

CHINO BASIN WATERMASTER



NOTICE OF MEETING

Thursday, December 19, 2013

9:00 a.m. – Advisory Committee Meeting

11:00 a.m. – Board Meeting

LUNCH WILL BE SERVED

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

CHINO BASIN WATERMASTER

Thursday, December 19, 2013

9:00 a.m. – Advisory Committee Meeting

11:00 a.m. – Board Meeting

AGENDAS

CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

A. MINUTES

1. Advisory Committee Meeting held on November 21, 2013

**CHINO BASIN WATERMASTER
ADVISORY COMMITTEE MEETING**

9:00 a.m. – December 19, 2013

WITH

Ms. Rosemary Hoerning, Chair

Mr. Brian Geye, Vice-Chair

At The Offices Of

Chino Basin Watermaster

9641 San Bernardino Road

Rancho Cucamonga, CA 91730

AGENDA

CALL TO ORDER

AGENDA - ADDITIONS/REORDER

I. CONSENT CALENDAR

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

A. MINUTES

1. Minutes of the Advisory Committee Meeting held November 21, 2013 (*Page 1*)

B. FINANCIAL REPORTS

1. Cash Disbursements for the Month of October 2013 (*Page 9*)
2. Watermaster VISA Check Detail for the Month of October 2013 (*Page 22*)
3. Combining Schedule for the Period July 1, 2013 through October 31, 2013 (*Page 25*)
4. Treasurer's Report of Financial Affairs for the Period October 1, 2013 through October 31, 2013 (*Page 28*)
5. Budget vs. Actual Report for the Period July 1, 2013 through October 31, 2013 (*Page 32*)

C. 2012 ANNUAL REPORT OF THE LAND SUBSIDENCE COMMITTEE (*Page 45*)

Recommend to the Watermaster Board to adopt the 2012 Annual Report of the Land Subsidence Committee, along with filing a copy with the Court.

D. ANNUAL FINDING OF SUBSTANTIAL COMPLIANCE WITH THE RECHARGE MASTER PLAN

Recommend to the Watermaster Board to adopt the finding in the Wildermuth Report that Watermaster is in substantial compliance with the Recharge Master Plan. (*Page 92*)

II. BUSINESS ITEMS

III. REPORTS/UPDATES

A. LEGAL COUNSEL REPORT

1. December 13, 2013 Hearing
2. City of Fontana - Resolution Discussion
3. CDA Request

B. CFO REPORT

- 1. Assessment Invoices
- 2. Audit Report

C. GM REPORT

- 1. Request for Overlying (Non-Agricultural) Pool Available Water Per Judgment Exhibit "G" *(Page 115)*
- 2. Revised Hydraulic Control Monitoring Plan
- 3. Update on Safe Yield Recalculation
- 4. Other

D. INLAND EMPIRE UTILITIES AGENCY

- 1. MWD Update (Oral)
- 2. Integrated Resource Plan Update (Oral)
- 3. Community Outreach/Public Relations Report *(Page 117)*
- 4. State and Federal Legislative Reports *(Page 119)*

E. OTHER METROPOLITAN MEMBER AGENCY REPORTS

IV. INFORMATION

- 1. Cash Disbursements for November 2013 *(Page 131)*

V. COMMITTEE MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

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

VIII. FUTURE MEETINGS AT WATERMASTER

Wednesday, December 18, 2013	1:30 p.m.	Safe Yield Recalculation Workshop #3
Thursday, December 19, 2013	8:00 a.m.	IEUA DYY Meeting
Thursday, December 19, 2013	9:00 a.m.	Advisory Committee Meeting
Thursday, December 19, 2013	10:00 a.m.*	Joint IEUA/CBWM Projects Update Meeting
Thursday, December 19, 2013	11:00 a.m.	Watermaster Board Meeting (Rescheduled)
Friday, December 20, 2013	1:00 p.m.	City of Fontana Motion – Resolution Discussion
Thursday, January 9, 2014	9:00 a.m.	Annual & Election Appropriative Pool Committee Meeting
Thursday, January 9, 2014	11:00 a.m.	Annual & Election Non-Agricultural Pool Committee Meeting
Thursday, January 9, 2014	1:30 p.m.	Annual & Election Agricultural Pool Committee Meeting
Thursday, January 16, 2014	8:00 a.m.	IEUA DYY Meeting
Thursday, January 16, 2014	9:00 a.m.	Annual Advisory Committee Meeting
Thursday, January 16, 2014	10:00 a.m.*	Joint IEUA/CBWM Projects Update Meeting
Thursday, January 23, 2014	11:00 a.m.	Annual & Election Watermaster Board Meeting

***Note:** The Joint IEUA/CBWM Projects Update Meeting will take place immediately following the Advisory Committee Meeting.

ADJOURNMENT

**CHINO BASIN WATERMASTER
WATERMASTER BOARD MEETING**

11:00 a.m. – December 19, 2013

WITH

Mr. Bob Kuhn, Chair

Mr. Jim Curatalo, Vice-Chair

At The Offices Of

Chino Basin Watermaster

9641 San Bernardino Road

Rancho Cucamonga, CA 91730

AGENDA

CALL TO ORDER

PLEDGE OF ALLEGIANCE

RECOGNITION OF OUTGOING BOARD MEMBERS: JIM CURATALO AND PETER ROGERS

AGENDA - ADDITIONS/REORDER

I. CONSENT CALENDAR

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

A. MINUTES

1. Minutes of the Watermaster Board Meeting held November 21, 2013 *(Page 5)*

B. FINANCIAL REPORTS

1. Cash Disbursements for the Month of October 2013 *(Page 9)*
2. Watermaster VISA Check Detail for the Month of October 2013 *(Page 22)*
3. Combining Schedule for the Period July 1, 2013 through October 31, 2013 *(Page 25)*
4. Treasurer's Report of Financial Affairs for the Period October 1, 2013 through October 31, 2013 *(Page 28)*
5. Budget vs. Actual Report for the Period July 1, 2013 through October 31, 2013 *(Page 32)*

C. 2012 ANNUAL REPORT OF THE LAND SUBSIDENCE COMMITTEE *(Page 45)*

Adopt the 2012 Annual Report of the Land Subsidence Committee, along with filing a copy with the Court.

D. ANNUAL FINDING OF SUBSTANTIAL COMPLIANCE WITH THE RECHARGE MASTER PLAN

Adopt the finding in the Wildermuth Report that Watermaster is in substantial compliance with the Recharge Master Plan. *(Page 92)*

E. ACWA STATEWIDE WATER ACTION PLAN *(Page 99)*

Adopt Resolution 13-08 in Support of ACWA's Statewide Water Action Plan for California.

II. BUSINESS ITEMS

III. REPORTS/UPDATES

A. LEGAL COUNSEL REPORT

1. December 13, 2013 Hearing
2. City of Fontana - Resolution Discussion
3. CDA Request

B. CFO REPORT

1. Assessment Invoices

C. GM REPORT

1. New Employee Introduction
2. Request for Overlying (Non-Agricultural) Pool Available Water Per Judgment Exhibit "G" (*Page 115*)
3. Revised Hydraulic Control Monitoring Plan
4. Update on Safe Yield Recalculation
5. Minor Appropriator Representative Appointment to the Board for 2014 and 2015
6. Other

IV. INFORMATION

1. Cash Disbursements for November 2013 (*Page 131*)
2. Update on Wineville Proof of Concept Project (*Page 142*)

V. BOARD MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

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

1. Potential Litigation (One matter)
2. City of Fontana Motion

VIII. FUTURE MEETINGS AT WATERMASTER

Wednesday, December 18, 2013	1:30 p.m.	Safe Yield Recalculation Workshop #3
Thursday, December 19, 2013	8:00 a.m.	IEUA DYY Meeting
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Thursday, January 16, 2014	9:00 a.m.	Annual Advisory Committee Meeting
Thursday, January 16, 2014	10:00 a.m.*	Joint IEUA/CBWM Projects Update Meeting
Thursday, January 23, 2014	11:00 a.m.	Annual & Election Watermaster Board Meeting

***Note:** The Joint IEUA/CBWM Projects Update Meeting will take place immediately following the Advisory Committee Meeting.

ADJOURNMENT

DRAFT MINUTES
CHINO BASIN WATERMASTER
ADVISORY COMMITTEE MEETING
November 21, 2013

The Advisory Committee meeting was held at the offices of the Chino Basin Watermaster, 9641 San Bernardino Road, Rancho Cucamonga CA, on November 21, 2013.

ADVISORY COMMITTEE MEMBERS PRESENT

APPROPRIATIVE POOL

Rosemary Hoerning, Chair
Ben Lewis
Teri Layton
Robert Young
Seth Zielke
Scott Burton
Dave Crosley
Jo Lynne Russo-Pereyra
Justin Scott-Coe
Ron Craig
Darron Poulsen

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

AGRICULTURAL POOL

Jeff Pierson
Pete Hall

Agricultural Pool – Crops
Agricultural Pool – State of California – CIM

NON-AGRICULTURAL POOL

Brian Geye, Vice-Chair
Ken Jeske

Auto Club Speedway
California Steel Industries

BOARD MEMBERS PRESENT

Peter Rogers
Robert "Bob" Craig
Bob Bowcock

City of Chino Hills
Jurupa Community Services District
Vulcan Materials Company (Calmat Division)

WATERMASTER STAFF PRESENT

Peter Kavounas
Danielle Maurizio
Joseph Joswiak
Anna Truong

General Manager
Assistant General Manager
Chief Financial Officer
Recording Secretary

WATERMASTER CONSULTANTS PRESENT

Brad Herrema

Brownstein Hyatt Farber Schreck, LLP

OTHERS PRESENT WHO SIGNED IN

Sheri Rojo
Todd Corbin
Terry Catlin
Rick Rees
Ryan Shaw
Manny Martinez
John Bosler

Fontana Water Company
Jurupa Community Services District
Inland Empire Utilities Agency
State of California – CIM
City of Ontario
Monte Vista Water District
Cucamonga Valley Water District

CALL TO ORDER

Chair Hoerning called the Advisory Committee meeting to order at 9:02 a.m.

AGENDA - ADDITIONS/REORDER

There were no additions or reorders.

I. CONSENT CALENDAR

A. MINUTES

1. Minutes of the Advisory Committee Meeting held October 17, 2013

B. FINANCIAL REPORTS

1. Cash Disbursements for the Month of September 2013
2. Watermaster VISA Check Detail for the Month of September 2013
3. Combining Schedule for the Period July 1, 2013 through September 30, 2013
4. Treasurer's Report of Financial Affairs for the Period September 1, 2013 through September 30, 2013
5. Budget vs. Actual Report for the Period July 1, 2013 through September 30, 2013

WESTERN MUNICIPAL WATER DISTRICT ASSIGNMENT OF DESALTER PRODUCTION

Receive and file notice of assignment of Western Municipal Water District Desalter production.

(0:00:46)

Motion by Mr. Robert Young, second by Mr. Jeff Pierson, and by unanimous vote

Moved to approve Consent Calendar as presented

II. BUSINESS ITEMS

A. CHINO BASIN WATERMASTER 2013-2014 ASSESSMENT PACKAGE

(0:03:26)

Motion by Mr. Jeff Pierson, second by Ms. Teri Layton, and by unanimous vote

Moved to approve the Fiscal Year 2013-2014 Assessment Package as presented.

B. LEVYING REPLENISHMENT AND ADMINISTRATIVE ASSESSMENTS

(0:04:03)

Motion by Mr. Jeff Pierson, second by Mr. Scott Burton, and by unanimous vote

Moved to approve Resolution 13-07 as presented.

C. PHYSICAL SOLUTION TRANSFER RATE SUBSTITUTION

(0:05:01)

Motion by Mr. Ken Jeske, second by Ms Teri Layton, and by unanimous vote

Moved to approve the proposed FY 2013-14 substitute Physical Solution Transfer rate, and approve Watermaster legal counsel's filing of motion for Court approval of the same.

III. REPORTS/UPDATES

A. LEGAL COUNSEL REPORT

- 1. Watermaster RMPU Amendment Motion
- 2. City of Fontana Motion
- 3. CDA Request

(0:05:35) Mr. Herrema gave a report.

B. CFO REPORT

C. GM REPORT

- 1. Update on Safe Yield Recalculation
- 2. Pool and Board Representation

(0:09:32) Mr. Kavounas gave a report stating that Watermaster is awaiting communication from the Appropriative Pool to determine when the next Safe Yield Recalculation Workshop can be held. Watermaster will announce the date once it has been established. He also announced that Watermaster is looking to update its records and will be sending out letters to confirm the appointed representative and any alternate(s) from the Appropriative and Non-Ag Pools as well as the agencies that appoint to the Watermaster Board.

D. INLAND EMPIRE UTILITIES AGENCY

- 1. Status of San Sevaine Property
- 2. MWD Update (Oral)
- 3. Integrated Resource Plan Update (Oral)
- 4. State and Federal Legislative Reports
- 5. Community Outreach/Public Relations Report

(0:10:44) Mr. Grindstaff gave a report.

E. OTHER METROPOLITAN MEMBER AGENCY REPORTS

IV. INFORMATION

- 1. Cash Disbursements for October 2013

V. COMMITTEE MEMBER COMMENTS

(0:19:30) Mr. Ron Craig made a comment about MWD and imported water supplies stating that DWR just announced their initial allocation of state water project water of 5% and that's a foreboding number, but everyone in the room knows the percentage will be updated through the winter season.

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

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

VIII. FUTURE MEETINGS AT WATERMASTER

Thursday, November 21, 2013	8:00 a.m.	IEUA DYY Meeting
Thursday, November 21, 2013	9:00 a.m.	Advisory Committee Meeting
Thursday, November 21, 2013	10:00 a.m.*	Joint IEUA/CBWM Projects Update Meeting
Thursday, November 21, 2013	11:00 a.m.	Watermaster Board Meeting

Tuesday, November 26, 2013	9:00 a.m.	GRCC Meeting
Thursday, December 12, 2013	9:00 a.m.	Appropriative Pool Committee Meeting
Thursday, December 12, 2013	11:00 a.m.	Non-Agricultural Pool Committee Meeting
Thursday, December 12, 2013	1:30 p.m.	Agricultural Pool Committee Meeting
Thursday, December 19, 2013	8:00 a.m.	IEUA DYY Meeting
Thursday, December 19, 2013	9:00 a.m.	Advisory Committee Meeting
Thursday, December 19, 2013	10:00 a.m.*	Joint IEUA/CBWM Projects Update Meeting
Thursday, December 19, 2013	11:00 a.m.	Watermaster Board Meeting

***Note:** The Joint IEUA/CBWM Projects Update Meeting will take place immediately following the Advisory Committee Meeting.

ADJOURNMENT

Chair Hoerning adjourned the Advisory Committee meeting at 9:23 a.m.

Secretary: _____

Minutes Approved: _____

CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

A. MINUTES

1. Board Meeting held on
November 21, 2013

DRAFT MINUTES
CHINO BASIN WATERMASTER
WATERMASTER BOARD MEETING

November 21, 2013

The Watermaster Board meeting was held at the offices of the Chino Basin Watermaster, 9641 San Bernardino Road, Rancho Cucamonga, CA on November 21, 2013.

WATERMASTER BOARD MEMBER PRESENT

David DeJesus, for Bob Kuhn, Chair
Jeff Pierson, for Geoffrey Vanden Heuvel
Terry Catlin, for Steve Elie
Charles Field
Robert "Bob" Craig
Bob Bowcock
Paul Hofer

Three Valleys Municipal Water District
Agricultural Pool – Crops
Inland Empire Utilities Agency
Western Municipal Water District
Jurupa Community Services District
Vulcan Materials Company (Calmat Division)
Agricultural Pool – Crops

WATERMASTER BOARD MEMBERS ABSENT

Bob Kuhn
Geoffrey Vanden Heuvel
Jim Curatalo
Steve Elie
Peter Rogers

Three Valleys Municipal Water District
Agricultural Pool – Dairy
Fontana Union Water Company
Inland Empire Utilities Agency
City of Chino Hills

WATERMASTER STAFF PRESENT

Peter Kavounas
Danielle Maurizio
Joseph Joswiak
Anna Truong

General Manager
Assistant General Manager
Chief Financial Officer
Recording Secretary

WATERMASTER CONSULTANTS PRESENT

Scott Slater
Brad Herrema
Mark Wildermuth

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

OTHERS PRESENT

Pete Hall
Dave Crosley
Todd Corbin
Scott Burton
Darron Poulsen
Sheri Rojo
Sandra Rose
Bob Feenstra
Ron Craig
Ryan Shaw
Jo Lynne Russo-Pereyra
Mark Kinsey

Agricultural Pool – State of California – CIM
City of Chino
Jurupa Community Services District
City of Ontario
City of Pomona
Fontana Water Company
Monte Vista Water District
Agricultural Pool – Dairy
City of Chino Hills
City of Ontario
Cucamonga Valley Water District
Monte Vista Water District

CALL TO ORDER

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

PLEDGE OF ALLEGIANCE

AGENDA - ADDITIONS/REORDER

There were no additions or reorders.

I. CONSENT CALENDAR

A. MINUTES

Minutes of the Watermaster Board Meeting held October 24, 2013

B. FINANCIAL REPORTS

1. Cash Disbursements for the Month of September 2013
2. Watermaster VISA Check Detail for the Month of September 2013
3. Combining Schedule for the Period July 1, 2013 through September 30, 2013
4. Treasurer's Report of Financial Affairs for the Period September 1, 2013 through September 30, 2013
5. Budget vs. Actual Report for the Period July 1, 2013 through September 30, 2013

C. WESTERN MUNICIPAL WATER DISTRICT ASSIGNMENT OF DESALTER PRODUCTION

(0:00:45)

Motion by Mr. Jeff Pierson, second by Mr. Paul Hofer, and carried unanimously

Moved to approve Consent Calendar as presented

II. BUSINESS ITEMS

A. CHINO BASIN WATERMASTER 2013-2014 ASSESSMENT PACKAGE

(0:00:45)

Motion by Mr. Bob Bowcock, second by Mr. Bob Craig, and carried unanimously

Moved to approve the Fiscal Year 2013-2014 Assessment Package as presented

B. LEVYING REPLENISHMENT AND ADMINISTRATIVE ASSESSMENTS

(0:01:55)

Motion by Mr. Terry Catlin, second by Mr. Jeff Pierson, and carried unanimously

Moved to approve Resolution 13-07 as presented

C. PHYSICAL SOLUTION TRANSFER RATE SUBSTITUTION

(0:04:39)

Motion by Mr. Jeff Pierson, second by Mr. Bob Craig, and carried unanimously

Moved to approve the proposed FY 2013-14 substitute Physical Solution Transfer rate, and approve Watermaster legal counsel's filing of motion for Court approval of the same

D. BUSINESS PLAN

(0:05:41)

Motion by Mr. Terry Catlin, second by Mr. Jeff Pierson, and carried unanimously

Moved to receive and file the proposed Watermaster 2013 Business Plan

III. REPORTS/UPDATES

A. LEGAL COUNSEL REPORT

1. Watermaster RMPU Amendment Motion
2. City of Fontana Motion
3. CDA Request

(0:06:13) Mr. Herrema gave a report.

B. CFO REPORT

1. Watermaster Annual Audit Presentation by Charles Z. Fedak & Company

(0:09:56) Mr. Joswiak introduced Mr. Chris Brown, senior manager with Charles Z. Fedak & Company, who presented the audit information.

C. GM REPORT

1. Joint IEUA-Watermaster Recharge Projects
2. Update on Safe Yield Recalculation
3. Wineville POC Project Update
4. Pool and Board Representation
5. Other

(0:16:08) Mr. Kavounas gave an update on the Joint IEUA-Watermaster Recharge Projects indicating that today was the first of these meetings which are open to all. Mr. DeJesus asked if there was anything to report from today's meeting and Mr. Kavounas mentioned that the meeting would be tracked similarly to other Watermaster meetings and information would be available on the FTP site.

Mr. Kavounas gave a brief update on the Wineville Proof of Concept project indicating that the recent storms will delay the project a bit.

Mr. Kavounas stated that Watermaster will soon be holding another Safe Yield Recalculation workshop to discuss questions from the Appropriative Pool. The workshop will be open to all interested parties and a notice will be sent out once the date has been set.

Mr. Kavounas also announced that Watermaster is looking to update its records and will be sending out letters to confirm the appointed representative and any alternate(s) from the Appropriative and Non-Ag Pools as well as the agencies that appoint to the Watermaster Board.

Mr. Kavounas updated the Board on the recent conferences and events that he had attended since the previous meeting of the Board.

IV. INFORMATION

1. Cash Disbursements for October 2013
2. Update on Wineville Proof of Concept Project
3. Update on Archibald South & Chino Airport Plumes

(0:24:42) Mr. Slater joined the meeting.

V. BOARD MEMBER COMMENTS

(0:25:15) Ms. Jo Lynne Russo-Pereyra gave a message on behalf of Mr. Jim Curatalo to everyone present as well as their agencies to support Ms. Kathy Tiegs (presently on the Board of Directors at Cucamonga Valley Water District) who intends to run for Vice President of the Association of California Water Agencies (ACWA).

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

The Watermaster Board went into closed session at 11:26 a.m. to discuss the following:

1. Watermaster RMPU Amendment Motion
2. City of Fontana Motion
3. Potential Litigation (one matter)

The Board came out of Confidential Session at 11:50 a.m. There was no reportable action.

VIII. FUTURE MEETINGS AT WATERMASTER

Thursday, November 21, 2013	8:00 a.m.	IEUA DYY Meeting
Thursday, November 21, 2013	9:00 a.m.	Advisory Committee Meeting
Thursday, November 21, 2013	10:00 a.m.*	Joint IEUA/CBWM Projects Update Meeting
Thursday, November 21, 2013	11:00 a.m.	Watermaster Board Meeting
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Thursday, December 19, 2013	11:00 a.m.	Watermaster Board Meeting

***Note:** The Joint IEUA/CBWM Projects Update Meeting will take place immediately following the Advisory Committee Meeting.

ADJOURNMENT

Chair DeJesus adjourned the Watermaster Board meeting at 11:50 a.m.

Secretary: _____

Minutes Approved: _____

CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

B. FINANCIAL REPORTS

1. Cash Disbursements for the Month of October 2013
2. Watermaster VISA Check Detail for the Month of October 2013
3. Combining Schedule for the Period July 1, 2013 through October 31, 2013
4. Treasurer's Report of Financial Affairs for the Period September 1, 2013 through October 31, 2013
5. Budget vs. Actual Report for the Period July 1, 2013 through October 31, 2013



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: December 19, 2013
TO: Advisory Committee Members
Board Members
SUBJECT: Cash Disbursement Report - Financial Report B1 (October 31, 2013)

SUMMARY

Issue: Record of cash disbursements for the month of October 31, 2013.

Recommendation: Receive and file Cash Disbursements for October 31, 2013 as presented.

Financial Impact: Funds disbursed were included in the FY 2013-2014 Watermaster Budget.

Future Consideration

Advisory Committee: December 19, 2013; Receive and File

Watermaster Board: December 19, 2013; Receive and File (Normal Course of Business)

ACTIONS:

December 12, 2013 – Appropriative Pool – Unanimously approved

December 12, 2013 – Non-Agricultural Pool – Moved unanimously to receive and file, without approval

December 12, 2013 – Agricultural Pool – Unanimously approved

December 19, 2013 – Advisory Committee –

December 19, 2013 – Watermaster Board –

BACKGROUND

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

DISCUSSION

Total cash disbursements during the month of October 2013 were \$400,960.13. The most significant expenditures during the month were to Wildermuth Environmental, Inc. in the amount of \$89,206.65 (check number 17317 dated October 23, 2013); Brownstein Hyatt Farber Schreck in the amount of \$86,554.90 (check number 17278 dated October 11, 2013); and Inland Empire Utilities Agency in the amounts of \$32,352.18 and \$30,900.00 (check numbers 17263 and 17306 dated October 3, 2013 and October 17, 2013).

ATTACHMENTS

1. Financial Report - B1

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
October 2013

Financial Report - B1

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	10/03/2013	17255	APPLIED COMPUTER TECHNOLOGIES	2412	1012 - Bank of America Gen'l Ckg	
Bill	09/30/2013	2412		Database Consulting - September 2013	6052.2 - Applied Computer Technol	3,057.80
TOTAL						3,057.80
Bill Pmt -Check	10/03/2013	17256	ARROWHEAD MOUNTAIN SPRING WATER	0023230253	1012 - Bank of America Gen'l Ckg	
Bill	09/30/2013	0023230253		Office Water Bottle - September 2013	6031.7 - Other Office Supplies	134.65
TOTAL						134.65
Bill Pmt -Check	10/03/2013	17257	CHEF DAVE'S CAFE & CATERING	1227	1012 - Bank of America Gen'l Ckg	
Bill	09/26/2013	1227		Lunch for 9/26/2013 Board Meeting	6312 - Meeting Expenses	431.90
TOTAL						431.90
Bill Pmt -Check	10/03/2013	17258	DGO AUTO DETAILING		1012 - Bank of America Gen'l Ckg	
Bill	09/30/2013			Wash 4 trucks on 9/11/13 and 9/25/13	6177 - Vehicle Repairs & Maintenance	200.00
TOTAL						200.00
Bill Pmt -Check	10/03/2013	17259	DIRECTV	019447404	1012 - Bank of America Gen'l Ckg	
Bill	09/30/2013	019447404		9/19/13 -10/18/13	6031.7 - Other Office Supplies	94.99
TOTAL						94.99
Bill Pmt -Check	10/03/2013	17260	GUARANTEED JANITORIAL SERVICE, INC.	6-29817	1012 - Bank of America Gen'l Ckg	
Bill	09/30/2013	6-29817		Janitorial - September 2013	6024 - Building Repair & Maintenance	865.00
TOTAL						865.00
Bill Pmt -Check	10/03/2013	17261	HOGAN LOVELLS	2166444	1012 - Bank of America Gen'l Ckg	
Bill	09/30/2013	2766444		Non-Ag Pool Legal Services - September 2013	8567 - Non-Ag Legal Service	4,156.07
TOTAL						4,156.07
Bill Pmt -Check	10/03/2013	17262	HSBC BUSINESS SOLUTIONS	7003-7309-1000-2744	1012 - Bank of America Gen'l Ckg	
Bill	09/30/2013	7003730910002744		Miscellaneous meeting & office supplies	6031.7 - Other Office Supplies	519.05
TOTAL						519.05
Bill Pmt -Check	10/03/2013	17263	INLAND EMPIRE UTILITIES AGENCY		1012 - Bank of America Gen'l Ckg	
Bill	09/30/2013	1800002248		Wineville Basin Cost Share Project	7209.2 - Wineville Basin	32,332.18
Bill	10/02/2013			Registration fee-Kavounas-Leadership Breakfast	6192 - Training & Seminars	20.00
TOTAL						32,352.18
Bill Pmt -Check	10/03/2013	17264	MATHIS CONSULTING GROUP	153895	1012 - Bank of America Gen'l Ckg	
Bill	09/30/2013	153895		Field Operations Specialist	6013 - Human Resources Services	1,942.50

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	<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
TOTAL							1,942.50
	Bill Pmt -Check	10/03/2013	17265	PARK PLACE COMPUTER SOLUTIONS, INC.	479	1012 - Bank of America Gen'l Ckg	
	Bill	09/30/2013	479		IT Consulting - September 2013	6052.1 - Park Place Comp Solutn	2,325.00
TOTAL							2,325.00
	Bill Pmt -Check	10/03/2013	17266	PAYCHEX	2013092600	1012 - Bank of America Gen'l Ckg	
	Bill	09/30/2013	2013092600		September 2013	6012 - Payroll Services	236.53
TOTAL							236.53
	Bill Pmt -Check	10/03/2013	17267	SANDERS, LAURA		1012 - Bank of America Gen'l Ckg	
	Bill	09/30/2013			Transcript for 8/30/13 Court Hearing	6046 - Legal Publications/Services	240.00
TOTAL							240.00
	Bill Pmt -Check	10/03/2013	17268	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 - Bank of America Gen'l Ckg	
	Bill	09/30/2013	00644-92990009		Policy # 00-649299-0009	60191 - Life & Disab.Ins Benefits	456.73
TOTAL							456.73
	Bill Pmt -Check	10/03/2013	17269	STAPLES BUSINESS ADVANTAGE	8026990403	1012 - Bank of America Gen'l Ckg	
	Bill	09/30/2013	8026990403		Miscellaneous office supplies	6031.7 - Other Office Supplies	98.58
TOTAL							98.58
	Bill Pmt -Check	10/03/2013	17270	STATE COMPENSATION INSURANCE FUND	1970970-13	1012 - Bank of America Gen'l Ckg	
	Bill	10/01/2013	1970970-13		Premium on account 9/26/13-10/26/13	60183 - Worker's Comp Insurance	786.42
TOTAL							786.42
	Bill Pmt -Check	10/03/2013	17271	THE LAWTON GROUP	6017	1012 - Bank of America Gen'l Ckg	
	Bill	09/30/2013	20487		Week ending 9/22/13	6017 - Temporary Services	659.20
					Week ending 9/22/13	6017.1 - Executive Assistant Services	1,811.20
					Week ending 9/22/13	6017.1 - Executive Assistant Services	520.80
	Bill	09/30/2013	20486		Week ending 9/15/13	6017 - Temporary Services	494.40
					Week ending 9/15/13	6017.1 - Executive Assistant Services	1,811.20
					Week ending 9/15/13	6017.1 - Executive Assistant Services	369.60
TOTAL							5,666.40
	Bill Pmt -Check	10/03/2013	17272	THREE VALLEYS MUNICIPAL WATER DIST	October 31, 2013 Leadership Breakfast	1012 - Bank of America Gen'l Ckg	
	Bill	09/30/2013			Leadership Breakfast for Peter Kavounas	6191 - Conferences - General	15.00
TOTAL							15.00
	Bill Pmt -Check	10/03/2013	17273	UNITED HEALTHCARE	0032608160	1012 - Bank of America Gen'l Ckg	

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	09/30/2013	0032608160		Dental premium - October 2013	60182.2 · Dental & Vision Ins	481.05
TOTAL						481.05
Bill Pmt -Check	10/03/2013	17274	VERIZON		1012 · Bank of America Gen'l Ckg	
Bill	09/30/2013	01256121521714508		012561121521714508	7405 · PE4-Other Expense	184.09
Bill	09/30/2013	012519116950792103		012519116950792103	6022 · Telephone	520.47
TOTAL						704.56
Bill Pmt -Check	10/03/2013	17275	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'l Ckg	
Bill	09/30/2013	0010178900010		Vision premium - October 2013	60182.2 · Dental & Vision Ins	57.81
TOTAL						57.81
Bill Pmt -Check	10/03/2013	17276	YUKON DISPOSAL SERVICE	08-K2 213849	1012 · Bank of America Gen'l Ckg	
Bill	10/02/2013	08-k2 213849		Disposal service for October 2013	6024 · Building Repair & Maintenance	106.53
TOTAL						106.53
Bill Pmt -Check	10/11/2013	17277	BOWCOCK, ROBERT	9/26/13 Board Meeting	1012 · Bank of America Gen'l Ckg	
Bill	09/26/2013	9/26 Board Mtg		9/26/13 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	10/11/2013	17278	BROWNSTEIN HYATT FARBER SCHRECK		1012 · Bank of America Gen'l Ckg	
Bill	09/30/2013	545178		GM Contract Extension	6073 · BHFS Legal - Personnel Matters	94.50
				Mediation Reservation Fee	6073 · BHFS Legal - Personnel Matters	4,000.00
				Employment	6073 · BHFS Legal - Personnel Matters	3,956.08
Bill	09/30/2013	545179		Audit Response	6078 · BHFS Legal - Miscellaneous	463.05
Bill	09/30/2013	545180			6907.34 · Santa Ana River Water Rights	910.80
Bill	09/30/2013	545181			6907.33 · Desalter/Hydraulic Control	157.50
Bill	09/30/2013	545182			6275 · BHFS Legal - Advisory Committee	1,732.07
Bill	09/30/2013	545183			6375 · BHFS Legal - Board Meeting	7,609.64
Bill	09/30/2013	545184			8375 · BHFS Legal - Appropriative Pool	1,701.45
Bill	09/30/2013	545185			8475 · BHFS Legal - Agricultural Pool	1,701.45
Bill	09/30/2013	545186			8575 · BHFS Legal - Non-Ag Pool	6,980.16
Bill	09/30/2013	545187			6071 · BHFS Legal - Court Coordination	913.54
Bill	09/30/2013	545188			6907.39 · Recharge Master Plan	32,153.95
Bill	09/30/2013	545189			6078.11 · Safe Yield Recalculation	2,605.74
Bill	09/30/2013	545190			6078.12 · CCG Motion	2,883.84
Bill	09/30/2013	545191			6907.42 · RMPU - Fontana Motion	11,815.92
Bill	09/30/2013	545193			6078 · BHFS Legal - Miscellaneous	6,875.21
TOTAL						86,554.90

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	10/11/2013	17279	CRAIG, ROBERT		1012 · Bank of America Gen'l Ckg	
Bill	09/12/2013	9/12 Appro Pool Mtg		9/12/13 Appropriative Pool Meeting	6311 · Board Member Compensation	125.00
Bill	09/19/2013	9/19 Advisory Comm		9/19/13 Advisory Committee Meeting	6311 · Board Member Compensation	125.00
Bill	09/26/2013	9/26 Board Mtg		9/26/13 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						375.00
Bill Pmt -Check	10/11/2013	17280	CURATALO, JAMES	9/16/13 Administrative Meeting	1012 · Bank of America Gen'l Ckg	
Bill	09/16/2013	9/16 Admin Mtg		9/16/13 Administrative Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	10/11/2013	17281	DE BOOM, NATHAN	Ag Pool Member Meeting Compensation	1012 · Bank of America Gen'l Ckg	
Bill	09/12/2013	9/12 Ag Pool Mtg		9/12/13 Ag Pool Meeting	8411 · Compensation	25.00
				Ag Pool Member Meeting Compensation	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	10/11/2013	17282	DURRINGTON, GLEN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	09/12/2013	9/12 Ag Pool Mtg		9/12/13 Ag Pool Meeting	8411 · Compensation	25.00
				Ag Pool Member Compensation	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	10/11/2013	17283	FEENSTRA, BOB		1012 · Bank of America Gen'l Ckg	
Bill	09/12/2013	9/12 Ag Pool Mtg		9/12/13 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	09/26/2013	9/26 Board Meeting		9/26/13 Board Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						250.00
Bill Pmt -Check	10/11/2013	17284	GALAXY AUDIO VISUAL	22134	1012 · Bank of America Gen'l Ckg	
Bill	10/07/2013	22134		Adjustment of projector in Board room	6057 · Computer Maintenance	250.00
TOTAL						250.00
Bill Pmt -Check	10/11/2013	17285	GREAT AMERICA LEASING CORP.	14285039	1012 · Bank of America Gen'l Ckg	
Bill	09/29/2013	14285039		Usage for Black Copies	6043.2 · Ricoh Usage & Maintenance Fee	310.42
				Usage for Color Copies	6043.2 · Ricoh Usage & Maintenance Fee	635.14
TOTAL						945.56
Bill Pmt -Check	10/11/2013	17286	HALL, PETE*		1012 · Bank of America Gen'l Ckg	
Bill	09/05/2013	9/05 RMPU Mtg		9/05/13 RMPU Steering Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	09/10/2013	9/10 RMPU Mtg		9/10/13 RMPU Steering Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	09/12/2013	9/12 Ag Pool Mtg		9/12/13 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	09/19/2013	9/19 Advisory Comm		9/19/13 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	09/26/2013	9/26 Board Mtg		9/26/13 Board Meeting	8470 · Ag Meeting Attend -Special	125.00

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	<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
TOTAL							625.00
	Bill Pmt -Check	10/11/2013	17287	HUITSING, JOHN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	09/12/2013	9/12 Ag Pool Mtg		9/12/13 Ag Pool Meeting	8411 · Compensation	25.00
					Ag Pool Member Compensation	8470 · Ag Meeting Attend -Special	100.00
TOTAL							125.00
	Bill Pmt -Check	10/11/2013	17288	KOOPMAN, GENE	Ag Pool Member Meeting Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	09/12/2013	9/13 Ag Pool Mtg		9/12/13 Ag Pool Meeting	8411 · Compensation	25.00
					Ag Pool Member Meeting Compensation	8470 · Ag Meeting Attend -Special	100.00
TOTAL							125.00
	Bill Pmt -Check	10/11/2013	17289	KUHN, BOB		1012 · Bank of America Gen'l Ckg	
	Bill	09/04/2013	9/04 Admin Mtg		9/04/13 Administrative Meeting	6311 · Board Member Compensation	125.00
	Bill	09/12/2013	9/12 Appro Pool Mtg		9/12/13 Appropriative Pool Meeting	6311 · Board Member Compensation	125.00
	Bill	09/26/2013	9/26 Board Mtg		9/26/13 Board Meeting	6311 · Board Member Compensation	125.00
	Bill	09/27/2013	9/27 Admin Mtg		9/27/13 Administrative Meeting	6311 · Board Member Compensation	125.00
TOTAL							500.00
	Bill Pmt -Check	10/11/2013	17290	PIERSON, JEFFREY		1012 · Bank of America Gen'l Ckg	
	Bill	09/05/2013	9/15 RMPU Mtg		9/15/13 RMPU Steering Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/12/2013	9/12 Ag Pool Mtg		9/12/13 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	09/19/2013	9/19 Advisory Comm		9/19/13 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL							375.00
	Bill Pmt -Check	10/11/2013	17291	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	General Journal	09/28/2013	09/28/2013	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 09/15/13-09/28/13	2000 · Accounts Payable	6,602.94
TOTAL							6,602.94
	Bill Pmt -Check	10/11/2013	17292	ROGERS, PETER	9/26/13 Board Meeting	1012 · Bank of America Gen'l Ckg	
	Bill	09/26/2013	9/26 Board Mtg		9/26/13 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL							125.00
	Bill Pmt -Check	10/11/2013	17293	STAPLES BUSINESS ADVANTAGE	8027142923	1012 · Bank of America Gen'l Ckg	
	Bill	09/28/2013	8027142923		Miscellaneous meeting & office supplies	6031.7 · Other Office Supplies	268.21
TOTAL							268.21
	Bill Pmt -Check	10/11/2013	17294	TELECOM SERVICES	5809	1012 · Bank of America Gen'l Ckg	
	Bill	10/03/2013	5809		Install software after power surge-reprogram phone: 6022 · Telephone		507.50
TOTAL							507.50

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	10/11/2013	17295	THE LAWTON GROUP	6017	1012 - Bank of America Gen'l Ckg	
Bill	09/29/2013	20509		Week ending 9/29/13	6017 - Temporary Services	824.00
				Week ending 9/29/13	6017.1 - Executive Assistant Services	1,811.20
				Week ending 9/29/13	6017.1 - Executive Assistant Services	168.00
TOTAL						2,803.20
Bill Pmt -Check	10/11/2013	17296	UNION 76	300-732-989	1012 - Bank of America Gen'l Ckg	
Bill	09/29/2013	300732989		Fuel - September 2013	6175 - Vehicle Fuel	76.82
TOTAL						76.82
Bill Pmt -Check	10/11/2013	17297	VANDEN HEUVEL, GEOFFREY	6311	1012 - Bank of America Gen'l Ckg	
Bill	09/12/2013	9/12 Ag Pool Mtg		9/12/13 Ag Pool Meeting	6311 - Board Member Compensation	125.00
Bill	09/26/2013	9/26 Board Mtg		9/26/13 Board Meeting	6311 - Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	10/11/2013	17298	VANDEN HEUVEL, ROB	Ag Pool Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	09/19/2013	9/19 Advisory Comm		9/19/13 Advisory Committee Meeting	8411 - Compensation	25.00
				Ag Pool Member Compensation	8470 - Ag Meeting Attend -Special	100.00
TOTAL						125.00
General Journal	10/12/2013	10/12/2013	Payroll and Taxes for 09/29/13-10/12/13	Payroll and Taxes for 09/29/13-10/12/13	1012 - Bank of America Gen'l Ckg	
				Direct Deposist for 09/29/13-10/12/13	1012 - Bank of America Gen'l Ckg	19,780.43
				Payroll Taxes for 09/29/13-10/12/13	1012 - Bank of America Gen'l Ckg	6,308.69
				Payroll Check for 09/29/13-10/12/13	1014 - Bank of America P/R Ckg	555.71
			ICMA-RC	457 Employee Deductions for 09/29/13-10/12/13	1012 - Bank of America Gen'l Ckg	3,293.42
			ICMA-RC	401(a) Employee Deductions for 09/29/13-10/12/13	1012 - Bank of America Gen'l Ckg	923.03
TOTAL						30,861.28
Check	10/15/2013	10/15/2013	Service Charge	Service Charge	1012 - Bank of America Gen'l Ckg	
				Service Charge	6039.1 - Banking Service Charges	759.28
TOTAL						759.28
Bill Pmt -Check	10/17/2013	17299	ACWA JOINT POWERS INSURANCE AUTHORITY	00198	1012 - Bank of America Gen'l Ckg	
Bill	10/07/2013	00198		Prepayment - November	1409 - Prepaid Life, BAD&D & LTD	96.90
				October 2013	60191 - Life & Disab.ins Benefits	96.90
TOTAL						193.80
Bill Pmt -Check	10/17/2013	17300	CALPERS	1394905143	1012 - Bank of America Gen'l Ckg	
Bill	10/15/2013	1394905143		Medical Premiums - November 2013	60182.1 - Medical Insurance	5,581.56

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TOTAL	Type	Date	Num	Name	Memo	Account	Paid Amount
							5,581.56
	Bill Pmt -Check	10/17/2013	17301	CHINO HILLS, CITY OF*	11	1012 - Bank of America Gen'l Ckg	
	Bill	09/30/2013	11		July-September 2013	7107.61 - Grd Level-Chino Hills ASR	524.50
TOTAL							524.50
	Bill Pmt -Check	10/17/2013	17302	COMPUTER NETWORK		1012 - Bank of America Gen'l Ckg	
	Bill	10/09/2013	88618		Replacement Video card	6055 - Computer Hardware	302.40
	Bill	10/11/2013	88647		Speakers for PC	6055 - Computer Hardware	27.00
TOTAL							329.40
	Bill Pmt -Check	10/17/2013	17303	CORELOGIC INFORMATION SOLUTIONS	80982783	1012 - Bank of America Gen'l Ckg	
	Bill	09/30/2013	80982783		80982783	7103.7 - Grdwtr Qual-Computer Svc	62.50
					80982783	7101.4 - Prod Monitor-Computer	62.50
TOTAL							125.00
	Bill Pmt -Check	10/17/2013	17304	CUCAMONGA VALLEY WATER DISTRICT	Lease due November 1, 2013	1012 - Bank of America Gen'l Ckg	
	Bill	10/15/2013			Lease due November 1, 2013	1422 - Prepaid Rent	6,160.00
TOTAL							6,160.00
	Bill Pmt -Check	10/17/2013	17305	EGOSCUE LAW GROUP		1012 - Bank of America Gen'l Ckg	
	Bill	09/30/2013	10465		Ag Pool Legal Services - September 2013	8467 - Ag Legal & Technical Services	4,537.50
	Bill	09/30/2013	10439		Ag Pool Legal Services - August 2013	8467 - Ag Legal & Technical Services	12,375.00
TOTAL							16,912.50
	Bill Pmt -Check	10/17/2013	17306	INLAND EMPIRE UTILITIES AGENCY	1800002259	1012 - Bank of America Gen'l Ckg	
	Bill	10/11/2013	1800002259		Hickory Basin Arizona Crossing Cost Share Project	7690.3 - Hickory Basin Recharge Imprvmt	30,900.00
TOTAL							30,900.00
	Bill Pmt -Check	10/17/2013	17307	OFFICE TEAM	38891695	1012 - Bank of America Gen'l Ckg	
	Bill	10/04/2013	38891695		Week ending 10/04/13	6017.1 - Executive Assistant Services	1,824.80
TOTAL							1,824.80
	Bill Pmt -Check	10/17/2013	17308	PREMIERE GLOBAL SERVICES	14681647	1012 - Bank of America Gen'l Ckg	
	Bill	09/30/2013	14681647		Pool agenda/meeting preparation on 9/03 & 9/11	8412 - Meeting Expenses	47.34
					Pool agenda/meeting preparation on 9/03 & 9/11	8512 - Meeting Expense	47.34
					Pool agenda/meeting preparation on 9/03 & 9/11	8312 - Meeting Expenses	47.34
					PK call w/auditors on 9/04	6062 - Audit Services	56.38
					Non-Ag pool meeting call on 9/12	8512 - Meeting Expense	113.83
					Call on pending litigation on 9/17	6073 - BHFS Legal - Personnel Matters	38.67

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Type	Date	Num	Name	Memo	Account	Paid Amount
				Calls on 9/25 re RMPU Presentation dry run	7204 · Comp Recharge-Supplies	123.57
				Monthly fee	6022 · Telephone	17.05
				Monthly fee	6022 · Telephone	19.95
TOTAL						511.47
Bill Pmt -Check	10/17/2013	17309	RON SHELLEY'S AUTOMOTIVE	3852	1012 · Bank of America Gen'l Ckg	
Bill	10/10/2013	3852		Tire repair	6177 · Vehicle Repairs & Maintenance	40.00
TOTAL						40.00
Bill Pmt -Check	10/17/2013	17310	STAPLES BUSINESS ADVANTAGE	8027226963	1012 · Bank of America Gen'l Ckg	
Bill	10/05/2013	8027226963		Miscellaneous office supplies	6031.7 · Other Office Supplies	222.33
				Copier paper	6031.1 · Copy Paper	374.56
TOTAL						596.89
Bill Pmt -Check	10/17/2013	17311	STAULA, MARY L	Oct. 2013	1012 · Bank of America Gen'l Ckg	
Bill	10/15/2013	Oct. 2013		Oct. 2013	60182.4 · Retiree Medical	29.19
TOTAL						29.19
P18 Bill Pmt -Check	10/17/2013	17312	THE LAWTON GROUP	6017	1012 · Bank of America Gen'l Ckg	
Bill	10/11/2013	20533		Week ending 10/06/13	6017 · Temporary Services	659.20
TOTAL						659.20
Bill Pmt -Check	10/17/2013	17313	UNITED HEALTHCARE	0032855151	1012 · Bank of America Gen'l Ckg	
Bill	10/14/2013	0032855151		Dental Premium - November 2013	60182.2 · Dental & Vision Ins	588.27
TOTAL						588.27
Bill Pmt -Check	10/17/2013	17314	VERIZON BUSINESS		1012 · Bank of America Gen'l Ckg	
Bill	09/30/2013	07551316		07551316 - August	6053 · Internet Expense	1,509.28
Bill	09/30/2013	08493275		08493275 - September	6053 · Internet Expense	1,518.49
Bill	10/10/2013	66435497		66435497 - October	6053 · Internet Expense	1,522.63
TOTAL						4,550.40
Bill Pmt -Check	10/17/2013	17315	VERIZON WIRELESS	9712689236	1012 · Bank of America Gen'l Ckg	
Bill	10/15/2013	9712689236		Monthly service	6022 · Telephone	295.57
TOTAL						295.57
Bill Pmt -Check	10/17/2013	17316	WESTERN DENTAL SERVICES, INC.	11882	1012 · Bank of America Gen'l Ckg	
Bill	10/09/2013	11882		Dental Premium - October 2013	60182.2 · Dental & Vision Ins	30.00
TOTAL						30.00

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	10/23/2013	17317	WILDERMUTH ENVIRONMENTAL INC		1012 · Bank of America Gen'l Ckg	
Bill	09/30/2013	2013275		2013275	6906 · OBMP Engineering Services	4,164.23
Bill	09/30/2013	2013276		2013276	6906.71 · OBMP - Misc. GM Requests	3,690.16
Bill	09/30/2013	2013277		2013277	6906 · OBMP Engineering Services	2,088.75
Bill	09/30/2013	2013278		2013278	6906 · OBMP Engineering Services	813.75
Bill	09/30/2013	2013279		2013279	6906.1 · OBMP - Watermaster Model Update	12,875.00
Bill	09/30/2013	2013280		2013280	7103.3 · Grdwtr Qual-Engineering	6,743.75
Bill	09/30/2013	2013281		2013281	7104.3 · Grdwtr Level-Engineering	7,752.40
Bill	09/30/2013	2013282		2013282	7107.81 · Grd Level-Chino Hills ASR	2,731.25
Bill	09/30/2013	2013283		Neva Ridge	7107.3 · Grd Level-SAR Imagery	14,000.00
Bill	09/30/2013	2013284		2013284	7107.2 · Grd Level-Engineering	5,869.45
Bill	09/30/2013	2013285		2013285	7108.3 · Hydraulic Control-Engineering	3,424.10
Bill	09/30/2013	2013286		2013286	7108.7 · Hydraulic Control - Prado Basin	1,871.84
Bill	09/30/2013	2013287		2013287	7202.3 · Comp Recharge-Implementation	17,854.47
Bill	09/30/2013	2013288		2013288	7402 · PE4-Engineering	1,387.50
Bill	09/30/2013	2013289		2013289	7502 · PE6&7-Engineering	852.50
Bill	09/30/2013	2013290		2013290	7108.3 · Hydraulic Control-Engineering	3,087.50
TOTAL						89,206.65
P19 General Journal	10/26/2013	10/26/2013	Payroll and Taxes for 10/13/13-10/26/13	Payroll and Taxes for 10/13/13-10/26/13	1012 · Bank of America Gen'l Ckg	
				Direct Depositist for 10/13/13-10/26/13	1012 · Bank of America Gen'l Ckg	19,635.55
				Payroll Taxes for 10/13/13-10/26/13	1012 · Bank of America Gen'l Ckg	7,360.34
				Payroll Checks for 10/13/13-10/26/13	1014 · Bank of America P/R Ckg	1,154.60
			ICMA-RC	457 Employee Deductions for 10/13/13-10/26/13	1012 · Bank of America Gen'l Ckg	3,127.22
			ICMA-RC	401(a) Employee Deductions for 10/13/13-10/26/13	1012 · Bank of America Gen'l Ckg	923.03
TOTAL						32,200.74
Bill Pmt -Check	10/28/2013	17318	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	09/30/2013	XXXX-XXXX-XXXX-9341		PK Lunch w/Doug Headrick @ SBVMWD	6909.1 · OBMP Meetings	18.19
				GRA Membership for PK	6111 · Membership Dues	92.91
				Reg.-PK-attend GRA Collaborative Leadership	6193.2 · Conference - Registration Fee	256.62
				Reg.-PK-attend GRA 29th Groundwater Conf.	6193.2 · Conference - Registration Fee	358.38
				PK flight to Sacramento	6191 · Conferences - General	175.91
				Car rental fee	6191 · Conferences - General	225.36
				PK meeting w/Rick Hansen - TVMWD	8312 · Meeting Expenses	20.18
				Reg. fee-PK-attend the SCWC 29th Annual Dinner	6193.2 · Conference - Registration Fee	176.98
				Working lunch for PK and JJ re Human Resources	6141.3 · Admin Meetings	30.22
				Flash card/mini card reader for recorder-boardroom	6031.7 · Other Office Supplies	37.39
				Lunch for completion of RMPU	7204 · Comp Recharge-Supplies	181.22
TOTAL						1,573.36

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
October 2013

Financial Report - B1

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	10/28/2013	17319	GEOSCIENCE SUPPORT SERVICES, INC.	4555-11-13	1012 · Bank of America Gen'l Ckg	
Bill	09/30/2013	4555-11-13		August 1 - September 30, 2013	7107.61 · Grd Level-Chino Hills ASR	4,090.00
TOTAL						4,090.00
Bill Pmt -Check	10/28/2013	17320	GRAINGER		1012 · Bank of America Gen'l Ckg	
Bill	10/14/2013	9268436327		Storage clipboards	6151 · Small Tools & Equipment	191.25
Bill	10/14/2013	9268512747		High visibility vest, safety glasses, hard hat	6151 · Small Tools & Equipment	123.07
TOTAL						314.32
Bill Pmt -Check	10/28/2013	17321	GREAT AMERICA LEASING CORP.	14346941	1012 · Bank of America Gen'l Ckg	
Bill	10/16/2013	14346941		Invoice	6043.1 · Ricoh Lease Fee	3,221.64
				One-time documentation fee	6043.1 · Ricoh Lease Fee	109.50
				Transitional billing fee for 9/26-10/10	6043.1 · Ricoh Lease Fee	1,503.43
TOTAL						4,834.57
Bill Pmt -Check	10/28/2013	17322	LEGAL SHIELD	111802	1012 · Bank of America Gen'l Ckg	
Bill	10/21/2013	0111802		Employee deductions - October 2013	60194 · Other Employee Insurance	51.80
TOTAL						51.80
Bill Pmt -Check	10/28/2013	17323	OFFICE TEAM	38932219	1012 · Bank of America Gen'l Ckg	
Bill	10/11/2013	38932219		Week ending 10/11/13	6017.1 · Executive Assistant Services	1,779.18
				Overtime week ending 10/11/13	6017.1 · Executive Assistant Services	153.97
TOTAL						1,933.15
Bill Pmt -Check	10/28/2013	17324	PITNEY BOWES CREDIT CORPORATION	6684246	1012 · Bank of America Gen'l Ckg	
Bill	10/21/2013	6684246		Leasing charge	6044 · Postage Meter Lease	548.64
TOTAL						548.64
Bill Pmt -Check	10/28/2013	17325	PRINTING RESOURCES		1012 · Bank of America Gen'l Ckg	
Bill	10/18/2013	60234		Business cards: Bill McLaughlin	6031.7 · Other Office Supplies	146.13
Bill	10/19/2013	60235		Nameplates: Anna Truong and Please Sign in	6031.7 · Other Office Supplies	59.16
TOTAL						205.29
Bill Pmt -Check	10/28/2013	17326	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	10/12/2013	10/12/2013	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 09/29/13-10/12/13	2000 · Accounts Payable	6,693.19
TOTAL						6,693.19
Bill Pmt -Check	10/28/2013	17327	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
Bill	10/24/2013	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	482.28

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
October 2013

TOTAL	<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
							482.28
	Bill Pmt -Check	10/28/2013	17328	STAPLES BUSINESS ADVANTAGE	8027324440	1012 - Bank of America Gen'l Ckg	
	Bill	10/12/2013	8027324440		Miscellaneous office supplies	6031.7 - Other Office Supplies	12.94
TOTAL							12.94
	Bill Pmt -Check	10/28/2013	17329	THE LAWTON GROUP	6017	1012 - Bank of America Gen'l Ckg	
	Bill	10/13/2013	20575		Week ending 10/13/13	6017 - Temporary Services	164.80
TOTAL							164.80
	General Journal	10/31/2013	10/31/2013	Wage Works FSA Direct Debits - October 2013	Wage Works FSA Direct Debits - October 2013	1012 - Bank of America Gen'l Ckg	
					Wage Works FSA Direct Debits - October 2013	1012 - Bank of America Gen'l Ckg	393.08
					Wage Works FSA Direct Debits - October 2013	1012 - Bank of America Gen'l Ckg	393.08
					Wage Works FSA Direct Debits - October 2013	1012 - Bank of America Gen'l Ckg	76.25
TOTAL							862.41
						Total Disbursements:	<u>400,960.13</u>

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CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: December 19, 2013
TO: Advisory Committee Members
Board Members
SUBJECT: VISA Check Detail Report - Financial Report B2 (October 31, 2013)

SUMMARY

Issue: Record of VISA credit card payment disbursed for the month of October 31, 2013.

Recommendation: Receive and file VISA Check Detail Report for October 31, 2013 as presented.

Financial Impact: Funds disbursed were included in the FY 2013-2014 Watermaster Budget.

Future Consideration

Advisory Committee: December 19, 2013; Receive and File

Watermaster Board: December 19, 2013; Receive and File (Normal Course of Business)

ACTIONS:

December 12, 2013 – Appropriative Pool – Unanimously approved

December 12, 2013 – Non-Agricultural Pool – Moved unanimously to receive and file, without approval

December 12, 2013 – Agricultural Pool – Unanimously approved

December 19, 2013 – Advisory Committee –

December 19, 2013 – Watermaster Board –

BACKGROUND

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

DISCUSSION

Total cash disbursement during the month of October 2013 was \$1,573.36. This payment was processed by check number 17318 dated October 28, 2013. The monthly charges for October 2013 were for routine and customary expenditures and properly documented with receipts.

ATTACHMENTS

1. Financial Report - B2

CHINO BASIN WATERMASTER
 VISA Check Detail Report
 October 2013

Type	Num	Date	Name	Memo	Account	Paid Amount
Bill Pmt -Check	10/28/2013	17318	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	09/30/2013	XXXX-XXXX-XXXX-9341		PK Lunch w/Doug Headrick @ SBVMWD	6909.1 · OBMP Meetings	18.19
				GRA Membership for PK	6111 · Membership Dues	92.91
				Reg.-PK-attend GRA Collaborative Leadership	6193.2 · Conference - Registration Fee	256.62
				Reg.-PK-attend GRA 29th Groundwater Conf.	6193.2 · Conference - Registration Fee	358.38
				PK flight to Sacramento	6191 · Conferences - General	175.91
				Car rental fee	6191 · Conferences - General	225.36
				PK meeting w/Rick Hansen - TVMWD	8312 · Meeting Expenses	20.18
				Reg. fee-PK-attend the SCWC 29th Annual Dinner	6193.2 · Conference - Registration Fee	176.98
				Working lunch for PK and JJ re Human Resources	6141.3 · Admin Meetings	30.22
				Flash card/mini card reader for recorder-boardroom	6031.7 · Other Office Supplies	37.39
				Lunch for completion of RMPU	7204 · Comp Recharge-Supplies	181.22
					Total Disbursements:	1,573.36

TOTAL

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CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: December 19, 2013

TO: Advisory Committee Members
Board Members

SUBJECT: Combining Schedule of Revenue, Expenses and Changes in Working Capital for the Period July 1, 2013 through October 31, 2013 - Financial Report B3 (October 31, 2013)

SUMMARY

Issue: Record of Revenue, Expenses and Changes in Working Capital for the Period July 1, 2013 through October 31, 2013.

Recommendation: Receive and file Combining Schedule of Revenue, Expenses and Changes in Working Capital for the Period July 1, 2013 through October 31, 2013 as presented.

Financial Impact: Funds disbursed were included in the FY 2013-2014 Watermaster Budget.

Future Consideration

Advisory Committee: December 19, 2013; Receive and File

Watermaster Board: December 19, 2013; Receive and File (Normal Course of Business)

ACTIONS:

December 12, 2013 – Appropriative Pool – Unanimously approved

December 12, 2013 – Non-Agricultural Pool – Moved unanimously to receive and file, without approval

December 12, 2013 – Agricultural Pool – Unanimously approved

December 19, 2013 – Advisory Committee –

December 19, 2013 – Watermaster Board –

BACKGROUND

A Combining Schedule of Revenue, Expenses and Changes in Working Capital for the period July 1, 2013 through October 31, 2013 is provided to keep all members apprised of the FY 2013-2014 cumulative Watermaster revenues, expenditures and changes in working capital for the period listed.

DISCUSSION

The Combining Schedule of Revenue, Expenses and Changes in Working Capital has been created from various financial reports and statements created from QuickBooks Enterprise Solutions 13.0, 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 WORKING CAPITAL
 FOR THE PERIOD JULY 1, 2013 THROUGH OCTOBER 31, 2013

	WATERMASTER ADMINISTRATION	OPTIMUM BASIN MANAGEMENT	POOL ADMINISTRATION & SPECIAL PROJECTS			GROUNDWATER OPERATIONS		LAIF VALUE ADJ.	GRAND TOTALS	BUDGET 2013-2014
			APPROPRIATIVE POOL	AG POOL	NON-AG POOL	GROUNDWATER REPLENISHMENT	SB222 FUNDS			
Administrative Revenues:										
Administrative Assessments			-						-	6,602,605
Interest Revenue			2,724	314	83				3,121	29,700
Mutual Agency Project Revenue	153,036								153,036	154,581
Grant Income									-	0
Miscellaneous Income									-	0
Total Revenues	153,036	-	2,724	314	83	-	-	-	156,156	6,786,886
Administrative & Project Expenditures:										
Watermaster Administration	504,449								504,449	705,399
Watermaster Board-Advisory Committee	53,081								53,081	205,657
Ag Pool Misc. Expense - Ag Fund				94					94	400
Pool Administration			41,034	61,069	32,278				134,381	599,649
Optimum Basin Mgmt Administration		465,704							465,704	1,237,798
OBMP Project Costs		814,957							814,957	3,723,076
Debt Service		406,127							406,127	456,093
Basin Recharge Improvements		30,900							30,900	655,544
Education Funds Use									-	0
Mutual Agency Project Costs									-	10,000
Total Administrative/OBMP Expenses	557,529	1,717,687	41,034	61,069	32,278	-	-	-	2,409,691	7,593,616
Net Administrative/OBMP Expenses	(404,494)	(1,717,687)								
Allocate Net Admin Expenses To Pools	404,494		287,602	102,767	14,125					
Allocate Net OBMP Expenses To Pools		1,311,561	932,541	333,218	45,802					
Allocate Debt Service to App Pool		406,127	406,127							
Agricultural Expense Transfer*			497,054	(497,054)						
Total Expenses			2,164,356	94	92,205	-	-	-	2,409,691	7,593,616
Net Administrative Income			(2,161,632)	220	(92,122)	-	-	-	(2,253,535)	(806,730)
Other Income/(Expense)										
Replenishment Water Assessments			-						-	0
Non-Ag Stored Water Purchases			-						-	0
Interest Revenue						441			441	0
MWD Water Purchases									-	0
Non-Ag Stored Water Purchases									-	0
MWD Water Purchases									-	0
Groundwater Replenishment									-	0
Interest Expense - CalPERS Side Fund									-	0
Refund-Excess Reserves									-	0
Refund-Recharge Debt									-	0
Net Other Income/(Expense)						441			441	0
Net Transfers To/(From) Reserves		(2,253,093)	(2,161,632)	220	(92,122)	441			(2,253,093)	(806,730)
Working Capital, July 1, 2013			4,759,923	478,917	156,647	667,399	158,251	1,763	6,222,901	
Working Capital, End Of Period			2,598,291	479,137	64,525	667,840	158,251	1,763	3,969,807	3,969,807
12/13 Assessable Production			96,433,754	34,458,009	4,736,325				135,628,088	
12/13 Production Percentages			71.102%	25.406%	3.492%				100.000%	

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

N:\Administration\Meetings - Agendas & Minutes\2013\Staff Letters\20131219 - B3 Combining Schedule_Oct 2013.xls\Jul2013-Oct2013



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: December 19, 2013

TO: Advisory Committee Members
Board Members

SUBJECT: Treasurer's Report of Financial Affairs for the Period September 1, 2013 through October 31, 2013 - Financial Report B4 (October 31, 2013)

SUMMARY

Issue: Record of increases or decreases in the cash position, assets and liabilities of Watermaster for the Period of September 1, 2013 through October 31, 2013.

Recommendation: Receive and file Treasurer's Report of Financial Affairs for the Period September 1, 2013 through October 31, 2013 as presented.

Financial Impact: Funds disbursed were included in the FY 2013-2014 Watermaster Budget.

Future Consideration

Advisory Committee: December 19, 2013; Receive and File

Watermaster Board: December 19, 2013; Receive and File (Normal Course of Business)

ACTIONS:

December 12, 2013 – Appropriative Pool – Unanimously approved

December 12, 2013 – Non-Agricultural Pool – Moved unanimously to receive and file, without approval

December 12, 2013 – Agricultural Pool – Unanimously approved

December 19, 2013 – Advisory Committee –

December 19, 2013 – Watermaster Board –

BACKGROUND

A Treasurer's Report of Financial Affairs for the Period September 1, 2013 through October 31, 2013 is provided to keep all members apprised of the total cash in banks (Bank of America, LAIF, and CalTRUST) and on hand at the Watermaster office (petty cash) at the end of the period stated. The Treasurer's Report details the change (increase or decrease) in the overall cash position of Watermaster, as well as the changes (increase or decrease) to the assets and liabilities section of the balance sheet. The report also provides a detailed listing of all deposits and/or withdrawals in the California State Treasurer's Local Agency Investment Fund (LAIF) and/or CalTRUST, the most current effective yield as of the last quarter, and the ending balance in LAIF as of the reporting date.

DISCUSSION

The Treasurer's Report of Financial Affairs has been created from various financial reports and statements created from QuickBooks Enterprise Solutions 13.0, 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
OCTOBER 1, 2013 THROUGH OCTOBER 31, 2013**

Financial Report - B4

DEPOSITORIES:

Cash on Hand - Petty Cash		\$	500
Bank of America			
Governmental Checking-Demand Deposits	\$	586,225	
Zero Balance Account - Payroll	\$	-	586,225
Local Agency Investment Fund - Sacramento			3,789,444
TOTAL CASH IN BANKS AND ON HAND	10/31/2013		\$ 4,376,169
TOTAL CASH IN BANKS AND ON HAND	9/30/2013		4,773,567
PERIOD INCREASE (DECREASE)			\$ (397,398)

CHANGE IN CASH POSITION DUE TO:

Decrease/(Increase) in Assets: Accounts Receivable		\$	3,517
Assessments Receivable			-
Prepaid Expenses, Deposits & Other Current Assets			-
(Decrease)/Increase in Liabilities: Accounts Payable			179,443
Accrued Payroll, Payroll Taxes & Other Current Liabilities			12,557
Transfer to/(from) Reserves			(592,915)
PERIOD INCREASE (DECREASE)			\$ (397,398)

SUMMARY OF FINANCIAL TRANSACTIONS:

	Petty Cash	Govt'l Checking Demand	Zero Balance Account Payroll	Local Agency Investment Funds	Totals
Balances as of 9/30/2013	\$ 500	\$ (12,815)	\$ -	\$ 4,785,882	\$ 4,773,567
Deposits	-	1,000,000	-	3,562	1,003,562
Transfers	-	(82,206)	72,393	(1,000,000)	(1,009,813)
Withdrawals/Checks	-	(318,754)	(72,393)	-	(391,148)
Balances as of 10/31/2013	\$ 500	\$ 586,225	\$ -	\$ 3,789,444	\$ 4,376,169
PERIOD INCREASE OR (DECREASE)	\$ -	\$ 599,040	\$ -	\$ (996,438)	\$ (397,398)

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CHINO BASIN WATERMASTER
 TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD
 OCTOBER 1, 2013 THROUGH OCTOBER 31, 2013

INVESTMENT TRANSACTIONS

Effective Date	Transaction	Depository	Activity	Redeemed	Days to Maturity	Interest Rate(*)	Maturity Yield
10/4/2013	Withdrawal	L.A.I.F	\$ (400,000)				
10/15/2013	Interest	L.A.I.F	\$ 3,562				
10/23/2013	Withdrawal	L.A.I.F	\$ (600,000)				
TOTAL INVESTMENT TRANSACTIONS			\$ (996,438)	-			

* The earnings rate for L.A.I.F. is a daily variable rate; 0.26% was the effective yield rate at the Quarter ended September 30, 2013.

INVESTMENT STATUS
 October 31, 2013

<u>Financial Institution</u>	Principal Amount	Number of Days	Interest Rate	Maturity Date
Local Agency Investment Fund	\$ 3,789,444			
TOTAL INVESTMENTS	\$ 3,789,444			

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

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

Respectfully submitted,

Joseph S. Joswiak
 Chief Financial Officer
 Chino Basin Watermaster

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CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: December 19, 2013

TO: Advisory Committee Members
Board Members

SUBJECT: Budget vs. Actual Report for the Period July 1, 2013 through October 31, 2013 -
Financial Report B5 (October 31, 2013)

SUMMARY

Issue: Record of revenues and expenses of Watermaster for the Period of July 1, 2013 through October 31, 2013.

Recommendation: Receive and file Budget vs. Actual Report for the Period July 1, 2013 through October 31, 2013 as presented.

Financial Impact: Funds disbursed were included in the FY 2013-2014 Watermaster Budget.

Future Consideration

Advisory Committee: December 19, 2013; Receive and File

Watermaster Board: December 19, 2013; Receive and File (Normal Course of Business)

ACTIONS:

December 12, 2013 – Appropriative Pool – Unanimously approved

December 12, 2013 – Non-Agricultural Pool – Moved unanimously to receive and file, without approval

December 12, 2013 – Agricultural Pool – Unanimously approved

December 19, 2013 – Advisory Committee –

December 19, 2013 – Watermaster Board –

BACKGROUND

A Budget vs. Actual Report for the period July 1, 2013 through October 31, 2013 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.

DISCUSSION

The Budget vs. Actual report has been created from QuickBooks Enterprise Solutions 13.0, the Watermaster accounting system. The Budget vs. Actual report provided, balances to the supporting documentation in the Watermaster accounting system, as well as the supporting bank statements.

There was a Budget Amendment approved during the October 2013 meetings as a result of increased costs related to the Wineville Proof of Concept Project. Budget Amendment Form (A-13-10-01) in the amount of \$62,150 increased the Amended FY 2013/14 budget from \$7,531,466 to \$7,593,616. Budget Amendment Form (A-13-10-01) was recorded to the accounting records for the accounting period ending October 31, 2013, and is included in this financial report. The amount of \$62,150 was included in account (7209.2) Wineville Basin.

Year-To-Date (YTD) for the four months ending October 31, 2013, all but four categories were at or below the projected budget. Overall, the (YTD) Actual Expenses were \$1,401,049 or 36.8% below the (YTD) Budgeted Expenses of \$3,810,741. The four categories above budget were the Watermaster Administrative Salary/Benefits Costs (6010's) over budget by the amount of \$27,771; Watermaster Legal Services (6070's) over budget by the amount of \$69,603; Insurance expenses (6080's) over budget by the amount of \$7,397; and Optimum Basin Management Plan expenses (6900's) over budget by the amount of \$12,321. Please note that the Watermaster Administrative Salary/Benefits Costs (6010's) are not the grand total of all Watermaster salary costs. The category (6010's) captures the portion of the total Watermaster Salary/Benefits Costs allocated to specific Administrative tasks. The consolidated Watermaster Salaries expenses, Watermaster Legal Services, and Optimum Basin Management Plan expenses are discussed in greater detail within their specific sections.

The Insurance budget was developed by Watermaster staff with the assumption of maintaining the existing levels of business insurance coverage as the previous fiscal years. There was no intent to add any new coverage(s). However, it was decided that Watermaster should apply and purchase Directors and Officers Liability Insurance, which had not been part of the Watermaster insurance policies in the past. The application for coverage was submitted by our insurance broker to approximately ten to fifteen insurance carriers in June 2013 and Watermaster was accepted and approved for coverage. The cost of the D&O coverage was approximately \$7,500 which included the annual broker fee. Within the next few months, as the current fiscal year progresses, a Budget Transfer Form could be submitted to adjust this budget category shortfall.

SALARIES EXPENSE

Watermaster utilizes an in-house database time and attendance system to allocate staff's actual hours worked and also allocates the hours to a specific project or activity. Watermaster staff time could be charged to Administrative, OBMP, or Implementation Project categories. Recently, some Watermaster staff spent more time on administrative related tasks and less time on specific OBMP or project related areas. When the FY 2013/14 budget was developed, basic assumptions were used in allocating how staff's time would be spent and on which 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. This is what is currently occurring within the Administrative Salary/Benefit costs category.

As of October 31, 2013, the total (YTD) Watermaster salary expenses are \$40,847 or 8.8% below the (YTD) budgeted amount of \$466,544. The budget was developed with a staffing level of nine Full-Time Equivalents (FTE's). As of October 31, 2013, the actual staffing level was eight Full-Time Equivalents (FTE's). The single vacant position was the Executive Assistant position which is currently being filled by a temporary employee from an Employment Agency. Those temporary employee costs are not included as part of the Salaries expenses listed below. Regarding the Executive Assistant, the position has been filled and the new hire started on Wednesday, December 4, 2013.

The table summarizes the Year-To-Date (YTD) Actual Watermaster salary costs compared to the Year-To-Date (YTD) Budget as of October 31, 2013. 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 table listed below shows how on a consolidated basis, the Watermaster employee activity compares with the budgeted activity. In some cases, the activity is above the budget, and in most cases, the activity is below the budget. The following details are provided:

	<u>Jul '13 - Oct '13</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>	<u>Annual Budget</u>
WM Salary Expense					
6011 · WM Staff Salaries	236,861.01	198,210.85	38,650.16	119.5%	585,623.00
6011.2 · WM Staff - Admin. Paid Leave	0.00	0.00	0.00	0.0%	0.00
6201 · Advisory Committee - WM Staff Salaries	4,029.07	6,690.68	-2,661.61	60.22%	19,768.00
6301 · Watermaster Board - WM Staff Salaries	5,982.62	11,270.44	-5,287.82	53.08%	33,299.00
8301 · Appropriative Pool - WM Staff Salaries	6,086.21	9,197.03	-3,110.82	66.18%	27,173.00
8401 · Agricultural Pool - WM Staff Salaries	5,602.48	7,907.15	-2,304.67	70.85%	23,362.00
8501 · Non-Agricultural Pool - WM Staff Salaries	1,848.14	4,810.92	-2,962.78	38.42%	14,214.00
6901 · OBMP - WM Staff Salaries	60,964.26	71,716.63	-10,752.37	85.01%	211,890.00
7101.1 · Production Monitor - WM Staff Salaries	19,840.70	27,381.20	-7,540.50	72.46%	80,899.00
7102.1 · In-line Meter - WM Staff Salaries	740.23	3,601.56	-2,861.33	20.55%	10,641.00
7103.1 · Grdwater Quality - WM Staff Salaries	6,820.82	21,502.72	-14,681.90	31.72%	64,261.00
7104.1 · Grdwater Level - WM Staff Salaries	22,227.67	20,143.55	2,084.12	110.35%	59,515.00
7105.1 · Sur Wtr Qual - WM Staff Salaries	0.00	0.00	0.00	0.0%	0.00
7107.1 · Grd Level Monitoring - WM Staff Salaries	0.00	0.00	0.00	0.0%	0.00
7108.1 · Hydraulic Control - WM Staff Salaries	0.00	597.81	-597.81	0.0%	2,355.00
7108.11 · Prado Basin - WM Staff Salaries	2,354.99	2,548.64	-193.65	92.4%	7,646.00
7201 · Comp Recharge - WM Staff Salaries	8,040.25	17,685.32	-9,645.07	45.46%	52,252.00
7301 · PE3&5 - WM Staff Salaries	182.76	4,760.45	-4,577.69	3.84%	14,065.00
7401 · PE4 - WM Staff Salaries	1,345.70	2,897.88	-1,552.18	46.44%	8,562.00
7501.1 · PE 6&7 - WM Staff Salaries (Plume)	0.00	2,089.65	-2,089.65	0.0%	6,174.00
7501 · PE6&7 - WM Staff Salaries	224.28	1,357.87	-1,133.59	16.52%	4,058.00
7601 · PE8&9 - WM Staff Salaries	1,061.79	6,413.16	-5,351.37	16.56%	18,948.00
7701 · Inactive Well - WM Staff Salaries	0.00	0.00	0.00	0.0%	0.00
Subtotal WM Staff Costs	384,212.98	420,783.51	-36,570.53	91.31%	1,244,705.00
60185 · Vacation	27,711.78	24,106.64	3,605.14	114.96%	60,320.00
60185.2 · Comp Time Accrual Adjustment	0.00	0.00	0.00	0.0%	0.00
60185.3 · Vacation Accrual Adjustment	0.00	0.00	0.00	0.0%	0.00
60186 · Sick Leave	4,211.37	14,436.00	-10,224.63	29.17%	43,308.00
60186.1 · Sick Leave Accrual Adjustment	0.00	0.00	0.00	0.0%	0.00
60187 · Holidays	9,561.20	7,218.00	2,343.20	132.46%	43,308.00
Subtotal WM Paid Leaves	41,484.35	45,760.64	-4,276.29	90.66%	146,936.00
Total WM Salary Costs	425,697.33	466,544.15	-40,846.82	91.25%	1,391,641.00

BROWNSTEIN HYATT FARBER SCHRECK EXPENSES

As of October 31, 2013, the total (YTD) BHFS legal expenses are \$105,720 or 35.7% above the (YTD) budgeted amount of \$295,747. Some of the specific legal categories were under budget for the month, while other categories were over the budget. At the present time, there is no proposal to complete a

Budget Transfer Form to adjust the existing BHFS legal services budget of \$757,490.

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 2013/14. The total budget was developed by multiplying the number of hours that would be required to complete the specific tasks by the hourly rate. Unfortunately, three specific activities were never included as part of the budget when initially developed and approved, and while another activity was anticipated and budgeted for, it was not budgeted at the level of legal support required. These activities were Personnel Matters (6073), CCG Motion (6078.12), Safe Yield Recalculation (6907.42), and RMPU-City of Fontana Motion (6907.43). Over the next few months, as the current fiscal year progresses, a Budget Transfer Form could be submitted to adjust this budget category shortfall.

CCG Motion, Safe Yield Recalculation and RMPU-City of Fontana Motion: As new legal activities are established, an account code is developed and assigned to capture the costs. To date, there have been three new accounts created. As of October 31, 2013 the CCG Motion (6078.12) has cumulative year-to-date costs of \$64,772; Safe Yield Recalculation (6907.42) has cumulative year-to-date costs of \$46,461; and RMPU-City of Fontana Motion (6907.43) has cumulative year-to-date costs of \$36,061. Please note these costs were not anticipated or expected when the FY 2013/14 legal services budget was developed and approved.

Personnel Matters: As reported during the current monthly meetings, Watermaster's legal counsel filed an appeal with CalPERS regarding CalPERS original determination (from February 2013) which rejected the base salary of the former CEO, Desi Alvarez, with regards to his retirement pension benefit. There have been several filings of appeal and we are awaiting CalPERS determination. Aside from the Alvarez appeal and a separate issue, a former employee's attorney has recently informed Watermaster of a potential wrongful termination suit against Watermaster. As of October 31, 2013 both activities totaled \$43,772 and these activities were not part of the original fiscal year budget amount of \$757,490. These two separate legal activities will continue until a resolution is reached. These activities are recorded under Personnel Matters (6073). The anticipated activity for this category was the General Manager's annual evaluation, along with the development of the General Manager's employment contract. All of the ongoing employment related costs for the General Manager was budgeted at \$7,000. The cost to date for this activity is \$6,084.

As approved during the June 2013 meetings, the Pools, Advisory Committee and the Board meeting for the month of July 2013 were not held. However, there were several other special and confidential meetings held during the month of July for the Appropriative Pool, Agricultural Pool and Board. As a result, the related meeting expenses from (BHFS) within the accounts (6275, 6375, 8375, 8475 and 8575) were lower than budgeted. Overall, this category of legal expenses as of October 31, 2013 was \$9,089 or 12.5% below the budgeted amount of \$72,880.

The OBMP legal expenses were above the budget for the month. As mentioned above, there were two new accounts added to the OBMP section. The accounts were the Safe Yield Recalculation (6907.42) and the RMPU-City of Fontana Motion (6907.43). Both accounts do not have budget dollars allocated. The Recharge Master Plan legal expenses were \$31,744 or 80.0% above the budget of \$39,700. As of October 31, 2013 this category of legal expenses was \$45,205 or 35.3% above the budgeted amount of \$128,050.

The table listed below summarizes the Brownstein Hyatt Farber Schreck (BHFS) expenses as of October 31, 2013 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:

	<u>Jul '13 - Oct '13</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>	<u>Annual Budget</u>
6070 · Watermaster Legal Services					
6071 · BHFS Legal - Court Coordination	3,869.59	12,508.36	-8,638.77	30.94%	37,525.00
6072 · BHFS Legal - Annotated Judgment	17,122.47	24,233.32	-7,110.85	70.66%	36,350.00
6073 · BHFS Legal - Personnel Matters	49,855.98	7,000.00	42,855.98	712.23%	7,000.00
6074 · BHFS Legal - Interagency Issues	0.00	16,800.00	-16,800.00	0.0%	50,400.00
6075 · BHFS Legal - Replenishment Water	0.00	0.00	0.00	0.0%	0.00
6076 · BHFS Legal - Storage Issues	0.00	0.00	0.00	0.0%	0.00
6077 · BHFS Legal - Party Status Maintenance	0.00	8,566.64	-8,566.64	0.0%	25,700.00
6078 · BHFS Legal - Miscellaneous (Note 1)	28,799.66	10,908.36	17,891.30	264.02%	32,725.00
6078.10 · BHFS Legal - Refresh, Recharge, Reunite	0.00	0.00	0.00	0.0%	0.00
6078.11 · BHFS Legal - Safe Yield Recalculation	0.00	0.00	0.00	0.0%	0.00
6078.12 · BHFS Legal - CCG Motion	64,772.44	0.00	64,772.44	100.0%	0.00
6078.20 · BHFS Legal - Approp. Pool Issue Resolution	0.00	14,800.00	-14,800.00	0.0%	44,400.00
Total 6070 · Watermaster Legal Services	164,420.14	94,816.68	69,603.46	173.41%	234,100.00
6275 · BHFS Legal - Advisory Committee	3,691.42	11,200.00	-7,508.58	32.96%	33,600.00
6375 · BHFS Legal - Board Meeting	28,364.58	28,080.00	284.58	101.01%	84,240.00
8375 · BHFS Legal - Appropriative Pool	7,070.38	11,200.00	-4,129.62	63.13%	33,600.00
8475 · BHFS Legal - Agricultural Pool	6,837.85	11,200.00	-4,362.15	61.05%	33,600.00
8575 · BHFS Legal - Non-Ag Pool	17,826.61	11,200.00	6,626.61	159.17%	33,600.00
Total BHFS Legal Services	63,790.84	72,880.00	-9,089.16	87.53%	218,640.00
6907.3 · WM Legal Counsel					
6907.30 · Peace II - CEQA	0.00	0.00	0.00	0.0%	0.00
6907.31 · Archibald South Plume	0.00	9,491.64	-9,491.64	0.0%	28,475.00
6907.32 · Chino Airport Plume	8,381.69	20,400.00	-12,018.31	41.09%	61,200.00
6907.33 · Desalter/Hydraulic Control	7,789.95	16,366.64	-8,576.69	47.6%	49,100.00
6907.34 · Santa Ana River Water Rights	1,150.45	9,466.64	-8,316.19	12.15%	28,400.00
6907.35 · Paragraph 31 Motion	0.00	0.00	0.00	0.0%	0.00
6907.36 · Santa Ana River Habitat	684.45	7,500.00	-6,815.55	9.13%	22,500.00
6907.37 · Water Auction	0.00	0.00	0.00	0.0%	0.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	4,283.36	-4,283.36	0.0%	12,850.00
6907.39 · Recharge Master Plan	71,443.98	39,700.00	31,743.98	179.96%	39,700.00
6907.40 · Storage Agreements	1,283.40	6,233.36	-4,949.96	20.59%	18,700.00
6907.41 · Prado Basin Habitat Sustainability	0.00	6,233.36	-6,233.36	0.0%	18,700.00
6907.42 · Safe Yield Recalculation	46,460.68	0.00	46,460.68	100.0%	0.00
6907.43 · RMPU - City of Fontana Motion	36,060.75	0.00	36,060.75	100.0%	0.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	8,375.00	-8,375.00	0.0%	25,125.00
Total 6907 · WM Legal Counsel	173,255.35	128,050.00	45,205.35	135.3%	304,750.00
Total Brownstein, Hyatt, Farber, Schreck Costs	401,466.33	295,746.68	105,719.65	135.75%	757,490.00

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, 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 (7) Miscellaneous legal research on current and pending issues.

OBMP ENGINEERING SERVICES AND LEGAL COSTS

For October 31, 2013, the accounts 6901-6906 (Optimum Basin Mgmt Program) section was below the Year-To-Date (YTD) budget by \$21,132 or 10.2%.

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 \$114,266 while some other line item activities were below the budget by \$69,061. Above the budget line items were the Recharge Master Plan of \$31,744; the Safe Yield Recalculation of \$46,461; and the RMPU-City of Fontana Motion of \$36,061. The individual legal projects/activities that were below budget for the Year-To-Date (YTD) period were the Archibald South Plume of \$9,492; the Chino Airport Plume of \$12,018; the Desalter/Hydraulic Control of

\$8,577; the Santa Ana River Water Rights of \$8,316; the Santa Ana River Habitat of \$6,816; the Regional Water Quality Control Board of \$4,283; Storage Agreements of \$4,950; the Prado Basin Habitat Sustainability of \$6,234; and the WM Unanticipated of \$8,375. For the four months ended October 31, 2013, the overall cumulative (YTD) budget was \$128,050 and the actual (BHFS) legal expenses totaled \$173,255 which resulted in an over budget variance of \$45,205 or 35.3%.

The OBMP Other Expenses (6909's) were below the budget for the month. As of October 31, 2013 this category of expenses was \$2,460 or 73.8% below the budgeted amount of \$3,333.

Overall, the Optimum Basin Management Program (OBMP) category was \$433,670 compared to a (YTD) budget of \$421,349 for an over budget of \$12,321 or 2.9% as of October 31, 2013.

The table listed below summarizes the Optimum Basin Management Program (OBMP) expenses as of October 31, 2013 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:

	<u>Jul '13 - Oct '13</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>	<u>Annual Budget</u>
6900 · Optimum Basin Mgmt Plan					
6901 · WM Staff Salaries	60,964.26	71,716.63	-10,752.37	85.01%	211,890.00
6903 · OBMP SAWPA Group	12,460.00	11,000.00	1,460.00	113.27%	11,000.00
6906 · OBMP Engineering Services					
6906.1 · OBMP - Watermaster Model Update	94,505.25	101,000.00	-6,494.75	93.57%	101,000.00
6906.7 · OBMP - Data Requests	852.50	0.00	852.50	100.0%	0.00
6906.71 · OBMP - Misc. GM Requests	36,731.65	0.00	36,731.65	100.0%	0.00
6906.72 · OBMP - Data Requests - Non CBWM	4,444.25	0.00	4,444.25	100.0%	0.00
6906.73 · OBMP - Safe Yield	14,787.79	0.00	14,787.79	100.0%	0.00
6906.8 · OBMP - Reports	0.00	0.00	0.00	0.0%	50,000.00
6906 · OBMP Engineering Services - Other	34,796.07	106,249.36	-71,453.29	32.75%	318,748.00
Total 6906 · OBMP Engineering Services	186,117.51	207,249.36	-21,131.85	89.8%	469,748.00
6907 · OBMP Legal Fees					
6907.3 · WM Legal Counsel					
6907.30 · Peace II - CEQA	0.00	0.00	0.00	0.0%	0.00
6907.31 · Archibald South Plume	0.00	9,491.64	-9,491.64	0.0%	28,475.00
6907.32 · Chino Airport Plume	8,381.69	20,400.00	-12,018.31	41.09%	61,200.00
6907.33 · Desalter/Hydraulic Control	7,789.95	16,366.64	-8,576.69	47.6%	49,100.00
6907.34 · Santa Ana River Water Rights	1,150.45	9,466.64	-8,316.19	12.15%	28,400.00
6907.35 · Paragraph 31 Motion	0.00	0.00	0.00	0.0%	0.00
6907.36 · Santa Ana River Habitat	684.45	7,500.00	-6,815.55	9.13%	22,500.00
6907.37 · Water Auction	0.00	0.00	0.00	0.0%	0.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	4,283.36	-4,283.36	0.0%	12,850.00
6907.39 · Recharge Master Plan	71,443.98	39,700.00	31,743.98	179.96%	39,700.00
6907.40 · Storage Agreements	1,283.40	6,233.36	-4,949.96	20.59%	18,700.00
6907.41 · Prado Basin Habitat Sustainability	0.00	6,233.36	-6,233.36	0.0%	18,700.00
6907.42 · Safe Yield Recalculation	46,460.68	0.00	46,460.68	100.0%	0.00
6907.42 · RMPU - City of Fontana Motion	36,060.75	0.00	36,060.75	100.0%	0.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	8,375.00	-8,375.00	0.0%	25,125.00
Total 6907 · WM Legal Counsel	173,255.35	128,050.00	45,205.35	135.3%	304,750.00
Total 6907 · OBMP Legal Fees	173,255.35	128,050.00	45,205.35	135.3%	304,750.00
6909 · OBMP Other Expenses					
6909.1 · OBMP Meetings	873.10	0.00	873.10	100.0%	0.00
6909.3 · Other OBMP Expenses	0.00	0.00	0.00	0.0%	1,977.00
6909.4 · Printing	0.00	0.00	0.00	0.0%	0.00
6909.5 · Ad Hoc Litigation Committee	0.00	0.00	0.00	0.0%	0.00
6909.6 · OBMP Expenses - Miscellaneous	0.00	3,333.36	-3,333.36	0.0%	10,000.00
Total 6909 · OBMP Other Expenses	873.10	3,333.36	-2,460.26	26.19%	11,977.00
Total 6900 · Optimum Basin Mgmt Plan	433,670.22	421,349.35	12,320.87	102.92%	1,009,365.00

OBMP IMPLEMENTATION PROJECTS COSTS

As of October 31, 2013, the total (YTD) Engineering Services expenses are \$459,527 or 44.5% below the (YTD) budget amount of \$827,847. The OBMP Implementation Projects (accounts 7100's – 7700's) were all (Under) budget as of October 31, 2013.

The approved original Engineering Services budget of \$1,825,362 was increased by \$107,406 to the final amended amount of \$1,932,768 for FY 2013/14 as provided in the Task Order. The amount of \$107,406 is comprised of \$19,508 from account (7107.2) and \$87,898 from account (7108.7), both amounts from FY 2012/13 which have been "Carried Over" into the current FY 2013/14 budget. The breakdown of the total Task Order amount of \$1,932,768 includes direct labor costs for Wildermuth Environmental, Inc. (69%) along with other direct charges such as equipment rental, laboratory fees, travel costs, reproduction costs, and outside professional services (31%).

While the year-to-date actual expenses as of October 31, 2013 are currently under budget, there are no immediate plans to rearrange or adjust the overall Engineering Services budget to reflect any anticipated savings. The latest Wildermuth Environmental, Inc. projection for the Engineering Services budget anticipates the full amount of budgeted funds being used in the upcoming months.

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 October 31, 2013. 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 '13 - Oct '13	Budget	\$ Over Budget	% of Budget	Annual Budget
6906 · OBMP Engineering Services - Other	34,796.07	106,249.36	-71,453.29	32.75%	318,748.00
6906.1 · OBMP - Watermaster Model Update	94,505.25	101,000.00	-6,494.75	93.57%	101,000.00
6906.7 · OBMP - Data Requests	852.50	0.00	852.50	100.0%	0.00
6906.71 · OBMP - Misc. GM Requests	36,731.65	0.00	36,731.65	100.0%	0.00
6906.72 · OBMP - Data Requests - Non CBWM	4,444.25	0.00	4,444.25	100.0%	0.00
6906.73 · OBMP - Safe Yield	14,787.79	0.00	14,787.79	100.0%	0.00
7103.3 · Grdwtr Qual-Engineering	36,836.25	33,293.36	3,542.89	110.64%	90,880.00
7103.5 · Grdwtr Qual-Lab Svcs	0.00	12,929.36	-12,929.36	0.0%	38,788.00
7104.3 · Grdwtr Level-Engineering	40,573.81	65,780.00	-25,206.19	61.68%	197,340.00
7104.8 · Grdwtr Level-Contracted Services	0.00	3,333.36	-3,333.36	0.0%	10,000.00
7104.9 · Grdwtr Level-Capital Equipment	0.00	3,481.25	-3,481.25	0.0%	13,925.00
7107.2 · Grd Level-Engineering	18,751.68	40,835.36	-22,083.68	45.92%	83,490.00
7107.3 · Grd Level-SAR Imagery	14,123.75	22,500.00	-8,376.25	62.77%	90,000.00
7107.6 · Grd Level-Contract Svcs	0.00	47,080.00	-47,080.00	0.0%	141,240.00
7107.61 · Grd Level-Chino Hills ASR	19,096.00	13,885.00	5,211.00	137.53%	41,655.00
7107.8 · Grd Level-Cap Equip Exte	0.00	2,607.00	-2,607.00	0.0%	10,428.00
7108.3 · Hydraulic Control-Engineering	13,567.68	42,151.00	-28,583.32	32.19%	126,453.00
7108.31 · Hydraulic Control-PBHSP	0.00	18,725.00	-18,725.00	0.0%	56,175.00
7108.4 · Hydraulic Control-Lab Svcs	20,625.00	8,512.00	12,113.00	242.31%	25,536.00
7108.41 · Hydraulic Control-PBHSP	0.00	16,086.64	-16,086.64	0.0%	48,260.00
7108.7 · Hydraulic Control-Prado Basin Habitat	14,093.34	100,431.00	-88,337.66	14.03%	119,497.00
7108.9 · Hydraulic Control-Contract Svcs	0.00	0.00	0.00	0.0%	0.00
7109.3 · Recharge & Well - Engineering	0.00	7,000.00	-7,000.00	0.0%	21,000.00
7202.2 · Comp Recharge-Engineering Services	0.00	7,108.00	-7,108.00	0.0%	21,324.00
7202.3 · Comp Recharge-Implementation	76,659.81	88,529.99	-11,870.18	86.59%	118,040.00
7303 · PE3&5-Engineering - Other	0.00	13,194.64	-13,194.64	0.0%	39,584.00
7402 · PE4-Engineering	14,429.47	25,405.00	-10,975.53	56.8%	76,215.00
7403 · PE4-Contract Svcs	0.00	6,743.36	-6,743.36	0.0%	20,230.00
7502 · PE6&7-Engineering	4,652.71	33,626.64	-28,973.93	13.84%	100,880.00
7502.1 · PE6&7-Engineering Svcs (Plume)	0.00	0.00	0.00	0.0%	0.00
7602 · PE8&9-Engineering	0.00	7,360.00	-7,360.00	0.0%	22,080.00
Total Wildermuth Environmental, Inc. Costs	459,527.01	827,847.32	-368,320.31	55.51%	1,932,768.00

* Wildermuth and Subcontractor Engineering Budget of \$1,825,362 plus Carryover Funds from FY 2012/13 of \$107,406 = \$1,932,768
Carryover Funds FY 2012/13 = \$19,508 (7107.2) and \$87,898 (7108.7) = \$107,406

PRADO BASIN HABITAT SUSTAINABILITY PROGRAM

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

The process of invoicing IEUA for their 50% portion of the (WEI) invoices will be completed by Watermaster staff at the end of every quarter. The information listed below is provided for the period of May 1, 2012 through October 31, 2013:

	Wildermuth Environmental, Inc.	50% Billing "TO" IEUA	50% Billing "FROM" IEUA	Costs For Watermaster	Watermaster Staff "Hours"	Watermaster Staff "Costs"
May 2012 - Jun. 2012	\$ 11,143.75	\$ (5,571.88)	\$ -	\$ 5,571.88	4.00	\$ 411.38
Jul. 2012 - Jun. 2013	\$ 120,945.28	\$ (60,472.64)	\$ 6,275.92	\$ 66,748.56	73.00	\$ 7,837.27
Jul. 2013 - Oct. 2013	\$ 14,093.34	\$ (7,046.67)	\$ 474.09	\$ 7,520.76	23.00	\$ 2,354.99
Totals	\$ 146,182.37	\$ (73,091.19)	\$ 6,750.01	\$ 79,841.20	100.00	\$ 10,603.64
	7108.7	7108.71, 7108.72	7108.75			7108.11

OTHER INCOME AND EXPENSE

There were no other significant items to report within the category of Other Income and Expenses for the month ending October 31, 2013.

"CARRY OVER" FUNDING

The Watermaster Board approved the Operating Cash Reserve Policy 4.17 on March 22, 2012. Section 4.17.6 of the policy (Carry-over Expenses) provides Watermaster staff the authority to carryover unfinished capital projects or related expenses from one fiscal year to the next. These expenses would be included as an amendment to the current year's budget. However, because these unfinished capital projects or related expenses had been previously funded from the Assessment process, they would be excluded from the upcoming Assessment process. If these expenses were not excluded, they would be funded for multiple times over. The current policy does not address a minimum or maximum dollar amount or how long the carryover expenses can be maintained.

Once the FY 2012/13 period as of June 30, 2013 was closed, the amount of unfinished capital projects and related engineering costs were calculated and the "Carry Over" funding amount was added to the current FY 2013/14 budget. The Total "Carry Over" funding amount of \$806,730 was posted to the accounts as of July 31, 2013. The total amount of \$806,730 consisted of \$529,924 "Carried Over" from the FY 2012/13 expense funding and \$276,806 "Carried Over" from FY 2011/12 expense funding. The remaining amount of \$104,977 from FY 2011/12 for the Chino Hills ASR Project has been combined with

the remaining funding amount of \$122,518 from FY 2012/13 for the Chino Hills ASR Project for a total amount of \$227,495 in account 7107.62 ($\$104,977 + \$122,518 = \$227,495$).

Unspent funds from the Engineering Services budget from FY 2012/13 in account 7107.2 and 7108.7 ($\$19,508$ and $\$87,898$ respectively) were "Carried Over" into the current FY 2013/14 budget. These funds were from the Ground Level Monitoring (7107.2) and the Prado Basin Hydraulic Control (7108.7).

The Recharge Proof of Concept amount of \$300,000 from FY 2012/13 (account 7209) was "Carried Over" into the budget for FY 2013/14. An amount of \$150,000 has been coded to account (7209.1) for the Jurupa Pumping Station and the remaining amount of \$150,000 has been coded to account (7209.2) for the Wineville Basin Proof of Concept.

Watermaster carried over \$171,829 ($\$61,236 + \$30,900 = \$79,693 = \$171,829$) from FY 2011/12 into the Recharge Improvements Project categories. The amount of \$272,829 was the original total amount from FY 2011/12 less the amount of \$101,000 spent in FY 2012/13 leaving the balance of \$171,829 to carry over into the FY 2013/14 ($\$272,829 - \$101,000 = \$171,829$). The amount of \$61,236 has been appropriated for use for the ongoing Turner Basin Improvements (7690.2). The amount of \$30,900 has been appropriated for the Hickory Basin improvement project (7690.3) while the remaining amount of \$79,693 has been appropriated for Other Recharge Improvement Projects (7690.9).

As invoices are received from the vendors and booked against these items listed above, the "Carried Over" balance will be reduced throughout the current fiscal year. At June 30, 2014, any remaining balances of the FY 2011/12 and FY 2012/13 expenses (if any), along with any new FY 2013/14 expenses, will then be "Carried Over" into the FY 2014/15 budget.

As of October 31, 2013, the total (YTD) amount remaining of the "Carried Over" funding is \$728,740 ($\$806,730 - \$77,990 = \$728,740$). The following details are provided:

"Carried Over" Expenses At June 30, 2013

		GL Account	
Chino Hills ASR Project	\$ 104,977.00	7107.62	FY 2011/12
Recharge Improvement Project - Turner Basin	\$ 61,236.00	7690.2	FY 2011/12
Recharge Improvement Project - Hickory Basin	\$ 30,900.00	7690.3	FY 2011/12
Recharge Improvement Project - Misc. Basins	\$ 79,693.00	7690.9	FY 2011/12
Subtotal FY 2011/12 "Carry Over"	<u>\$ 276,806.00</u>		
Ground Level Monitoring - Engineering	\$ 19,508.00	7107.2	FY 2012/13
Hydraulic Control - Prado Basin - Other	\$ 87,898.00	7108.7	FY 2012/13
Recharge Proof of Concept	\$ 300,000.00	7209	FY 2012/13
Chino Hills ASR Project	\$ 122,518.00	7107.61	FY 2012/13
Subtotal FY 2012/13 "Carry Over"	<u>\$ 529,924.00</u>		
Total Balance, June 30, 2013	<u>\$ 806,730.00</u>		

"Carried Over" Expenses At June 30, 2013

Chino Hills ASR Project	\$ 227,495.00	7107.62
Ground Level Monitoring - Engineering	\$ 19,508.00	7107.2
Hydraulic Control - Prado Basin - Other	\$ 87,898.00	7108.7
Jurupa Pumping Station	\$ 150,000.00	7209.1
Wineville Basin Proof of Concept	\$ 150,000.00	7209.2
Recharge Improvement Project - Turner Basin	\$ 61,236.00	7690.2
Recharge Improvement Project - Hickory Basin	\$ 30,900.00	7690.3
Recharge Improvement Project - Misc. Basins	\$ 79,693.00	7690.9
Total Balance, June 30, 2013	<u>\$ 806,730.00</u>	

"Carried Over" Balance, July 1, 2013	\$ 806,730.00	
Less: (Invoices Received To Date FY 2013/14)		
Ground Level Monitoring - Engineering	\$ (6,543.50)	7107.2
Hydraulic Control - Prado Basin - Other	\$ (8,214.34)	7108.7
Wineville Basin Proof of Concept	\$ (32,332.18)	7209.2
Recharge Improvement Project - Hickory Basin	\$ (30,900.00)	7690.3
Updated Balance as of October 31, 2013	<u>\$ 728,739.98</u>	

AUDIT FIELD WORK

Auditors from the audit firm of Charles Z. Fedak & Company were previously onsite at the Watermaster offices on May 29th through May 30th and August 12th through August 14th to conduct scheduled field work for the FY 2012/13 financial audit. Final field work was completed and the audit firm developed the Annual Financial and Audit Reports to be issued in early November 2013. The presentation of the "Draft" Annual Financial and Audit Reports to the Board by the Senior Manager of Charles Z. Fedak & Company was presented on November 21, 2013. The "Final" Annual Financial and Audit Reports will be posted to the Watermaster website before December 23, 2013.

ASSESSMENT INVOICING

The Watermaster Board approved the FY 2013/14 Assessment Package at the November 21, 2013 meeting. Watermaster staff also created and emailed the Assessment invoices on Thursday, November 21, 2013. The Assessment invoices are due 30 days from invoice date, so payment should be received by Watermaster on or before Monday, December 23, 2013, prior to the Holiday office closure.

This year's Assessment invoicing included the standard Assessment amounts per the Assessment Package, along with any Special Assessments and the "Excess Cash Reserve" refund credits. The Appropriative Pool had a Special Assessment of \$75,000 as approved during the budgeting process. The \$75,000 was allocated to the Appropriative Pool members based upon prorated actual production numbers from 2012/13. The Non-Agricultural Pool had a Special Assessment of \$60,000 as approved during a Confidential Session on September 12, 2013. The \$60,000 was allocated to the Non-Agricultural Pool members based upon prorated actual production numbers from 2012/13. The Excess Cash Reserves refunds were \$9,493 to the Appropriative Pool members and \$2,491 to the Non-Agricultural Pool members. The refunds were applied as credits on the Assessment invoices and allocated based upon last year's percentage of assessments paid.

This year's Assessment invoicing included the billing for the Pomona Credit for the current year, as well as the prior year's activity which was not billed for. If you recall, last year's payment to the City of Pomona in the amount of \$53,030.93 was paid in the month of March 2013 as approved by the Board on February 28, 2013. The City of Pomona received a credit on their Assessment invoice in the amount of \$53,030.93 for this year.

Also included on the Assessment invoices was the 5th and final "True-Up" billing of the Appropriative Pool members for the Non-Agricultural Pool Stored Water Purchase. Per the terms of the Paragraph 31 Settlement Agreement dated April 18, 2012, the 5th and final annual payment totaling \$3,873,238.87 is due to the Non-Agricultural Pool members for the Stored Water Purchase on or before January 15, 2014.

ATTACHMENTS

1. Financial Report - B5

	1/12th (8.33%) of the Total Budget				4/12th (33%) of the Total Budget				100% of the Total Budget			
	For The Month of October 2013				Year-To-Date as of October 31, 2013				Fiscal Year End as of June 30, 2014			
	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%	153,035.68	154,581.00	-1,545.32	99.0%	154,581.00	154,581.00	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%	6,361,227.00	6,361,227.00	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%	241,378.00	241,378.00	0.00	100.0%
4700 · Non Operating Revenues	0.00	0.00	0.00	0.0%	3,550.10	4,455.00	-904.90	79.69%	29,700.00	29,700.00	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	0.00	0.00	0.00	0.0%	156,585.78	159,036.00	-2,450.22	98.46%	6,786,886.00	6,786,886.00	0.00	100.0%
Gross Profit	0.00	0.00	0.00	0.0%	156,585.78	159,036.00	-2,450.22	98.46%	6,786,886.00	6,786,886.00	0.00	100.0%
Expense												
6010 · Admin. Salary/Benefit Costs	73,661.81	59,225.78	14,436.03	124.38%	249,164.87	221,393.51	27,771.36	112.54%	617,747.00	617,747.00	0.00	100.0%
6020 · Office Building Expense	9,136.84	8,649.00	487.84	105.64%	34,060.98	35,132.00	-1,071.02	96.95%	106,630.00	106,630.00	0.00	100.0%
6030 · Office Supplies & Equip.	3,353.58	2,158.33	1,195.25	155.38%	7,095.13	7,633.36	-538.23	92.95%	22,900.00	22,900.00	0.00	100.0%
6040 · Postage & Printing Costs	3,143.42	5,858.33	-2,714.91	53.66%	14,872.77	19,083.36	-4,210.59	77.94%	57,900.00	57,900.00	0.00	100.0%
6050 · Information Services	8,946.18	8,708.00	238.18	102.74%	50,901.39	58,832.00	-7,930.61	86.52%	140,496.00	140,496.00	0.00	100.0%
6060 · Contract Services	0.00	0.00	0.00	0.0%	5,036.38	7,500.00	-2,463.62	67.15%	24,800.00	24,800.00	0.00	100.0%
6070 · Watermaster Legal Services	15,578.19	18,925.00	-3,346.81	82.32%	164,420.14	94,816.68	69,603.46	173.41%	234,100.00	234,100.00	0.00	100.0%
6080 · Insurance	0.00	0.00	0.00	0.0%	26,504.24	19,107.00	7,397.24	138.72%	19,107.00	19,107.00	0.00	100.0%
6110 · Dues and Subscriptions	0.00	100.00	-100.00	0.0%	13,217.00	13,260.00	-43.00	99.68%	17,825.00	17,825.00	0.00	100.0%
6140 · WM Admin Expenses	300.00	200.00	100.00	150.0%	369.01	800.00	-430.99	46.13%	2,400.00	2,400.00	0.00	100.0%
6150 · Field Supplies	648.58	600.00	48.58	108.1%	950.96	1,000.00	-49.04	95.1%	1,400.00	1,400.00	0.00	100.0%
6170 · Travel & Transportation	2,080.22	1,060.00	1,020.22	196.25%	6,346.42	6,856.68	-510.26	92.56%	16,220.00	16,220.00	0.00	100.0%
6190 · Conferences & Seminars	1,603.80	1,650.00	-46.20	97.2%	4,653.60	4,800.00	-146.40	96.95%	12,500.00	12,500.00	0.00	100.0%
6200 · Advisory Comm - WM Board	2,398.01	4,632.04	-2,234.03	51.77%	7,720.49	18,224.04	-10,503.55	42.36%	54,368.00	54,368.00	0.00	100.0%
6300 · Watermaster Board Expenses	8,982.49	12,778.18	-3,795.69	70.3%	45,360.13	50,600.44	-5,240.31	89.64%	151,289.00	151,289.00	0.00	100.0%
8300 · Appr PI-WM & Pool Admin	31,414.28	11,495.44	19,918.84	273.28%	41,033.58	45,563.67	-4,530.09	90.06%	136,273.00	136,273.00	0.00	100.0%
8400 · Agri Pool-WM & Pool Admin	4,144.75	5,016.64	-871.89	82.62%	13,198.56	19,707.15	-6,508.59	66.97%	58,762.00	58,762.00	0.00	100.0%
8467 · Ag Legal & Technical Services	8,250.00	17,583.33	-9,333.33	46.92%	39,745.00	70,333.36	-30,588.36	56.51%	211,000.00	211,000.00	0.00	100.0%
8470 · Ag Meeting Attend -Special	1,750.00	1,525.00	225.00	114.75%	8,125.00	6,100.00	2,025.00	133.2%	18,300.00	18,300.00	0.00	100.0%
8471 · Ag Pool Expense	0.00	0.00	0.00	0.0%	0.00	27,500.00	-27,500.00	0.0%	65,000.00	65,000.00	0.00	100.0%
8485 · Ag Pool - Misc. Exp. - Ag Fund	0.00	100.00	-100.00	0.0%	94.06	200.00	-105.94	47.03%	400.00	400.00	0.00	100.0%
8500 · Non-Ag PI-WM & Pool Admin	10,902.92	9,265.72	1,637.20	117.67%	32,278.36	36,844.28	-4,565.92	87.61%	110,314.00	110,314.00	0.00	100.0%
6500 · Education Funds Use Expens	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
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	-19,624.50	-43,024.56	23,400.06	45.61%	-73,144.07	-200,286.62	127,142.55	36.52%	-568,626.00	-568,626.00	0.00	100.0%
6900 · Optimum Basin Mgmt Plan	89,424.84	68,227.28	21,197.56	131.07%	433,670.22	421,349.35	12,320.87	102.92%	1,009,365.00	1,009,365.00	0.00	100.0%
6950 · Mutual Agency Projects	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	10,000.00	10,000.00	0.00	100.0%
9501 · G&A Expenses Allocated-OBMP	7,535.72	17,284.17	-9,748.45	43.6%	32,033.41	80,460.74	-48,427.33	39.81%	228,433.00	228,433.00	0.00	100.0%
7101 · Production Monitoring	6,887.47	7,218.95	-331.48	95.41%	20,090.70	27,631.20	-7,540.50	72.71%	81,649.00	81,649.00	0.00	100.0%
7102 · In-line Meter Installation	61.69	5,230.90	-5,169.21	1.18%	740.23	34,926.56	-34,186.33	2.12%	104,616.00	104,616.00	0.00	100.0%
7103 · Grdwtr Quality Monitoring	10,535.60	16,230.14	-5,694.54	64.91%	44,501.04	70,528.76	-26,027.72	63.1%	202,339.00	202,339.00	0.00	100.0%
7104 · Gdwtr Level Monitoring	16,972.75	25,064.79	-8,092.04	67.72%	62,801.48	98,274.80	-35,473.32	63.9%	292,840.00	292,840.00	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%

	1/12th (8.33%) of the Total Budget				4/12th (33%) of the Total Budget				100% of the Total Budget			
	For The Month of October 2013				Year-To-Date as of October 31, 2013				Fiscal Year End as of June 30, 2014			
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
7107 · Ground Level Monitoring	9,142.30	20,573.08	-11,430.78	44.44%	51,971.43	354,402.36	-302,430.93	14.67%	594,308.00	594,308.00	0.00	100.0%
7108 · Hydraulic Control Monitoring	30,076.65	26,581.05	3,495.60	113.15%	51,115.10	196,249.30	-145,134.20	26.05%	406,943.00	406,943.00	0.00	100.0%
7109 · Recharge & Well Monitoring Prog	0.00	1,750.00	-1,750.00	0.0%	0.00	7,000.00	-7,000.00	0.0%	21,000.00	21,000.00	0.00	100.0%
7200 · PE2- Comp Recharge Pgm	202,370.25	217,596.63	-15,226.38	93.0%	519,965.41	881,027.95	-361,062.54	59.02%	1,358,042.00	1,358,042.00	0.00	100.0%
7300 · PE3&5-Water Supply/Desalte	182.76	5,126.21	-4,943.45	3.57%	209.99	20,288.45	-20,078.46	1.04%	60,649.00	60,649.00	0.00	100.0%
7400 · PE4- Mgmt Plan	8,596.51	9,002.82	-406.31	95.49%	16,512.21	35,879.60	-19,367.39	46.02%	107,507.00	107,507.00	0.00	100.0%
7500 · PE6&7-CoopEfforts/SaltMgmt	611.78	9,280.59	-8,668.81	6.59%	4,876.99	37,074.16	-32,197.17	13.16%	111,112.00	111,112.00	0.00	100.0%
7600 · PE8&9-StorageMgmt/Conj Use	857.28	3,545.34	-2,688.06	24.18%	1,061.79	13,889.80	-12,828.01	7.64%	41,378.00	41,378.00	0.00	100.0%
7690 · Recharge Improvement Debt Pymt	30,900.00	76,984.67	-46,084.67	40.14%	437,026.50	846,764.16	-409,737.66	51.61%	1,111,637.00	1,111,637.00	0.00	100.0%
7700 · Inactive Well Protection Prgm	0.00	41.67	-41.67	0.0%	0.00	166.64	-166.64	0.0%	500.00	500.00	0.00	100.0%
9502 · G&A Expenses Allocated-Projects	12,088.78	25,740.39	-13,651.61	46.96%	41,110.65	119,825.87	-78,715.22	34.31%	340,193.00	340,193.00	0.00	100.0%
Total Expense	592,914.95	661,984.91	-69,069.96	89.57%	2,409,691.15	3,810,740.61	-1,401,049.46	63.23%	7,593,616.00	7,593,616.00	0.00	100.0%
Net Ordinary Income	-592,914.95	-661,984.91	69,069.96	89.57%	-2,253,105.37	-3,651,704.61	1,398,599.24	61.7%	-806,730.00	-806,730.00	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%	11.91	0.00	11.91	100.0%	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%
4240 · Groundwater Sales	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Other Income	0.00	0.00	0.00	0.0%	11.91	0.00	11.91	100.0%	0.00	0.00	0.00	0.0%
Other Expense												
5010 · Groundwater Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
5100 · Other Water Purchases	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9200 · Interest Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
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%	11.91	0.00	11.91	100.0%	0.00	0.00	0.00	0.0%
Net Income	-592,914.95	-661,984.91	69,069.96	89.57%	-2,253,093.46	-3,651,704.61	1,398,611.15	61.7%	-806,730.00	-806,730.00	0.00	100.0%

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

CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

C. 2012 ANNUAL REPORT OF THE LAND SUBSIDENCE COMMITTEE

D. ANNUAL FINDING OF SUBSTANTIAL COMPLIANCE WITH THE RECHARGE MASTER PLAN

E. ACWA STATEWIDE WATER ACTION PLAN (BOARD ONLY)



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: December 19, 2013
TO: Advisory Committee Members
Board Members
SUBJECT: 2012 Annual Report of the Land Subsidence Committee

SUMMARY

Issue: Watermaster is required to produce an Annual Report of the Land Subsidence Committee. The report for 2012 has been drafted.

Advisory Committee Recommendation: Recommend to the Watermaster Board to adopt the 2012 Annual Report of the Land Subsidence Committee, along with filing a copy with the Court.

Board Recommendation: Adopt the 2012 Annual Report of the Land Subsidence Committee, along with filing a copy with the Court.

Financial Impact: There is no fiscal impact associated with the above recommendation. Production of the Report and filing it with the Court are budgeted items.

Future Consideration

Advisory Committee: December 19, 2013 Recommendation to the Watermaster Board

Watermaster Board: December 19, 2013 Adopt the 2012 Annual Report of the Land Subsidence Committee, along with filing a copy with the Court [Discretionary Function]

ACTIONS:

Date – Appropriative Pool – Unanimously recommended that the Advisory Committee recommend to the Watermaster Board to adopt the 2012 Annual Report of the Land Subsidence Committee, along with filing a copy with the Court.

Date – Non-Agricultural Pool – Unanimously recommended that the Advisory Committee recommend to the Watermaster Board to adopt the 2012 Annual Report of the Land Subsidence Committee, along with filing a copy with the Court, and directed Non-Ag Pool representatives to vote at the Advisory Committee and Board meetings subject to changes which they deem appropriate.

Date – Agricultural Pool – Unanimously recommended that the Advisory Committee recommend to the Watermaster Board to adopt the 2012 Annual Report of the Land Subsidence Committee, along with filing a copy with the Court.

Date – Advisory Committee –

Date – Watermaster Board –

BACKGROUND

In 1999, the OBMP Phase I Report identified pumping-induced drawdown and resultant aquifer-system compaction as the most likely cause of land subsidence and ground fissuring that had been observed in Management Zone 1 (MZ-1). Program Element 4 of the OBMP, "Develop and Implement a Comprehensive Groundwater Management Plan for Management Zone 1," called for the development and implementation of an interim management plan (IMP) for MZ-1.

From 2001 to 2005, Watermaster developed, coordinated, and conducted the IMP under the guidance of the MZ-1 Technical Committee (now called the Land Subsidence Committee.) The IMP provided enough information for Watermaster to develop Guidance Criteria for the MZ-1 producers in the investigation area that, if followed, would minimize the potential for subsidence and fissuring during the completion of the MZ-1 Subsidence Management Plan. The Guidance Criteria formed the basis for the MZ-1 Plan, which was developed by the MZ-1 Technical Committee and approved by Watermaster in October 2007. By a November 15, 2007 Order, the Watermaster Court approved the MZ-1 Plan and ordered its implementation.

DISCUSSION

The MZ-1 Subsidence Management Plan states that Watermaster will produce an annual report at the end of each fiscal year, which includes the results of ongoing monitoring efforts, interpretations of the data, and recommended adjustment to the MZ-1 Plan, if any. The Court's Order directs Watermaster to file the annual reports with the Court. The Land Subsidence Committee has, for the last number of years, provided recommendations to Watermaster for further activities through the Watermaster budgeting process, but has not, until this year, produced a formal annual Report. The Draft 2012 Annual Report of the Land Subsidence Committee includes results and interpretations for data that were collected during calendar year 2012, and includes recommendations for Watermaster's Land-Subsidence Monitoring Program for fiscal year 2013/14. The Report was circulated through attendees of the Land Subsidence Committee meetings, and their comments have been incorporated.

ATTACHMENTS

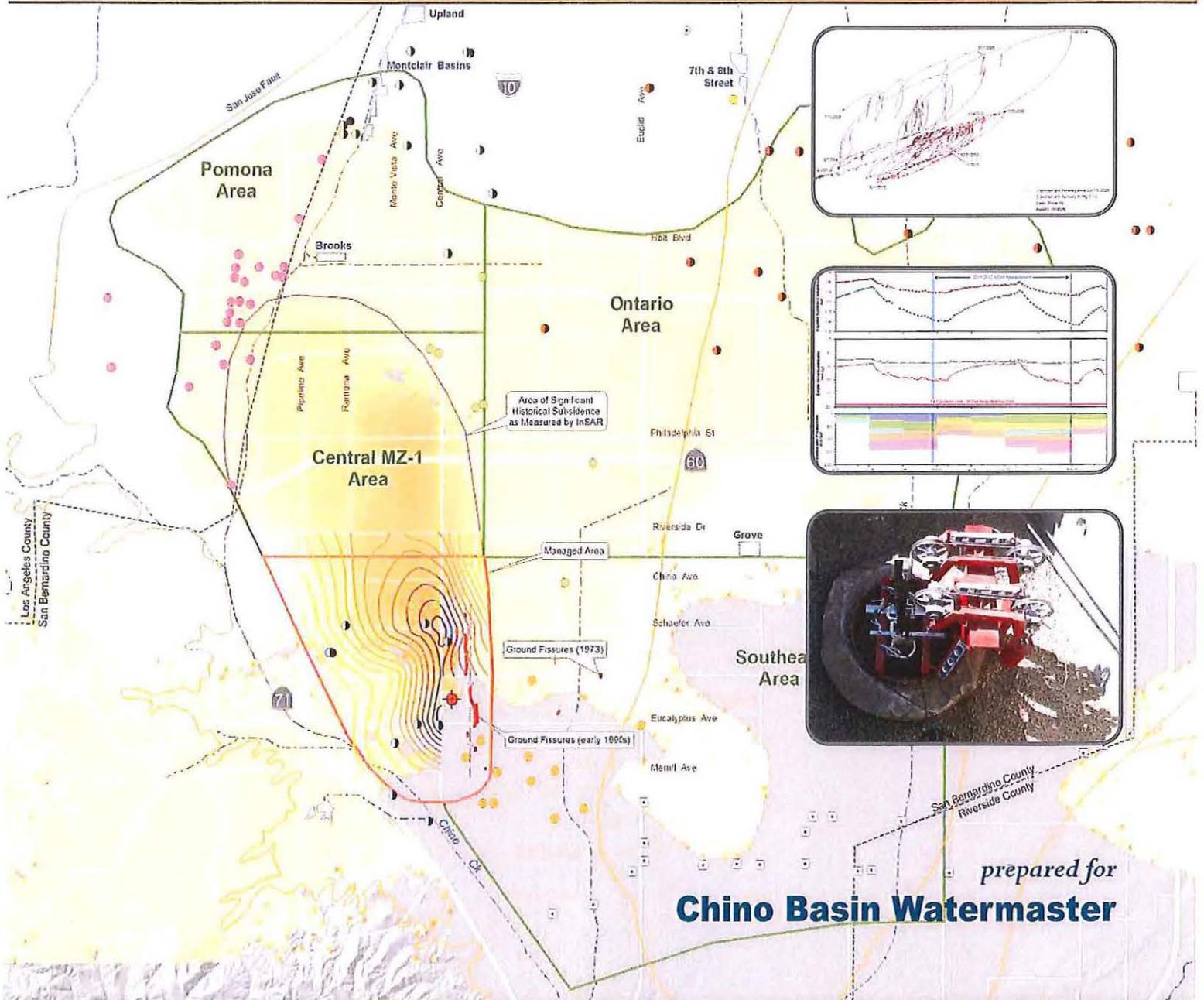
1. Draft 2012 Annual Report of the Land Subsidence Committee

Please access the Report appendices at:

<http://www.cbwm.org/FTP/Meeting%20Packets%20&%20Agendas/20131219%20Appendices%20to%202012%20Annual%20Report%20of%20the%20Land%20Subsidence%20Committee/>

2012 Annual Report of the Land Subsidence Committee

Draft



prepared for
Chino Basin Watermaster

December 2013



WILDERMUTH
ENVIRONMENTAL INC.

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Acronyms, Abbreviations, and Initialisms

acre-ft/yr	acre-feet per year
CCPA	Chino Creek Piezometer A
CCX	Chino Creek Extensometer Facility
CIM	California Institution for Men
DHX	Daniels Horizontal Extensometer
EDM	Electronic Distance Measurement
ft-bgs	feet below ground surface
ft-btoc	feet below top of casing
GSWC	Golden State Water Company
IEUA	Inland Empire Utilities Agency
IMP	Interim Monitoring Program
InSAR	Interferometric Synthetic Aperture Radar
MVWD	Monte Vista Water District
MZ-1	Management Zone 1
OBMP	Optimum Basin Management Plan
PE1	Program Element 1
SAWC	San Antonio Water Company
USGS	United States Geological Survey
WEI	Wildermuth Environmental Inc.



Section 1 – Introduction

1.1 Background

Land subsidence is the sinking of the Earth's surface due to the rearrangement of subsurface Earth materials. In the United States alone, over 17,000 square miles in 45 states have experienced land subsidence (USGS, 1999). In many instances, land subsidence is accompanied by adverse impacts at the land surface, such as sinkholes, earth fissures, encroachment of adjacent water bodies, modified drainage patterns, and others. In populated regions, these subsidence-related impacts can result in severe damage to man-made infrastructure and costly remediation measures. Over 80% of all documented cases of land subsidence in the United States have been caused by groundwater extractions from the underlying aquifer system (USGS, 1999).

1.1.1 Subsidence and Fissuring in Chino Basin

One of the earliest indications of land subsidence in Chino Basin was the appearance of ground fissures in the City of Chino. These fissures appeared as early as 1973, but an accelerated occurrence of ground fissuring ensued after 1991 and resulted in damage to existing infrastructure. Figure 1-1 shows the location of the fissures within Management Zone 1 (MZ-1) of the Chino Basin. The scientific studies that followed attributed the fissuring phenomenon to differential land subsidence that was caused by pumping of the underlying aquifer system and the consequent drainage and compaction of aquitard sediments (Fife et al., 1976; Kleinfelder, 1993, 1996; Geomatrix, 1994).

1.1.2 The Optimum Basin Management Program (OBMP)

In 1999, the OBMP Phase I Report (WEI, 1999) identified pumping-induced drawdown and subsequent aquifer-system compaction as the most likely cause of land subsidence and ground fissuring observed in MZ-1. Program Element 4 of the OBMP, *Develop and Implement a Comprehensive Groundwater Management Plan for Management Zone 1*, called for the development and implementation of an interim management plan for MZ-1 that would:

- minimize subsidence and fissuring in the short-term.
- collect the information necessary to understand the extent, rate, and mechanisms of subsidence and fissuring.
- formulate a management plan to abate future subsidence and fissuring or reduce it to tolerable levels.

In 2000, the Implementation Plan in the Peace Agreement called for an aquifer-system and land subsidence investigation in the southwestern region of MZ-1 to support the development of a management plan for MZ-1 (second and third bullets above). This investigation was titled the MZ-1 Interim Monitoring Program (IMP), which is described below.

The OBMP Phase I Report also noted that land subsidence was occurring in other parts of the Basin besides Chino. Program Element 1 (PE1) of the OBMP and the Implementation Plan, *Develop and Implement a Comprehensive Monitoring Program*, called for the basin-wide analysis



of land subsidence via ground-level surveys and InSAR and ongoing monitoring based on the analysis of the subsidence data.

1.1.3 Interim Management Plan and the MZ-1 Summary Report

From 2001 to 2005, Watermaster developed, coordinated, and conducted the IMP under the guidance of the MZ-1 Technical Committee (now called the Land Subsidence Committee). The MZ-1 Technical Committee was composed of representatives from all major MZ-1 producers and their technical consultants, including the Agricultural Pool; the cities of Chino, Chino Hills, Ontario, Pomona, and Upland; Monte Vista Water District; Golden State Water Company; and the State of California, California Institution for Men (CIM).

The main conclusions derived from the IMP were:

1. Groundwater production from the deep, confined, aquifer system in the southwestern region of MZ-1 caused the greatest stress to the aquifer system. In other words, pumping of the deep aquifer system caused groundwater-level drawdown that is much greater in magnitude and lateral extent than drawdown caused by pumping of the shallow aquifer system.¹
2. Groundwater-level drawdown due to pumping of the deep aquifer system can cause inelastic (permanent) compaction of the aquifer-system sediments, which results in permanent land subsidence. The initiation of permanent compaction within the aquifer system was identified during the investigation when water levels fell below a depth of about 250 feet in the PA-7 piezometer at Ayala Park.
3. The then current state of aquifer-system deformation in southern MZ-1 (in the vicinity of Ayala Park) was essentially elastic. Very little permanent compaction was occurring in this area, which was in contrast to the recent past when about 2.2 feet of land subsidence occurred from about 1987 to 1995 and was accompanied by ground fissuring. Figure 1-2 shows the early land subsidence that was measured in the western Chino Basin during this period.
4. During this study, a previously undetected barrier to groundwater flow, called the Riley Barrier, was identified. This barrier is located within the deep aquifer system and is aligned with the historical zone of ground fissuring. Pumping from the deep aquifer system was limited to the area west of the barrier, and the resulting drawdown did not propagate eastward across the barrier. Thus, compaction occurred within the deep system on the west side of the barrier but not on the east side, which caused concentrated differential subsidence across the barrier and created the potential for ground fissuring.
5. InSAR and ground-level-survey data indicated that permanent subsidence in the central region of MZ-1 had occurred in the past and was continuing to occur. The InSAR data also suggested that the groundwater barrier extends northward into central MZ-1. These observations suggested that the conditions that very likely caused ground fissuring near Ayala Park in the 1990s are also present in central MZ-1 and should be studied in more detail.

¹ Production from the deep aquifer system within the Managed Area generally occurs from wells that are screened deeper than 400 feet below the ground surface (ft-bgs). (WEI, 2007)



The methods, results, and conclusions of the IMP are described in detail in the MZ-1 Summary Report (WEI, 2006). The IMP provided enough information for Watermaster to develop Guidance Criteria for the MZ-1 producers in the investigation area that, if followed, would minimize the potential for subsidence and fissuring during the completion of the MZ-1 Subsidence Management Plan (MZ-1 Plan; WEI 2007).

1.1.4 MZ-1 Subsidence Management Plan (MZ-1 Plan)

The Guidance Criteria formed the basis for the MZ-1 Plan, which was developed by the MZ-1 Technical Committee and approved by Watermaster in October 2007. In November 2007, the San Bernardino County Superior Court, which retains continuing jurisdiction over the Chino Basin Adjudication, approved the MZ-1 Plan and ordered its implementation.

The MZ-1 Plan includes a list of the Managed Wells that are subject to the plan. The Managed Wells are listed in Table 1-1. The MZ-1 Plan also includes a map of the so-called Managed Area in southern MZ-1 that is subject to the plan. The Managed Area is shown on Figure 1-1.

To minimize the potential for future subsidence and fissuring in the Managed Area, the MZ-1 Plan established a Guidance Level, which is a specified depth to water measured in Watermaster's PA-7 piezometer at Ayala Park. It is defined as the threshold water level at the onset of permanent compaction of the aquifer system as recorded by the extensometer, minus five feet. The five foot reduction is meant to be a safety factor to ensure that permanent compaction does not occur in the future. The Guidance Level is subject to change based on the periodic review of monitoring data collected by Watermaster. The initial Guidance Level is 245 feet below the top of the well casing (ft-btoc) in PA-7. The Plan recommended that the Parties manage their groundwater production so that the water level in PA-7 remains above the Guidance Level.

The MZ-1 Plan calls for ongoing monitoring, data analysis, annual reporting, and adjustment to the MZ-1 Plan as warranted by the data. Implementation of the MZ-1 Plan began in 2008. The MZ-1 Plan calls for (1) the continued scope and frequency of monitoring implemented during the IMP within the Managed Area and (2) expanded monitoring of the aquifer system and land subsidence in other areas of the Chino Basin where the IMP indicated concern for future subsidence and ground fissuring. Figure 1-2 shows the location of these so-called Areas of Subsidence Concern: Central MZ-1, the Pomona Area, the Ontario Area, and the Southeast Area. The expanded monitoring efforts outside of the Managed Area are consistent with the requirements of PE1.

Potential future efforts listed in the MZ-1 Plan included: (1) more intensive monitoring of horizontal strain across the zone of historical ground fissuring to assist in developing management strategies related to fissuring, (2) injection feasibility studies within the Managed Area, (3) additional pumping tests to refine the Guidance Criteria, (4) computer-simulation modeling of groundwater flow and subsidence, and (5) development of alternative pumping plans for those Parties affected by the MZ-1 Plan. These potential future efforts are discussed by the Land Subsidence Committee, and if deemed prudent and necessary, are recommended to Watermaster for implementation in future fiscal years.



1.1.5 Annual Report of the Land Subsidence Committee

The MZ-1 Plan states that Watermaster will produce an annual report that includes the results of ongoing monitoring efforts, interpretations of the data, and recommended adjustment to the MZ-1 Plan, if any. This Annual Report of the Land Subsidence Committee includes results and interpretations for data that were collected during calendar year 2012, and includes recommendations for Watermaster's Land-Subsidence Monitoring Program for fiscal year 2013/14.

1.2 Report Organization

This report is organized into the following five sections:

Section 1 – Introduction. This section provides background information on the history of land subsidence and ground fissuring in Chino Basin, the formation of the Land Subsidence Committee and its responsibilities, and the MZ-1 Plan.

Section 2 – Land-Subsidence Monitoring Program (2012). This section describes the monitoring and testing activities that were performed by the Watermaster for its Land-Subsidence Monitoring Program during 2012.

Section 3 – Results and Interpretations. This section discusses and interprets the monitoring data collected during 2012, including the basin stresses of groundwater pumping and recharge and the basin responses including changes in groundwater levels, aquifer-system deformation, and ground motion.

Section 4 – Conclusions and Recommendations. This section summarizes the main conclusions derived from the monitoring program as of December 2012, and describes recommended activities for the program during fiscal year 2013/14 in the form of a proposed scope-of-work, schedule, and budget.

Section 5 – References. This section is a list of the publications cited in this report.



**Table 1-1
Managed Wells**

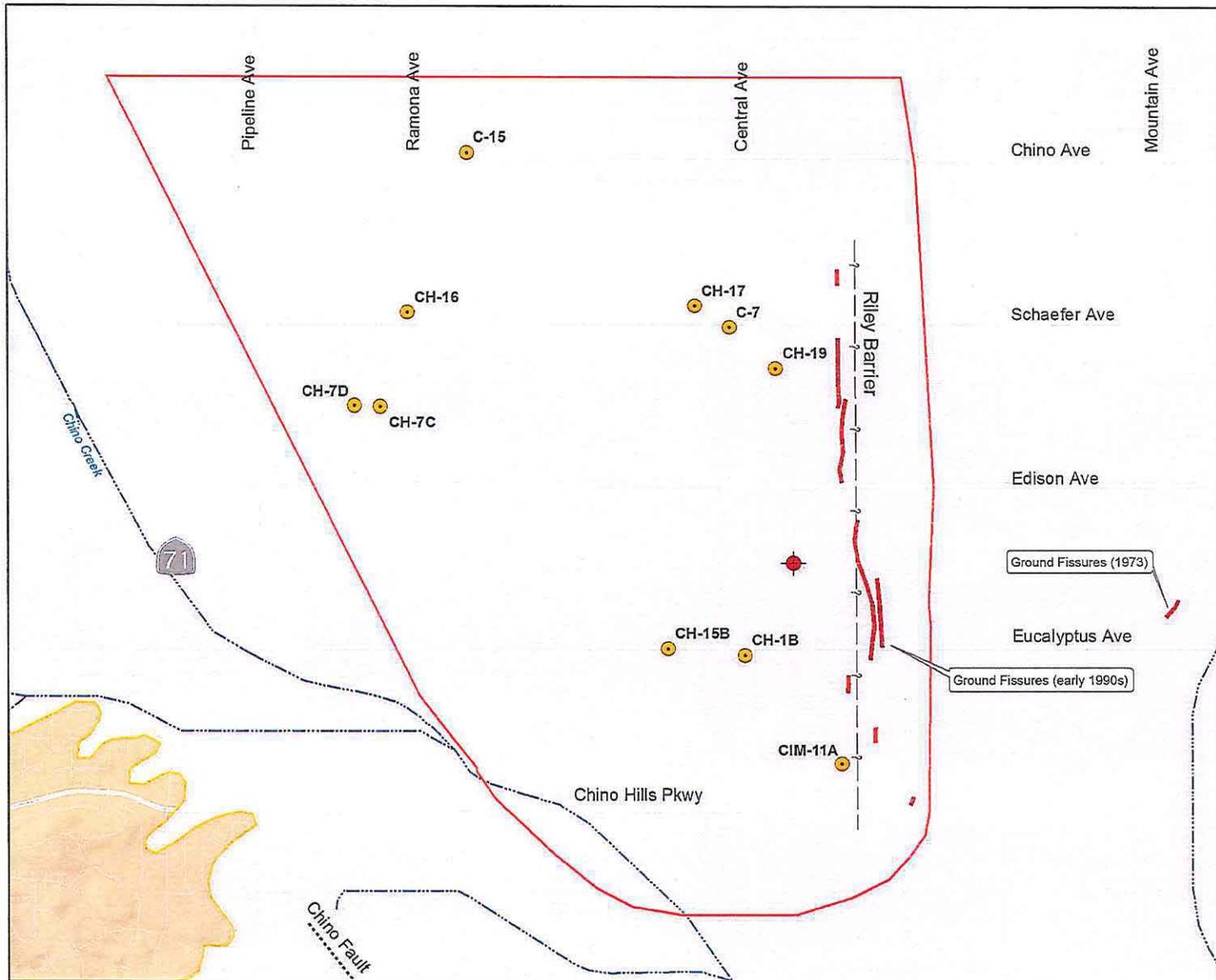
CBWM ID	Owner	Well Name	Status	Screened Interval <i>ft-bgs</i>
3600461	Chino	C-7	Not Equipped ²	180-780
600670	Chino	C-15	Not Equipped	270-400, 626-820
600487	Chino Hills	CH-1B	Inactive ¹	440-470, 490-610, 720-900, 940-1180
600687	Chino Hills	CH-7C	Not Equipped	550-950
600498	Chino Hills	CH-7D	Inactive	320-400, 410-450, 490-810, 850-930
600488	Chino Hills	CH-15B	Active ³	360-440, 480-900
600489	Chino Hills	CH-16	Inactive	430-940
600499	Chino Hills	CH-17	Active	300-460, 500-980
600500	Chino Hills	CH-19	Not Equipped	340-420, 460-760, 800-1000
3602461	CIM	CIM-11A	Active	135-148, 174-187, 240-283, 405-465, 484-512, 518-540

¹ Well can pump groundwater with little or no modifications, but no pumping is planned for the current year.

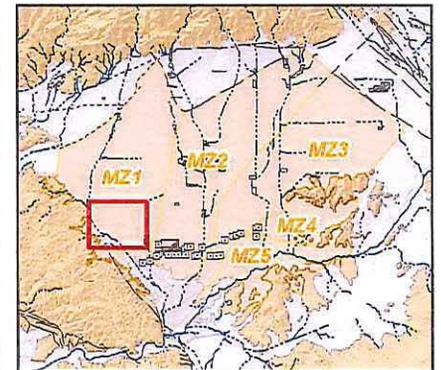
² Unable to pump the well without major modifications, and no pumping is planned for the current year.

³ Well is currently being used for water supply.



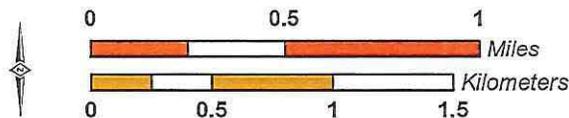


- MZ-1 Managed Well
- Ayala Park Extensometer
- Managed Area
- Ground Fissures
- Approximate Location of Riley Barrier
- Faults**
- Location Concealed



Prepared by:
 WILDERMUTH ENVIRONMENTAL INC.

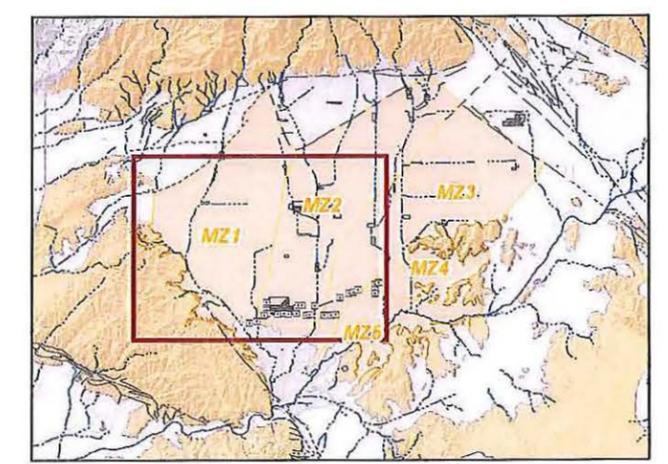
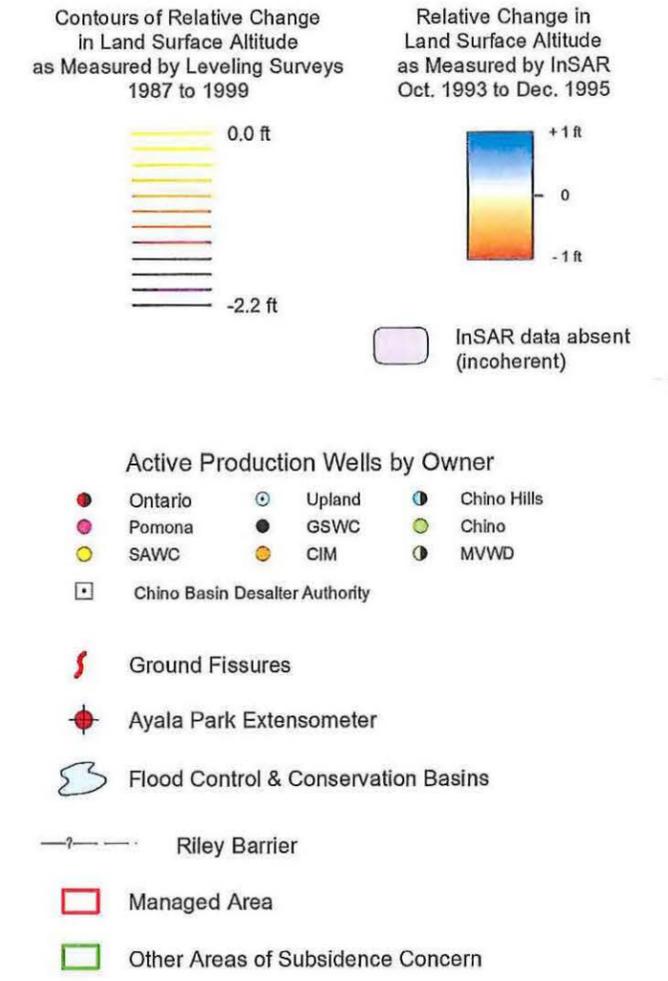
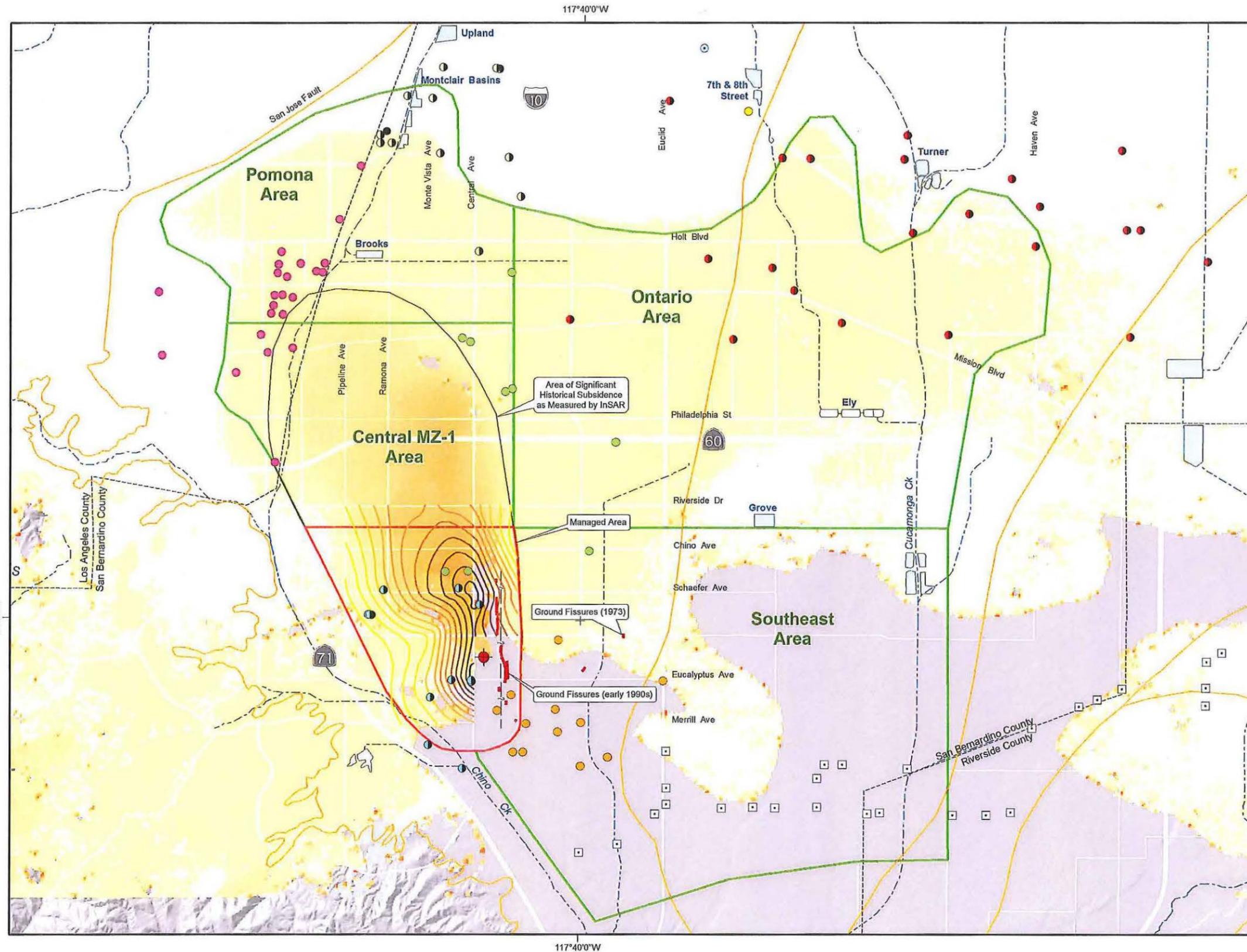
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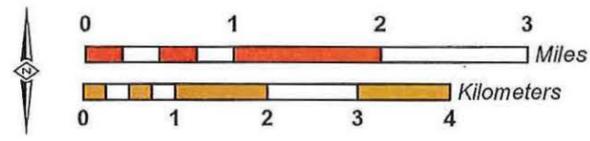
CHINO BASIN WATERMASTER
 Water in Basin Management
 Land Subsidence Committee
 2012 Annual Report

MZ-1 Managed Area and Managed Wells

Figure 1-1



Prepared by:
 WILDERMUTH ENVIRONMENTAL INC.
 Author: TCR
 Date: 20130624
 File: Figure 1_2.mxd



CHINO BASIN WATERMASTER
 Land Subsidence Committee
 2012 Annual Report

Historical Land Surface Deformation in Management Zone 1
 Leveling Surveys (1987 to 1999) and InSAR (1993 to 1995)

Figure 1-2

Section 2 – Land-Subsidence Monitoring Program (2012)

This section describes the monitoring and testing activities that were performed by the Watermaster for its Land-Subsidence Monitoring Program during 2012.

2.1 Setup and Maintenance of the Monitoring Network

Watermaster’s consulting engineer and/or sub-consultants perform the work to setup and maintain the land-subsidence monitoring network. The equipment and facilities that comprise the monitoring network are shown on Figure 2-1, and include pressure transducers and data loggers to measure and record water levels at wells, extensometers that measure aquifer-system deformation and ground motion, and benchmark monuments that are periodically surveyed to measure ground motion.

2.1.1 Setup of the Chino Creek Extensometer Facility

During 2012, Watermaster installed the Chino Creek Extensometer Facility (CCX) on Chino Airport property in the City of Chino. The CCX is located south of Kimball Avenue and the Chino Airport and east of Euclid Avenue as shown on Figure 2-1. The CCX was installed to measure and record background data and the response of the aquifer system to new groundwater production at the Chino Creek Well Field that is scheduled to commence in 2015. The CCX began recording groundwater levels and vertical aquifer-system deformation in July 2012.

The CCX was constructed within a new dual-nested piezometer—Chino Creek Piezometer-A (CCPA). Figure 2-2 illustrates the borehole lithology, borehole geophysics, and the general well construction information for the CCPA. The shallow piezometer, CCPA-1, was completed within the shallow aquifer system. The deep piezometer, CCPA-2, was completed within the deep aquifer system. The shallow and deep aquifer systems at the CCX are separated by a layer of predominantly fine-grained sediments between about 130 and 230 feet below ground surface. The shallow extensometer, CCX-1, is a cable extensometer that was completed within CCPA-1 to measure vertical aquifer-system deformation across the shallow aquifer system. The deep extensometer, CCX-2, is a cable extensometer that was completed within CCPA-2 to measure vertical aquifer-system deformation across the shallow and deep aquifer systems. Subtraction of the two extensometer records provides aquifer-system deformation data for the deep aquifer system only.

The monitoring equipment to measure and record piezometric levels and aquifer-system compaction were installed and calibrated at the facility during June and July 2012. A benchmark monument was installed at the surface completion of the CCX to facilitate repeated leveling surveys of elevation and to tie the CCX elevation to the Ayala Park elevation datum. Details of the construction and setup of the CCX are described within the CCX installation report which is included as Appendix A to this report.

2.1.2 Maintenance of Monitoring Equipment and Facilities

During 2012, Watermaster’s consulting engineer replaced five pressure transducers that were malfunctioning or had failed, and performed maintenance at the extensometer facilities. Maintenance activities included: protection of the PA facility against surface-water intrusion



during strong storms; refurbishment and calibration of the pressure transducers in PC-4 and PC-2; maintenance of Watermaster’s Ayala Park website; and service of liquid-level equipment and installation of solar panels at the Daniels Horizontal Extensometer.

2.2 Monitoring and Testing during 2012

Watermaster’s consulting engineer and/or sub-consultants perform the monitoring and testing programs under the direction of the Land Subsidence Committee. This section describes the monitoring and testing programs, and the implementation of these programs during 2012.

2.2.1 Long-Term Pumping Test in the Managed Area

The MZ-1 Plan states that Watermaster will assist the Parties with “additional testing and monitoring to refine the Guidance Criteria” and to “develop alternative pumping plans” to “produce a reasonable quantity of groundwater from MZ-1.” Furthermore, the MZ-1 Plan states that Watermaster will assist the City of Chino Hills in an injection feasibility study to determine if injection is a viable tool for managing subsidence and maximizing the use of existing groundwater production infrastructure (see pages 2-5 and 2-6 of the MZ-1 Plan for reference).

The Land Subsidence Committee developed and is now implementing the Long-Term Pumping Test within the Managed Area in response to these directives in the MZ-1 Plan. The goal of the Long-Term Pumping Test is to develop a strategy for the prudent extraction of groundwater from the Managed Area. In this case, “prudent” is defined as extracting the maximum volume of groundwater without causing damage to the ground surface or the area’s infrastructure. Specific questions that the program is designed to answer are:

1. Is the Guidance Level for the Managed Area, as currently defined, appropriate? If no, how should the Guidance Level be updated?
2. Does the Riley Barrier separate the Managed Area from the Southeast Area within the deep aquifer system? If not, should the eastern boundary of the Managed Area be revised?
3. How does subsidence (elastic and inelastic) and rebound that occurs in the Managed Area affect the horizontal strain across the historical zone of ground fissuring and its northward extension into the heavily-urbanized portions of the City of Chino?
4. Is aquifer injection a viable tool for mitigating drawdown and permanent compaction in the deep aquifer system?
5. Is there an “acceptable” rate of land subsidence in the Managed Area? If so, what is the “acceptable” rate?

The Land Subsidence Committee envisioned the following scope and sequence for the Long-Term Pumping Test:

1. Conduct a controlled pumping test of the deep aquifer system in the Managed Area at wells CH-17 and CH-15B (with arsenic treatment). This test should cause drawdown at PA-7 to fall below the Guidance Level. The test will be closely monitored at the



Ayala Park Extensometer and the horizontal monitoring facilities, and will be stopped at the first clear indication of permanent deformation.

2. Stop the pumping test and allow for partial recovery of groundwater levels.
3. Conduct two cycles of injection at CH-16 to see how injection may accelerate recovery of regional drawdown caused by pumping at CH-17 and CH-15B.
4. After injection tests, allow for full recovery of groundwater levels to pre-test conditions (PA-7 = 90 ft-btoc). Check stress-strain diagrams for permanent compaction of the aquifer system and/or horizontal deformation across the fissure zone.

The Long-Term Pumping Test began in spring of 2012 and is scheduled to continue until about July 2014. Ground-level surveys will be conducted when groundwater levels are at maximum drawdown and at maximum recovery. These benchmark elevation surveys will be compared to historical benchmark elevation surveys conducted at maximum recovery. Ground surface deformation will also be measured by InSAR throughout the duration of the test and at maximum drawdown and recovery of groundwater levels.

2.2.2 Monitoring of Piezometric Levels, Production, and Recharge

Changes in piezometric levels are the mechanism behind aquifer-system deformation and land subsidence. During 2012, water levels were measured and recorded once every 15 minutes using pressure transducers at 42 wells in the Managed Area, Central MZ-1, and the Southeast Area.

Production data were collected and compiled from the owners of the Managed Wells for calendar year 2012.

The volumes of recycled and imported water that were artificially recharged at basins in MZ-1 and MZ-2 and the direct use of recycled water within the Managed Area and the Southeast Area were collected from the Inland Empire Utilities Agency (IEUA) for fiscal year 2012.

2.2.3 Monitoring of Aquifer-System Deformation

Watermaster recorded aquifer-system deformation at the Ayala Park Extensometer and at the CCX where the vertical component of aquifer-system deformation is measured once every 15 minutes. Data collection at the CCX began in July 2012.

2.2.4 Monitoring of Vertical Ground-Surface Deformation

Watermaster monitors vertical ground motion via traditional leveling surveys and remote sensing (InSAR) techniques established during the IMP.

Watermaster retains Parsons Brinkerhoff (Parsons) to conduct the leveling surveys at selected benchmark monuments shown on Figure 2-1. The Land Subsidence Committee decides annually on the benchmarks to be surveyed. During fall 2012, Parsons conducted a leveling survey within the CCWF area. No leveling surveys were conducted in the Managed Area



because drawdown did not yet exceed the Guidance Level as planned in the Long-Term Pumping Test.

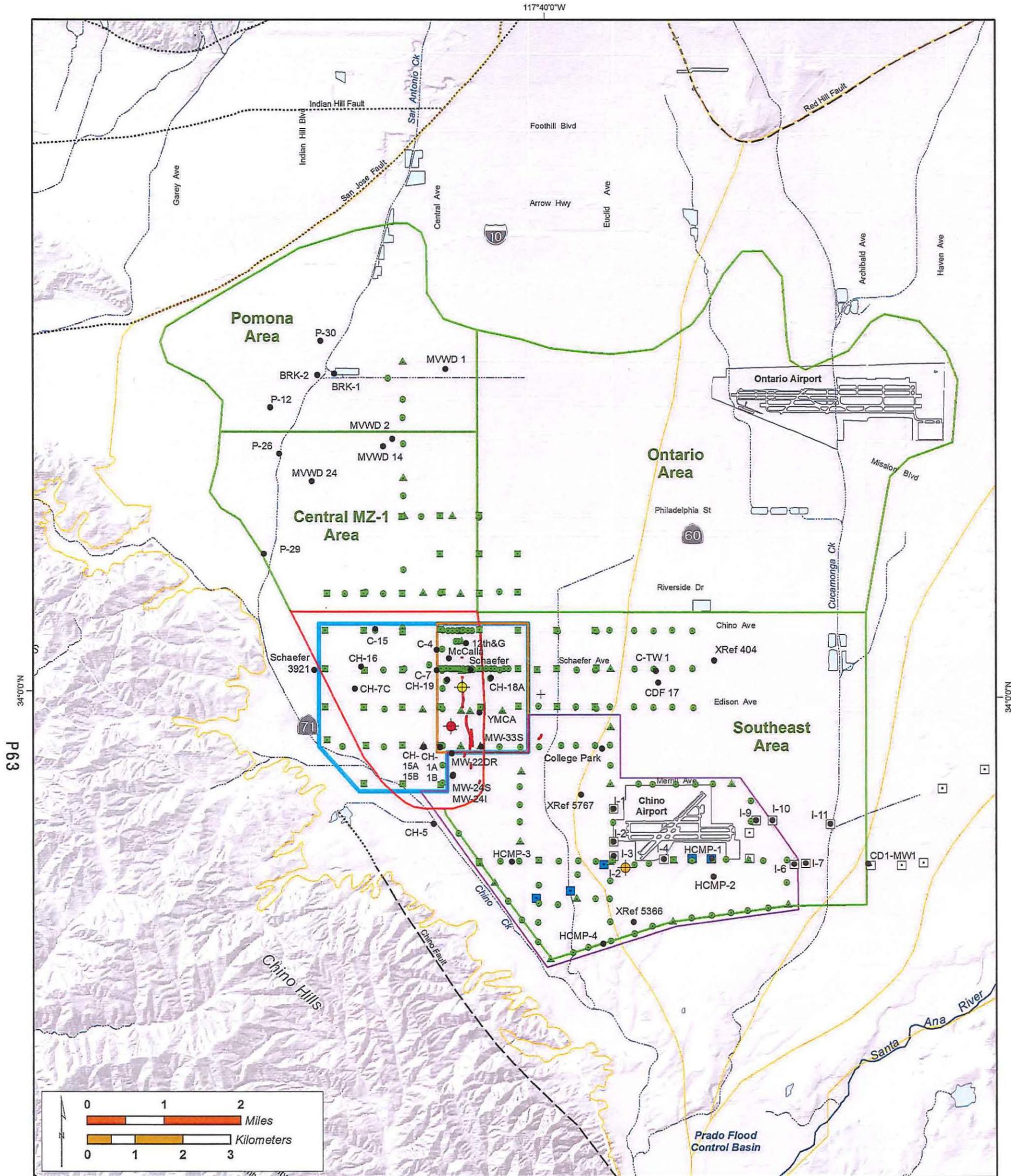
Watermaster retains Neva Ridge Technologies to acquire InSAR data from the TerraSAR-X satellite operated by the European Space Agency. The width of the TerraSAR-X data frame covers the western half of the Chino Basin only. All historical InSAR data that was collected and analyzed by Watermaster since 1993 indicates that very little vertical ground motion occurs in the eastern half of the Chino Basin. Five InSAR data frames were collected in February 2012, April 2012, July 2012, September 2012, and January 2013, and were used to create seven interferograms to record short-term and long-term vertical ground motion over the following periods:

- November 2011 to February 2012
- November 2011 to April 2012
- November 2011 to July 2012
- November 2011 to September 2012
- November 2011 to January 2013
- September 2011 to September 2012
- February 2012 to January 2013.

2.2.5 Monitoring of Horizontal Ground-Surface Deformation

Watermaster measures horizontal ground motion across the historical zone of ground fissuring via electronic distance measurements between benchmark monuments and at horizontal extensometers that are installed across the fissure zone within the shallow soils. In 2012, data were collected from the Daniels Horizontal Extensometer (DHX) which records extension and compression across the historical fissure zone once every 15 minutes.



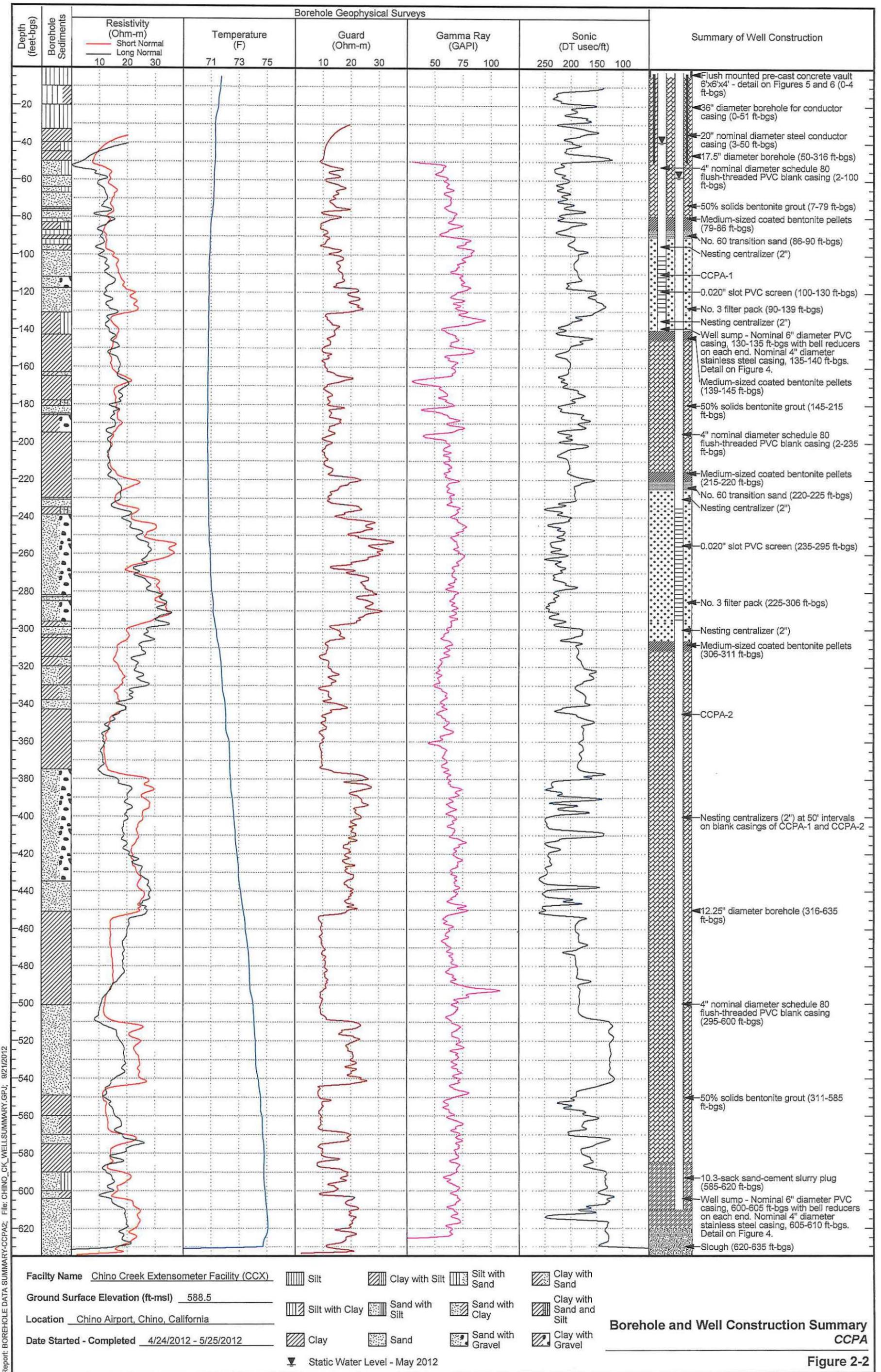


- Survey Benchmarks**
- ▲ Class A Monuments
 - Class B Monuments
 - City Monuments
- Survey Areas**
- ▭ Southeast Area Surveys
 - ▭ Fissure Zone Surveys
 - ▭ Managed Area Surveys

- Wells and Extensometers**
- Well Monitored by Pressure Transducer during 2012
 - Existing CDA Wells
 - Chino Creek Well Field
 - Ayala Park Extensometer
 - Chino Creek Extensometer
 - Daniels Horizontal Extensometer

- Managed Area**
- ▭ Managed Area
 - ▭ Areas of Subsidence Concern
 - ⋈ Ground Fissures
- Faults**
- Location Certain
 - - - Location Approximate
 - · - · - Approximate Location of Groundwater Barrier
 - ⋯ Location Concealed
 - · - · - ? Location Uncertain
- Chino Basin Management Zones**
- 1, 2, 3, 4, 5





Report: BOREHOLE DATA SUMMARY-CCPA2; File: CHINO_CK_WELL SUMMARY.GPJ; 9/21/2012

Facility Name Chino Creek Extensometer Facility (CCX)
Ground Surface Elevation (ft-msl) 588.5
Location Chino Airport, Chino, California
Date Started - Completed 4/24/2012 - 5/25/2012

- | | | | |
|----------------|----------------|------------------|-------------------------|
| Silt | Clay with Silt | Silt with Sand | Clay with Sand |
| Silt with Clay | Sand with Silt | Sand with Clay | Clay with Sand and Silt |
| Clay | Sand | Sand with Gravel | Clay with Gravel |
- Static Water Level - May 2012

Borehole and Well Construction Summary
CCPA

Figure 2-2

Section 3 – Results and Interpretations

This section describes the results and interpretations of Watermaster’s subsidence monitoring efforts during 2012 in the Managed Area, Central MZ-1, the Pomona Area, the Ontario Area, and the Southeast Area.

3.1 Managed Area

The IMP demonstrated that in the Managed Area groundwater production from the deep aquifer is the primary influence on piezometric levels and the subsequent deformation of the aquifer system. The Managed Area is the primary focus of the MZ-1 Plan, so the discussion below describes the results of the monitoring program relative to the Guidance Criteria in the MZ-1 Plan.

3.1.1 Groundwater Production

Table 3-1 summarizes groundwater production by well within the Managed Area for 2012. Approximately 5,400 acre-feet of groundwater was pumped from the Managed Area in 2012—about 75 percent of the production was from wells screened in the shallow aquifer system (4,048 acre-feet) and 25 percent from wells screened in both the shallow and deep aquifer systems (1,328 acre-feet).

Figure 3-1 includes a bar chart of the production data shown in Table 3-1. It illustrates the seasonal pattern of production in the Managed Area. Production increases during the warmer spring/summer months, and decreases during the cooler fall/winter months. Production from the deep aquifer system ceased during the winter.

3.1.2 Groundwater Levels

Figure 3-1 includes a time-series chart of the piezometric levels at the Ayala Park Extensometer facility. These data corroborate the conclusions of the IMP and show that pumping from the deep, confined, aquifer system causes groundwater-level drawdown that is much greater in magnitude than drawdown caused by pumping of the shallow aquifer system, even though more pumping occurs from the shallow aquifer system.

Piezometric levels at the PA-7 piezometer declined by about 82 feet during the summer of 2012 while Chino Hills’ Well 17 was pumping. Levels at PA-7 never declined below the Guidance Level of 245 ft-btoc.

3.1.3 Aquifer-System Deformation

Figure 3-1 includes a time-series chart of vertical deformation of the aquifer system as measured at the Ayala Park Extensometer facility. These data illustrate elastic deformation of the aquifer system during drawdown and recovery of piezometric levels during 2011 and 2012. The deep extensometer recorded about 0.06 feet of elastic deformation in 2012.

Figure 3-2 is a stress-strain diagram of piezometric levels measured at PA-7 (stress) versus vertical deformation of the aquifer system measured at the deep extensometer (strain). The

overlapping hysteresis loops of this stress-strain diagram since 2009 indicates that little, if any, inelastic compaction of the aquifer system sediments is occurring at Ayala Park.

3.1.4 Vertical Ground Motion

Figure 3-3 is a map of vertical ground motion across the western portion of Chino Basin as measured by InSAR and leveling surveys from fall-2011 to fall-2012. Vertical motion of the ground surface was minimal (± 0.01 feet) in the Managed Area during this period, which is consistent with the data from the Ayala Park Extensometer shown on Figure 3-1.

3.1.5 Horizontal Ground Motion

Figure 3-4 is a map of the DHX which measures and records horizontal extension and compression within the shallow soils across the historical fissure zone where it passes north of 12th Street in Chino. The DHX is comprised of nine quartz-tube extensometers that were installed within a trench in an east/west series. The western extensometer is 10-feet long and the other eight extensometers are 20-feet long. The total length of the DHX is about 170 feet. The Q11 extensometer spans the surface rupture of the historical ground fissure.

Figure 3-5 is a time-series chart of horizontal deformation across the length of the DHX from west to east. The DHX began recording on October 5, 2011. The extension/compression data shown on Figure 3-5 were set to zero on May 17, 2012, prior to initiation of pumping at CH-17. Also shown on the chart is the vertical compression of the aquifer system as measured by the deep extensometer at the Ayala Park Extensometer facility, which is a measure of the compression and rebound that is occurring west of the fissure zone.

Figure 3-5 generally shows compression across the fissure zone during rebound of the land surface to the west, and extension during subsidence to the west. This pattern of horizontal strain is consistent with the conceptual model of drawdown and compression west of the fissure zone causing differential subsidence and extensional stresses across the fissure zone (and visa versa). The majority of horizontal extensometers show this same pattern, including Q11, but with differing response time and magnitude of deformation. The response of the DHX to changes at the deep extensometer was almost immediate (i.e. response times of less than an hour).

Figure 3-5 indicates a net horizontal compression of the shallow soils from October 2011 to October 2012, even though subsidence and rebound of the ground surface at Ayala Park was essentially elastic.

3.1.6 Summary

Figure 3-6 provides a comprehensive description and explanation of the history of subsidence in the Managed Area. The most recent data from InSAR, ground-level surveys, and extensometers indicates that minimal vertical ground motion occurred in this area during 2011-2012. The lack of recent subsidence in this area is consistent with the observation that piezometric levels at PA-7 have not declined below the Guidance Level of 245 ft-btoc since about 2005.



3.2 Central MZ-1 Area

Figure 3-7 provides a comprehensive description and explanation of the history of subsidence in the Central MZ-1. The InSAR data on Figure 3-3 indicates that minimal vertical ground motion occurred in this area during the period of fall-2011 to fall-2012. The lack of recent subsidence is consistent with the recent time-series of production, groundwater levels, and subsidence shown on Figure 3-7.

3.3 Pomona Area

Figure 3-8 provides a comprehensive description and explanation of the history of subsidence in the Pomona Area. The InSAR data on Figure 3-3 indicate that a maximum of about 0.04 feet of land subsidence occurred in this area during the period of fall-2011 to fall-2012. This pattern of subsidence is consistent with the historical time-series of subsidence in this area shown on Figure 3-8, but suggests a decrease in the rate of subsidence. Currently, there are not enough aquifer-system data available to definitively explain the causes of the subsidence in this area or the changes in rate of subsidence.

Of particular concern in the Pomona Area is that the historical and ongoing subsidence has been differential across the San Jose Fault. This is the same spatial pattern of subsidence that led to the episode of ground fissuring in the Managed Area during the 1990s.

3.4 Ontario Area

Figure 3-9 provides a comprehensive description and explanation of the history of subsidence in the Ontario Area. The InSAR data on Figure 3-3 indicate that minimal vertical ground motion occurred in this area during the period of fall-2011 to fall-2012. This indicates a decrease in the recent rate of subsidence. Currently, there are not enough aquifer-system data available to definitively explain the causes of the subsidence in this area or the changes in rate of subsidence.

3.5 Southeast Area

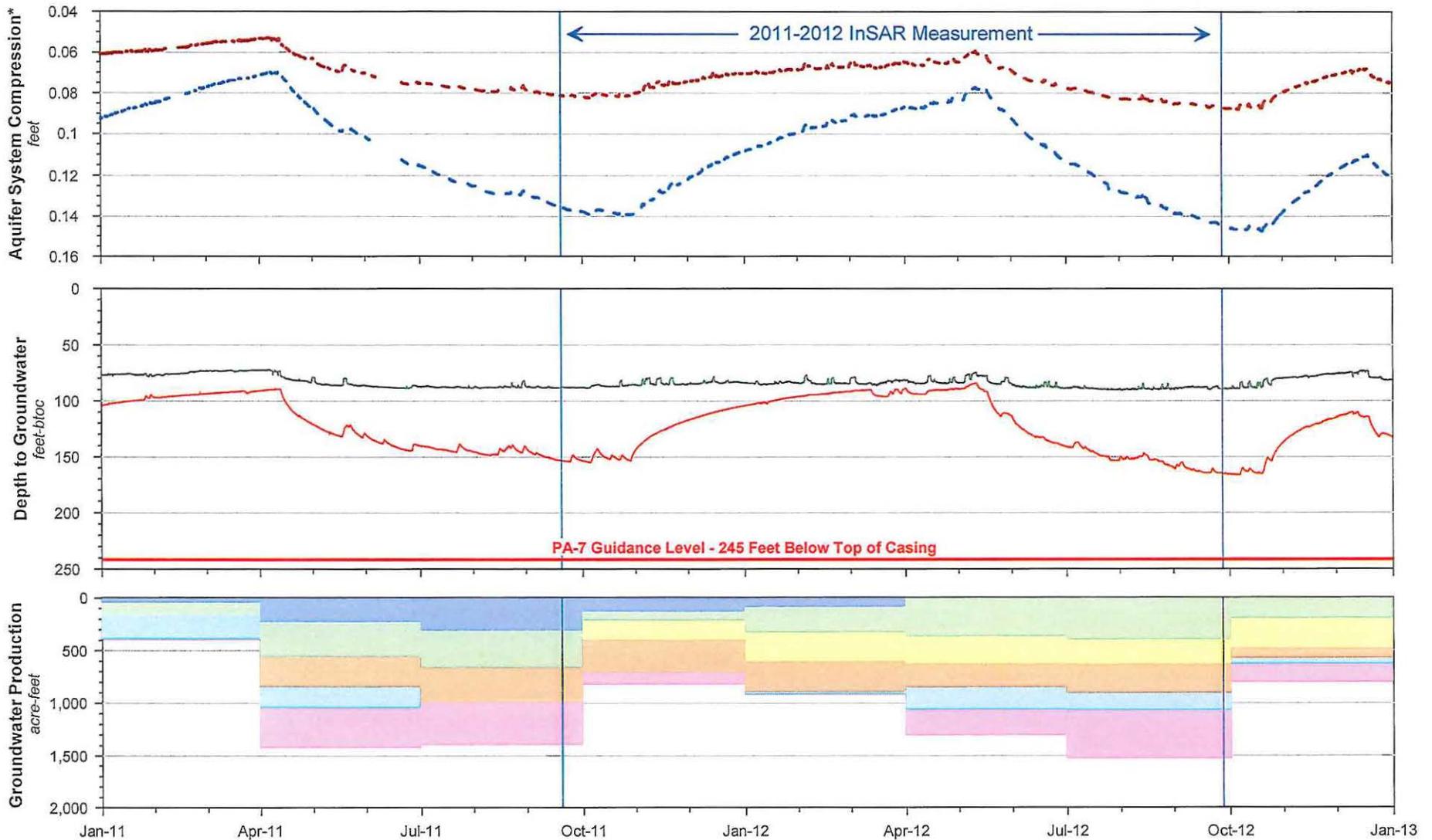
Figure 3-10 provides a comprehensive description and explanation of the history of subsidence in the Southeast Area. The InSAR on Figure 3-3 indicate that minimal vertical ground motion occurred across this area during the period of fall-2011 to fall-2012. The ground-level survey data in the vicinity of the Chino Desalter well field indicates a rebound of the land surface of about 0.05 feet over this same period. Both data sets suggest a decrease in the recent rate of subsidence or cessation of subsidence altogether.

The CCX has been measuring and recording piezometric and aquifer-system deformation data in the vicinity of the Chino Desalter well field since July 2012. Figure 3-11 is a time series chart of these data. In this area, pumping from the Desalter well field has been primarily from the deep aquifer system. In the shallow aquifer system, the data show virtually no change in piezometric levels or aquifer-system deformation. In the deep aquifer system, piezometric levels recovered by about 10 feet from September to December 2012, and the deep CCX-2 extensometer recorded a small, corresponding expansion of the aquifer system.

Table 3-1
Groundwater Production in the Managed Area for 2012
acre-feet

Well Name	Aquifer Layer	2012 Calendar Year				Annual Total	Annual Total by Aquifer Layer
		Quarter 1	Quarter 2	Quarter 3	Quarter 4		
C-4	Shallow	85	0	0	0	85	4,048
C-6		242	367	396	195	1,201	
CH-1A		284	222	269	95	871	
CH-7A		133	122	112	22	389	
CH-7B		180	167	63	28	438	
CIM-1		278	261	238	287	1,064	
CH-17	Shallow and Deep	0	241	453	169	864	1,328
CIM-11A		26	215	169	54	465	
Totals		1,202	1,381	1,532	797	4,912	5,377





Shallow Aquifer System		Deep Aquifer System	
Aquifer System Deformation (Extensometer Depth Interval)	Groundwater Production (Perforated Depth Interval)	Aquifer System Deformation (Extensometer Depth Interval)	Groundwater Production (Perforated Depth Interval)
--- Shallow Extensometer (30-550 ft-bgs)	C-4 (160-275 ft-bgs)	--- Deep Extensometer (30-1,400 ft-bgs)	CH-17 (300-980 ft-bgs)
— Depth to Groundwater (Perforated Depth Interval)	C-6 (200-375 ft-bgs)	— Depth to Groundwater (Perforated Depth Interval)	CIM-11A (135-540 ft-bgs)
— PA-10 Piezometer (213-233 ft-bgs)	CIM-1 (118-357 ft-bgs)	— PA-7 Piezometer (438-448 ft-bgs)	
	CH-1A (166-317 ft-bgs)		

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 WILDERMUTH ENVIRONMENTAL INC.
 Author: TCR
 Date: 20131120
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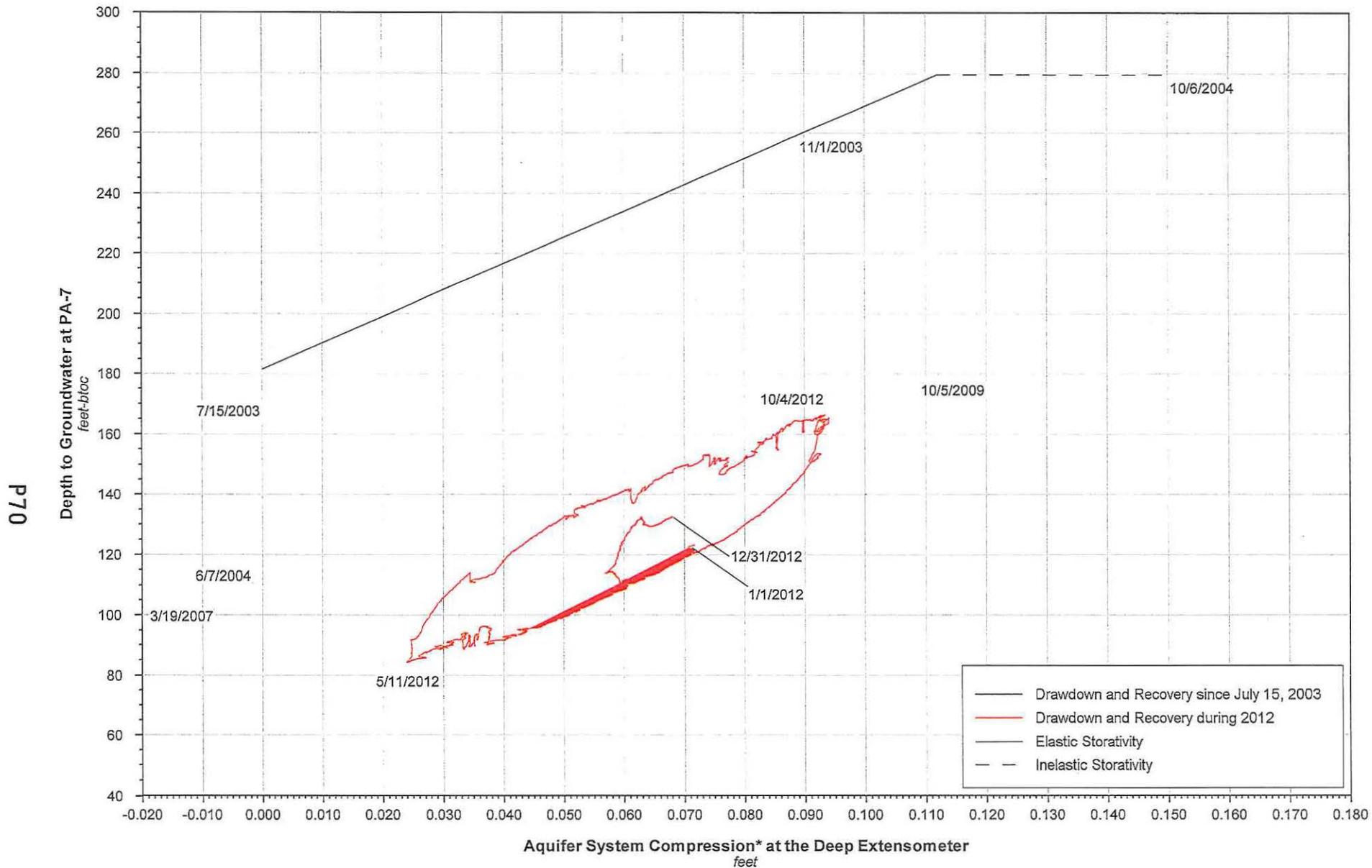


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Stress and Strain within the Managed Area

Figure 3-1

*Positive compression values represent compression of soils, negative compression values represent expansion of soils



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Author: TCR
Date: 20130610
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Depth Interval of PA-7 Perforations
= 438-448 ft-bgs
Depth Interval of the Deep Extensometer
= 30-1,400 feet-bgs

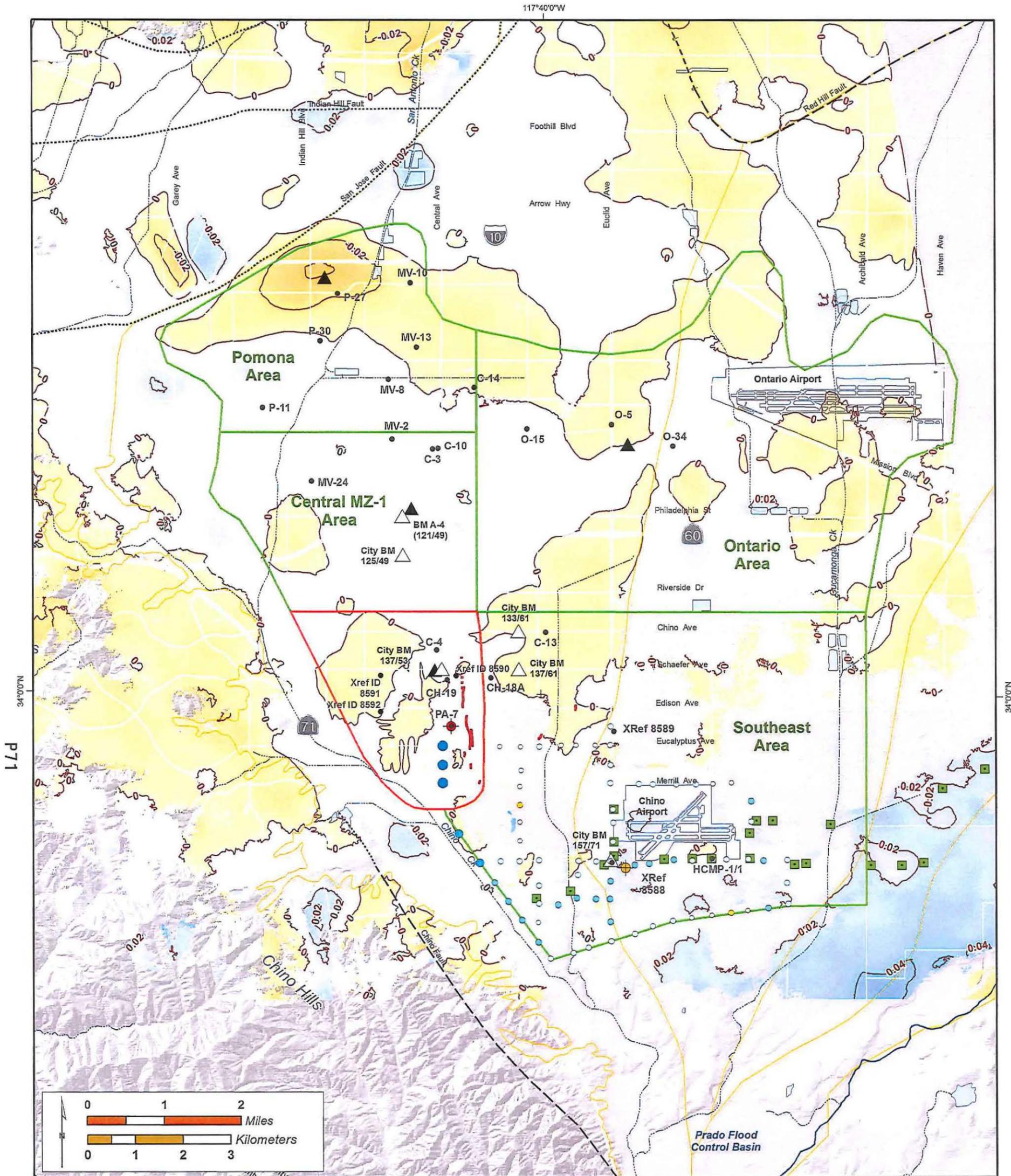
*Positive compression values represent compression of soils, negative compression values represent expansion of soils



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Stress-Strain Diagram
PA-7 Piezometer vs. Deep Extensometer

Figure 3-2



Relative Change in Land Surface Altitudes Measured by Leveling Surveys November 2011 to November 2012 (feet)

- +0.10 - +0.12
- +0.08 - +0.10
- +0.06 - +0.08
- +0.04 - +0.06
- +0.02 - +0.04
- 0.00 - +0.02
- -0.00 - -0.02
- -0.02 - -0.04

+0.1
0
-0.05
-0.1

Relative Change in Land Surface Altitude as Measured by InSAR September 2011 to September 2012 (feet)

□ InSAR data absent (incoherent)

△ Survey Measurement Stations (see Figures 3-6 to 3-10)

▲ InSAR Measurement Point (see Figures 3-6 to 3-10)

Wells and Extensometers

- Wells with Water Level Data (see Figures 3-6 to 3-10)
- Desalter Well
- Ayala Park Extensometer
- Chino Creek Extensometer

Managed Area

Areas of Subsidence Concern

Ground Fissures

Faults

- Location Certain
- - - Location Approximate
- · - Approximate Location of Groundwater Barrier
- · · Location Concealed
- · - ? Location Uncertain

Chino Basin Management Zones



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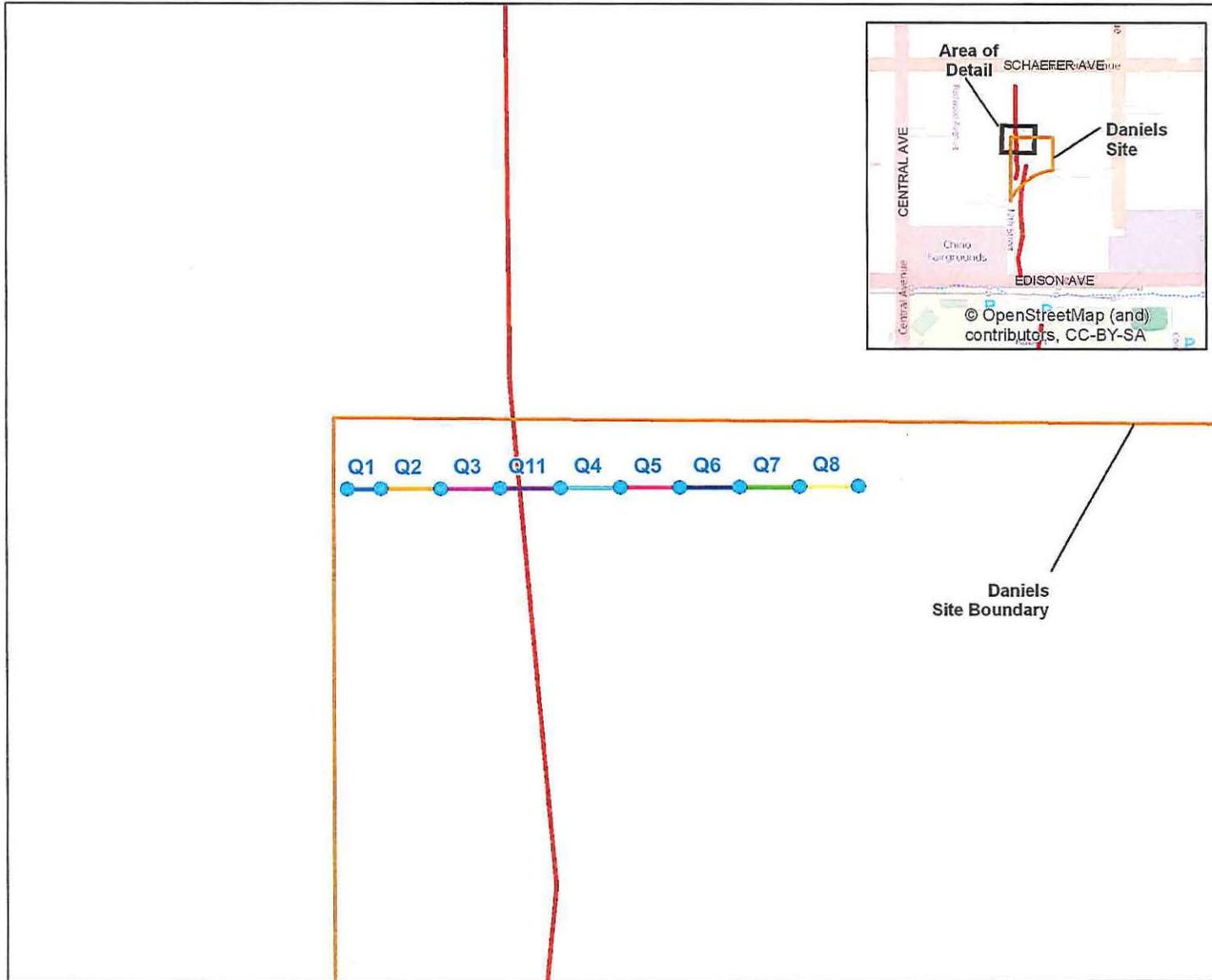
Author: TCR
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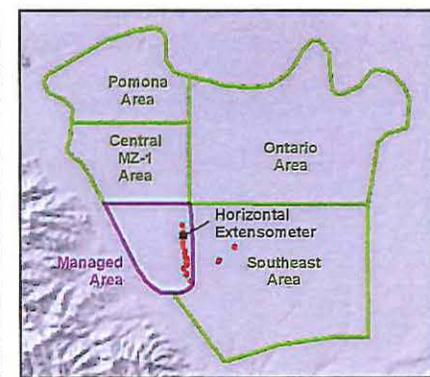
Vertical Ground Motion across Western Chino Basin

2012

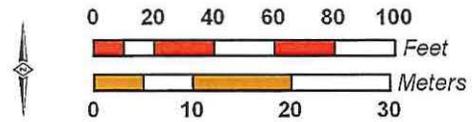
Figure 3-3



- Horizontal Extensometer Benchmark
- Quartz Tube Extensometer color corresponds to recorded deformation shown on Figure 3-5
- Historical Ground Fissures (1990s)



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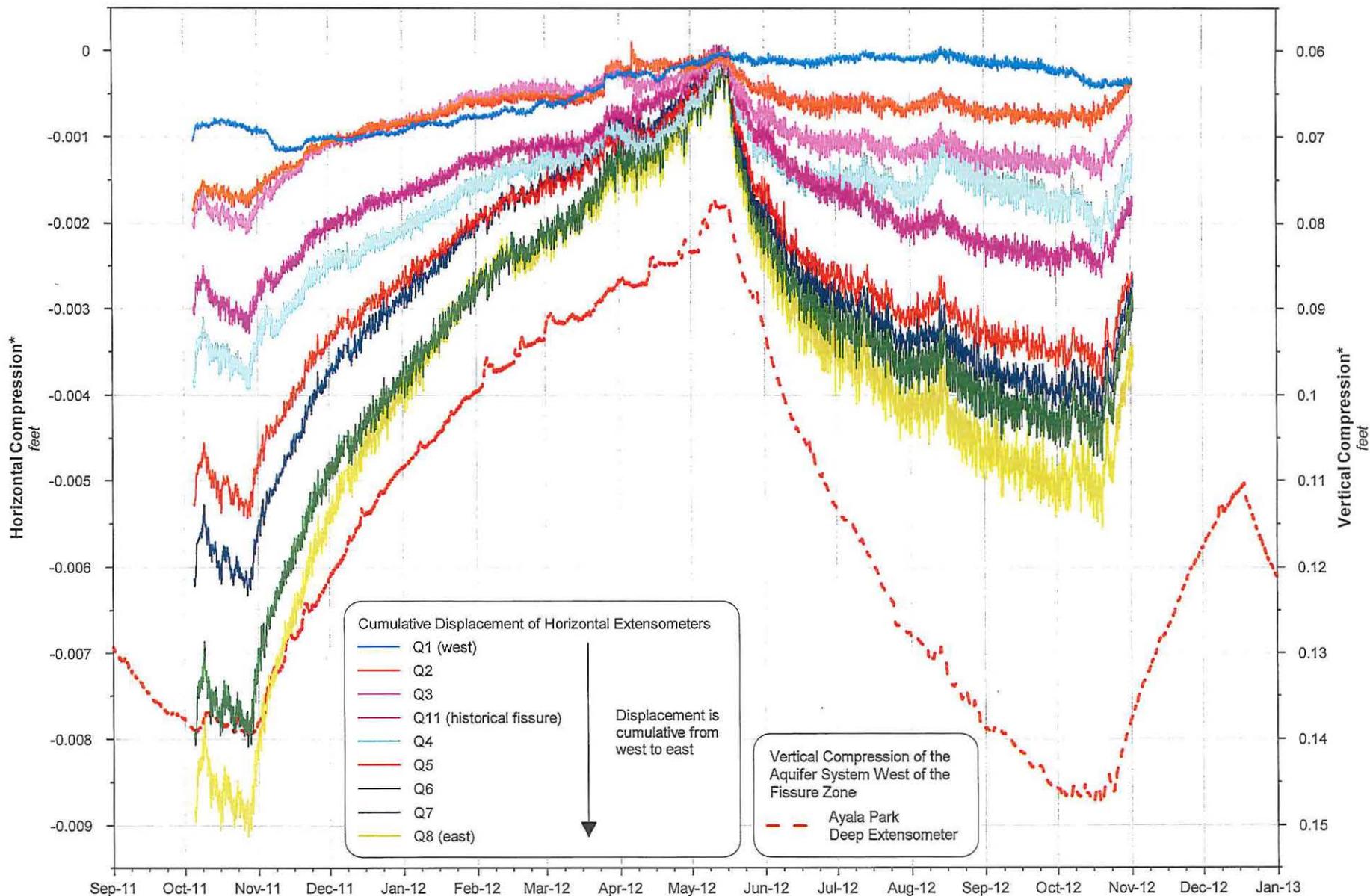


ONTARIO BASIN WATERMASTER
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Location of the Daniels Horizontal Extensometer

Figure 3-4

P73



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*Positive compression values represent compression of soils, negative compression values represent expansion of soils.

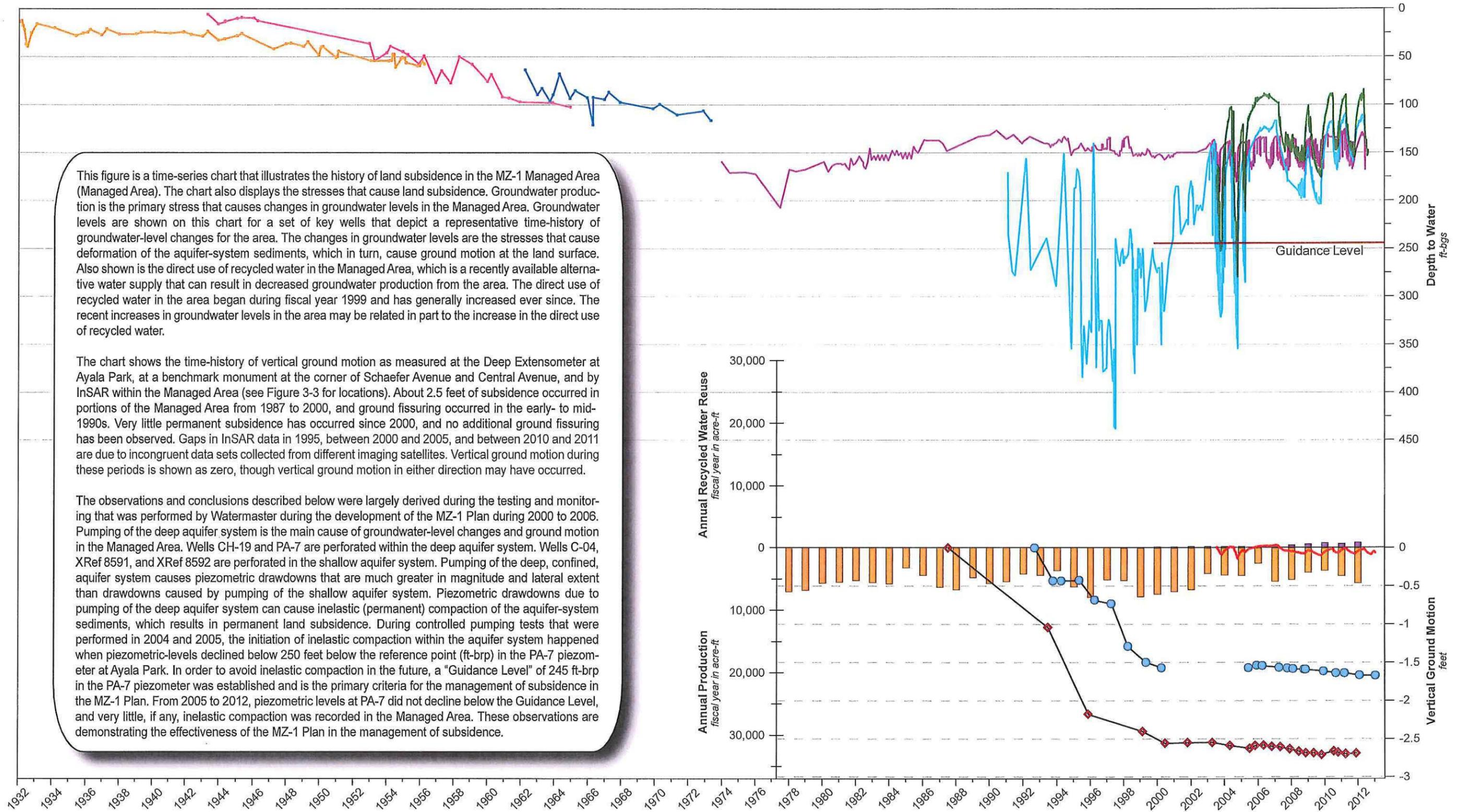
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 2012 Annual Report

Horizontal Deformation at the Daniels Horizontal Extensometer

Figure 3-5



This figure is a time-series chart that illustrates the history of land subsidence in the MZ-1 Managed Area (Managed Area). The chart also displays the stresses that cause land subsidence. Groundwater production is the primary stress that causes changes in groundwater levels in the Managed Area. Groundwater levels are shown on this chart for a set of key wells that depict a representative time-history of groundwater-level changes for the area. The changes in groundwater levels are the stresses that cause deformation of the aquifer-system sediments, which in turn, cause ground motion at the land surface. Also shown is the direct use of recycled water in the Managed Area, which is a recently available alternative water supply that can result in decreased groundwater production from the area. The direct use of recycled water in the area began during fiscal year 1999 and has generally increased ever since. The recent increases in groundwater levels in the area may be related in part to the increase in the direct use of recycled water.

The chart shows the time-history of vertical ground motion as measured at the Deep Extensometer at Ayala Park, at a benchmark monument at the corner of Schaefer Avenue and Central Avenue, and by InSAR within the Managed Area (see Figure 3-3 for locations). About 2.5 feet of subsidence occurred in portions of the Managed Area from 1987 to 2000, and ground fissuring occurred in the early- to mid-1990s. Very little permanent subsidence has occurred since 2000, and no additional ground fissuring has been observed. Gaps in InSAR data in 1995, between 2000 and 2005, and between 2010 and 2011 are due to incongruent data sets collected from different imaging satellites. Vertical ground motion during these periods is shown as zero, though vertical ground motion in either direction may have occurred.

The observations and conclusions described below were largely derived during the testing and monitoring that was performed by Watermaster during the development of the MZ-1 Plan during 2000 to 2006. Pumping of the deep aquifer system is the main cause of groundwater-level changes and ground motion in the Managed Area. Wells CH-19 and PA-7 are perforated within the deep aquifer system. Wells C-04, XRef 8591, and XRef 8592 are perforated in the shallow aquifer system. Pumping of the deep, confined, aquifer system causes piezometric drawdowns that are much greater in magnitude and lateral extent than drawdowns caused by pumping of the shallow aquifer system. Piezometric drawdowns due to pumping of the deep aquifer system can cause inelastic (permanent) compaction of the aquifer-system sediments, which results in permanent land subsidence. During controlled pumping tests that were performed in 2004 and 2005, the initiation of inelastic compaction within the aquifer system happened when piezometric-levels declined below 250 feet below the reference point (ft-brp) in the PA-7 piezometer at Ayala Park. In order to avoid inelastic compaction in the future, a "Guidance Level" of 245 ft-brp in the PA-7 piezometer was established and is the primary criteria for the management of subsidence in the MZ-1 Plan. From 2005 to 2012, piezometric levels at PA-7 did not decline below the Guidance Level, and very little, if any, inelastic compaction was recorded in the Managed Area. These observations are demonstrating the effectiveness of the MZ-1 Plan in the management of subsidence.

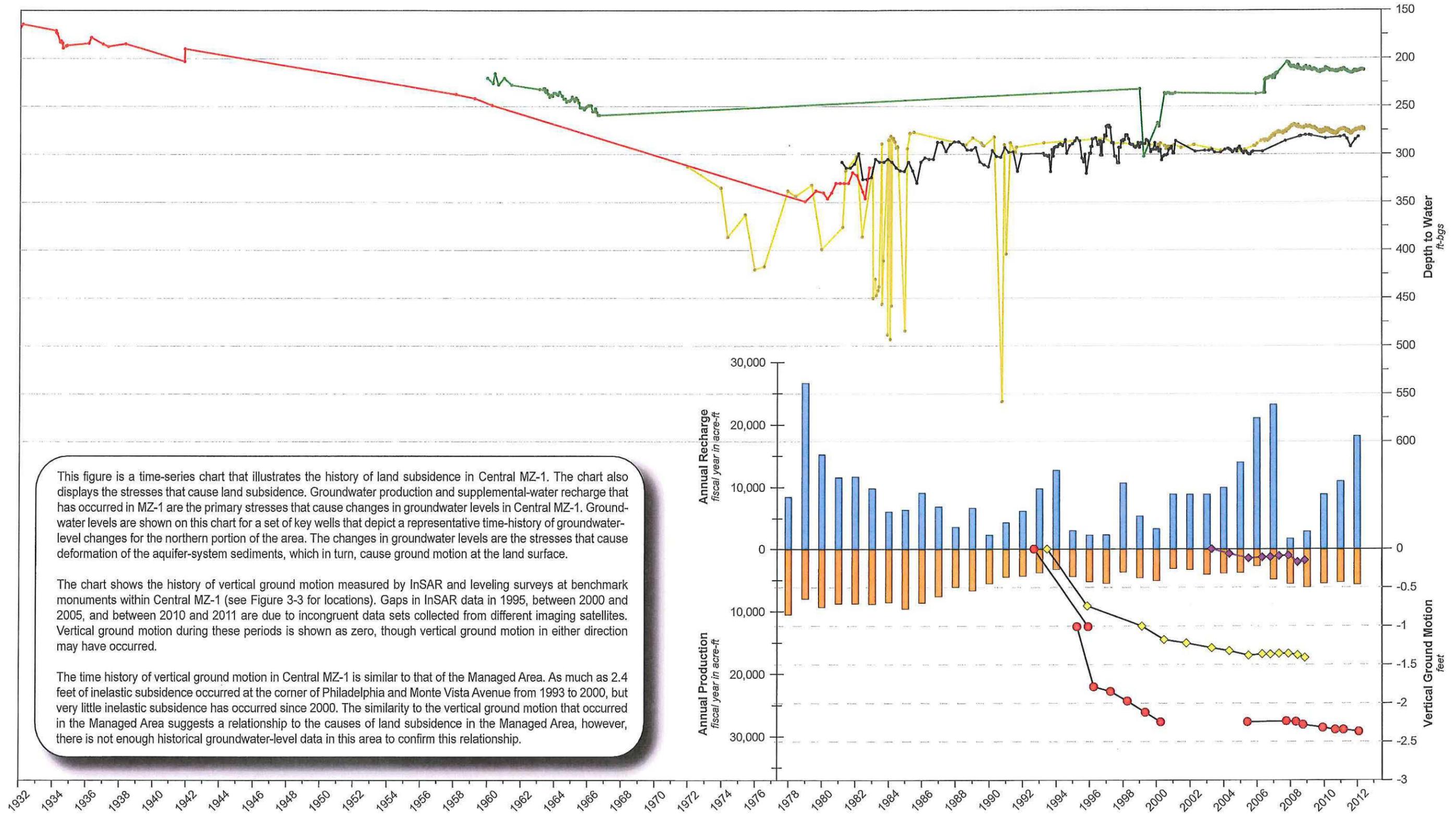
<p>Groundwater Levels at Wells (Perforated Interval Depth)</p> <ul style="list-style-type: none"> — C-04 (160-275 ft-bgs) — CH-19 (340-1000 ft-bgs) — PA-7 (438-448 ft-bgs) — XRef 8590 (80-225 ft-bgs) — XRef 8591 (no perf data) — XRef 8592 (90-230 ft-bgs) 		<p>Vertical Ground Motion</p> <ul style="list-style-type: none"> ◆ BM 137/53 Cumulative Displacement ● Managed Area InSAR — Ayala Park Deep Extensometer Measurements Between 30 to 1,400 ft-bgs 		<p>Recharge and Production</p> <ul style="list-style-type: none"> ■ Recycled Water Reuse Applied in MZ1 Managed Area ■ Groundwater Production from Wells in MZ1 Managed Area 	
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 Author: TCR
 Date: 20131122
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2012 Annual Report

The History of Land Subsidence in the MZ1 Managed Area

Figure 3-6

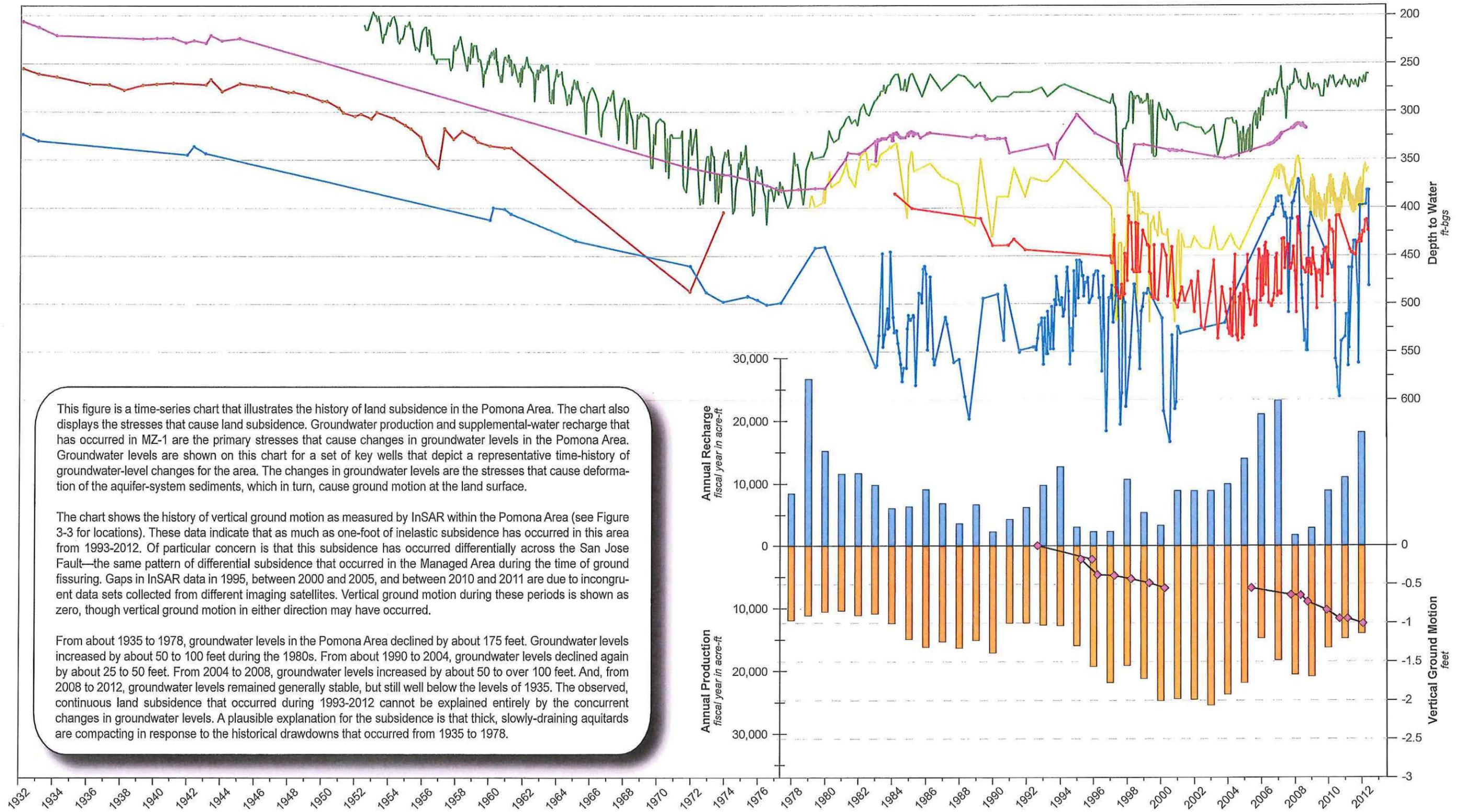


This figure is a time-series chart that illustrates the history of land subsidence in Central MZ-1. The chart also displays the stresses that cause land subsidence. Groundwater production and supplemental-water recharge that has occurred in MZ-1 are the primary stresses that cause changes in groundwater levels in Central MZ-1. Groundwater levels are shown on this chart for a set of key wells that depict a representative time-history of groundwater-level changes for the northern portion of the area. The changes in groundwater levels are the stresses that cause deformation of the aquifer-system sediments, which in turn, cause ground motion at the land surface.

The chart shows the history of vertical ground motion measured by InSAR and leveling surveys at benchmark monuments within Central MZ-1 (see Figure 3-3 for locations). Gaps in InSAR data in 1995, between 2000 and 2005, and between 2010 and 2011 are due to incongruent data sets collected from different imaging satellites. Vertical ground motion during these periods is shown as zero, though vertical ground motion in either direction may have occurred.

The time history of vertical ground motion in Central MZ-1 is similar to that of the Managed Area. As much as 2.4 feet of inelastic subsidence occurred at the corner of Philadelphia and Monte Vista Avenue from 1993 to 2000, but very little inelastic subsidence has occurred since 2000. The similarity to the vertical ground motion that occurred in the Managed Area suggests a relationship to the causes of land subsidence in the Managed Area, however, there is not enough historical groundwater-level data in this area to confirm this relationship.

Prepared by: 	Groundwater Levels at Wells (Perforated Depth Interval) C-03 (230-450 ft-bgs) MV-24 (244-420 ft-bgs) MV-02 (397-962 ft-bgs) C-10 (355-1090 ft-bgs)	Vertical Ground Motion Central MZ-1 InSAR BM A-4 BM 125/49	Recharge and Production Recharge of Recycled Water, Storm Water*, and Imported Water at the College Heights, Upland, Montclair, and Brooks Basins; and at MVWD ASR Wells *Storm Water is an estimated amount prior to Fiscal Year 04/05 Groundwater Production from Wells in Central MZ-1 Area		The History of Land Subsidence in Central MZ-1
	Author: TCR Date: 20131121 File: Figure_3-7.grf			Land Subsidence Committee 2012 Annual Report	



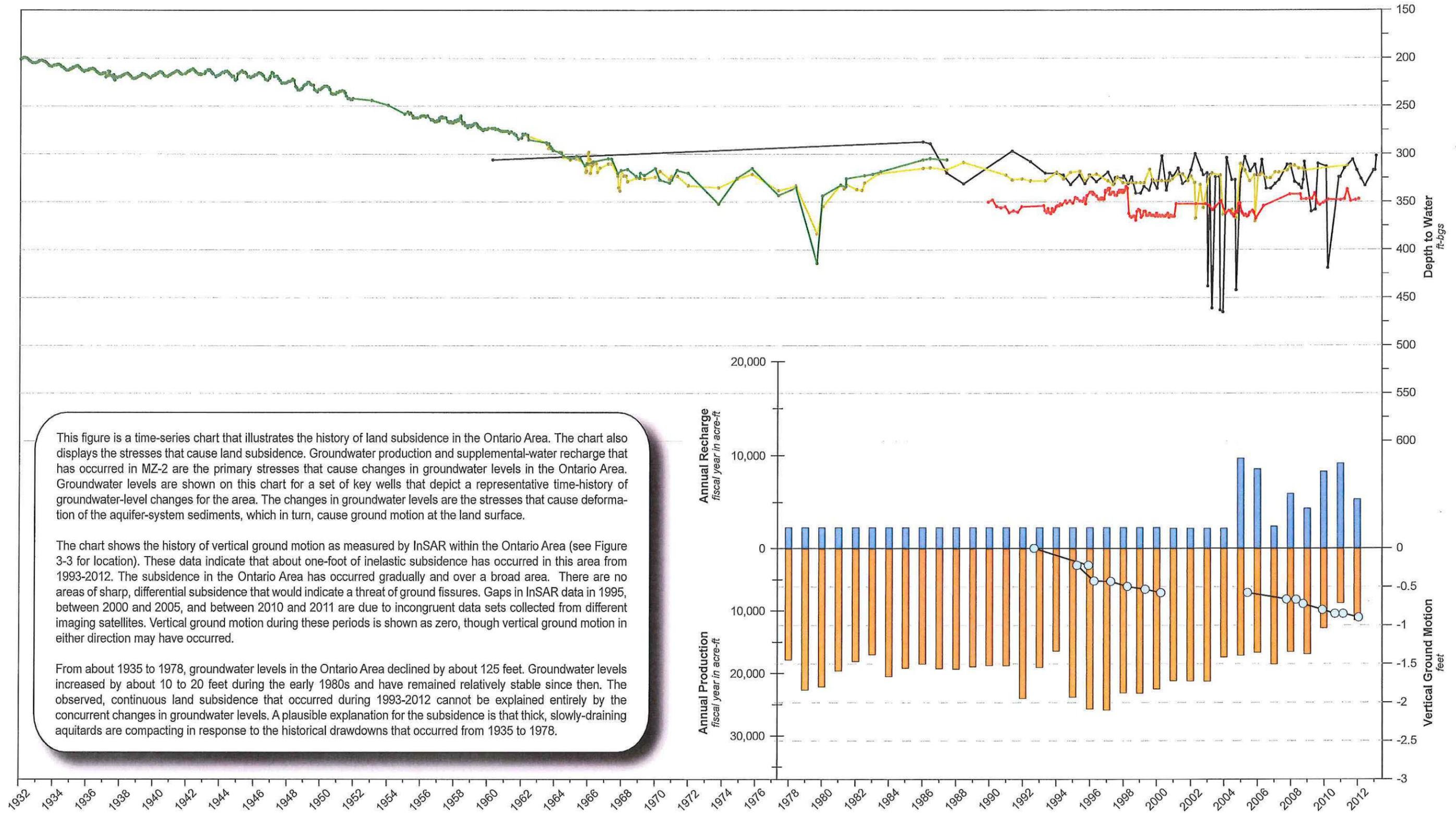
Groundwater Levels at Wells (Perforated Depth Interval)		Vertical Ground Motion	Recharge and Production	
—●— P-11 (168-550 ft-bgs)	—●— P-27 (472-849 ft-bgs)	—◇— Pomona Area InSAR	■ Recharge of Recycled Water, Storm Water*, and Imported Water at the College Heights, Upland, Montclair, and Brooks Basins; and at MVWD ASR Wells	
—●— MV-08 (225-447 ft-bgs)	—●— MV-10 (520-1084 ft-bgs)		■ Groundwater Production from Wells in the Pomona Area	

*Storm Water is an estimated amount prior to Fiscal Year 04/05
 Prepared by: WILDERMUTH ENVIRONMENTAL INC.
 Author: TCR
 Date: 20131121
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The History of Land Subsidence in the Pomona Area

Land Subsidence Committee
2012 Annual Report

Figure 3-8



This figure is a time-series chart that illustrates the history of land subsidence in the Ontario Area. The chart also displays the stresses that cause land subsidence. Groundwater production and supplemental-water recharge that has occurred in MZ-2 are the primary stresses that cause changes in groundwater levels in the Ontario Area. Groundwater levels are shown on this chart for a set of key wells that depict a representative time-history of groundwater-level changes for the area. The changes in groundwater levels are the stresses that cause deformation of the aquifer-system sediments, which in turn, cause ground motion at the land surface.

The chart shows the history of vertical ground motion as measured by InSAR within the Ontario Area (see Figure 3-3 for location). These data indicate that about one-foot of inelastic subsidence has occurred in this area from 1993-2012. The subsidence in the Ontario Area has occurred gradually and over a broad area. There are no areas of sharp, differential subsidence that would indicate a threat of ground fissures. Gaps in InSAR data in 1995, between 2000 and 2005, and between 2010 and 2011 are due to incongruent data sets collected from different imaging satellites. Vertical ground motion during these periods is shown as zero, though vertical ground motion in either direction may have occurred.

From about 1935 to 1978, groundwater levels in the Ontario Area declined by about 125 feet. Groundwater levels increased by about 10 to 20 feet during the early 1980s and have remained relatively stable since then. The observed, continuous land subsidence that occurred during 1993-2012 cannot be explained entirely by the concurrent changes in groundwater levels. A plausible explanation for the subsidence is that thick, slowly-draining aquitards are compacting in response to the historical drawdowns that occurred from 1935 to 1978.

Prepared by: 	Groundwater Levels at Wells (Perforated Depth Interval)	Vertical Ground Motion	Recharge and Production
	C-14 (480-1200 ft-bgs) O-05 (360-470 ft-bgs) O-15 (474-966 ft-bgs) O-34 (522-1092 ft-bgs)	Ontario Area InSAR	Recharge of Recycled, Storm Water*, and Imported Water at Basins in MZ-2 and the 7th and 8th Street Basins *Storm Water is an estimated amount prior to Fiscal Year 04/05 Groundwater Production from Wells in the Ontario Area

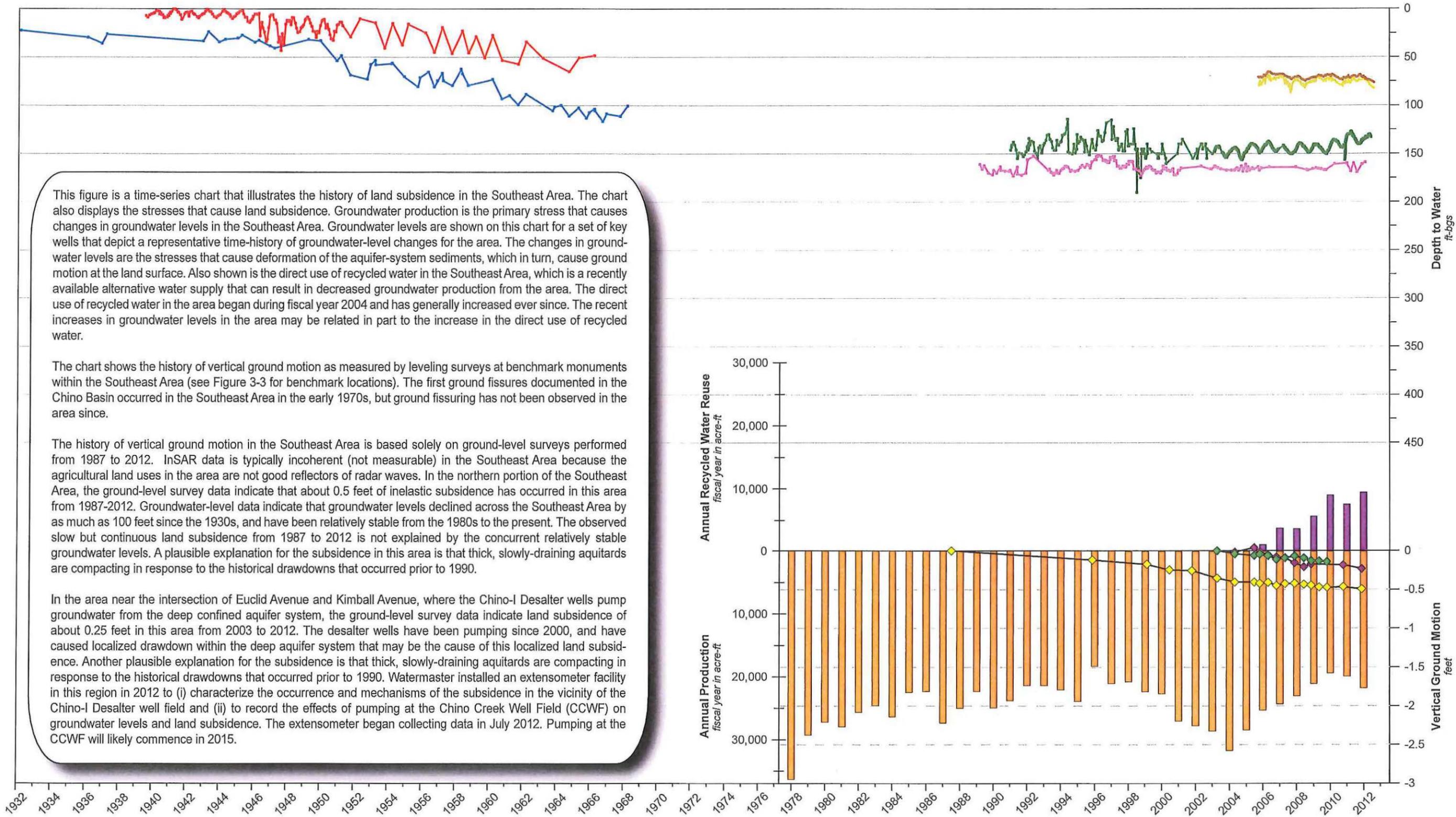
Author: TCR
 Date: 20131121
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The History of Land Subsidence in the Ontario Area

Land Subsidence Committee
 2012 Annual Report

Figure 3-9



This figure is a time-series chart that illustrates the history of land subsidence in the Southeast Area. The chart also displays the stresses that cause land subsidence. Groundwater production is the primary stress that causes changes in groundwater levels in the Southeast Area. Groundwater levels are shown on this chart for a set of key wells that depict a representative time-history of groundwater-level changes for the area. The changes in groundwater levels are the stresses that cause deformation of the aquifer-system sediments, which in turn, cause ground motion at the land surface. Also shown is the direct use of recycled water in the Southeast Area, which is a recently available alternative water supply that can result in decreased groundwater production from the area. The direct use of recycled water in the area began during fiscal year 2004 and has generally increased ever since. The recent increases in groundwater levels in the area may be related in part to the increase in the direct use of recycled water.

The chart shows the history of vertical ground motion as measured by leveling surveys at benchmark monuments within the Southeast Area (see Figure 3-3 for benchmark locations). The first ground fissures documented in the Chino Basin occurred in the Southeast Area in the early 1970s, but ground fissuring has not been observed in the area since.

The history of vertical ground motion in the Southeast Area is based solely on ground-level surveys performed from 1987 to 2012. InSAR data is typically incoherent (not measurable) in the Southeast Area because the agricultural land uses in the area are not good reflectors of radar waves. In the northern portion of the Southeast Area, the ground-level survey data indicate that about 0.5 feet of inelastic subsidence has occurred in this area from 1987-2012. Groundwater-level data indicate that groundwater levels declined across the Southeast Area by as much as 100 feet since the 1930s, and have been relatively stable from the 1980s to the present. The observed slow but continuous land subsidence from 1987 to 2012 is not explained by the concurrent relatively stable groundwater levels. A plausible explanation for the subsidence in this area is that thick, slowly-draining aquitards are compacting in response to the historical drawdowns that occurred prior to 1990.

In the area near the intersection of Euclid Avenue and Kimball Avenue, where the Chino-I Desalter wells pump groundwater from the deep confined aquifer system, the ground-level survey data indicate land subsidence of about 0.25 feet in this area from 2003 to 2012. The desalter wells have been pumping since 2000, and have caused localized drawdown within the deep aquifer system that may be the cause of this localized land subsidence. Another plausible explanation for the subsidence is that thick, slowly-draining aquitards are compacting in response to the historical drawdowns that occurred prior to 1990. Watermaster installed an extensometer facility in this region in 2012 to (i) characterize the occurrence and mechanisms of the subsidence in the vicinity of the Chino-I Desalter well field and (ii) to record the effects of pumping at the Chino Creek Well Field (CCWF) on groundwater levels and land subsidence. The extensometer began collecting data in July 2012. Pumping at the CCWF will likely commence in 2015.

Groundwater Levels at Wells (Perforated Depth Interval)

- CH-18A (420-980 ft-bgs)
- C-13 (290-720 ft-bgs)
- HCMP-1/1 (135-175 ft-bgs)
- HCMP-1/2 (300-320 ft-bgs)
- XRef 8588 (unknown)
- XRef 8589 (unknown)

Vertical Ground Motion

- BM 133/61
- BM 137/61
- BM 157/71

Recharge and Production

- Recycled Water Reuse Applied in the Southeast Area
- Groundwater Production from Wells in the Southeast Area

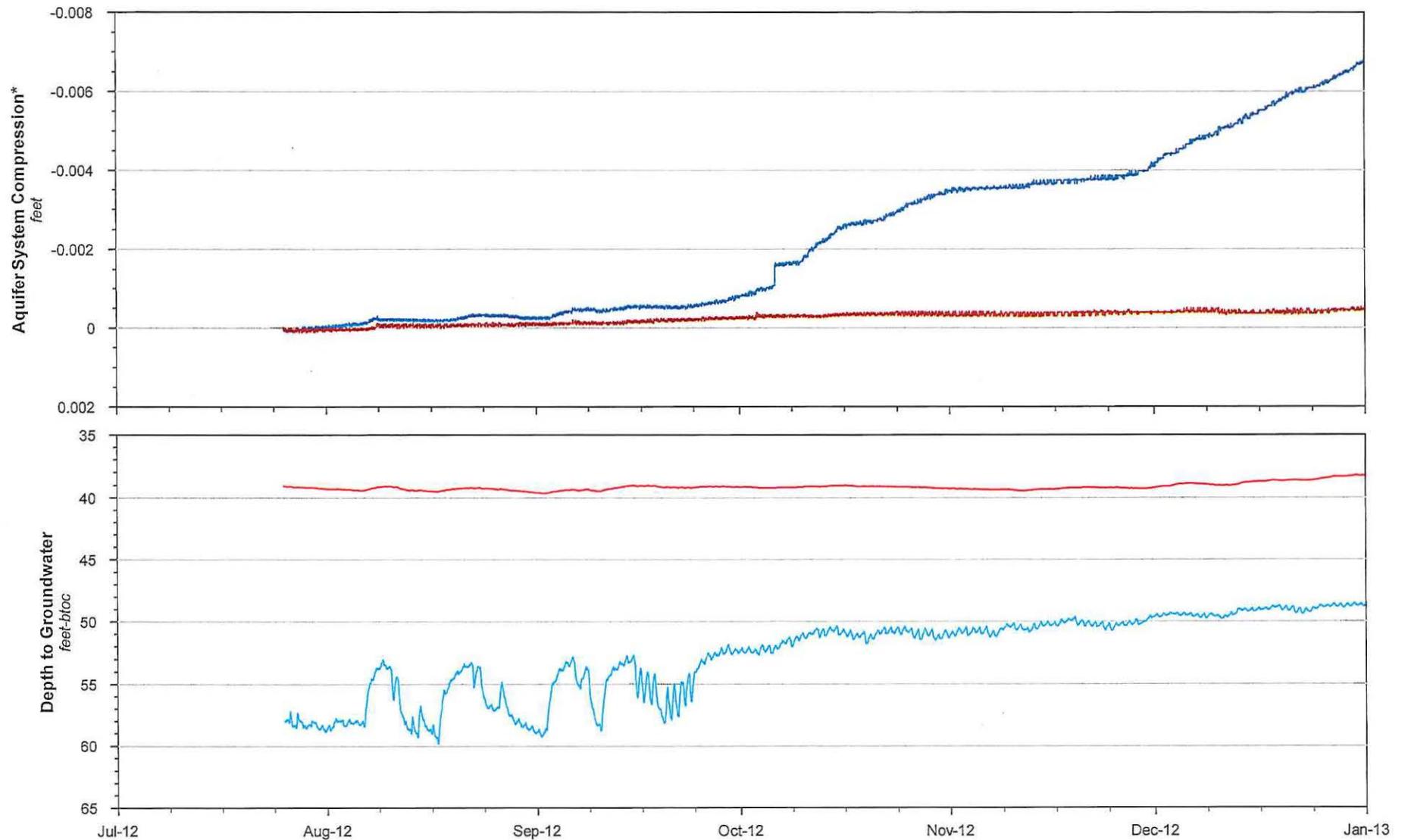
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 ENVIRONMENTAL INC.
 Author: TCR
 Date: 20131121
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The History of Land Subsidence in the Southeast Area

Land Subsidence Committee
 2012 Annual Report

Figure 3-10



Shallow Aquifer System
 Aquifer System Deformation
 (Extensometer Depth Interval)
 — CCX-1 Extensometer
 (50-140 ft-bgs)
 Depth to Groundwater
 (Perforated Depth Interval)
 — CCPA-1 Piezometer
 (100-130 ft-bgs)

Deep Aquifer System
 Aquifer System Deformation
 (Extensometer Depth Interval)
 — CCX-2 Extensometer
 (50-610 ft-bgs)
 Depth to Groundwater
 (Perforated Depth Interval)
 — CCPA-2 Piezometer
 (235-295 ft-bgs)

Prepared by:

 Author: TCR
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Land Subsidence Committee
 2012 Annual Report

Stress and Strain
 Chino Creek Extensometer
Figure 3-11

*Positive compression values represent compression of soils, negative compression values represent expansion of soils

Section 4 – Conclusions and Recommendations

4.1 Conclusions

The following are conclusions based on the data collected and analyzed for the Land-Subsidence Monitoring Program through 2012:

- Pumping of the Managed Wells did not cause drawdown of groundwater levels below the Guidance Level as measured at the PA-7 piezometer, and very little, if any, permanent subsidence was recorded in the Managed Area during 2012. These observations demonstrate the effectiveness of the MZ1 Plan in the management of subsidence.
- During 2012, differential land subsidence continued to occur in the Pomona Area across the San Jose Fault, which is the type of vertical deformation of the land surface that can lead to ground fissuring. A more intensive program of testing and monitoring is needed to better characterize the causes of land subsidence and the threat of ground fissuring in this area.
- The horizontal-strain data collected to date at the DHX demonstrates a logical response to stresses in the Managed Area:
 - horizontal extension across the fissure zone during subsidence of the ground surface in the Managed Area
 - horizontal compression across the fissure zone during rebound of the land surface in the Managed Area

The data that will be collected and analyzed from the DHX during the Long-Term Pumping Test in the Managed Area is needed to determine if it is capable of producing “management-grade” information in the future.

- Since the installation of the CCX in July 2012, there has been very little fluctuation of groundwater levels or vertical deformation of the aquifer system. There appears to be very little, if any, ongoing subsidence at the CCX.

4.2 Recommendations for Testing and Monitoring – Fiscal Year 2013-14

The scope-of-work for the Land-Subsidence Monitoring Program for fiscal year 2013/14 is shown in Table 4-1 as a work breakdown structure with cost estimates. The Chino Basin Watermaster has approved this scope and budget, which includes:

- Continued regular and as-needed maintenance at the Ayala Park Extensometer, Chino Creek Extensometer, and Daniels Horizontal Extensometer.
- Continued quarterly collection of groundwater-elevation and aquifer-system-deformation data at wells and extensometers within the monitoring network.

- Installation of new benchmark monuments in the Pomona Area and conducting initial elevation and EDM surveys at these benchmarks. Figure 4-1 shows the locations of the new benchmark monuments. The elevation survey will reference the benchmark elevations to the Ayala Park datum. The EDM survey will measure the horizontal distance between the benchmark monuments that cross the San Jose Fault. These surveys will function as a baseline for comparison to future surveys.
- Continued implementation of the Long-Term Pumping Test that began in November 2012. The test is expected to continue through 2013, and into 2014. Figure 4-2 shows piezometric levels at PA-7 recorded through 2012, and the anticipated piezometric levels for the remainder of the Long-Term Pumping Test. An injection test is planned at CH-16 which could correspond with the recovery phase. The injection could accelerate the recovery of groundwater levels and facilitate the evaluation of injection as a tool for subsidence management. Watermaster is assisting the City of Chino Hills in its injection test at CH-16 with subsidence monitoring, administration of a grant from the DWR, and reporting on the results and conclusions of the injection test.
- Conducting elevation and EDM surveys at benchmarks in the Managed Area in fall 2013 and conjunction with maximum drawdown and maximum recovery of groundwater levels during the Long-Term Pumping Test.
- Conducting elevation survey at benchmarks in the Southeast Area in the fall of 2013.
- Collection and post-processing of InSAR data from the TerraSAR-X satellite operated by the European Space Agency. Five InSAR data scenes will be collected for 2013 and used to create interferograms that document the vertical motion of the land subsidence across the western portion of Chino Basin.

4.3 Recommendations for Changes to the MZ-1 Plan

Currently, there are no recommendations for changes to the MZ-1 Plan.

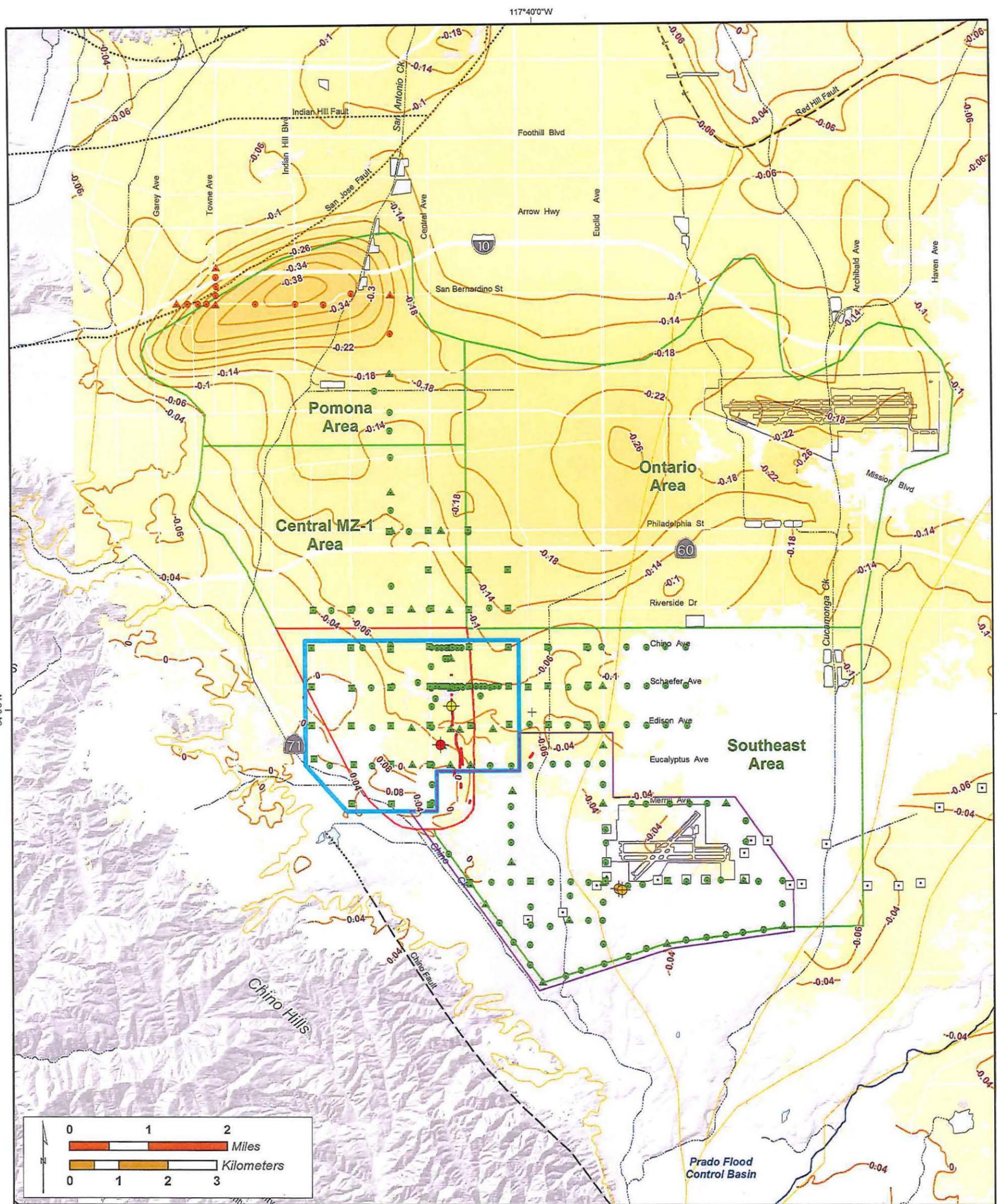
**Table 4-1
Work Breakdown Structure
Land Subsidence Monitoring Program -- Fiscal Year 2013/14**

Task/Subtask/Description	Notes	Labor Cost						Total Labor		Other Direct Costs					Total ODC	Totals		
		Principal II	Principal I	Senior II	Staff	Field Tech	Clerical	Task Repetition Multiplier	Person Days	Cost	Travel	Equip and Expend	Subs	Repro		Misc.	Recommended Tasks 2013-14	Estimated Future Annual Costs
Task 1 -- Setup/Maintenance of Monitoring Network																\$56,214	\$56,214	\$89,534
1.1 Equipment maintenance	(1)																	
Routine maintenance of Ayala Park/CCWF extensometer facilities				0.125	0.125	0.75		12	12	\$9,330	\$384	\$228				\$612	\$9,942	\$9,942
Maintenance at horizontal extensometer site				0.25		1		2	2.5	\$1,960	\$64	\$200	\$15,040			\$15,304	\$17,264	\$17,264
Replacement/repair of equipment at extensometer facilities	(2)	2		2		2		1	6	\$7,380	\$32	\$10,000	\$10,000			\$20,032	\$27,412	\$27,412
1.2 Annual lease fees for CCWF extensometer site								1	0	\$0				\$1,596		\$1,596	\$1,596	\$1,596
1.3 Reset the PA vault at Ayala Park to prevent surface water runoff intrusion	(3)	0.5		10		5		1	15.5	\$17,310	\$32		\$15,000			\$15,032		\$32,342
1.4 Abandon the PB facility	(3)																	
Write specification, subcontract, etc.		0.5	2	8	1			1	11.5	\$15,748					\$200	\$200		\$15,948
Coordinate with the City of Chino on schedule and landscaping				1	2			1	3	\$3,320					\$50	\$50		\$3,370
Remove in situ equipment from the wells				0.25	0.5	1		1	1.75	\$1,480	\$32	\$32				\$64		\$1,544
Perform well abandonment			1	1		5		1	7	\$6,234	\$32	\$64	\$30,000			\$30,096		\$36,330
Task 2 -- Aquifer-System Monitoring and Testing																\$76,381	\$9,880	\$33,540
Groundwater-level and extensometer data collection and																		
2.1 organization	(1)																	
Download and check data from the Ayala Park facility		0.125		0.125		0.5		4	3	\$2,820	\$128					\$128	\$2,948	\$1,520
Download and check data from the horizontal extensometer site		0.125		0.125		0.25		4	2	\$2,170	\$128			\$600		\$728	\$2,898	\$1,520
Download and check data from the CCWF facility		0.125		0.125		0.25		4	2	\$2,170	\$128					\$128	\$2,298	\$1,520
Process and upload data to database				0.25	1			4	5	\$5,320						\$0	\$5,320	\$5,320
2.2 Conduct Long-Term Pumping Test in the Managed Area	(1)																	
Coordinate testing with pumpers				1				1	1	\$1,320						\$0	\$1,320	
Collect field data; process and upload to database				2	4	1		1	7	\$7,290						\$0	\$7,290	
Prepare, analyze, and distribute stress-strain diagrams to LSC		0.25		0.25				6	3	\$4,560					\$200	\$200	\$4,760	
2.3 Conduct Injection Test in Managed Area	(1)																	
Well rehabilitation and retrofit and injection pilot testing	(4,5)								0	\$0			\$41,655			\$41,655	\$41,655	
Quarterly reports and project administration - LGA Grant	(4)	0.125		0.25	0.125			4	2	\$2,680					\$200	\$200	\$2,880	
Prepare two technical memoranda following each ASR cycle	(4)	1		0.125	0.5			2	3.25	\$4,770					\$242	\$242	\$5,012	
Prepare final report for LGA Grant and final technical report for ASR Pilot Test	(4)	3		16	5		2	1	26	\$33,040					\$500	\$500		\$33,540
Task 3 -- Ground-Level Surveys																\$121,880	\$63,840	\$15,000
3.1 Replace destroyed benchmarks	(2)							1	0	\$0			\$5,400			\$5,400	\$5,400	\$5,400
3.2 Conduct Fall 2013 ground-level and EDM survey in Managed Area	(1)			0.5				1	0.5	\$660			\$27,900			\$27,900	\$28,560	\$28,560
3.3 Conduct Fall 2013 ground-level survey in Central MZ-1 Area	(3)							1	0	\$0			\$15,000			\$15,000		\$15,000
3.4 Conduct Fall 2013 ground-level survey in Southeast Area (CCWF)	(3)							1	0	\$0			\$27,700			\$27,700	\$27,700	\$27,700
3.5 Install benchmarks in the Pomona Area and perform initial ground-level/EDM Survey	(3)	0.5		1				1	1.5	\$2,180			\$27,300			\$27,300	\$29,480	
3.6 Conduct Spring 2014 ground-level and EDM survey in Managed Area	(1)			0.5				1	0.5	\$660			\$27,900			\$27,900	\$28,560	
3.7 Process and upload data to database	(1)	0.5		1				1	1.5	\$2,180						\$0	\$2,180	\$2,180
Task 4 -- BW InSAR																\$92,830	\$92,830	\$0
4.1 InSAR data collection	(1)			1				1	1	\$1,320			\$90,000			\$90,000	\$91,320	\$91,320
4.2 Process and upload data to database/GIS	(1)	0.25		0.25	0.75			1	1.25	\$1,510						\$0	\$1,510	\$1,510
Task 5 -- Data Analysis and Reporting																\$68,770	\$68,770	\$21,280
5.1 Data analysis in Managed Area	(1)																	
Production/piezometric/extensometer		1		2	3			1	6	\$7,360			\$20,230			\$20,230	\$27,590	\$27,590
EDM and ground-level survey data		1		4	1			1	6	\$8,000						\$0	\$8,000	\$8,000
InSAR data				0.5	0.5			1	1	\$1,160						\$0	\$1,160	\$1,160
Tectonic data					0.5			1	0.5	\$500						\$0	\$500	\$500
Recycled water reuse data				0.5				1	0.5	\$660						\$0	\$660	\$660
5.2 Prepare MZ-1 Annual Report	(1)																	
Prepare draft technical memorandum		1		10	6		3	1	20	\$23,560					\$200	\$200	\$23,760	\$23,760
Prepare final technical memorandum		1		2	2		0.5	1	5.5	\$6,800					\$300	\$300	\$7,100	\$7,100
5.3 Update MZ-1 Plan (if necessary)	(1)	5		5	5		1	1	16	\$21,080					\$200	\$200		\$21,280
Task 6 -- Meetings and Administration																\$27,675	\$27,675	\$0
6.1 Land Subsidence Committee meetings	(1)	1		1				3	6	\$9,120	\$410					\$510	\$9,630	\$9,630
6.2 Ad hoc meetings	(1)	1		1				1	2	\$3,040	\$46					\$146	\$3,186	\$3,186
6.3 Project Administration	(1)	1.5		6				1	7.5	\$10,500						\$0	\$10,500	\$10,500
6.4 Scope and Budget for FY2014/15	(1)	1		2				1	3	\$4,360						\$0	\$4,360	\$4,360
Totals																\$443,750	\$319,209	\$159,354

Notes:

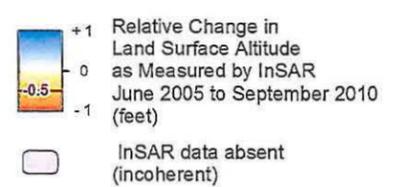
- (1) Required by MZ-1 Plan and/or Peace Agreement
- (2) Contingency budget. Spent only if necessary.
- (3) Discretionary task. Performed if recommended by the Land Subsidence Committee
- (4) \$19,518 is expected to be carried over for labor and ODC for BW-GLMP: Aquifer System Monitoring and Testing for all Recommended Tasks. Total costs are \$27,400.
- (5) \$129,936 is expected to be carried over for Outside Pros for BW-GLMP: Aquifer System Monitoring and Testing - Outside Pro. Total costs are \$171,591.





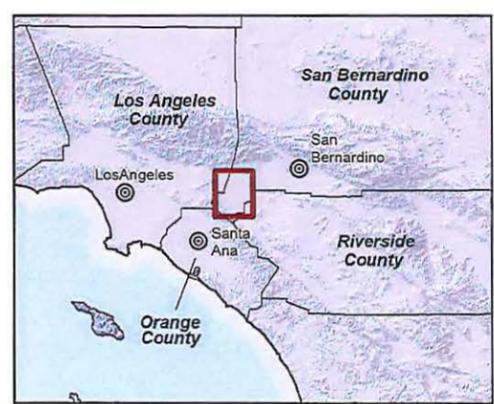
- Survey Benchmarks**
- ▲ Class A Monuments
 - ⊙ Class B Monuments
 - ⊠ City Monuments
 - ⊕ Existing Monuments
 - ⊛ Proposed Monuments

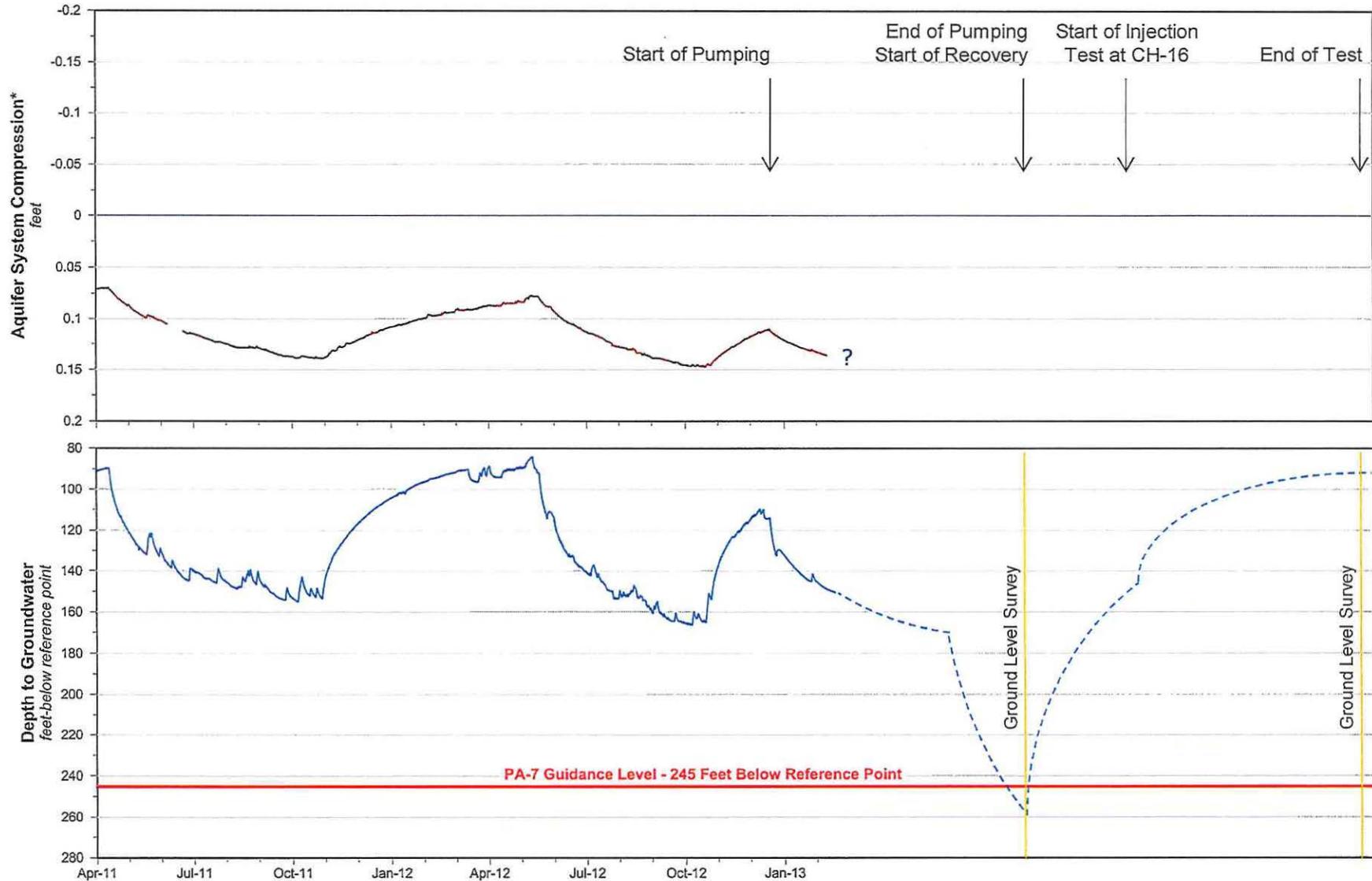
- Survey Areas**
- ▭ Southeast Area Surveys
 - ▭ Managed Area Surveys



- Wells and Extensometers**
- ⊠ Desalter Well
 - ⊕ Ayala Park Extensometer
 - ⊕ Chino Creek Extensometer
 - ⊕ Daniels Horizontal Extensometer

- Managed Area**
- ▭ Managed Area
 - ▭ Areas of Subsidence Concern
 - ⌘ Ground Fissures
- Faults**
- Location Certain
 - - - Location Approximate
 - · - · - Approximate Location of Groundwater Barrier
 - ⋯ Location Concealed
 - · - · - ? Location Uncertain
 - 1 2 3 Chino Basin Management Zones





Prepared by:



Author: TCR
 Date: 20131120
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- Aquifer System Compression (Aquifer System Depth Interval)
- Ayala Park Deep Extensometer (30-1,400 feet-bgs)
- Groundwater Levels at Wells (Perforated Depth Interval)
- PA-7 (438-448 feet-bgs)
- - - Predicted Record for PA-7 During Test

*Positive compression values represent compression of soils, negative compression values represent expansion of soils.



Land Subsidence Committee
 2012 Annual Report

Long-Term Pumping Test
 Managed Area

Figure 4-2

Section 5 – Glossary

The following glossary of terms and definitions are utilized within this report and generally in the discussions at meetings of the Land Subsidence Committee (USGS, 1999).

Aquifer – A saturated, permeable, geologic unit that can transmit significant quantities of groundwater under ordinary hydraulic gradients and is permeable enough to yield economic quantities of water to wells.

Aquifer System – A heterogeneous body of interbedded permeable and poorly permeable geologic units that function as a water-yielding hydraulic unit at a regional scale. The aquifer system may comprise one or more aquifers within which aquitards are interspersed. Confining units may separate the aquifers and impede the vertical exchange of groundwater between aquifers within the aquifer system.

Aquitard – A saturated, but poorly permeable, geologic unit that impedes groundwater movement and does not yield water freely to wells, but which may transmit appreciable water to and from adjacent aquifers and, where sufficiently thick, may constitute an important groundwater storage unit. Areally extensive aquitards may function regionally as confining units within aquifer systems.

Artesian – An adjective referring to confined aquifers. Sometimes the term artesian is used to denote a portion of a confined aquifer where the altitudes of the potentiometric surface are above land surface (flowing wells and artesian wells are synonymous in this usage). But more generally the term indicates that the altitudes of the potentiometric surface are above the altitude of the base of the confining unit (artesian wells and flowing wells are not synonymous in this case).

Compaction – Compaction in the geologic sense refers to the inelastic compression of the aquifer system. Compaction of the aquifer system reflects the rearrangement of the mineral grain pore structure and largely nonrecoverable reduction of the porosity under stresses greater than the preconsolidation stress. Compaction, as used here, is synonymous with the term “virgin consolidation” used by soils engineers. The term refers to both the process and the measured change in thickness. As a practical matter, a very small amount (1 to 5 percent) of the compaction is recoverable as a slight elastic rebound of the compacted material if stresses are reduced.

Compression – A reversible compression of sediments under increasing effective stress; it is recovered by an equal expansion when aquifer-system heads recover to their initial higher values.

Consolidation – In soil mechanics, consolidation is the adjustment of a saturated soil in response to increased load, involving the squeezing of water from the pores and a decrease in void ratio or porosity of the soil. The term “compaction” is sometimes used in preference to consolidation.



Confined Aquifer System – A system capped by a regional aquitard that strongly inhibits the vertical propagation of head changes to or from an overlying aquifer. The heads in a confined aquifer system may be intermittently or consistently different than in the overlying aquifer.

Deformation, Elastic – A fully reversible deformation of a material. In this report, the term “elastic” typically refers the deformation of the aquifer-system sediments or the land surface.

Deformation, Inelastic – A non-reversible deformation of a material. In this report, the term “inelastic” typically refers the permanent deformation of the aquifer-system sediments or the land surface.

Differential Land Subsidence – Markedly different magnitudes of subsidence over a short horizontal distance, which can be the cause ground fissuring.

Drawdown – Decline in aquifer-system head typically due to pumping by a well. Elastic deformation,

Expansion – In this report, expansion refers to expansion of sediments. A reversible expansion of sediments under decreasing effective stress.

Extensometer – A monitoring well housing a free-standing pipe or cable that can measure vertical deformation of the aquifer-system sediments between the bottom of the pipe and the land surface datum.

Ground Fissures – Elongated vertical cracks in the ground surface that can extend several tens of feet in depth.

Head – A measure of the potential for fluid flow. The height of the free surface of a body of water above a given subsurface point.

Hydraulic Conductivity – A measure of the medium’s capacity to transmit a particular fluid. The volume of water at the existing kinematic viscosity that will move in a porous medium in unit time under a unit hydraulic gradient through a unit area. In contrast to permeability, it is a function of the properties of the liquid as well as the porous medium.

Hydraulic Gradient – Change in head over a distance along a flow line within an aquifer system.

InSAR (Synthetic Aperture Radar Interferometry) – A remote-sensing method (radar data collected from satellites) that measures ground-surface displacement over time.

Linear Potentiometer – A highly sensitive electronic device that can generate continuous measurements of displacement between two objects. Used to measure movement of the land-surface datum with respect to the top of the extensometer measuring point.

Nested Piezometer – A single borehole containing more than one piezometer.

Overburden – The weight of overlying sediments including their contained water.

Piezometer – A monitoring well that measures groundwater levels at a point, or in a very limited depth interval, within an aquifer-system.

Piezometric (Potentiometric) Surface – An imaginary surface representing the total head of groundwater within a confined aquifer system, and is defined by the level to which the water will rise in wells or piezometers that are screened within the confined aquifer system.

Pore pressure – Water pressure within the pore space of a saturated sediment.

Rebound – Elastic rising of the land surface.

Stress, Effective – The maximum antecedent effective stress to which a deposit has been subjected and which it can withstand without undergoing additional permanent deformation. Stress changes in the range less than the preconsolidation stress produce elastic deformations of small magnitude. In fine-grained materials, stress increases beyond the preconsolidation stress produce much larger deformations that are principally inelastic (nonrecoverable). Synonymous with “virgin stress.”

Stress, Preconsolidation – The maximum antecedent effective stress to which a deposit has been subjected and which it can withstand without undergoing additional permanent deformation. Stress changes in the range less than the preconsolidation stress produce elastic deformations of small magnitude. In fine-grained materials, stress increases beyond the preconsolidation stress produce much larger deformations that are principally inelastic (nonrecoverable). Synonymous with “virgin stress.”

Stress – Stress (pressure) that is borne by and transmitted through the grain-to-grain contacts of a deposit, and thus affects its porosity and other physical properties. In one-dimensional compression, effective stress is the average grain-to-grain load per unit area in a plane normal to the applied stress. At any given depth, the effective stress is the weight (per unit area) of sediments and moisture above the water table, plus the submerged weight (per unit area) of sediments between the water table and the specified depth, plus or minus the seepage stress (hydrodynamic drag) produced by downward or upward components, respectively, of water movement through the saturated sediments above the specified depth. Effective stress may also be defined as the difference between the geostatic stress and fluid pressure at a given depth in a saturated deposit, and represents that portion of the applied stress which becomes effective as intergranular stress.

Subsidence – Sinking or settlement of the land surface, due to any of several processes.

Transducer, Pressure – An electronic device that can measure groundwater levels by converting water pressure to a recordable electrical signal. Typically, the transducer is connected to a data logger, which records the measurements.

Water Table – The surface of a body of unconfined groundwater at which the pressure is equal to atmospheric pressure, and is defined by the level to which the water will rise in wells or piezometers that are screened within the unconfined aquifer system.



Section 6 – References

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Link to appendices on FTP site:

<http://www.cbwm.org/FTP/Meeting%20Packets%20&%20Agendas/20131219%20Appendices%20to%202012%20Annual%20Report%20of%20the%20Land%20Subsidence%20Committee/>

Appendix A

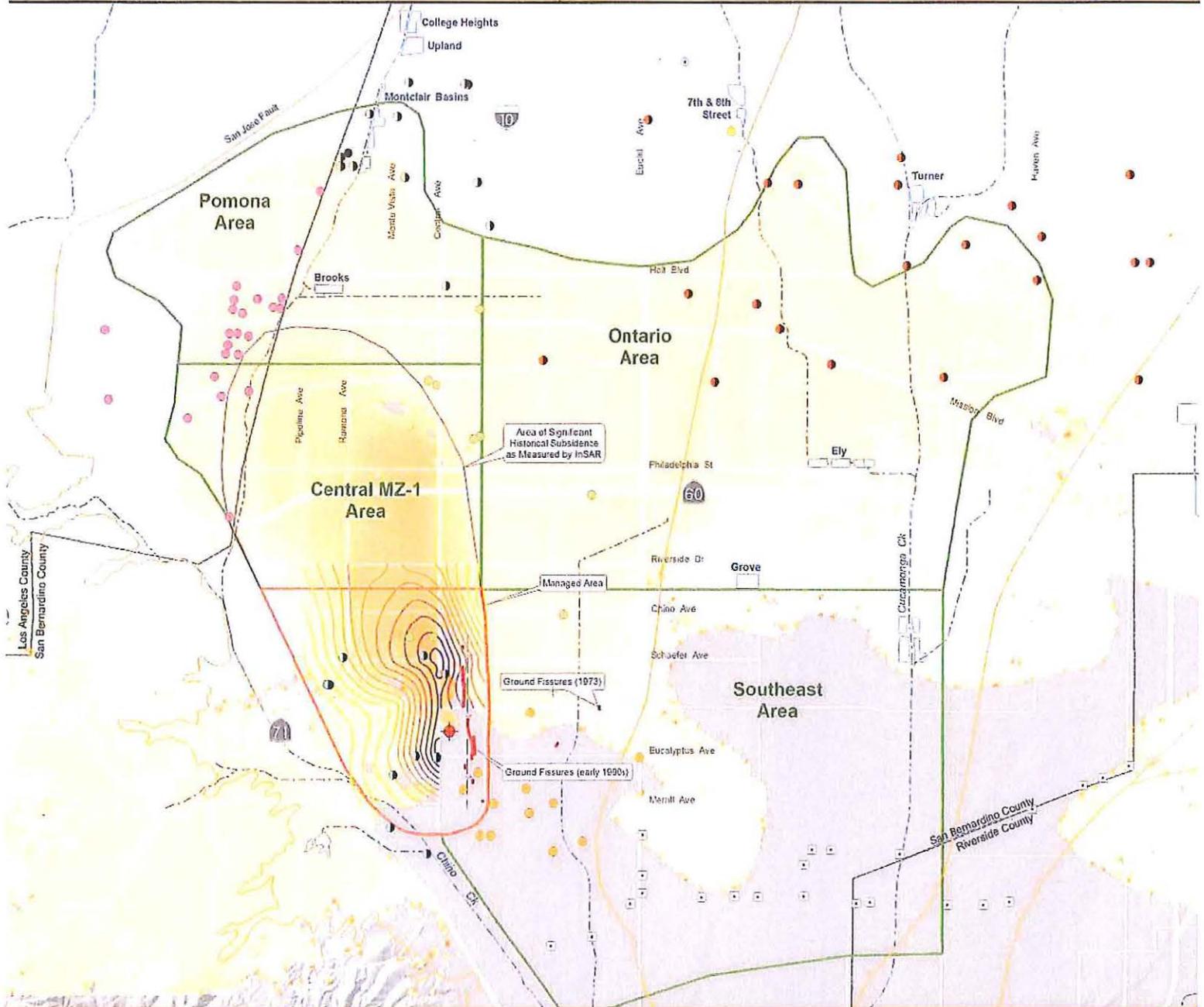
Results of Drilling and Construction of the Chino Creek Extensometer

Link to appendices on FTP site:

<http://www.cbwm.org/FTP/Meeting%20Packets%20&%20Agendas/20131219%20Appendices%20to%202012%20Annual%20Report%20of%20the%20Land%20Subsidence%20Committee/>

Appendix B

Monitoring Data through December 2012



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CHINO BASIN WATERMASTER

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Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: December 19, 2013
TO: Advisory Committee Members
Board Members
SUBJECT: Annual Finding of Substantial Compliance with the Recharge Master Plan

SUMMARY

Issue: The Finding is required on an annual basis according to Section 8.3 of the Peace II Agreement

Advisory Committee Recommendation: Recommend to the Watermaster Board to adopt the finding in the Wildermuth Report that Watermaster is in substantial compliance with the Recharge Master Plan.

Board Recommendation: Adopt the finding in the Wildermuth Report that Watermaster is in substantial compliance with the Recharge Master Plan.

Financial Impact: There is no financial impact associated with this action.

Future Consideration

Advisory Committee: December 19, 2013 Recommendation to the Watermaster Board

Watermaster Board: December 19, 2013 Adopt the Finding of Compliance [Discretionary Function]

ACTIONS:

December 12, 2013 – Appropriative Pool – Voted unanimously to recommend that the Advisory Committee recommend to the Watermaster Board to adopt the finding in the Wildermuth Report that Watermaster is in substantial compliance with the Recharge Master Plan.

December 12, 2013 – Non-Agricultural Pool – Voted unanimously to recommend that the Advisory Committee recommend to the Watermaster Board to adopt the finding in the Wildermuth Report that Watermaster is in substantial compliance with the Recharge Master Plan; ; and to direct the Pool representatives to support at the Advisory Committee and Watermaster Board meetings subject to changes which they deem appropriate

December 12, 2013 – Agricultural Pool – Voted unanimously to recommend that the Advisory Committee recommend to the Watermaster Board to adopt the finding in the Wildermuth Report that Watermaster is in substantial compliance with the Recharge Master Plan.

Date – Advisory Committee –

Date – Watermaster Board –

BACKGROUND

During the period of 2008-2010, Watermaster, in collaboration with the Inland Empire Utilities Agency (IEUA) and Chino Basin Water Conservation District (CBWCD), completed the 2010 Recharge Master Plan Update (RMPU). The RMPU was submitted to the Court in June 2010, and the Court subsequently approved the 2010 RMPU in October 2010. Watermaster has completed the amendment of the 2010 RMPU, pursuant to the Court's order, which the Board adopted in September 2013. The 2013 RMPU Amendment includes a Funding and Implementation Plan for the further recharge projects recommended for construction.

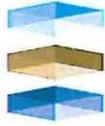
Pursuant to Section 8.3 of the Peace II Agreement, Watermaster is obligated to make an annual finding that it is in substantial compliance with the Recharge Master Plan, as it is revised. This requirement exists to ameliorate any long-term risk attributable to reliance upon un-replenished groundwater production by the Desalters, and is a condition on the annual availability of any portion of the 400,000 acre-feet set aside as controlled overdraft. Wildermuth Environmental, Inc. (WEI) has prepared the attached opinion regarding the adequacy of replenishment capacity, which includes the information that Watermaster needs to make this finding for Fiscal Year 2013-2014.

DISCUSSION

WEI's analysis finds that current projections indicate that Watermaster has sufficient recharge capacity to meet the future replenishment obligations identified in the 2010 RMPU. Current analysis indicates that if re-operation were terminated at any time through 2030, Watermaster would be able to immediately increase its replenishment activity and maintain the hydrologic balance in the Basin as required by the Judgment.

ATTACHMENTS

1. Wildermuth Report



December 3, 2013

Chino Basin Watermaster
Attention: Mr. Peter Kavounas, General Manager
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

Subject: Annual Finding of Adequate Replenishment Capacity – Fiscal 2013-14

Dear Mr. Kavounas,

At your direction and pursuant to the Peace II Agreement, Wildermuth Environmental, Inc. (WEI) has prepared this opinion regarding the adequacy of replenishment capacity in the Chino Basin.

In part, Section 7.3 of the Peace II Agreement reads:

“Re-Operation and Watermaster’s apportionment of controlled overdraft will not be suspended in the event that Hydraulic Control is achieved in any year *before* the full 400,000 acre-feet has been produced so long as: [...] and (ii) Watermaster is in substantial compliance with a Court approved Recharge Master Plan as set forth in Paragraph 8.1 below.”

Review of Section 8.1 of the Peace II Agreement clearly indicates that this compliance relates to the implementation of plans to ensure that Watermaster has enough supplemental water recharge capacity to meet its replenishment obligation after the re-operation water is completely exhausted. Section 8.3 of the Peace II Agreement states:

“To ameliorate any long-term risks attributable to reliance upon un-replenished groundwater production by the Desalters, the annual availability of any portion of the 400,000 acre-ft set aside as controlled overdraft as a component of the Physical Solution, is expressly subject to Watermaster making an annual finding about whether it is in substantial compliance with the revised Watermaster Recharge Master Plan pursuant to Paragraphs 7.3 and 8.1 above.”

Pursuant to the Peace II Agreement, Watermaster is obligated, after the completion of the 2010 Recharge Master Plan Update (RMPU), to make an annual finding that there is enough supplemental water recharge capacity to meet its replenishment obligations. This letter report includes the information required by Watermaster to make this finding for fiscal 2013-14.

During the period of 2008-2010, Watermaster, in collaboration with the Inland Empire Utilities Agency (IEUA) and Chino Basin Water Conservation District (CBWCD), completed the 2010 RMPU, which was submitted to the Court in June 2010. The 2010 RMPU was developed in a transparent and intense stakeholder process.¹ The Court subsequently approved the 2010 RMPU in October 2010. Section 7.4 of the 2010 RMPU Final Report concludes:

“No new recharge facilities will be required to meet Watermaster’s replenishment obligations through the planning period, provided that the Riverside Corona Feeder is completed within the next ten years.”²

The qualification of this finding as to the Riverside Corona Feeder was an acknowledgment that a new source of supply may be required for the Jurupa Community Services District (JCSD) such that the JCSD can reduce its net groundwater pumping to a sustainable level.³ Groundwater modeling, completed in 2007 and 2009 to evaluate the groundwater basin’s response to the implementation of the Peace II project description, suggested future declines in groundwater levels in the JCSD well field. Groundwater modeling studies in 2012 and 2013, based on revised post-2010 RMPU groundwater production projections, also predicted that the JCSD may have future production sustainability challenges. The 2010 RMPU identified a project to potentially mitigate this excessive drawdown whereby future replenishment deliveries would be provided to the JCSD for direct use, allowing the JCSD to reduce its groundwater production. Watermaster and the IEUA recently completed the 2013 Amendment to the 2010 Recharge Master Plan Update (2013 Amendment) pursuant to the October 2010 Court Order. Watermaster and the IEUA identified several feasible recharge projects that, if implemented, will improve the production sustainability of JCSD wells.

The groundwater production and replenishment projections used to evaluate the adequacy of existing supplemental water recharge capacity in the 2010 RMPU were developed in 2008 and 2009 and are significantly greater than the projections developed by Watermaster following the completion of the 2010 Urban Water Management Plans. The groundwater production and replenishment projections were revised by Watermaster pursuant to a recommendation in the 2010 RMPU and the October 2010 Court Order approving the 2010 RMPU. These updated replenishment projections clearly show that the future replenishment obligation will be substantially less than that anticipated by the 2010 RMPU. The reasons for the decline in future replenishment obligations are state-mandated conservation requirements and the changing economics of groundwater production. As to the latter, some producers have determined that it is more economical to use more imported water directly than to overproduce and incur replenishment costs and additional production-based Watermaster assessments. The table below compares the projected replenishment obligations from the 2013 Amendment to the 2010 RMPU.⁴

¹ See rmp.wildermuthenvironmental.com.

² See page 7-4 of the 2010 Recharge Master Plan Update.

³ To be clear, this is not a replenishment capacity issue. This is a balance of recharge and discharge issue. The JCSD has constructed several wells in a relatively small geographic area. The combination of the close proximity of these wells and regional changes in groundwater levels may cause excessive groundwater level declines in some of the JCSD’s wells. The Riverside Corona Feeder is one of several potential projects that could provide water to the JCSD to enable them to reduce their groundwater production.

⁴ See Table 2-4, 2013 Amendment to the 2010 RMPU.

Comparison of Projected Replenishment Obligations
 (acre-ft)

Year	Replenishment Projection from the 2010 RMPU	Replenishment Projection from the 2013 RMPU Amendment
2015	9,700	0
2020	13,900	0
2025	30,900	4,700
2030	44,500	18,400
2035	55,500	42,600

The supplemental water recharge capacity in the Chino Basin as estimated in the 2010 RMPU and as updated in 2013 are listed below.

Supplemental Water Recharge Capacity
 (acre-ft/yr)

Recharge Facility	2010 RMPU	Revised 2013 Estimate ⁵
Spreading Basins	83,100	60,600
ASR Wells	5,600	5,600
In-Lieu	25,000 to 40,000	25,000 to 40,000
Total	113,700 to 128,700	91,200 to 106,200

The revised 2013 supplemental water recharge capacity estimate is less than reported last year due to changes in the estimated recharge rates at spreading basins.⁶ Table 1 (attached) lists the spreading basins available to Watermaster and their respective supplemental water recharge capacities.

The Metropolitan Water District of Southern California (Metropolitan) provides imported water to the Chino Basin area through the IEUA. In its 2010 Integrated Regional Plan (IRP) Update, Metropolitan indicated that it will have enough water to meet all of the supplemental water requirements within its service area through 2035, provided that it implements the programs described in the 2010 IRP Update. The Watermaster parties can also import non-State Water Project water into the Chino Basin area, if Metropolitan fails to provide enough imported water for replenishment.

Based on our knowledge of the conditions in fiscal year 2013-14 and future water management projections, Watermaster's ability to recharge the Basin with supplemental water to mitigate future overproduction is sufficient to meet expected future replenishment obligations. If re-operation were discontinued at any time through 2030, Watermaster would be able to immediately increase its replenishment activity and maintain the hydrologic balance in the Basin required by the Judgment. The supplemental water recharge capacity available to the Watermaster is about five times the projected replenishment obligation in 2030 and twice the projected replenishment obligation in 2035.

Moreover, in November 2011, Watermaster committed to engage in a process to develop a preemptive replenishment program that would involve the acquisition and recharge of supplemental water in advance of incurring replenishment obligations and storing that water until future replenishment

⁵ Spreading basin capacity available during non-storm periods per Table1 (attached) with average recharge rate (column 14)

⁶ Based on a personal conversation with Jason Pivovarov of IEUA and on the IEUA Fiscal Year 2013/14 Operating and Capital Program Budget Volume 2: Ten-Year Capital Improvement Plan.

obligations occur. Preemptive replenishment is a complementary management tool that further enhances Watermaster's ability to meet its future replenishment requirements.

Please contact me if you have any questions or concerns regarding this opinion.

Very truly yours,

Wildermuth Environmental, Inc.



Mark J. Wildermuth, PE
President

**Table 1
Supplemental Water Recharge Capacity Estimates**

(1) Spreading Basin	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
	Supplemental Water Recharge																						
	Operational Availability for Supplemental Water Recharge												Average Recharge Rate ¹ (cfs)	Supplemental Water Recharge Capacity (acre-ft/yr)	Imported Water Turn Out Capacity				Theoretical Maximum Supplemental Water Recharge Capacity				
	Quarter 3			Quarter 4			Quarter 1			Quarter 2					Turn Out Name	Max Discharge Rate (cfs)	Useful Discharge Rate (cfs)	Turnout Limited?	Annual	Q3	Q4	Q1	Q2
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(acre-ft/Qtr)											
Brooks Street Basin	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	3	1,484				No	1,484	391	477	169	448
College Heights Basins	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	15	7,421				No	7,421	1,957	2,383	843	2,238
Montclair Basin 1	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77			OC59	300	300						
Montclair Basin 2	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	19	9,400				No	9,400	2,479	3,018	1,067	2,835
Montclair Basin 3	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77											
Montclair Basin 4	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77											
Seventh and Eighth Street Basins	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	7	3,463	CB20	30	30	No	3,463	913	1,112	393	1,044
Upland Basin	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	6	2,968	OC59	80	80	No	2,968	783	953	337	895
Subtotal Management Zone 1														24,736					24,736	6,524	7,943	2,809	7,460
Ely Basins	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	3	1,484	CB20	30	30	No	1,484	391	477	169	448
Etiwanda Debris Basin	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	4	1,979	CB14	30	30	No	1,979	522	635	225	597
Hickory Basin	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	2	989	CB18	30	30	No	1,187	313	381	135	358
Lower Day Basin	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	6	2,968	CB15	30	20	No	2,968	783	953	337	895
San Sevaine No. 1	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77											
San Sevaine No. 2	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	26	12,863	CB13	30	23	Yes	11,379	3,001	3,654	1,292	3,432
San Sevaine No. 3	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77											
San Sevaine Nos. 4 and 5	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77											
Turner Basins Nos. 1 and 2	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	7	3,463	CB11	40	9	No	3,463	913	1,112	393	1,044
Turner Basins Nos. 3 and 4	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77											
Victoria Basin	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	4	1,979	CB14	30	30	No	1,979	522	635	225	597
Subtotal Management Zone 2														25,726					24,439	6,446	7,848	2,775	7,371
Banana Basin	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	2	989					989	261	318	112	298
Declez Basin	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	3	1,484	CB18	30	30	No	1,484	391	477	169	448
IEUA RP3 Ponds	0.71	0.71	0.74	0.80	0.90	0.93	0.00	0.00	0.93	0.87	0.83	0.77	18	8,905					8,905	2,349	2,860	1,011	2,686
Subtotal Management Zone 3														11,379					11,379	3,001	3,654	1,292	3,432
Total														61,841					60,555	15,970	19,445	6,876	18,262

¹ Based on a Personal personal conversation with Jason Pivovarov of IEUA and on the IEUA Fiscal Year 2013/14 Operating and Capital Program Budget Volume 2: Ten-Year Capital Improvement Plan.



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: December 19, 2013
TO: Board Members
SUBJECT: Support for ACWA Statewide Water Action Plan

SUMMARY

Issue: The Association of California Water Agencies (ACWA) has adopted a Statewide Water Action Plan for California ("Plan"), which outlines 15 actions to improve water supply reliability, protect water rights, protect the integrity of the state's water system and promote better stewardship. The Plan also includes guiding principles for its implementation to help ensure actions benefit the entire state, respect water rights and contract terms, and reflect a new regulatory approach that can better meet the needs of California water users and ecosystems.

To demonstrate the broadest support possible for the Plan, ACWA is encouraging its members to adopt resolutions in support of the plan.

Recommendation: Adopt Resolution 13-08 in Support of ACWA's Statewide Water Action Plan for California.

Financial Impact: None

Watermaster Board: December 19, 2013 [Normal Course of Business]

ACTIONS:

December 19, 2013 – Watermaster Board –

BACKGROUND

On September 27, 2013, ACWA's Board of Directors unanimously approved a Statewide Water Action Plan for California. Developed by a broad cross-section of member water interests, the Plan outlines 15 actions to improve water supply reliability, protect water rights, protect the integrity of the state's water system and promote better stewardship. It also includes guiding principles for implementation of the plan to help ensure actions benefit the entire state, respect water rights and contract terms, and reflect a new regulatory approach that can better meet the needs of water users and ecosystems.

The Plan was submitted to Gov. Jerry Brown on Oct. 2, 2013, as the water agency community's recommendations for developing the Administration's water plan for the state. ACWA is encouraging its members, including Chino Basin Watermaster, to adopt resolutions in support of the plan.

DISCUSSION

The state has recognized the need for action in venues and initiatives such as the Department of Water Resources' California Water Plan, the Delta Stewardship Council's Delta Plan, and the multiagency Bay Delta Conservation Plan. Now many of California's public water agencies are stepping forward to recommend this set of principles and actions to enhance these individual efforts and integrate them in a comprehensive Statewide Water Action Plan.

The Plan provides context for a Delta solution and other critical actions as components of a broader set of strategies to address overall water supply reliability and ecosystem health in California. When implemented together, ACWA believes this suite of statewide actions will serve as a sustainable path forward for California.

Key Elements of ACWA's Statewide Water Action Plan include actions to improve Statewide water supply, actions to protect water rights, actions to protect the integrity of system, and actions to promote better stewardship.

Particularly relevant to Watermaster, the plan strongly states that California "should support and incentivize effective local and regional groundwater management, resolve conflicting state regulatory requirements and streamline its policies to optimize and increase surface and groundwater storage opportunities." (Plan, p.7, §13.) The Plan recognizes that more sustainable management of groundwater is needed, but in order to succeed the state must invest in improvements to its water storage and Delta conveyance infrastructure to optimize both surface and groundwater supplies.

As part of this policy goal, the Plan recommends a series of actions, including the promotion of local and regional groundwater management, state support and facilitation of groundwater recharge, banking and conjunctive use projects, and support and incentivization of local efforts to develop long-term, sustainable solutions for cleanup of existing groundwater contamination and prevention of future contamination. These recommendations are consistent with Watermaster's efforts in the Basin as to conjunctive use, maximization of opportunities for recharge, and cleanup of groundwater contamination.

ATTACHMENTS

1. ACWA's Statewide Water Action Plan for California (2013)
2. Draft Resolution in Support of ACWA's Statewide Water Action Plan for California



ASSOCIATION OF CALIFORNIA WATER AGENCIES

STATEWIDE WATER

ACTION PLAN FOR CALIFORNIA



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About the Statewide Water Action Plan

The Association of California Water Agencies (ACWA) convened a broad cross-section of member water interests in spring 2013 to develop a statewide plan addressing the state's overall water supply reliability and ecosystem health. The goal was to craft a specific plan that could be broadly supported by water interests throughout the state and serve as a sustainable path forward for California.

The resulting Statewide Water Action Plan was completed in September and unanimously approved by the ACWA Board of Directors on Sept. 27, 2013. ACWA submitted the Statewide Water Action Plan to California Governor Edmund G Brown Jr. on Oct. 2, 2013, as the water community's recommendations for developing the Administration's water plan for the state.

Association of California Water Agencies

Contacts and Location:

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Randy Record
ACWA President

John Coleman
ACWA Vice President

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Executive Director

ACWA's mission is to assist its members in promoting the development, management and reasonable beneficial use of good quality water at the lowest practical cost in an environmentally balanced manner.

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ASSOCIATION OF CALIFORNIA WATER AGENCIES

STATEWIDE WATER ACTION PLAN FOR CALIFORNIA

Introduction

California's complex water management system is facing unprecedented challenges. Local investments in water supply reliability and ecosystem health have built upon the legacy infrastructure projects that served us well in the past, but the backbone water supply system we rely on today no longer satisfies the state's needs. California's statewide water system cannot respond effectively to our growing population, changing ecosystem needs, increasing flood risks and consecutive years of drought. Climate change and its impacts on public safety and long-term water supply reliability also pose a significant challenge to this generation of water and flood managers.

These problems are extraordinary, and their solutions will require an extraordinary commitment from state, local and federal agencies. They also will require a more evolved regulatory approach that will allow the system to operate efficiently and predictably to meet 21st century water supply and ecosystem needs.

The state has recognized the need for action in venues and initiatives such as the Department of Water Resources' (DWR) California Water Plan, the Delta Stewardship Council's Delta Plan, and the multi-agency Bay Delta Conservation Plan (BDCP). Now California's public water agencies are stepping forward to recommend this set of principles and actions to enhance these individual efforts and integrate them in a comprehensive Statewide Water Action Plan. Our recommended plan, submitted to the Governor for his consideration, provides context for a Delta solution and other critical actions as components of a broader set of strategies to address overall water supply reliability and ecosystem health in California.

When implemented together, this suite of statewide actions will serve as a sustainable path forward for California. Governor Brown's leadership and commitment will be central to the success of this action plan and to moving water policy forward in California.

Guiding Principles for Implementation of the Statewide Water Action Plan

1. **Long-term water supply reliability and improved ecosystem health** are the core objectives of this statewide water action plan. In the course of achieving them, however, we must ensure that one region's increased reliability does not adversely affect another's near- or long-term water supplies.
2. **A new regulatory approach** is essential to reflect today's realities and better serve the needs of California water users and the ecosystem. This is critical if we are to reduce scientific uncertainty and incorporate new understanding of operational and ecosystem dynamics. Under the current approach, regulatory agencies tend to focus only on their specific goals, resulting in duplicative and contradictory requirements that fail to deliver benefits to our water supply, water quality or ecosystem. To combat this, state agencies should commit to using collaborative processes as extensively and transparently as possible to achieve regulatory goals in a way that satisfies water supply, water quality, and ecosystem needs. This new approach should embrace enhanced sharing of data, consistent use of peer-reviewed science (including climate change models), coordinated review under the California Environmental Quality Act (CEQA), and improved integration and coordination of all related processes. This approach will help ensure continued ecosystem protections and increase the water community's confidence that regulatory investments will achieve benefits.
3. **The best available science** should be used to support every action, report or decision made as part of this Statewide Water Action Plan. The science should be inclusive, objective, transparent, and peer reviewed.
4. **Water rights and contract terms**, including area-of-origin protections, are foundational to our water system and should be respected and adhered to whenever projects and initiatives are implemented. State and federal facilities should be operated consistent with the conditions of water rights, contracts, and other entitlements.
5. **Bold actions guided by strong leadership** at the state, federal and local levels are essential for the successful implementation of this action plan. In particular, increased commitments by federal partners are needed to ensure the plan moves forward. The Department of Water Resources should provide leadership and support for these efforts from the department's highest level.
6. **Financing:** The state should fund investments that provide broad public benefits such as improved water supply reliability, water quality and ecosystem health. The state should also incentivize local projects that advance statewide water priorities and require public assistance to be cost effective.

Statewide Actions

To be most effective, the following suite of statewide actions should be implemented as a comprehensive package. Indeed, many elements — including a Delta conveyance solution — are much more likely to succeed if they are part of a broader action plan. Statewide support for the action plan is essential. Advancing all elements of the plan simultaneously will help secure and maintain that support and build a statewide coalition capable of achieving these ambitious goals.

1. Storage

California's water infrastructure has proven inadequate to meet the state's needs in a two-year drought, let alone a multi-year drought. This deficiency, coupled with the already measurable effects of climate change, makes construction of new storage facilities and expansion of existing storage imperative. A wide range of options should be on the table, including new surface water projects; re-operation and expansion/enlargement of existing storage projects; groundwater and conjunctive use; and development of other local and regional storage facilities. Additional storage will add flexibility to the water management system and help ensure a more reliable water supply to serve California's diverse needs, including drought resilience and ecosystem protection (e.g., improved temperatures and flows for fish).

Actions

- **Studies.** In coordination with DWR, the responsible state, federal or local water agency proponents of projects should complete storage studies by June 2014 and formally determine whether a particular project is environmentally and economically sound and will provide benefits for water supply and the ecosystem.
 - **Permitting.** Within six months of a local determination based on these studies, DWR and the California Department of Fish and Wildlife (CDF&W) should begin coordinating with local agencies to expedite permitting and CEQA compliance for new storage facilities. For storage projects found to have statewide benefit, DWR and CDF&W should take the lead in expediting the permitting process.
- The state also should coordinate with federal agencies as needed on permitting, the National Environmental Policy Act (NEPA), water rights issues and potentially construction.
- **Financing.** Under comprehensive water legislation enacted in 2009, the California Water Commission is tasked with defining and quantifying the public benefits of water storage projects eligible for funding with state dollars. By June 2014, local water agencies that would receive identifiable water supply benefits from water storage projects should provide a plan outlining their commitment and steps they will take to pay for those benefits. This Statewide Water Action Plan recommends that any water bond that moves forward in 2014 provide for continuous appropriation of funding for the public benefits of storage as outlined in the bond measure currently slated for the November 2014 ballot.
 - **Construction.** By January 2018, construction should commence for new groundwater and surface water storage projects with an initial target of 1.5 million acre-feet of new storage capacity, as documented in the 2000 CALFED Record of Decision.
 - **Local Construction.** As soon as practicable, construction of local facilities with a target of 1 million acre-feet should be completed.
 - **Reoperation.** DWR should complete its study of reservoir reoperation by June 2014, including reoperation of existing reservoirs and integration of new storage into system operations.

2. Water Use Efficiency

Water conservation and water use efficiency are central elements of the state's strategy to enhance water supply reliability, restore ecosystems and respond to climate change and a growing population. It should continue to be the state's policy to encourage investments in water conservation and water use efficiency by ensuring that the right to conserved water remains with the conserving entity. Local and regional water agencies have made significant multi-decade investments in water conservation and water use-efficiency activities and continue to do so under new state requirements

enacted in law. The state should acknowledge that local agencies are in the best position to determine compliance with these requirements and should respect local determinations as sufficient.

Actions

- The state should provide funding for water use efficiency activities in disadvantaged communities and support programs that are not locally cost effective but contribute broad benefits to California.
- DWR and local water agencies should coordinate with groundwater management agencies where applicable to enhance conjunctive use opportunities and minimize potential impacts on groundwater recharge that may result from water use efficiency and conservation efforts.

3. Water Supply Assurances

California law establishes a goal of improving water supply reliability throughout the state. Water supply reliability in regions that rely on water conveyed across the Delta is of obvious importance to the California economy. A BDCP is being developed in part to improve and protect water supply reliability for the agencies that will benefit from its completion. However, it is important that these improvements be accomplished in a manner consistent with this principle.

When the Central Valley Project (CVP) and the State Water Project (SWP) were built, assurances were incorporated in their authorizing statutes that water needed to meet present and future beneficial uses in the areas of origin (i.e., the Sacramento Valley, the east side of the San Joaquin Valley and the Delta) would be available to those areas when needed. All of California has benefited from these fundamental assurances. The state should commit to implementing an action plan that augments storage and modifies regulatory approaches to ensure that positive storage balances can be maintained at all times to provide for improved water supply reliability and ecosystem health and protection of the state's economy.

Actions

- As the state implements this plan, all relevant agencies should adhere to water rights protections in state law and comply with existing water rights and contractual requirements.
- The Administration should continue to affirm through its policies and actions that the

implementation of a BDCP will not adversely affect existing water rights of those in the watershed of the Delta, nor will it impose any obligations on area-of-origin water users, including in the Delta, to supplement flows in and through the Delta.

- Those seeking to secure permits for a BDCP will be responsible for meeting all applicable conditions in their BDCP permits, including any obligations in those permits for Delta flow, which as required by law must avoid redirected impacts to area-of-origin water users, including in the Delta, unless provided for in voluntary agreements or settlements.

4. Operational Assurances

Recent modeling indicates that, in the driest 10% of years, some major reservoirs will hit "dead pool," the condition in which water levels fall below a dam's lowest outlets and no operable storage exists to deliver water for supply, environmental, and power generation purposes. The ramifications of hitting dead pool at that frequency could be catastrophic for water users who rely on these facilities for a portion of their supply, for the environment, and particularly for affected water agencies that do not have another viable source of water supply for their customers.

Allowing reservoirs to reach dead pool is not sound policy and is at odds with overall efforts by the state and federal governments to address California's water supply reliability and ecosystem health. Adaptive strategies that address this issue are critical to ensure that the operational rules for California's water delivery system will provide the water supply assurances needed by water users throughout the state. It should be the policy of the state to adopt regulations, develop operating rules, or take other actions that will ensure that reservoirs are not drawn to dead pool conditions, even in multiple dry years.

Actions

- The Administration should develop a strategy in coordination with state agency leadership and federal agency partners by January 1, 2015, to ensure reservoirs are not driven to dead pool levels. This strategy should identify needed regulatory changes, infrastructure improvements including increased storage capacity, and changes in reservoir operations, as well as support for additional local resources development.

- Initial actions identified through this process that can be implemented prior to January 1, 2015, should be included as part of the report outlined in the Governmental Coordination section of this Statewide Water Action Plan.
- As part of this strategy, the Governor should direct state agencies to implement new and existing water management and water quality programs in a manner that will help ensure California's reservoirs do not reach dead pool conditions.

5. Improved Regional Self-Reliance

In addition to water use efficiency and water conservation, California's water agencies utilize a variety of methods to increase local water supplies and reliability for water users and the environment. The state should continue to support development of local and regional water resources that improve each region's water supply reliability and, where applicable, augment imported water supplies. This includes surface water diversions for in-basin uses, conjunctive use, stormwater capture, recycled water, desalination, and groundwater cleanup. Projects and programs that achieve multiple benefits should be a priority.

Actions

- Local agencies should improve self-reliance by planning and implementing projects consistent with decisions made by local and regional water agencies.
- DWR should consult with local and regional agencies to develop a statewide strategy to improve regional supplies, in accordance with the Sacramento-San Joaquin Delta Reform Act.
- The state should continue to support Integrated Regional Water Management Plan (IRWMP) efforts that successfully provide for regional and local needs.
- DWR should work with existing IRWMP programs and stakeholders to evaluate the state's Integrated Regional Water Management program and identify areas for improvement, including streamlining the application process, developing specific criteria to determine successful plan implementation, and reducing transaction costs. This effort should include ways to enhance the program's effectiveness in serving disadvantaged communities in IRWMP-eligible areas.

6. Headwaters

Because nearly all of the state's water supplies originate in California's headwaters, more effectively managing these areas is integral to optimizing the water supplies that nature provides. Adapting to climate change and improving watershed resiliency to reduce the likelihood of catastrophic wildfires and increase water yield and quality will require substantial investments by the state.

Actions

- State land and resource management agencies with jurisdiction in headwaters areas should draft a joint report to the Governor and the Legislature analyzing the impacts of climate change on headwaters. The report should identify the benefits that headwaters currently provide, identify models to assess the impacts of climate change on these resources and outline strategies to adapt to those impacts. The appropriate state agencies should invite their federal agency partners to participate in the development of the report.
- The Natural Resources Agency, in consultation with the Sierra Nevada Research Institute (UC Merced) and the U.S. Departments of Agriculture and the Interior, should provide a report to the Governor outlining and prioritizing investments that can be made on public lands to improve the condition and functions of California's headwaters to benefit water supply reliability for the state.
- Working with local agencies, the state should assess and support solutions for legacy issues affecting water quality and supply to improve the condition of affected watersheds.
- The state should seek to partner with the U.S. Forest Service in meadow restoration projects that can control excessive soil erosion and sediment delivery in California's watersheds to help maintain reservoir storage capacity, reduce flood risks and increase conjunctive use capability.

7. Water Quality

Protecting water quality is a critical aspect of water management in California. The state should continue to pursue actions to protect, maintain and enhance surface water and groundwater quality for all applicable beneficial uses, consistent with meeting all applicable standards, agreements and regulatory requirements.

Actions

- The Department of Public Health should fund the development and use of new analytical methods and cost-effective treatment technologies to better detect and remove chemical and microbial contaminants from drinking water supplies.
- The state should provide funding support for local water agencies to develop and implement salt and nutrient management plans that will reduce salinity in surface and groundwater supplies and provide enhanced conjunctive use opportunities.
- The State Water Resources Control Board and the Regional Boards should review and better match water quality standards to the locally appropriate and demonstrated use of the water. Water quality program expenditures should be focused where they will provide the greatest water quality benefits. Source water quality for municipal uses should continue to be protected.
- The state should continue to develop solutions for assisting disadvantaged communities that do not have safe drinking water.

8. Bay Delta Conservation Plan

A Delta solution, including a BDCP, is a critical component of a broader set of actions that will address water supply reliability and ecosystem health in California.

Actions

- Within the scope of existing regulatory statutes, all state agencies involved in developing a BDCP should exercise their discretion and authority to ensure the final project is consistent with the principles of this Statewide Water Action Plan.
- A Delta solution is expected to provide substantial public benefits, which will be funded from public sources including a revised 2014 water bond. The state should work with its federal partners to secure long-term, non-reimbursable federal funding to pay for the federal share of these public benefits.
- Any large construction project, including a BDCP, may have adverse impacts related to the project's "footprint." Where feasible, a BDCP should be designed to avoid or minimize adverse impacts in the first place. When adverse impacts cannot be avoided, the permittees of a BDCP should

mitigate project-related environmental impacts, including water supply impacts, in accordance with existing law.

- The permittees of a BDCP, including the Central Valley Project and State Water Project contractors, should work collaboratively with other water users in good faith on all statewide water issues to find mutually acceptable solutions on the broader statewide water issues.

9. Levee Improvement and Maintenance

Levees in the Delta and throughout California are key features of the state's water system and are subject to many risks, including those associated with earthquakes and floods. To protect against and prepare for future levee failures, the state should continue to support and prioritize the maintenance of levees in accordance with state law, including critical near-term actions and the Central Valley Flood Protection Plan.

Actions

- The Delta Stewardship Council should complete its prioritization plan by July 1, 2014.
- The state should continue to support DWR's Delta Levee Maintenance and Special Projects programs and provide support for local flood protection measures throughout the Central Valley by partnering with local agencies in projects that can incorporate public benefits.

10. Emergency Preparedness and Public Safety

Recent events in California and other states have demonstrated that water-related emergencies can have significant impacts and put public safety at risk. A robust emergency response plan is essential for minimizing disruption due to floods, earthquakes, wildfires, power outages or contamination of drinking water supplies. The state, working with federal partners, should continue efforts to improve response strategies to enhance public safety during these unforeseen events.

Actions

- DWR should implement pertinent recommendations of the Sacramento-San Joaquin Delta Multi-Hazard Coordination Task Force Report of 2012.

- To reduce the risk of catastrophic wildfires, the California Department of Forestry and Fire Protection (CAL FIRE) should review and, if necessary, revise relevant state regulations to better accommodate and effectuate the use of forest management tools such as forest thinning, biomass removal and controlled burns that reduce fuel loading.
- DWR should coordinate with the California Governor's Office of Emergency Services and the U.S. Army Corps of Engineers to ensure public safety in the Delta and upstream will not be compromised by actions that might otherwise degrade the performance of flood management facilities; create or redirect hydraulic impacts; or, interfere with or impede flood facility improvements, operations or maintenance.
- DWR should implement the pathway strategy adopted in its draft Delta Flood Emergency Preparedness and Response Plan and supported by the U.S. Army Corps of Engineers. This effort includes all measures to facilitate restoration of an emergency freshwater pathway to water export facilities in approximately six months.

11. Bay-Delta Water Quality Control Plan

Multiple regulatory agencies, including, but not limited to, the State Water Resources Control Board (State Water Board), National Oceanic and Atmospheric Administration (NOAA) Fisheries, U.S. Fish and Wildlife Service (USFWS), CDF&W, U.S. Environmental Protection Agency (USEPA), DWR, Army Corps of Engineers, and the Delta Stewardship Council are tasked with making decisions affecting California's water supplies. Continued coordination among these agencies is essential to avoid duplicative and possibly conflicting policies and regulations, and to make the most efficient use of the state's resources. Negotiated programs and planning efforts have been and likely will be the most effective tools to protect beneficial uses in the Bay-Delta. The State Water Board has the opportunity to lead this coordination through its review and update of the 2006 Water Quality Control Plan (Bay-Delta Plan). In its review of the Bay-Delta Plan, the State Water Board should:

Actions

- Encourage and facilitate negotiated programs, planning efforts and settlements that will implement flow and non-flow actions consistent

with the need to protect beneficial uses and public trust balancing.

- Require a tri-annual review of water quality objectives and implementation accountability through annual reports by local agencies, state offices, departments and boards with responsibility to implement the Bay-Delta Plan.

12. Water Bond

Significant investments in California's water infrastructure, water management improvements and ecosystem health are critically needed and long overdue.

Actions

- The water bond currently set for the November 2014 ballot should be modified, consistent with the ACWA Board of Directors' Water Bond Policy Principles, in early 2014 to ensure its placement on the November ballot. An appropriately crafted general obligation bond can fund broad public benefits associated with investments identified in this Statewide Water Action Plan. Priorities for funding should include new surface and groundwater storage; local and regional projects that support greater regional self-sufficiency; investments in Delta ecosystem restoration; safe drinking water projects and water quality improvements; water conservation and water use efficiency; and watershed management.

13. Groundwater Resources

Many regions of the state rely on groundwater for a significant portion of their water supply. In recent years, climate change, regulatory restrictions on surface water supplies, and increased demands have forced greater reliance on groundwater as a principal or supplemental supply for urban, agricultural and environmental uses. More sustainable management of groundwater is needed, but in order to succeed the state must invest in improvements to its water storage and Delta conveyance infrastructure to optimize both surface and groundwater supplies. Consistent with ACWA's strategic policy document, *Sustainability from the Ground Up: A Framework for Groundwater Management in California*, the state should support and incentivize effective local and regional groundwater management, resolve conflicting state regulatory requirements and streamline its policies to optimize and increase surface and groundwater storage opportunities.

Actions

- DWR should convene a multi-agency workgroup with participation by local groundwater agencies to coordinate, review and facilitate implementation of local and regional groundwater management performance objectives.
- Groundwater recharge, banking and conjunctive use projects are critical to the future sustainability of California's groundwater resources. DWR and State Water Board (and Regional Boards) should support and facilitate these activities when programs are implemented as part of an IRWMP or legally recognized groundwater management plan.
- DWR, in consultation with other agencies that gather data, should develop a single data portal on a publicly accessible website for groundwater quality information. DWR also should continue to expand the CASGEM database for groundwater quantity.
- The state, through the Regional Boards, should support and incentivize local agencies' efforts to develop long-term, sustainable solutions for cleanup of existing groundwater contamination and prevention of future contamination.

14. Water Transfers

Water transfers can provide much-needed flexibility in meeting water supply and environmental needs and have proven invaluable in dry years and droughts. A well-defined set of policies and procedures that provide certainty to transferring parties is essential to facilitate future transfers and promote local and statewide economic, social and environmental sustainability.

While federal and state laws promote transfers, DWR's current approval processes should be streamlined. These issues should be resolved as expeditiously as possible so water transfers can be implemented quickly — when they are needed — without adversely affecting third parties.

Actions

- DWR should convene stakeholder meetings, including with the U.S. Bureau of Reclamation, to identify and resolve, at a minimum, the following issues by December 1, 2013:

- Identify a process to expedite transfers within a region;
 - Assess the role of CEQA in water transfers,
 - Review DWR and Reclamation processes and criteria that are used to determine what water is transferable; and
 - Investigate and review contracting practices within Reclamation and DWR for approving agreements to use conveyance and storage facilities of the Central Valley Project and the State Water Project.
- DWR also should review the 2002 SWRCB report, *Water Transfers Issues in California*, for background and relevant recommendations to further facilitate water transfers.

15. Governmental Coordination

For this plan to be successful, improved coordination among state agencies and between the state and federal government will be critical.

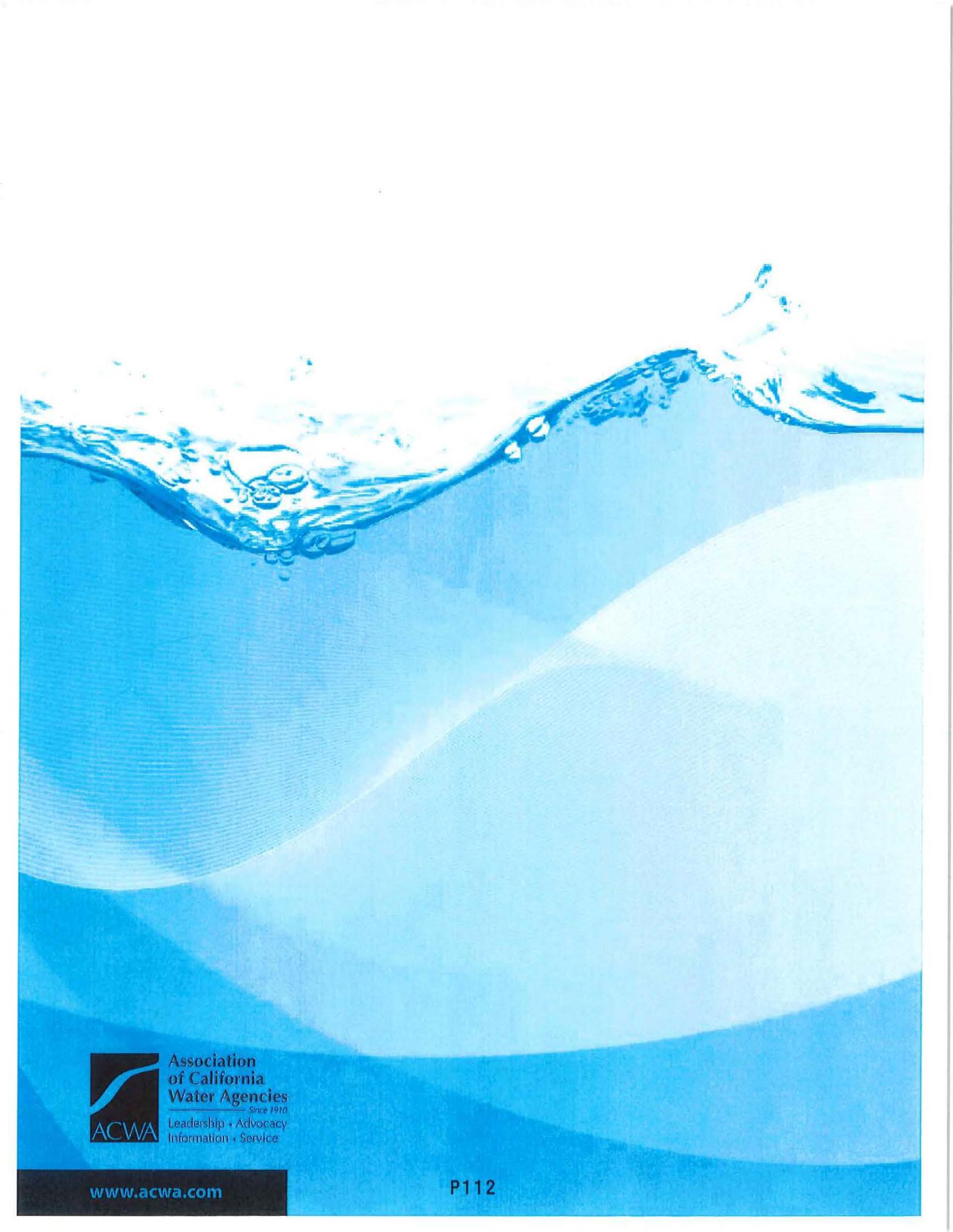
Actions

- The Governor and state agency leadership should follow up with their federal counterparts, including the President, to assess actions, policy direction and commitments in response to the memo from the President's Council on Environmental Quality (CEQ) to his cabinet directing that a BDCP be a priority for the Obama Administration. The state should further coordinate with federal agencies to advance other actions identified in the CEQ memo, including conservation and water use efficiency, enhancing water supplies and storage, and facilitating water transfers during times of shortage.
- The secretaries of the Natural Resources Agency, California Environmental Protection Agency and the Health and Human Services Agency, in coordination with their respective boards, departments, offices, councils, commissions and conservancies that have a role in implementation of this plan, should produce within 90 days of the Governor's approval of this plan a joint report that details how the agencies and entities they oversee will exercise their authorities to implement this plan in an expeditious and integrated manner.

Statewide Water Action Plan Participation



** Participation in plan development does not necessarily imply formal endorsement of final document.*



Association
of California
Water Agencies
Since 1910
Leadership • Advocacy
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DRAFT
WATERMASTER RESOLUTION
NO. 2013-08

**RESOLUTION OF THE CHINO BASIN WATERMASTER
IN SUPPORT OF THE ASSOCIATION OF CALIFORNIA WATER AGENCIES'
STATEWIDE WATER ACTION PLAN FOR CALIFORNIA**

1. **WHEREAS**, the Chino Basin Watermaster Board of Directors are active participants in the Association of California Water Agencies ("ACWA"); and
2. **WHEREAS**, a broad cross-section of water interests convened by ACWA has developed a Statewide Water Action Plan for California ("Plan") to address overall water supply reliability and ecosystem health in California; and
3. **WHEREAS**, the ACWA Board of Directors unanimously approved the Plan at its September 27, 2013 meeting, and directed that it be submitted to California Governor Jerry Brown as the water agency community's recommendations for developing the Administration's water plan; and
4. **WHEREAS**, ACWA's Plan outlines 15 actions to improve water supply reliability, protect water rights, protect the integrity of the state's water system and promote better stewardship; and
5. **WHEREAS**, the Plan also includes guiding principles for implementation to help ensure actions benefit the entire state, respect water rights and contract terms, and reflect a new regulatory approach that can better meet the needs of California water users and ecosystems; and
6. **WHEREAS**, the Plan provides context for a Delta solution and other critical actions as components of a broader set of strategies to secure California's water future; and
7. **WHEREAS**, when implemented together, the Plan's proposed suite of statewide actions will serve as a sustainable path forward for California in securing California's water future;

NOW, THEREFORE, BE IT HEREBY RESOLVED THAT THE CHINO BASIN WATERMASTER BOARD OF DIRECTORS:

1. Does hereby support ACWA's Statewide Water Action Plan for California and encourages its adoption as the basis for statewide action by Governor Brown.

Adopted and approved this ____th day of December, 2013.

By: _____
Chair, Watermaster Board

ATTEST:

Board Secretary
Chino Basin Watermaster

STATE OF CALIFORNIA)
) ss
COUNTY OF SAN BERNARDINO)

I, Peter Rogers, Secretary of the Chino Basin Watermaster, DO HEREBY CERTIFY that the foregoing Resolution being No. 2013-08, was adopted at a regular meeting of the Chino Basin Watermaster Board by the following vote:

AYES:

NOES:

ABSTAIN:

CHINO BASIN WATERMASTER

Watermaster Secretary

Date: _____



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

GENERAL MANAGER'S REPORT

DATE: December 19, 2013

SUBJECT: Request for Overlying (Non-Agricultural) Pool Available Water per Judgment Exhibit "G"

SUMMARY

Pursuant to Judgment Exhibit "G," by December 31st of each year, the Parties in the Overlying (Non-Agricultural) Pool (NAP) shall notify Watermaster of the amount of water each Party shall make available in their individual discretion for purchase by the Appropriators. By January 31st of each year, Watermaster shall provide a Notice of Availability of each Appropriator's pro-rata share of such water.

DISCUSSION

Judgment Exhibit "G" Paragraph 9(d) of the Peace II Agreement provides that Watermaster will purchase surplus water made available by the NAP water on behalf of the members of the Appropriative Pool, at a rate of 92% of the then-prevailing Metropolitan Water District of Southern California ("MWD") Replenishment Rate. According to Watermaster's past practices, the MWD Replenishment Rate utilized is that applicable for the calendar year in which Watermaster's purchase takes place.

MWD discontinued its replenishment rate prior to 2013. Accordingly, Watermaster and the Parties to the Judgment are left without a reference from which to calculate the rate for Physical Solution Transfers in Fiscal Year 2013/14. Watermaster, the NAP, and the Appropriative Pool have agreed that the temporary substitution of a rate of 82% of MWD's 2014 Tier 1 Untreated Rate, for the rate of 92% of its Replenishment Rate, for Physical Solution Transfers during Fiscal Year 2013/14 would be appropriate if MWD does not publish a 2014 Replenishment Rate.

On November 21, 2013, based on the approval of each of the Pool Committees, the Advisory Committee, and the Watermaster Board, Watermaster Legal Counsel moved the Court to approve the temporary rate substitution for 2014 Physical Solution Transfers. A hearing is scheduled for Friday, December 13, 2013 regarding this issue. The Court's approval of a substitute rate under Paragraph 9(d) of Exhibit "G" would temporarily allow transfers to proceed without further issue, allowing the parties to discuss a long-term solution once MWD's plans for a future replenishment program are made clear.

The 2014 MWD Tier 1 Untreated Rate is \$593 per acre-foot and, if the Court approves the use of this rate as a substitute for the MWD Replenishment Rate, the rate for 2014 Physical Solution Transfers will be \$486.26 per acre-foot.

Watermaster requests that any member of the NAP wishing to make water available for purchase by members of the Appropriative Pool in 2014 inform Watermaster (contact Peter Kavounas at pkavounas@cbwm.org) of the amount of water to be made available by December 31, 2013.

CHINO BASIN WATERMASTER

ADVISORY COMMITTEE

December 19, 2013

AGENDA

INTERAGENCY WATER MANAGER'S REPORT

Chino Basin Watermaster

9641 San Bernardino Road

Rancho Cucamonga, CA 91730

Discussion Items:

- MWD Update (oral)
- Integrated Resource Plan Update (oral)

Written Items:

- State and Federal Legislative Reports
- * Community Outreach/Public Relations Report

Date: December 18, 2013

To: The Honorable Board of Directors

Through: Public, Legislative Affairs, and Water Resources Committee (12/11/13)

From: P. Joseph Grindstaff
General Manager

Submitted by: Rebecca Long
Manager of External Affairs

Subject: Public Outreach and Communication

RECOMMENDATION

This is an informational item for the Board of Directors to receive and file.

BACKGROUND

December

- December 3-6, ACWA Fall Conference, JW Marriot LA Live (Los Angeles)
- December 12, MWD "Water is Life" Student Art Recognition Ceremony, MWD Headquarters, 10:00 a.m. – 1:00 p.m.
- December 13, Employee Association Holiday Dinner, CocoPalm Restaurant (1600 Fairplex Drive, Pomona), 7:00 p.m.
- December 18, IEUA Holiday Luncheon, Los Serranos Country Club (15656 Yorba Avenue, Chino Hills), 11:00 a.m. – 3:00 p.m.

April 2014

- April 16, Earth Day Event (Students Visiting), Chino Creek Wetlands and Educational Park, Time TBD
- April 17, Earth Day Event (Public), Chino Creek Wetlands and Educational Park, Time TBD

May 2014

- May 2-3, State Water Project Trip MWD (Director Camacho)

Outreach/Educational Inland Valley Daily Bulletin Newspaper Campaign

The monthly tips on ways to help conserve water continue to appear in our local newspapers each month.

Public Outreach and Communication

December 18, 2013

Page 2

- The So Cal WaterSmart Rebate ad ran on Saturday, November 16, 2013 in the Daily Bulletin.
- Water softener rebate ad ran on Wednesday, November 20, 2013 in the Daily Bulletin. The ad ran in the Foothills Reader along with an advertorial on Sunday, November 17, 2013.
- Water Smart Planting Tips ad ran on Saturday, November 23, 2013 in the Daily Bulletin. The tips and importance of being water smart ran in the Foothills Reader on Sunday, November 24, 2013.

Water Use Efficiency Outreach and Activities

Regional Conservation Outreach Campaign

- Ongoing monthly ¼-page ads in the Inland Valley Daily Bulletin, Champion Newspaper, Fontana Herald News and La Opinion.
- During the month of December, Staff will be convening the bi-monthly regional Water Use Efficiency Workgroup comprised of member agency staff to work on the development of the draft FY 2014-2015 water use efficiency budget.
- Staff will be working with the Agency's Grants Department to work on some project concepts for possible proposal submission to USBR's 2014 WaterSMART: Water and Energy Grant opportunity and USBR's Field Services Grant Opportunity.

Education and Outreach Updates

- The Water Education Water Awareness Committee (WEWAC) received over 25 EduGrant applications from educators and will be sending out acceptance notices in January 2014.

PRIOR BOARD ACTION

None.

IMPACT ON BUDGET

The above-mentioned activities are budgeted in the FY 2013/14 Administrative Service Fund, Public Information Services budget.

CALIFORNIA STRATEGIES, LLC

Date: November 25, 2013
To: Inland Empire Utilities Agency
From: John Withers, Jim Brulte
Re: November Activity Report

Listed below is the California Strategies, LLC monthly activity report. Please feel free to call us if you have any questions or would like to receive any more information on any of the items mentioned below.

- Scheduled and held meeting with General Manager and Director of External Affairs to review and discuss general issues of interest to the District, 11/18.
- Scheduled meeting with County of San Bernardino Legislative Director Otis Greer to discuss coordination of County and District legislative agendas, 12/3.
- We were asked and we did inform a number of key individuals of the appointment of the new board member and continued to provide information to key stakeholders on the recent process.
- We also discussed at the staff and board member level, the MSR process currently underway by the County of San Bernardino LAFCO and potential implications for IEUA
- We followed up on the first meeting related to the MSR and have provided staff our assessment of the ongoing process.
- Discussed with the General Manager issues related to provision of service to a large industrial project involving the County of San Bernardino and the City of Fontana
- We plan to attend the ACWA Conference in early December and will look for District opportunities

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Innovative Federal Strategies LLC

Comprehensive Government Relations

MEMORANDUM

To: Joe Grindstaff, Martha Davis and Rebecca Long, IEUA

From: Letitia White and Heather Hennessey

Date: November 25, 2013

Re: November Monthly Legislative Update

The 113th Congress continues to make a lot of noise but not make much progress. Last week's change of the Senate rules to decrease the number of votes needed to overcome a filibuster on executive appointments – the so called “nuclear option” – was in many ways merely a concession by Senate leadership that nothing was getting accomplished and that a change of the rules was the only way to break the logjam. So far, only 49 laws have been enacted this year, most of which have been noncontroversial measures to rename federal buildings or commemorate historic events. We remain hopeful that a Water Resources Development Act or Farm Bill conference report can be enacted by the end of the year, but it is looking increasingly likely that those items will slip into early 2014 despite the fact that the conference committees are ongoing.

Rumors Regarding a Budget Deal

The Budget Conference Committee was supposed to have been in the spotlight during November, but the group failed to produce much confidence as it constantly decreased expectations and engaged in protracted behind the scenes discussions. With the House and Senate scheduled to work at different times during December, negotiators have only a handful of days left before the December 13th deadline. You may recall that under the schedule agreed upon at the end of the government shutdown in mid-October, the Budget Conference is supposed to issue a report on December 13th, leaving Congress with one month to pass a bill before the expiration of the current funding extension on January 15th.

Thankfully, there are rumors circulating that a tentative outline for a budget agreement is taking shape. From what we now understand, this is a list of key provisions:

- Would establish a budget for two years, FY 2014 and FY 2015;
- Would include a total of \$85 billion of spending reductions, \$20 billion of which would go to deficit reduction (a point which is especially important to conservative House Republicans);
- Sequestration would not be completely eliminated but would be reduced by \$65 billion through a combination of spending reductions and increases in government fees;
- Any replacement for the sequester cuts would be split evenly between Defense and domestic federal spending;

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- For Fiscal Year 2014 Appropriations, this would equate to a top-line spending amount of \$1.01 trillion compared to the House target of \$967 billion and the Senate's \$1.048 trillion. In other words, it would be a very good middle-ground spending number;
- No entitlement program changes or tax code changes would be included;
- Revenue for the replaced sequester cuts would come from increased aviation industry fees, increased federal employee contributions to their retirement plans, a \$20 billion sale of wireless spectrum and the savings from ending Saturday postal deliveries.

The outline above is a very reasonable proposal which is giving rise to cautious optimism that a budget deal can be reached. The two year timeframe means that the deal would be a narrow one, but even a narrow agreement would give some relief to the constant spending fights that have defined the debate on Capitol Hill for the past few years. In the big picture, the thinking is that by the time the two year deal has run its course, the economy would show additional signs of improvement and the 2014 election cycle will be finished. Improved economic conditions and relief on the political front might make the next round of budget discussions less problematic.

One hidden bright spot in the list above is the fact that a top-line spending number for FY 2015 would be included in the deal. Doing so would be very helpful for Congressional appropriators. Fights over the top-line spending level for the current fiscal year have hobbled the process from day one, so removing that point of disagreement for next year will improve the prospects for future agreement. Appropriators from the House and Senate have been very vocal about the fact that failure for the Budget Conference equals failure for the appropriations process for FY 2014 (and is a very bad sign for FY 2015) because the sequester cuts would do further damage when they take effect as scheduled on January 15th.

But the optimism about a possible budget deal is very cautious, so much so that House Republicans are already working on a Plan B in case the Budget Conference is unable to produce a deal. As stated above, the current funding extension expires on January 15th. With Congress in recess from December 13th to January 7th, the short timetable could set up another flirtation with a government shutdown at the beginning of the year. To remove the shutdown threat and give negotiators more time to reach a deal, the House might work to pass another funding extension that would last until April 15th. If the House did so before recessing on December 13th, then the Senate would have time to pass it in early January if it were necessary to do so.

Meanwhile, there is almost no discussion of a debt ceiling extension being included in the Budget deal. As you may recall, the debt ceiling was extended through February 7th in the deal that ended the government shutdown. However, that date is a moving target due to changing economic conditions. The most recent estimates from the Treasury Department indicate that we may not need another debt limit increase until May or June of 2014. With the deadline moving further away, and with enough to tackle already in the budget deal, the debt limit fight will likely wait until next Spring.

Outlook for December

With very few working days scheduled for December, it is extremely unclear whether Congress will accomplish much of anything next month. It is far more clear what will not be accomplished -- tax reform efforts have stalled and immigration bills are not going to move

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forward in the House. The FY 2014 National Defense Authorization Act remains stuck in the Senate, but the Pentagon and the defense industry will continue to push for it to move forward if procedural and policy hurdles can be overcome. If the bill does not pass, it will be the first time in 52 years that the Defense Authorization bill has failed to be enacted, and an extension will be necessary to avoid interruption in military pay and ongoing projects.

November 25, 2013

To: Inland Empire Utilities Agency
From: Michael Boccadoro
President
RE: November Legislative Report

Overview:

With the Legislature out of session and all bills acted on by the Governor, November was a relatively quiet month in Sacramento. Discussions continue on the transfer of the drinking water program from the Department of Public Health to the State Water Resources Control Board. A public hearing on a draft plan is expected to be scheduled for mid January. The water bond continues to be a hot topic. With two bills to modify the bond left from last year, early discussion is set for when the members return in early January.

The Brown Administration focused on addressing California's big picture problems with the release of the draft California Water Action Plan, which provides a five-year plan for moving forward to address the state's complex and growing water management challenges. The plan is a clear signal that Governor Brown is committed to tackling the state's water issues in the near future.

With the federal government back to work, the Bay Delta Conservation Plan (BDCP) has begun to move forward again. The release of the Public Draft BDCP and EIR/EIS for public review is now scheduled for December 13.

The Cap and Trade Program administered by the California Air Resources Board (CARB) was officially upheld in court recently. While parties suggest that they will appeal the decision, CARB is confident that the decision will hold and the program will remain running.

The Association of California Water Agencies (ACWA) officially weighed in on the AB 32 Scoping Plan Update with comments submitted to CARB in early November. ACWA reacted to the Draft Plan's assertions that the state should have more control over groundwater regulations and local price structure.

California Public Utilities Commission (CPUC) staff released a Staff Proposal on implementing SB 1122, the 250 MW bioenergy procurement program passed by the Legislature in 2012. While the higher than expected starting price was well received, there are still some serious issues that need to be addressed before the program is officially implemented.

The CPUC has also started work with Cal-ISO on resource and reliability planning efforts. The efforts will focus on the changing production of energy with renewables flooding the market and gas-fired once-through cooling facilities being retired. Planning and outlook will be an important discussion as more renewables come onto the market.

Inland Empire Utilities Agency

Status Report – November 2013

Brown Administration Releases California Water Action Plan

Governor Brown's administration signaled its commitment to providing the state with a safe and reliable future water supply with the release of the draft California Water Action Plan, which provides a path forward for addressing the state's complex and growing water management challenges.

The draft action plan lays out a five-year plan for taking critical action toward meeting the state's water needs, as residents cope with the imminent challenges of climate change, drought and population growth among other issues. Rather than continuing the failed approach of piecemeal actions, the plan focuses on collaboration between state, federal and local governments, regional agencies, Native American tribes, the private sector and members of the public in implementing the current efforts underway throughout the state to secure California's water future.

Solutions focus on 10 key areas in need of immediate action:

- Conservation as a California Way of Life
- Increase Local and Regional Self-Reliance
- Achieve Co-Equal Goals for the Delta
- Protect and Restore Important Ecosystems
- Manage and Prepare for Dry Periods
- Expand Water Storage Capacity
- Provide Safe Drinking Water for All Communities
- Improve Flood Protection
- Increase Operational and Regulatory Efficiency
- Identify Sustainable and Integrated Financing Opportunities

The plan recognizes that there is no "silver bullet" solution to the state's water crisis and lays out a roadmap of integrated actions to be taken over the next five years that will move the state toward a sustainable future that includes more reliable water supplies, the restoration of important species and habitat and a more resilient, sustainably managed water system. A final plan is expected to be released in December, following comments by stakeholders. The administration is also rumored to be discussing how to best identify specific actions to implement the plan.

BDCP Update

The shutdown of the federal government in October delayed the development and review of the Bay Delta Conservation Plan (BDCP) by federal agencies and staff, ultimately leading to a delay in the release of the Public Draft BDCP and Environmental Impact Report/Environmental Impact Statement (EIR/EIS). The Public Draft BDCP and EIR/EIS are now scheduled for release on December 13. The formal review period will be open for 120 days.

Upon release of the Public Draft, a series of public meetings will be held during to provide information about the project and accept formal comments. Those meetings are expected to commence in January 2014.

AB 32/Cap and Trade Updates

Court Upholds Cap and Trade Program

A Sacramento Superior Court Judge recently upheld the California Air Resources Board's authority to create a market based compliance system to meet the goals outlined in AB 32. The California Chamber of Commerce and a group of manufactures had challenged the sale of allowances constitute an illegal tax under the California Constitution.

The decision notes that it was a "close question," but ultimately agreed that the "charges" collected from businesses under cap and trade are more like traditional regulatory fees than taxes. Parties have indicated that they will appeal the ruling.

ACWA Comments on the AB 32 Scoping Plan Update

As discussed last month, CARB has released a draft update to the AB 32 Scoping Plan and comments from parties were due in early November. ACWA submitted comments stating its concern about draft regulatory measures to address the water sector. ACWA takes issue with the plan's conclusion that the state will need to have a greater oversight role to improve assessments and sustainable management of groundwater. The plan recommends that the state develop and implement a groundwater management strategy that contributes to enhanced water quality and water supply reliability.

ACWA is also concerned with the draft plan's support for rate structures that promote water use efficiency. ACWA notes that water rate structures are adopted at the local level and reflect local water supply and demand situations and cautioned CARB about the need to maintain local control on rate setting issues.

ACWA also recommended that CARB address the administrative barriers and regulatory restrictions water agencies face when developing renewable energy projects.

SB 1122 Implementation Staff Proposal Released

California Public Utilities Commission (CPUC) staff have released the draft framework for implementing SB 1122 (Rubio), which created a 250 MW bioenergy procurement program. The proposal puts the new procurement program into the same Re-MAT pricing system, with separate categories for each of the three SB 1122 categories. Southern California Edison's allocations of the megawatts are proposed to be divided as follows:

- Category One: **55.5MW**- Biogas from wastewater treatment plants, municipal organic waste diversion, food manufacturing, and codigestion.
- Category Two: **56.5 MW**- Dairy and agriculture waste.
- Category Three: **2.5MW**- Forest Biomass.

The suggested starting price for SB 1122 categories in the Re-MAT program is \$124.66/MWh (\$0.125/Kwh), which is a good increase from the \$89/MWh starting price in the regular Re-MAT program. The price will adjust up or down in the same manner as the Re-MAT.

The Dolphin Group will work with the Bioenergy Association of California to draft comments on the staff proposal. We anticipate making comments that will increase SCE's MW allocation in Category One, the category that IEUA would likely participate in.

CPUC to Focus on New "Reliability Framework"

The California Public Utilities Commission (CPUC) recently voted to move forward with a plan to work with Cal-ISO on resource and reliability planning efforts as more renewable power comes onto the grid and gas-fired generation that uses once-through cooling is retired.

The CPUC and Cal-ISO will look into three initiatives, including: multi-year resource adequacy requirements; development of a long-term reliability planning assessment; and development of a market-based replacement to the ISO's existing backstop procurement tariff.

The goal of the initiatives is to improve the state's existing reliability framework's procurement process. The current reliability framework includes long term procurement planning, resource-adequacy, transmission planning and other initiatives.

Current plans call for the CPUC to open a proceeding in January.

Legislative Update

The Legislature is still out on recess, keeping activity in the Capitol to a minimum. Legislators will return on January 6th to start the second year of the two-year session. When they return, Legislators will work on the over 1,100 bills left over from last year, as well as introduce new legislation.

During the interim, discussions over the water bond and the transfer of the drinking water program to the State Water Resources Control Board have continued. On the water bond front, there are still two bills that will be active in January. AB 1331 (Rendon) and SB 42 (Wolk) both reduce the current water bond in preparation for the 2014 ballot. Senator Wolk has indicated that her intention is to quickly move her bill through committee and onto the Senate Floor upon the start of the session. Of particular concern in SB 42, is a provision that requires IRWMPs to show actual reduction on water imported from the Delta. "Reducing reliance on the Delta" is the common term in the entire 2009 water package. The Senator's more strict language is raising significant concern. Additionally, SB 42 contains language that could allow the Department of Water Resources to more strictly challenge IRWMPs.

Transferring the drinking water program from the Department of Public Health (DPH) to the State Water Resources Control Board (SWRCB) was hotly debated in the Legislature this year, with Assemblyman Henry Perea carrying AB 145. While the bill ultimately failed, the Governor strongly indicated that he would like to see the transfer happen. During the interim, a select set of stakeholders have been meeting to discuss the details. There have been eight taskforce meetings, with three remaining. The two big issues that remain on the table are how MCLs are going to be determined in the new structure and how funding for the transfer and ongoing implementation is going to work.

Once the taskforce is finished meeting, the Secretary of Cal EPA and the SWRCB will develop a transfer plan and will have a public hearing in mid January. Authorization of the transfer will likely come through a budget trailer bill and go into effect in July of 2014.

There is no bill update this month, because no action has been taken.

Agricultural Resources

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November 25, 2013

Legislative Report

TO: Joe Grindstaff
General Manager, Inland Empire Utility Agency

FR: David M. Weiman
Agricultural Resources
LEGISLATIVE REPRESENTATIVE, IEUA

SU: Legislative Report, November 2013

Congress, wounded and weary from the Federal Shutdown, is slowly (very slowly) beginning to return to business and a semblance of regular order. As November comes to a close, there are only eight days left in the First Session of Congress. The return to regular order is, at best, erratic. Members and Committees are hitting the “reset” button.

Legislation

- **Farm Bill.** The House and Senate Ag Committees finally appointed conferees and are now meeting in conference to reconcile the long-overdue farm bill. Progress is slow. Key issues, particularly concerning food stamp funding levels, are not yet resolved.
- **WRDA.** Senator Boxer’s Environment and Public Works Committee and the House Transportation and Infrastructure Committee are now conferencing on the WRDA bill. Staffs have been meeting for several weeks and Members just began to meet for the first time a week ago.
- **Immigration.** Renewed efforts are being made – on a bi-partisan basis – to restart consideration of the long-stalled immigration bill. Hasn’t happened yet, but indications are emerging that it might. House leaders continue to send mixed messages about the

fate of the bill. Meanwhile, public opinion is shifting – and is more receptive to immigration reform than ever before.

- **Affordable Care Act.** The Affordable Care Act has overwhelmed the national agenda as HHS scrambles to fix the web site. Implementation has gone through a meltdown and the web site is being rebuilt. This issue will continue to dominate Washington politics for 2014.
- **Tax Bill – House.** Ways and Means Chair, Rep. David Camp (R-MI), was all set to introduce his long-awaited tax bill. He pulled it. Delayed until the next session (after January). All of Washington was focused on his effort (and his anticipated roll out). IEUA and others throughout the water industry have been tracking the “Muni Bond” provision(s). It is widely speculated that, to get rates (corporate and individual) down to a targeted 25%, tax credits and other deductions will have to be repealed (or shaved). The implications for water industry private sector funding is significant.
- **Tax Bill – Senate.** All attention was focused on Camp and a House bill. A Senate bill was not expected to be unveiled until December or January. A day after Chairman Camp and the House pulled their bill back, Senate Finance Chair, Sen. Max Baucus, introduced a Senate bill (addresses international tax issues). A scramble was suddenly underway as attention shifted to the Senate.

Senate Rules

At the start of each Congress, after the election of officers, one of the very first orders of business is the adoption, in the respective bodies, of Rules that govern their respective institutions. It is unusual (if not rare) that rules are changed in the middle of a session.

It just happened.

Senate Majority Leader Harry Reid (D-NV) modified the “filibuster” rule in the US Senate. The rule was modified to eliminate the 60-vote threshold on a series of “advise and consent” Senate votes. Senate Republicans are very upset. Both Senate Ds and Rs are hurling angry statements at one another. Over the past three years, filibuster threats have been used on almost every pending bill and nomination. Few will dispute that it’s been overused. Many believe that Leader Reid’s hand was forced. Doesn’t matter. Senate Ds and Rs are in a greater state of conflict (and mistrust).

At the very time the Congress was putting itself back together, a new issue rips it apart. It’s too early to know or understand the implications, but the opportunity for further polarization is in place.

California – Driest Year on Record

Reports from the Weather Service (NOAA) confirm that California is on track to experience the driest calendar year – ever.

The Drought Monitor indicates drought conditions all over the Nation. California, however, has the worst (driest) profile in the country at this time.

Calvert Becomes Chair, House Interior Appropriations

Inland Empire's Rep. Ken Calvert was selected by the House Republican leadership and Chairman Hal Rogers (R-KY), House Appropriations Committee, to serve as Chair, House Subcommittee on Interior Appropriations. The death of former House Appropriations Chair, Congressman Bill Young (R-FL), set in motion multiple changes on the Committee that included funding subcommittees for Defense as well as Energy and Water Appropriations. Interior Appropriations includes funding responsibility for all Interior Department agencies – including BLM, BIA, NPS, USGA and others. All DOI agencies except the Bureau of Reclamation (that agency is funded by the Energy and Water Appropriations Subcommittee).

Budget Talks

Budget talks have been underway for weeks now. Both sides want an alternative to the Sequester. They remain underway and incomplete as this report is being prepared. On the 20th, media reports were “encouraging,” but not definitive.

Projections – Water and Dollars

The State released two projections – one on State finances (improving significantly). At the same time, DWR issued its initial projections for water from the State Water Project – a mere 5% (2013-2014 water year). Both were unexpected – unanticipated.

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CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2013

For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	11/04/2013	17330	ARROWHEAD MOUNTAIN SPRING WATER	0023230253	1012 · Bank of America Gen'l Ckg	
Bill	10/28/2013	0023230253		Office Water Bottle - October 2013	6031.7 · Other Office Supplies	57.85
TOTAL						57.85
Bill Pmt -Check	11/04/2013	17331	CHARLES Z. FEDAK & COMPANY		1012 · Bank of America Gen'l Ckg	
Bill	09/30/2013			Progress Billing - September 2013	6062 · Audit Services	800.00
TOTAL						800.00
Bill Pmt -Check	11/04/2013	17332	DGO AUTO DETAILING		1012 · Bank of America Gen'l Ckg	
Bill	10/28/2013			Wash 3 trucks on 10/09/13 & 4 trucks on 10/23/13	6177 · Vehicle Repairs & Maintenance	175.00
TOTAL						175.00
Bill Pmt -Check	11/04/2013	17333	DIRECTV	019447404	1012 · Bank of America Gen'l Ckg	
Bill	10/28/2013	019447404		Basic service for 10/19/13 -11/18/13	6031.7 · Other Office Supplies	94.99
TOTAL						94.99
Bill Pmt -Check	11/04/2013	17334	EUROFINS EATON ANALYTICAL		1012 · Bank of America Gen'l Ckg	
Bill	10/29/2013	L0139064		L0139064	7108.4 · Hydraulic Control-Lab Svcs	2,038.00
Bill	10/29/2013	L0139238		L0139238	7108.4 · Hydraulic Control-Lab Svcs	3,340.00
Bill	10/29/2013	L0139558		L0139558	7108.4 · Hydraulic Control-Lab Svcs	4,018.00
Bill	10/29/2013	L0140594		L0140594	7108.4 · Hydraulic Control-Lab Svcs	6,675.00
TOTAL						16,071.00
Bill Pmt -Check	11/04/2013	17335	FOREVER YOUNG PORTRAITURE	10172013	1012 · Bank of America Gen'l Ckg	
Bill	10/23/2013	10172013		10172013	6147 · Other Admin Expenses	150.00
TOTAL						150.00
Bill Pmt -Check	11/04/2013	17336	GRAINGER	9276639490	1012 · Bank of America Gen'l Ckg	
Bill	10/28/2013	9276639490		Disposable gloves	7103.6 · Grdwtr Qual-Supplies	124.21
TOTAL						124.21
Bill Pmt -Check	11/04/2013	17337	GUARANTEED JANITORIAL SERVICE, INC.	10-29905	1012 · Bank of America Gen'l Ckg	
Bill	10/28/2013	10-29905		October 2013	6024 · Building Repair & Maintenance	865.00
TOTAL						865.00
Bill Pmt -Check	11/04/2013	17338	INLAND EMPIRE UTILITIES AGENCY	90012950	1012 · Bank of America Gen'l Ckg	
Bill	10/29/2013	90012950		GW Recharge O&M FY 2013-2013 2nd Quarter	7206 · Comp Recharge-O&M	198,694.00
TOTAL						198,694.00

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Cash Disbursements For The Month of
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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	11/04/2013	17339	OFFICE TEAM	38979553	1012 - Bank of America Gen'l Ckg	
Bill	10/28/2013	38979553		Week ending 10/18/13	6017.1 - Executive Assistant Services	1,824.80
				Overtime week ending 10/18/13	6017.1 - Executive Assistant Services	68.43
TOTAL						1,893.23
Bill Pmt -Check	11/04/2013	17340	SANDERS, LAURA		1012 - Bank of America Gen'l Ckg	
Bill	10/28/2013			Transcript for 10/02/13 Court Hearing	6046 - Legal Publications/Services	252.00
TOTAL						252.00
Bill Pmt -Check	11/04/2013	17341	STATE COMPENSATION INSURANCE FUND	1970970-13	1012 - Bank of America Gen'l Ckg	
Bill	10/28/2013	1970970-13		Premium on account 10/26/13-11/26/13	60183 - Worker's Comp Insurance	786.42
TOTAL						786.42
Bill Pmt -Check	11/04/2013	17342	THE LAWTON GROUP	6017	1012 - Bank of America Gen'l Ckg	
Bill	10/28/2013	20578		Week ending 10/20/13	6017 - Temporary Services	824.00
Bill	10/28/2013	20555		Week ending 10/13/13	6017 - Temporary Services	659.20
TOTAL						1,483.20
P132 Bill Pmt -Check	11/04/2013	17343	VERIZON		1012 - Bank of America Gen'l Ckg	
Bill	10/28/2013	012561121521714508		012561121521714508	7405 - PE4-Other Expense	184.55
Bill	10/30/2013	012519116950792103		012519116950792103	6022 - Telephone	590.76
TOTAL						775.31
Bill Pmt -Check	11/04/2013	17344	VISION SERVICE PLAN	00-101789-0001	1012 - Bank of America Gen'l Ckg	
Bill	10/28/2013	0010178980001		Vision premium - November 2013	60182.2 - Dental & Vision Ins	87.57
TOTAL						87.57
Bill Pmt -Check	11/04/2013	17345	YUKON DISPOSAL SERVICE	08-K2 213849	1012 - Bank of America Gen'l Ckg	
Bill	10/29/2013	08-k2 213849		Service for November 2013	6024 - Building Repair & Maintenance	106.53
TOTAL						106.53
Bill Pmt -Check	11/05/2013	17346	APPLIED COMPUTER TECHNOLOGIES	2423	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2013	2423		Database consulting - October 2013	6052.2 - Applied Computer Technol	2,760.00
TOTAL						2,760.00
Bill Pmt -Check	11/05/2013	17347	CHEF DAVE'S CAFE & CATERING	1300	1012 - Bank of America Gen'l Ckg	
Bill	10/24/2013	1300		Lunch for 10/24/2013 Board Meeting	6312 - Meeting Expenses	431.90
TOTAL						431.90
Bill Pmt -Check	11/05/2013	17348	EUROFINS EATON ANALYTICAL		1012 - Bank of America Gen'l Ckg	

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Cash Disbursements For The Month of
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Type	Date	Num	Name	Memo	Account	Paid Amount	
Bill	10/24/2013	L0141636		L0141636	7108.4 · Hydraulic Control-Lab Svcs	2,102.00	
Bill	10/24/2013	L0141957		L0141957	7108.4 · Hydraulic Control-Lab Svcs	420.00	
TOTAL						2,522.00	
Bill Pmt -Check	11/05/2013	17349	GREAT AMERICA LEASING CORP.	14417221	1012 · Bank of America Gen'l Ckg		
Bill	10/31/2013	14417221		Damage - back panel	6043.2 · Ricoh Usage & Maintenance Fee	162.00	
				Usage for Black Copies	6043.2 · Ricoh Usage & Maintenance Fee	85.71	
				Usage for Color Copies	6043.2 · Ricoh Usage & Maintenance Fee	55.50	
TOTAL						303.21	
Bill Pmt -Check	11/05/2013	17350	HOGAN LOVELLS	2772965	1012 · Bank of America Gen'l Ckg		
Bill	10/31/2013	2772965		Non-Ag Legal Services - October 2013	8567 · Non-Ag Legal Service	2,218.74	
TOTAL						2,218.74	
Bill Pmt -Check	11/05/2013	17351	HSBC BUSINESS SOLUTIONS	7003-7309-1000-2744	1012 · Bank of America Gen'l Ckg		
Bill	10/31/2013	7003730910002744		Miscellaneous office supplies	6031.7 · Other Office Supplies	1,132.79	
TOTAL						1,132.79	
P133	Bill Pmt -Check	11/05/2013	17352	NORDBAK'S PROMOTIONAL PRODUCTS	1031136	1012 · Bank of America Gen'l Ckg	
TOTAL	Bill	10/31/2013	103113		Uniforms for B. McLaughlin	6154 · Uniforms	334.26
						334.26	
Bill Pmt -Check	11/05/2013	17353	PARK PLACE COMPUTER SOLUTIONS, INC.	479	1012 · Bank of America Gen'l Ckg		
Bill	10/31/2013	479		IT Consulting Services - October 2013	6052.1 · Park Place Comp Solutn	2,850.00	
TOTAL						2,850.00	
Bill Pmt -Check	11/05/2013	17354	STAPLES BUSINESS ADVANTAGE	8027477770	1012 · Bank of America Gen'l Ckg		
Bill	10/24/2013	8027477770		Miscellaneous office supplies	6031.7 · Other Office Supplies	77.51	
TOTAL						77.51	
Bill Pmt -Check	11/06/2013	17355	BOWCOCK, ROBERT		1012 · Bank of America Gen'l Ckg		
Bill	10/07/2013	10/07 Bd Officer Mtg		10/07/13 Board Officers and Chairs Meeting	6311 · Board Member Compensation	125.00	
Bill	10/24/2013	10/24 Board Mtg		10/24/13 Board Meeting	6311 · Board Member Compensation	125.00	
TOTAL						250.00	
Bill Pmt -Check	11/06/2013	17356	CRAIG, ROBERT		1012 · Bank of America Gen'l Ckg		
Bill	10/03/2013	10/03 Bus Plan Mtg		10/03/13 Business Plan Meeting	6311 · Board Member Compensation	125.00	
Bill	10/10/2013	10/10 App Pool Mtg		10/10/13 Appropriative Pool Meeting	6311 · Board Member Compensation	125.00	
Bill	10/17/2013	10/17 Advis Comm Mtg		10/17/13 Advisory Committee Meeting	6311 · Board Member Compensation	125.00	
Bill	10/24/2013	10/24 Board Mtg		10/24/13 Board Meeting	6311 · Board Member Compensation	125.00	

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Cash Disbursements For The Month of
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	<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
TOTAL							500.00
	Bill Pmt -Check	11/06/2013	17357	CURATALO, JAMES		1012 · Bank of America Gen'l Ckg	
	Bill	10/21/2013	10/21 Mtg w/GM		10/21/13 Meeting with GM	6311 · Board Member Compensation	125.00
	Bill	10/24/2013	10/24 Board Mtg		10/24/13 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL							250.00
	Bill Pmt -Check	11/06/2013	17358	DE BOOM, NATHAN	Ag Pool Member Meeting Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	10/10/2013	10/10 Ag Pool Mtg		10/10/13 Ag Pool Meeting	8411 · Compensation	25.00
					Ag Pool Member Meeting Compensation	8470 · Ag Meeting Attend -Special	100.00
TOTAL							125.00
	Bill Pmt -Check	11/06/2013	17359	DURRINGTON, GLEN	10/10/13 Ag Pool Meeting	1012 · Bank of America Gen'l Ckg	
	Bill	10/10/2013	10/10 Ag Pool Mtg		10/10/13 Ag Pool Meeting	8411 · Compensation	25.00
					10/10/13 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL							125.00
	Bill Pmt -Check	11/06/2013	17360	ELIE, STEVEN	10/24/13 Board Meeting	1012 · Bank of America Gen'l Ckg	
	Bill	10/24/2013	10/24 Board Mtg		10/24/13 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL							125.00
	Bill Pmt -Check	11/06/2013	17361	FEENSTRA, BOB		1012 · Bank of America Gen'l Ckg	
	Bill	10/07/2013	10/07 Pool Chairs Mtg		10/07/13 Board and Pool Chairs Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	10/10/2013	10/10 Ag Pool Mtg		10/10/13 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	10/14/2013	10/14 Chair/Counsel		10/14/13 Ag Pool Chair and Counsel Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	10/24/2013	10/24 Board Meeting		10/24/13 Board Meeting - alternate for Paul Hofer	6311 · Board Member Compensation	125.00
TOTAL							500.00
	Bill Pmt -Check	11/06/2013	17362	HALL, PETE*		1012 · Bank of America Gen'l Ckg	
	Bill	10/10/2013	10/10 Ag Pool Mtg		10/10/13 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	10/17/2013	10/17 Advisory Comm		10/17/13 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	10/17/2013	10/17 LSC Mtg		10/17/13 Land Subsidence Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
	Bill	10/24/2013	10/24 Board Mtg		10/24/13 Board Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL							500.00
	Bill Pmt -Check	11/06/2013	17363	HUITSING, JOHN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	10/10/2013	10/10 Ag Pool Mtg		10/10/13 Ag Pool Meeting	8411 · Compensation	25.00
					Ag Pool Member Compensation	8470 · Ag Meeting Attend -Special	100.00
TOTAL							125.00

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	11/06/2013	17364	KAVOUNAS, PETER	Travel Expense Reimbursement	1012 · Bank of America Gen'l Ckg	
Bill	10/08/2013			Travel expense reimbursement	6171.1 · GM - Reimbursement	25.00
TOTAL						25.00
Bill Pmt -Check	11/06/2013	17365	KOOPMAN, GENE	Ag Pool Member Meeting Compensation	1012 · Bank of America Gen'l Ckg	
Bill	10/10/2013	10/10 Ag Pool Mtg		10/10/13 Ag Pool Meeting	8411 · Compensation	25.00
				Ag Pool Member Meeting Compensation	8470 · Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	11/06/2013	17366	KUHN, BOB		1012 · Bank of America Gen'l Ckg	
Bill	10/07/2013	10/17 Bd Officer Mtg		10/07/13 Board Officer Meeting	6311 · Board Member Compensation	125.00
Bill	10/17/2013	10/17 Advis Comm Mtg		10/17/13 Advisory Committee Meeting	6311 · Board Member Compensation	125.00
Bill	10/21/2013	10/21 Mtg w/GM		10/21/13 Meeting with GM	6311 · Board Member Compensation	125.00
Bill	10/24/2013	10/24 Board Mtg		10/24/13 Board Meeting	6311 · Board Member Compensation	125.00
Bill	10/30/2013	10/30 Ass Pkg Wkshop		10/30/13 Assessment Package Workshop	6311 · Board Member Compensation	125.00
TOTAL						625.00
Bill Pmt -Check	11/06/2013	17367	OFFICE TEAM	39035064	1012 · Bank of America Gen'l Ckg	
Bill	10/31/2013	39035064		Week ending 10/25/13	6017.1 · Executive Assistant Services	1,779.18
				Overtime week ending 10/25/13	6017.1 · Executive Assistant Services	68.43
TOTAL						1,847.61
Bill Pmt -Check	11/06/2013	17368	PAYCHEX	2013103100	1012 · Bank of America Gen'l Ckg	
Bill	10/31/2013	2013103100		October 2013	6012 · Payroll Services	372.78
TOTAL						372.78
Bill Pmt -Check	11/06/2013	17369	PIERSON, JEFFREY		1012 · Bank of America Gen'l Ckg	
Bill	10/10/2013	10/10 Ag Pool Mtg		10/10/13 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/17/2013	10/17 Advis Comm Mtg		10/17/13 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/24/2013	10/24 Board Mtg		10/24/13 Board Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						375.00
Bill Pmt -Check	11/06/2013	17370	ROGERS, PETER		1012 · Bank of America Gen'l Ckg	
Bill	10/07/2013	10/07 Bd Officers Mtg		10/07/13 Board Officers Meeting	6311 · Board Member Compensation	125.00
Bill	10/24/2013	10/24 Board Mtg		10/24/13 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	11/06/2013	17371	TELECOM SERVICES	5820	1012 · Bank of America Gen'l Ckg	
Bill	10/31/2013	5820		To repair line # 5 problem with Verizon	6022 · Telephone	110.00
TOTAL						110.00

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	11/06/2013	17372	THE LAWTON GROUP	6017	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2013	20598		Week ending 10/27/13	6017 - Temporary Services	659.20
TOTAL						659.20
Bill Pmt -Check	11/06/2013	17373	VANDEN HEUVEL, GEOFFREY	6311	1012 - Bank of America Gen'l Ckg	
Bill	10/24/2013	10/24 Board Mtg		10/24/13 Board Meeting	6311 - Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	11/06/2013	17374	VANDEN HEUVEL, ROB	Ag Pool Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	10/10/2013	10/10 Ag Pool Mtg		10/10/13 Advisory Committee Meeting	8411 - Compensation	25.00
				Ag Pool Member Compensation	8470 - Ag Meeting Attend -Special	100.00
TOTAL						125.00
Bill Pmt -Check	11/07/2013	17375	KAVOUNAS, PETER	VOID: Travel Expense Reimbursement	1012 - Bank of America Gen'l Ckg	0.00
General Journal	11/09/2013	11/09/2013	Payroll and Taxes for 10/27/13-11/09/13	Payroll and Taxes for 10/27/13-11/09/13	1012 - Bank of America Gen'l Ckg	
				Direct Deposits for 10/27/13-11/09/13	1012 - Bank of America Gen'l Ckg	19,252.54
				Garnishment for 10/27/13-11/09/13	1012 - Bank of America Gen'l Ckg	125.76
				Payroll Taxes for 10/27/13-11/09/13	1012 - Bank of America Gen'l Ckg	7,119.83
				Payroll Checks for 10/27/13-11/09/13	1014 - Bank of America P/R Ckg	1,028.85
			ICMA-RC	457 Employee deductions for 10/27/13-11/09/13	1012 - Bank of America Gen'l Ckg	3,127.22
			ICMA-RC	401(a) Employee deductions for 10/27/13-11/09/13	1012 - Bank of America Gen'l Ckg	923.03
TOTAL						31,577.23
Bill Pmt -Check	11/12/2013	17376	ZANGWILL, BRADLEY		1012 - Bank of America Gen'l Ckg	
Bill	10/31/2013			Holiday card pictures	6147 - Other Admin Expenses	150.00
TOTAL						150.00
Bill Pmt -Check	11/14/2013	17377	ACWA JOINT POWERS INSURANCE AUTHORITY	A000232800	1012 - Bank of America Gen'l Ckg	
Bill	11/09/2013	A000232800		Prepayment - December	1409 - Prepaid Life, BAD&D & LTD	126.76
				November 2013	60191 - Life & Disab.Ins Benefits	105.68
TOTAL						232.44
Bill Pmt -Check	11/14/2013	17378	CORELOGIC INFORMATION SOLUTIONS	21012668	1012 - Bank of America Gen'l Ckg	
Bill	10/31/2013	81012668		21012668	7103.7 - Grdwtr Qual-Computer Svc	62.50
				21012668	7101.4 - Prod Monitor-Computer	62.50
TOTAL						125.00
Bill Pmt -Check	11/14/2013	17379	MATHIS CONSULTING GROUP	15910	1012 - Bank of America Gen'l Ckg	

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

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	11/06/2013	15910		DISC Profile for Kavounas and Truong	6013 · Human Resources Services	240.00
TOTAL						240.00
Bill Pmt -Check	11/14/2013	17380	PREMIERE GLOBAL SERVICES	14864726	1012 · Bank of America Gen'l Ckg	
Bill	10/31/2013	14864726		Ag pool agenda call on 10/01	8412 · Meeting Expenses	14.50
				Non-Ag pool agenda call on 10/01	8512 · Meeting Expense	14.51
				Appropriative pool agenda call on 10/01	8312 · Meeting Expenses	14.51
				Safe Yield Recalculation calls on 10/07 & 10/25	6909.1 · OBMP Meetings	56.34
				Non-Ag pool meeting call on 10/10	8512 · Meeting Expense	18.38
				Call on 10/17 re City of Fontana motion	6909.1 · OBMP Meetings	27.35
				Call with Rossi at WMWD on 10/21	6909.1 · OBMP Meetings	23.81
				Monthly fees and conferencing software testing	6022 · Telephone	183.45
TOTAL						352.85
Bill Pmt -Check	11/14/2013	17381	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	10/26/2013	10/26/2013	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 10/13/13-10/26/13	2000 · Accounts Payable	6,802.37
TOTAL						6,802.37
P137 Bill Pmt -Check	11/14/2013	17382	THE LAWTON GROUP	6017	1012 · Bank of America Gen'l Ckg	
Bill	11/13/2013	20629		Week ending 11/03/13	6017 · Temporary Services	824.00
TOTAL						824.00
Bill Pmt -Check	11/14/2013	17383	UNION 76	300-732-989	1012 · Bank of America Gen'l Ckg	
Bill	10/31/2013	300732989		Fuel - October 2013	6175 · Vehicle Fuel	340.22
TOTAL						340.22
Bill Pmt -Check	11/14/2013	17384	UNITED HEALTHCARE	0033140691	1012 · Bank of America Gen'l Ckg	
Bill	11/09/2013	0033140691		Dental premium - December 2013	60182.2 · Dental & Vision Ins	588.27
TOTAL						588.27
Bill Pmt -Check	11/14/2013	17385	WESTERN DENTAL SERVICES, INC.	11882	1012 · Bank of America Gen'l Ckg	
Bill	11/13/2013	11882		Dental premium - November 2013	60182.2 · Dental & Vision Ins	30.00
TOTAL						30.00
Bill Pmt -Check	11/14/2013	17386	OFFICE TEAM	39083426	1012 · Bank of America Gen'l Ckg	
Bill	11/13/2013	39083426		Week ending 11/01/13	6017.1 · Executive Assistant Services	1,824.80
TOTAL						1,824.80
Bill Pmt -Check	11/21/2013	17387	ACWA	643	1012 · Bank of America Gen'l Ckg	
Bill	11/05/2013	643		2014 Agency Dues	1433 · Prepaid Membership Dues	14,370.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
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	Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL							14,370.00
	Bill Pmt -Check	11/21/2013	17388	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
	Bill	10/31/2013	XXXX-XXXX-XXXX-9341		Expedited combination for safe in Executive Office	6031.7 · Other Office Supplies	32.40
					Notary for paperwork to obtain combination 4 safe	6031.7 · Other Office Supplies	10.00
					Acrylic nameplate holders for Boardroom	6031.7 · Other Office Supplies	28.07
					Acrylic double-sided window display for Boardroom	6031.7 · Other Office Supplies	86.38
					Meals for 2013 CalPERS Educational Forum	6192 · Training & Seminars	22.00
					Meals for 2013 CalPERS Educational Forum	6192 · Training & Seminars	39.58
					Meals for 2013 CalPERS Educational Forum	6192 · Training & Seminars	11.83
					Hotel for 2013 CalPERS Educational Forum	6192 · Training & Seminars	632.12
					Replacement chairs for office staff	6031.7 · Other Office Supplies	259.19
					Lunch for Safe Yield Recalculation Meeting	6909.1 · OBMP Meetings	56.97
					Rental car for GRA Bi-Annual Meeting	6191 · Conferences - General	112.77
					Gas for rental car for GRA Bi-Annual Meeting	6191 · Conferences - General	13.38
					Valet for airport for GRA Bi-Annual Meeting	6191 · Conferences - General	46.00
					Hotel for GRA Bi-Annual Meeting	6191 · Conferences - General	227.30
					Hotel for GRA Conference	6191 · Conferences - General	239.94
					Airfare for GRA Bi-Annual Meeting	6191 · Conferences - General	199.80
					Airfare for GRA Bi-Annual Meeting	6191 · Conferences - General	25.00
					PK meeting w/Ag Pool Chair and counsel	8412 · Meeting Expenses	79.44
					PK meeting w/WMWD - John Rossi	8312 · Meeting Expenses	27.84
					Gas for rental car for GRA Conference	6191 · Conferences - General	14.08
					PK meeting w/Bill Mathis	6013 · Human Resources Services	32.94
TOTAL							2,197.03
	Bill Pmt -Check	11/21/2013	17389	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
	Bill	11/18/2013	1394905143		Medical premium - December 2013	60182.1 · Medical Insurance	5,581.56
TOTAL							5,581.56
	Bill Pmt -Check	11/21/2013	17390	CUCAMONGA VALLEY WATER DISTRICT	Lease due December 1, 2013	1012 · Bank of America Gen'l Ckg	
	Bill	11/18/2013			Lease due December 1, 2013	1422 · Prepaid Rent	6,160.00
TOTAL							6,160.00
	Bill Pmt -Check	11/21/2013	17391	EGOSCUE LAW GROUP	10489	1012 · Bank of America Gen'l Ckg	
	Bill	10/31/2013	10489		Ag Pool Legal Services - October 2013	8467 · Ag Legal & Technical Services	8,250.00
TOTAL							8,250.00
	Bill Pmt -Check	11/21/2013	17392	GEOSCIENCE SUPPORT SERVICES, INC.	4555-11-14	1012 · Bank of America Gen'l Ckg	
	Bill	10/31/2013	4555-11-14		October 2013	7107.61 · Grd Level-Chino Hills ASR	6,175.00

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Cash Disbursements For The Month of
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For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						6,175.00
Bill Pmt -Check	11/21/2013	17393	GRAINGER		1012 - Bank of America Gen'l Ckg	
Bill	11/18/2013	9292486728		YSI Cal Solution	7103.6 - Grdwtr Qual-Supplies	189.45
Bill	11/18/2013	9294754768		Hose bibb	7103.6 - Grdwtr Qual-Supplies	58.19
TOTAL						247.64
Bill Pmt -Check	11/21/2013	17394	KAVOUNAS, PETER	Travel Expense Reimbursement	1012 - Bank of America Gen'l Ckg	
Bill	11/18/2013			Travel expense reimbursement	6171.1 - GM - Reimbursement	46.57
TOTAL						46.57
Bill Pmt -Check	11/21/2013	17395	LEGAL SHIELD	111802	1012 - Bank of America Gen'l Ckg	
Bill	11/18/2013	0111802		Employee deductions - November 2013	60194 - Other Employee Insurance	51.80
TOTAL						51.80
Bill Pmt -Check	11/21/2013	17396	OFFICE TEAM	39132334	1012 - Bank of America Gen'l Ckg	
Bill	11/08/2013	39132334		Week ending 11/08/13	6017.1 - Executive Assistant Services	1,824.80
TOTAL						1,824.80
Bill Pmt -Check	11/21/2013	17397	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 - Bank of America Gen'l Ckg	
General Journal	11/09/2013	11/09/2013	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 10/27/13-11/09/13	2000 - Accounts Payable	6,802.37
TOTAL						6,802.37
Bill Pmt -Check	11/21/2013	17398	R&D PEST SERVICES	0171746	1012 - Bank of America Gen'l Ckg	
Bill	11/18/2013	0171746		Continuing treatment for ants	6024 - Building Repair & Maintenance	85.00
TOTAL						85.00
Bill Pmt -Check	11/21/2013	17399	SAN BERNARDINO COUNTY FLOOD CONTROL	P-198284	1012 - Bank of America Gen'l Ckg	
Bill	11/18/2013	P-198284		Annual Inspection Fee for San Sevaine Channel	6909.3 - Other OBMP Expenses	1,900.00
TOTAL						1,900.00
Bill Pmt -Check	11/21/2013	17400	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 - Bank of America Gen'l Ckg	
Bill	11/18/2013			Policy # 00-649299-0009	60191 - Life & Disab.ins Benefits	482.28
TOTAL						482.28
Bill Pmt -Check	11/21/2013	17401	STAPLES BUSINESS ADVANTAGE	8027558788	1012 - Bank of America Gen'l Ckg	
Bill	11/02/2013	8027558788		Back rests, file jackets, 11x17 paper	6031.7 - Other Office Supplies 6031.1 - Copy Paper	44.50 122.30
TOTAL						166.80

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

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	11/21/2013	17402	STATE WATER RESOURCES CONTROL BOARD DIV		1012 · Bank of America Gen'l Ckg	
Bill	11/08/2013	094-014940		Water Rights Fee A028473	7205 · Comp Recharge-Other Expense	944.47
Bill	11/08/2013	094-014939		Water Rights Fee A028996	7205 · Comp Recharge-Other Expense	1,580.47
Bill	11/08/2013	094-14458		Water Rights Fee A031369	7205 · Comp Recharge-Other Expense	3,779.97
TOTAL						6,304.91
Bill Pmt -Check	11/21/2013	17403	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
Bill	11/30/2013			Nov. 2013	60182.4 · Retiree Medical	29.19
TOTAL						29.19
Bill Pmt -Check	11/21/2013	17404	THE LAWTON GROUP	6017	1012 · Bank of America Gen'l Ckg	
Bill	11/10/2013	20652		Week ending 11/10/13	6017 · Temporary Services	824.00
TOTAL						824.00
Bill Pmt -Check	11/21/2013	17405	VERIZON WIRELESS	9714387968	1012 · Bank of America Gen'l Ckg	
Bill	11/18/2013	9714387968		Monthly service	6022 · Telephone	391.38
TOTAL						391.38
P140	Bill Pmt -Check	11/21/2013	17406	WILDERMUTH ENVIRONMENTAL INC	1012 · Bank of America Gen'l Ckg	
	Bill	10/31/2013	2013318	2013318	6906 · OBMP Engineering Services	116.25
	Bill	10/31/2013	2013319	2013319	6906.73 · OBMP - Safe Yield	7,696.78
				2013319	6906.71 · OBMP - Misc. GM Requests	4,942.65
				2013319	6906.72 · OBMP - Data Requests-Non CBWM	600.00
Bill	10/31/2013	2013320		2013320	6906.72 · OBMP - Data Requests-Non CBWM	2,578.75
Bill	10/31/2013	2013321		2013321	6906 · OBMP Engineering Services	1,257.50
Bill	10/31/2013	2013322		2013322	6906.1 · OBMP - Watermaster Model Update	270.00
Bill	10/31/2013	2013323		2013323	7103.3 · Grdwtr Qual-Engineering	8,027.50
Bill	10/31/2013	2013324		2013324	7104.3 · Grdwtr Level-Engineering	11,416.77
Bill	10/31/2013	2013325		2013325	7107.61 · Grd Level-Chino Hills ASR	924.00
Bill	10/31/2013	2013326		2013326	7107.2 · Grd Level-Engineering	82.50
Bill	10/31/2013	2013327		2013327	7107.2 · Grd Level-Engineering	1,960.80
Bill	10/31/2013	2013328		2013328	7108.3 · Hydraulic Control-Engineering	1,227.99
Bill	10/31/2013	2013329		2013329	7108.3 · Hydraulic Control-Engineering	3,620.59
Bill	10/31/2013	2013330		2013330	7108.7 · Hydraulic Control - Prado Basin	1,291.25
Bill	10/31/2013	2013331		2013331	7202.3 · Comp Recharge-Implementation	2,460.00
Bill	10/31/2013	2013332		2013332	7402 · PE4-Engineering	7,626.97
Bill	10/31/2013	2013333		2013333	7502 · PE6&7-Engineering	387.50
Bill	10/31/2013	2013334		2013334	7108.7 · Hydraulic Control - Prado Basin	4,895.25
TOTAL						61,383.05

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
November 2013

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Type	Date	Num	Name	Memo	Account	Paid Amount
General Journal	11/23/2013	11/23/2013	Payroll and Taxes for 11/10/13-11/23/13	Payroll and Taxes for 11/10/13-11/23/13	1012 - Bank of America Gen'l Ckg	
				Direct Deposits for 11/10/13-11/23/13	1012 - Bank of America Gen'l Ckg	28,925.72
				Garnishment for 11/10/13-11/23/13	1012 - Bank of America Gen'l Ckg	125.76
				Payroll Taxes for 11/10/13-11/23/13	1012 - Bank of America Gen'l Ckg	8,996.12
				Payroll Checks for 11/10/13-11/23/13	1014 - Bank of America P/R Ckg	1,046.48
			ICMA-RC	457 Employee deduction for 11/10/13-11/23/13	1012 - Bank of America Gen'l Ckg	3,677.22
			ICMA-RC	401(a) Employee deduction for 11/10/13-11/23/13	1012 - Bank of America Gen'l Ckg	1,355.92
Total Disbursements:						44,127.22
Total Disbursements:						452,674.09

TOTAL

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WINEVILLE BASIN PROOF OF CONCEPT PROJECT
Status Update: December 9, 2013

The Wineville Basin Proof of Concept (POC) is an investigative project that consists of six cells designed to test and evaluate percolation rates at strategic locations throughout the basin. Each of the test cells will be 0.5 acres in size. The test cells will be excavated at different depths to allow the project to gather percolation data for soils above and below the previously identified clay layer. After completion of the testing, a final project report will be developed.

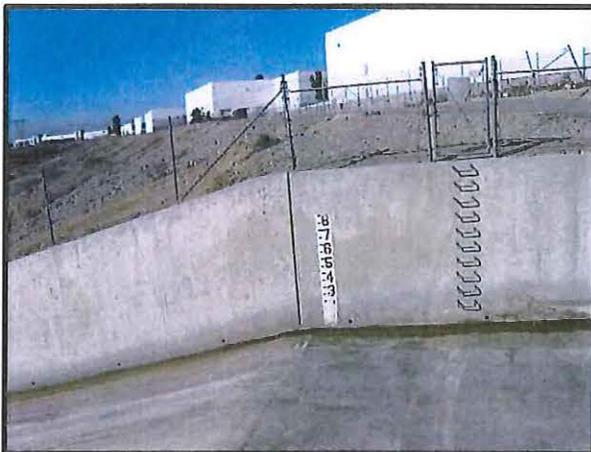
Status Update:

Construction was complete September 30, 2013 and testing commenced on October 1, 2013. Testing was conducted for two months and ended on November 25, 2013. The data is currently being processed and will be presented at a later date. The Contractor was scheduled onsite December 2, 2013 to restore site back to original condition. The restoration process is complete. A final aerial survey will be completed for ACOE permit compliance.

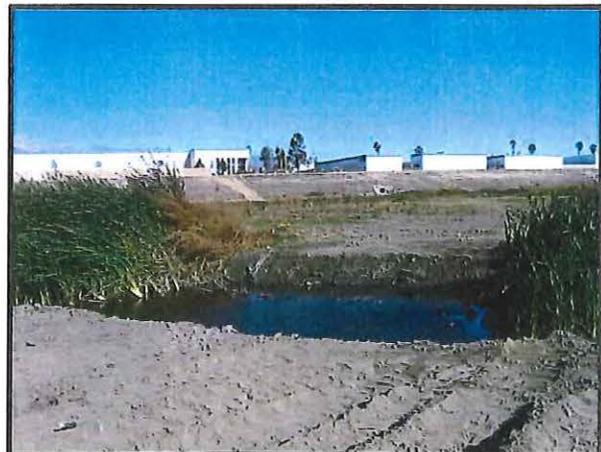
<u>Schedule Activity:</u>	<u>Finish Date</u>	<u>Notes</u>
- Testing	11/26/13	Complete
- Remove Pipe	11/27/13	Complete
- Survey Cells	12/02/13	Complete
- Restore Site	12/06/13	Complete
- Survey Site	12/25/13	Pending – Permit Requirement
- Submit ACOE Rpt	01/10/14	Permit Requirement
- Final Report	01/30/14	Not Started

Project Budget and Schedule:

No changes to project budget or schedule. The projected project cost is \$424,300, original project cost was amended October 24, 2013 to include an additional 30 days of testing. Refer to Table 1 for the project cost summary.



Berm removed and channel cleaned
(12/03/13)



Access roads removed and basin restored
to original (12/03/13)

Cost Breakdown (Table 1):

Project Budget
\$358,300 – \$424,300

Actual Cost to Date
\$215,000

Phase	Start	Finish	Status	Initial Budget	Projected Cost	Actual Cost to Date	Note
Design	10/2012	01/2013	In Progress	\$20,000	\$22,000	\$10,365	1
Weeding	09/2013	09/2013	Complete	\$0	\$28,000	\$28,000	2
Permits	03/2013	06/2013	Complete	\$2,200	\$2,200	\$2,200	
Environmental Assistance	03/2013	11/2013	In Progress	\$5,000	\$22,600	\$18,800	3
Survey	09/2013	11/2013	In Progress	\$6,000	\$21,000	\$11,767	4
Construction	09/2013	11/2013	In Progress	\$150,000	\$183,000	\$116,480	5
Extra Equipment			Complete	\$0	\$7,500	\$7,500	6
Construction Contingency				\$30,000	\$0		
Ontario Pumping Costs	10/2013	11/2013	In Progress	\$50,000	\$36,000	\$15,000	7
CM and Testing Support	09/2013	11/2013	In Progress	\$30,000	\$36,000	\$16,345	
Project Contingency				\$10,000	\$0		
Total Project Cost				\$300,000	\$358,300	\$213,222	
Testing Contingency					\$66,000		8

Notes:

- 1) Design complete, pending final project report and consultant support services during testing.
- 2) Weeding activities to allow work to commence prior to regulated bird nesting season. Initial project scope assumed basin would be clear of vegetation to avoid nesting season regulations. Additional weeding was necessary due to aggressive weed growth.
- 3) Additional costs incurred due to biological surveys requirements set forth in regulatory permits. Regulatory permit conditions received after initial budget established.
- 4) Additional site topographic survey requirements set forth in regulatory permits. Regulatory permit conditions received after initial budget established. Work activities include pre and post aerial surveys.
- 5) Low bid price received during bidding phase was \$183,000.
- 6) Procurement of 8 pressure transducers and data logger equipment for data monitoring and basin testing.
- 7) Estimated cost. Pending November usage costs.
- 8) Additional cost per month of testing. Includes pumping, labor, equipment, and additional mobilization.