evaporation ponds, liquid wastes were sprayed into the air to expedite evaporative processes.

In 1975, following cessation of operations at the Stringfellow site, the California Regional Water Quality Control Board, Santa Ana Region initiated response actions and site investigation studies. Since that time, over 45 phases of investigation, feasibility testing, and remedial actions have been performed by various entities at the site. A record of these activities and associated reports can be found on the Department of Toxic Substances Control (DTSC) Envirostor website (https://www.envirostor.dtsc.ca.gov/public/).

Key Regulatory Decisions and Orders: In October 1981, the Stringfellow site was placed on the United States Environmental Protection Agency (USEPA) Interim Priorities List of Hazardous Waste Sites. An Initial Record of Decision (ROD 1) was published by USEPA on July 22, 1983. On September 8, 1983, the Stringfellow site was placed on the USEPA's final National Priorities List (NPL) as a Superfund site. Three additional RODs were published in 1984, 1987, and 1990. The following is a summary of the four RODs and major remedial actions or objectives set forth therein.

<u>ROD 1</u> (USEPA 1983).⁵ The remedial activities assigned to the DTSC for oversight included: fencing of the site, erosion control, hauling and disposal of hazardous material, continued offsite groundwater mitigation, and completion of a Remedial Investigation/Feasibility Study (RIFS). In conjunction with the DTSC-led activities, the EPA assumed oversight of the following Superfund management activities: i) preliminary groundwater sampling, ii) installation of new monitoring wells, and iii) the creation of a Fast Track RIFS.

<u>ROD 2</u> (USEPA 1984).⁶ The remedial action implemented as part of ROD 2 included the construction of a groundwater pre-treatment plant. Construction of the Pre-Treatment Plant in the mid-canyon area (located within *Zone 2* on Exhibit 1) began in January 1985 and was completed in November 1985. The remedial action also required the evaluation of treatment technologies that are associated with the removal of heavy metals and organics in groundwater.

<u>ROD 3</u> (USEPA 1987).⁷ Two additional remedial actions were implemented as part of ROD 3. The first remedial action consisted of the construction of an up-gradient surface-water diversion north of the original contamination site (within *Zone 1*.*A* on Exhibit 1). The second consisted of the construction of groundwater extraction wells to serve as a barrier to groundwater-flow and an

⁷ United States Environmental Protection Agency (USEPA). (1987). Record of Decision: Stringfellow Acid Pits, Summary of Remedial Alternative Selection (Early Implementation Action). June 1987



⁴ U.S. Army Corps of Engineers. (2016). Fifth Five-Year Review Report for Stringfellow Superfund Site Riverside County, California. September 2016

⁵ United States Environmental Protection Agency. (1983). EPA Superfund, Record of Decision: Stringfellow Acid Pits Site. USEPA ID: CAT080012826, OU01, Mira Loma, California. July 22.

⁶ United States Environmental Protection Agency (USEPA). (1984). Record of Decision, Stringfellow Acid Pits, Summary of Remedial Alternative Selection. July 1984

accompanying treatment facility in the southern portion of the canyon, the Lower Canyon Treatment Facility (located within *Zone 3* on Exhibit 1).

<u>ROD 4</u> (USEPA 1990).⁸ The fourth ROD delineated the site into four geographic zones: *Zone 1* is the upper-canyon area, including the original 17-acre disposal area; *Zone 2* is the mid-canyon area; *Zone 3* is the lower-canyon area; and *Zone 4* is the community of Glen Avon (general area below the 60 freeway). The remedial action consisted of the installation of a groundwater extraction and treatment system, the Community Wellhead Treatment Facility in *Zone 4*, and the dewatering of *Zone 1* using extraction wells.

A final ROD outlining final remedial action objectives for *Zones 1, 2, ,3* and 4 is expected to be published in 2021.

Remedial Action: The primary remedial action implemented for the RODs is groundwater extraction and treatment system, consisting of a network of over 70 extraction wells throughout Zones 1-4 and four treatment plants. The treatment plants include the Pre-Treatment Plant, the Lower Canyon Treatment Facility, and the Lower Canyon Treatment Facility, and the Pyrite Canyon Treatment Facility. Exhibit 1 shows the location of the four treatment plants for the groundwater extraction and treatment system

<u>Pre-Treatment Plant/ Pyrite Canyon Treatment.</u> The Pre-Treatment Plant treats contaminated groundwater recovered from extraction wells located in *Zone 1* and *Zone 2*. Groundwater is treated for low pH, pesticides, metals, and VOCs. The plant treats and average of about 45,000 gallons per day (gpd) or 50 acre-feet per year (afy). Treated water is stored and then released to the Inland Empire Brine Line and the Orange County Sanitation Districts wastewater collection, treatment, and disposal facilities. Some of the treated effluent is used for utility water at the plant. In 2017 the Pre-Treatment Plant was replaced by the newly constructed Pyrite Canyon Treatment Facility located just north of the Pre-Treatment Plant in *Zone 1B*. The new Pyrite Canyon Treatment was designed to replace the aging infrastructure of the existing Pre-Treatment Plant and to provide better reliable long-term treatment capabilities.

Lower Canyon Treatment Facility. This plant treats contaminated groundwater from extraction wells in *Zone 3* and *Zone 4* for VOCs. Effluent from the Lower Canyon Treatment Facility is piped to, and stored at the Pre-Treatment Plant, than released to the Inland Empire Brine Line. The plant treats and average of about 90,700 gpd (102 afy).

<u>Community Wellhead Treatment System.</u> This plant treats for VOCs and perchlorate in extracted groundwater from two wells in *Zone 4*. Effluent from the treatment system is discharged to Pyrite

⁸ United States Environmental Protection Agency (USEPA). (1990). Record of Decision: Stringfellow Hazardous Waste Site. September 30.



Creek for used for irrigation by local residents. The plant treats and average of about 15,000 gpd (17 afy).

Monitoring and Reporting Program: Currently, 579 wells are actively monitored in Zones 1 through 4 at the Stringfellow site. The number and type of wells monitored in each zone, along with the depth of sampling, is summarized below in Table 1. The groundwater monitoring program is implemented in accordance with the 2001 *Groundwater Monitoring Program Work Plan⁹* and the 2015 *Final Quality Assurance Project Plan: Routine Groundwater Monitoring and Zone 4 DGI Investigation¹⁰*. In general, new wells are sampled quarterly for two years and then incorporated into the annual sampling schedule.

Table 1. Summary of Stringfellow Monitoring Sites by Zone, Well Type, and Screened Interval

Excerpted from: 2016 Annual Groundwater Monitoring and Remedy Effectiveness Evaluation Report²

		Well Type				Screened In			
	Sub-Total	MW	EW	ΡZ	ES	ws	А	D	В
Zone 1A	130	84	39	0	7	-	32	72	26
Zone 1B	57	36	10	11	0	-	18	21	18
Zone 2	35	27	8	0	0	-	15	15	5
Zone 3	130	118	12	0	0	Ξ	52	62	16
Zone 4	191	147	4	36	0	4	155	30	6
USEPA Areas 1/2	36	36	0	0	0	0	2	20	14
Total	579	448	73	47	7	4	274	220	85

Notes:

EW = extraction well, MW = monitoring well, PZ = piezometer, ES = extraction sump, WS = water supply well, A = alluvium, D = weathered (decomposed) bedrock, B = unweathered bedrock

DTSC initiated surface water sampling in 2005 to evaluate perchlorate concentrations in storm water runoff in Pyrite Creek and tributary channels. Currently, surface water sampling and reporting is executed pursuant to the *Final Surface Water Sampling and Analysis Plan*¹¹ and is performed during

¹¹ Geo-Logic Associates (2016). Final Surface Water Sampling and Analysis Plan Stringfellow Superfund Site. Prepared for California Department of Toxic Substances Control. July 2016



⁹ Geo-Logic Associates (2001). Groundwater Monitoring Program Work Plan. April 2001.

¹⁰ Laboratory Data Consultants (2015). Final Quality Assurance Project Plan: Routine Groundwater Monitoring and Zone 4 DGI Investigation. November 2015.

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qualifying storm events which are classified using the following criteria; i) at least 72 hours of dry weather have elapsed since a previous storm event, and ii) a storm event produces sufficient runoff during daylight hours to perform sampling.

DTSC reports on the monitoring and remediation efforts in Annual Groundwater Monitoring Reports, Quarterly/Non-Routine Monitoring Reports, Monthly Operation and Maintenance Reports, Biennial and Annual Groundwater Remedy Effectiveness Evaluation Reports, and other technical memoranda and non-routine reports.

A final Site-Wide Groundwater and Surface Water Monitoring Plan¹² was published on July 19, 2016. The plan was created pursuant to section 3.3 of the Statement of Work, Agreement to Perform Response Action¹³ between the DTSC and the EPA under CERCLA (Docket No. 09-2014-0003). It outlines a comprehensive protocol for ongoing data collection and analysis of groundwater and surface water samples, including scheduled updates to the plan in five-year intervals.

The Chino Basin Watermaster (Watermaster) collects all relevant groundwater and surface water data from the DTSC's Stringfellow Interface for Data and Documents (SIDD database) on an annual basis as part of its Chino Basin Data Collection effort. These data are periodically used by Watermaster to support its basin management initiatives.

Recent Activity: The following is a summary of recent key activities that have occurred since July 1, 2017:

- On September 8, 2017 DTSC submitted a proposal to USEPA and approved September 15, 2018 to modify extraction wells OW-50A1 and OW-55A located in Zone 1A to complete dewatering of alluvium pursuant to ROD 4. The proposal also included plans to install 17 new nested monitoring wells in the following zones: 1B (OW-111A, OW-111D, OW-111B, OW-112D, OW-112B, OW-113D, OW-113B, OW-114D, and OW-114B), 3 (OW-65D2), and 4 (FC-1015A, FC-1015D, FC-1054A, FC-1054D, FC-1110A, and FC-1213A). At the time of this report, all modifications and installations have been completed.
- The Final 2016 Annual Groundwater Monitoring and Remedy Effectiveness Evaluation Report¹⁷ was submitted to DTSC on November 30, 2017 and concludes that the remedial actions have been successful in meeting the RAOs and the spatial extent of migration of all contaminants of concern in groundwater is not increasing.
- In March 2018, Geo-Logic Associates submitted the *Data Gap Investigation Monitored Natural Attenuation (MNA) January 2017 Sampling Report*¹⁴. Groundwater samples were collected from

¹⁴ Geo-Logic Associates (2018). Data Gap Investigation Monitored Natural Attenuation (MNA) January 2017 Sampling Report. March 2018.



¹² Kleinfelder. (2016). Final Sitewide Groundwater and Surface Water Monitoring Plan and Sampling and Analysis Plan Stringfellow Superfund Site. Prepared for California Environmental Protection Agency. July 2016

¹³ US EPA (2014). Statement of Work Agreement to Perform Response Action Stringfellow Acid Pits Superfund Site, Jurupa Valley, California. March 10, 2014.

16 new and existing Zone 4 wells to evaluate the effectiveness of MNA as a remedial approach. No evaluation of the data was presented in the document.

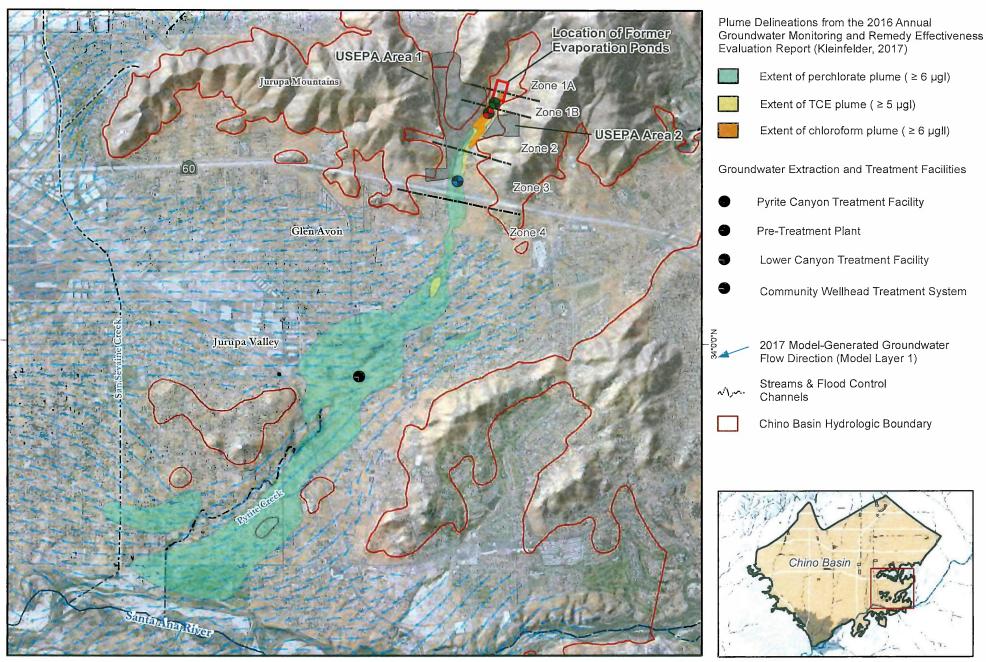
- The 2017-2018 Annual Surface Water Sampling and Analysis Report¹⁵ was completed June 2018. The maximum perchlorate concentration at a surface water site from January-March 2018 was 9.8 μgl.
- On June 15, 2018 Ramboll submitted a technical memorandum¹⁶ proposing a dye tracer study of the Zone 1 barrier system. The study is designed to address the recommendation in the *Fifth Five Year Review Report*⁴⁷ for further evaluation of the apparent hydraulic connection under the clay barrier dam and to assess the magnitude of groundwater flow through interconnected bedrock fracture zones beneath said barrier.
- The USEPA is currently engaged in two groundwater and soil investigations, referred to as the Area 1 and Area 2 investigations (see Exhibit 1). The objective of these investigations is to identify additional sources of perchlorate contamination in Pyrite Canyon. Field work for both projects has commenced and the investigation is ongoing.
- The Lower Canyon Treatment Facility and Pretreatment Plant are currently non-operational but can be re-activated if needed. The Pyrite Canyon Treatment Facility and Community Wellhead Treatment System are fully operational and have treated a combined total flow of 23,537,499 gallons of water from site extraction wells.



¹⁵ Geo-Logic Associates (2018). 2017-2018 Annual Surface Water Sampling and Analysis Report Stringfellow Superfund Site. Prepared for United States Environmental Protection Agency. June 2018

¹⁶ Ramboll (2018). Recommended Zone 1 Barrier System Tracer Study, Stringfellow Superfund Site. June 2015.

¹⁷ US Army Corps of Engineers (2016). Fifth Five-Year Review Report for Stringfellow Superfund Site. September 2016.



Prepared by:



Author: RT Date: 10/3/2018 Name: 20181002_SFPlume_Status_Ex1_2 0 0.25 0.5 1 Miles



Plume Status Report

Stringfellow Contaminant Plume

Exhibit 1