CHINO BASIN WATERMASTER

NOTICE OF MEETINGS

Thursday, October 10, 2024

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

Watermaster's function is to administer and enforce provisions of the Judgment and subsequent orders of the Court, and to develop and implement an Optimum Basin Management Program

CHINO BASIN WATERMASTER
APPROPRIATIVE POOL COMMITTEE MEETING
9:00 a.m. October 10, 2024
Mr. Chris Diggs, Chair
Mr. Chris Berch, Vice-Chair
At The Offices Of
Chino Basin Watermaster
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

(Call can be taken remotely via Zoom at this link)

AGENDA

CALL TO ORDER

ROLL CALL

AGENDA - ADDITIONS/REORDER

SAFETY MINUTE

I. CONSENT CALENDAR

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

Approve as presented:

1. Minutes of the Appropriative Pool Committee Meeting held on September 12, 2024 *(Page 1)*

B. FINANCIAL REPORTS

Financials for the period ended August 31, 2024 *(Page 16)*

C. APPLICATION: LOCAL STORAGE AGREEMENT – APPROPRIATIVE POOL *(Page 31)*

Recommend to the Advisory Committee to recommend to the Watermaster Board to approve the Application for Local Storage Agreement submitted on behalf of the Appropriative Pool members as presented.

II. BUSINESS ITEMS

A. ANNUAL STREAMFLOW MONITORING REPORT FOR WATER RIGHTS PERMIT 21225 (INFORMATION ONLY) *(Page 37)*

B. ANNUAL AND SEMI-ANNUAL PLUME STATUS REPORTS (INFORMATION ONLY) *(Page 76)*

III. REPORTS/UPDATES

A. WATERMASTER LEGAL COUNSEL

1. November 8, 2024, Court Hearing (Appropriative Pool Motion for Costs and Fees)
2. Court of Appeal Consolidated Cases No. E080457 and E082127 (City of Ontario appeal re: Fiscal Year 2021-22 and 2022-23 Assessment Packages)
3. Court of Appeal Case No. E080533 (Cities of Chino, Ontario appeal re: Fiscal Year 2022-23 Watermaster budget expenses to support CEQA analysis)
4. San Sevaine Basins – 60-day Clean Water Act Violation Notice Letter

B. ENGINEER
1. Ground-Level Monitoring Program
2. 2025 Safe Yield Reevaluation

C. GENERAL MANAGER
1. Assessment Package Workshops
2. Other

IV. INFORMATION
A. RECHARGE INVESTIGATION AND PROJECTS COMMITTEE *(Page 80)*

V. POOL MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION – POSSIBLE ACTION
A Confidential Session may be held during the Pool Committee meeting for the purpose of discussion and possible action.

VIII. FUTURE MEETINGS AT WATERMASTER

10/03/24	Thu	10:00 a.m.	Ground-Level Monitoring Committee (GLMC)
10/10/24	Thu	9:00 a.m.	Appropriative Pool Committee
10/10/24	Thu	11:00 a.m.	Non-Agricultural Pool Committee
10/10/24	Thu	1:30 p.m.	Agricultural Pool Committee
10/15/24	Tue	10:00 a.m.	2024/25 Assessment Package Workshop 1
10/17/24	Thu	9:00 a.m.	Advisory Committee
10/17/24	Thu	9:30 a.m.	Recharge Investigations and Projects Committee (RIPComm)
10/24/24	Thu	9:30 a.m.	Watermaster Orientation*
10/24/24	Thu	11:00 a.m.	Watermaster Board
10/29/24	Tue	10:00 a.m.	2024/25 Assessment Package Workshop 2
10/30/24	Wed	1:30 p.m.	Water Rights and Replenishment Forecasting Tool Workshop

* The Watermaster Orientation series are held in person only with no remote access.

ADJOURNMENT

CHINO BASIN WATERMASTER
NON-AGRICULTURAL POOL COMMITTEE MEETING
11:00 a.m. October 10, 2024
Mr. Brian Geye, Chair
Mr. Bob Bowcock, Vice-Chair
At The Offices Of
Chino Basin Watermaster
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

AGENDA

CALL TO ORDER

ROLL CALL

AGENDA – ADDITIONS/REORDER

SAFETY MINUTE

I. BUSINESS ITEMS – ROUTINE

A. MINUTES

Approve as presented:

1. Minutes of the Non-Agricultural Pool Committee Meeting held on September 12, 2024 *(Page 8)*

B. FINANCIAL REPORTS

Financials for the period ended August 31, 2024 *(Page 16)*

C. APPLICATION: LOCAL STORAGE AGREEMENT - APPRORIATIVE POOL *(Page 31)*

Recommend to the Advisory Committee to recommend to the Watermaster Board to approve the Application for Local Storage Agreement submitted on behalf of the Appropriative Pool members as presented.

II. BUSINESS ITEMS

A. ANNUAL STREAMFLOW MONITORING REPORT FOR WATER RIGHTS PERMIT 21225 (INFORMATION ONLY) *(Page 37)*

B. ANNUAL AND SEMI-ANNUAL PLUME STATUS REPORTS (INFORMATION ONLY) *(Page 76)*

C. MEMBER STATUS CHANGES

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

III. REPORTS/UPDATES

A. WATERMASTER LEGAL COUNSEL

1. November 8, 2024, Court Hearing (Appropriative Pool Motion for Costs and Fees)
2. Court of Appeal Consolidated Cases No. E080457 and E082127 (City of Ontario appeal re: Fiscal Year 2021-22 and 2022-23 Assessment Packages)
3. Court of Appeal Case No. E080533 (Cities of Chino, Ontario appeal re: Fiscal Year 2022-23 Watermaster budget expenses to support CEQA analysis)
4. San Sevaine Basins – 60-day Clean Water Act Violation Notice Letter

B. ENGINEER
1. Ground-Level Monitoring Program
2. 2025 Safe Yield Reevaluation

C. GENERAL MANAGER
1. Assessment Package Workshops
2. Other

IV. INFORMATION

A. RECHARGE INVESTIGATION AND PROJECTS COMMITTEE *(Page 80)*

V. POOL MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

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

VIII. FUTURE MEETINGS AT WATERMASTER

10/03/24	Thu	10:00 a.m.	Ground-Level Monitoring Committee (GLMC)
10/10/24	Thu	9:00 a.m.	Appropriative Pool Committee
10/10/24	Thu	11:00 a.m.	Non-Agricultural Pool Committee
10/10/24	Thu	1:30 p.m.	Agricultural Pool Committee
10/15/24	Tue	10:00 a.m.	2024/25 Assessment Package Workshop 1
10/17/24	Thu	9:00 a.m.	Advisory Committee
10/17/24	Thu	9:30 a.m.	Recharge Investigations and Projects Committee (RIPComm)
10/24/24	Thu	9:30 a.m.	Watermaster Orientation*
10/24/24	Thu	11:00 a.m.	Watermaster Board
10/29/24	Tue	10:00 a.m.	2024/25 Assessment Package Workshop 2
10/30/24	Wed	1:30 p.m.	Water Rights and Replenishment Forecasting Tool Workshop

* The Watermaster Orientation series are held in person only with no remote access.

ADJOURNMENT

CHINO BASIN WATERMASTER
AGRICULTURAL POOL COMMITTEE MEETING
1:30 p.m. October 10, 2024
Mr. Bob Feenstra, Chair
Mr. Jeff Pierson, Vice-Chair
At The Offices Of
Chino Basin Watermaster
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

AGENDA

CALL TO ORDER

ROLL CALL

AGENDA - ADDITIONS/REORDER

SAFETY MINUTE

I. CONSENT CALENDAR

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

Approve as presented:
1. Minutes of the Agricultural Pool Committee Meeting held on September 12, 2024 *(Page 11)*

B. FINANCIAL REPORTS

Financials for the period ended August 31, 2024 *(Page 16)*

C. APPLICATION: LOCAL STORAGE AGREEMENT - APPRORIATIVE POOL*(Page 31)*

Recommend to the Advisory Committee to recommend to the Watermaster Board to approve the Application for Local Storage Agreement submitted on behalf of the Appropriative Pool members as presented.

II. BUSINESS ITEMS

A. ANNUAL STREAMFLOW MONITORING REPORT FOR WATER RIGHTS PERMIT 21225 (INFORMATION ONLY) *(Page 37)*

B. ANNUAL AND SEMI-ANNUAL PLUME STATUS REPORTS (INFORMATION ONLY) *(Page 76)*

C. OLD BUSINESS

III. REPORTS/UPDATES

A. WATERMASTER LEGAL COUNSEL

1. November 8, 2024, Court Hearing (Appropriative Pool Motion for Costs and Fees)
2. Court of Appeal Consolidated Cases No. E080457 and E082127 (City of Ontario appeal re: Fiscal Year 2021-22 and 2022-23 Assessment Packages)
3. Court of Appeal Case No. E080533 (Cities of Chino, Ontario appeal re: Fiscal Year 2022-23 Watermaster budget expenses to support CEQA analysis)
4. San Sevaine Basins – 60-day Clean Water Act Violation Notice Letter

B. ENGINEER
1. Ground-Level Monitoring Program
2. 2025 Safe Yield Reevaluation

C. GENERAL MANAGER
1. Assessment Package Workshops
2. Other

IV. INFORMATION
A. RECHARGE INVESTIGATION AND PROJECTS COMMITTEE *(Page 80)*

V. POOL MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION – POSSIBLE ACTION
A Confidential Session may be held during the Pool Committee meeting for the purpose of discussion and possible action.

1. Sampling of Ag Wells—Concerns and Discussion

VIII. FUTURE MEETINGS AT WATERMASTER

10/03/24	Thu	10:00 a.m.	Ground-Level Monitoring Committee (GLMC)
10/10/24	Thu	9:00 a.m.	Appropriative Pool Committee
10/10/24	Thu	11:00 a.m.	Non-Agricultural Pool Committee
10/10/24	Thu	1:30 p.m.	Agricultural Pool Committee
10/15/24	Tue	10:00 a.m.	2024/25 Assessment Package Workshop 1
10/17/24	Thu	9:00 a.m.	Advisory Committee
10/17/24	Thu	9:30 a.m.	Recharge Investigations and Projects Committee (RIPComm)
10/24/24	Thu	9:30 a.m.	Watermaster Orientation*
10/24/24	Thu	11:00 a.m.	Watermaster Board
10/29/24	Tue	10:00 a.m.	2024/25 Assessment Package Workshop 2
10/30/24	Wed	1:30 p.m.	Water Rights and Replenishment Forecasting Tool Workshop

* The Watermaster Orientation series are held in person only with no remote access.

ADJOURNMENT

DRAFT MINUTES
CHINO BASIN WATERMASTER
APPROPRIATIVE POOL COMMITTEE MEETING
September 12, 2024

The Appropriative Pool committee meeting was held at the Watermaster offices located at 9641 San Bernardino Road, Rancho Cucamonga, CA, and via Zoom (conference call and web meeting) on September 12, 2024.

APPROPRIATIVE POOL COMMITTEE MEMBERS PRESENT AT WATERMASTER

Chris Diggs, Chair	City of Pomona
Chris Berch, Vice-Chair	Jurupa Community Services District
Amanda Coker	Cucamonga Valley Water District
Hye Jin Lee	City of Chino
Ron Craig	City of Chino Hills
Chad Nashida for Courtney Jones	City of Ontario
Marty Zvirbulis	Fontana Union Water Company
Cris Fealy	Fontana Water Company
Ben Lewis	Golden State Water Company
Justin Scott-Coe	Monte Vista Water Company
Justin Scott-Coe	Monte Vista Irrigation Company
Marty Zvirbulis	Nicholson Family Trust

APPROPRIATIVE POOL COMMITTEE MEMBERS PRESENT ON ZOOM

Nicole deMoet	City of Upland
Alyssa Coronado	Santa Ana River Water Company
Nicole deMoet	West End Consolidated Water Co.

APPROPRIATIVE POOL COMMITTEE LEGAL COUNSEL PRESENT AT WATERMASTER

Brad Herrema	Brownstein Hyatt Farber Schreck, LLP

WATERMASTER BOARD MEMBERS PRESENT ON ZOOM

Jimmy Medrano	Agricultural Pool – State of CA
Bill Velto	City of Upland
Manny Martinez	Monte Vista Water Company
Bob Kuhn	Three Valleys Municipal Water District
Mike Gardner	Western Water

WATERMASTER STAFF PRESENT

Todd Corbin	General Manager
Edgar Tellez Foster	Water Resources Mgmt. & Planning Dir.
Anna Nelson	Director of Administration
Justin Nakano	Water Resources Technical Manager
Frank Yoo	Data Services and Judgment Reporting Mgr.
Daniela Uriarte	Senior Accountant
Alonso Jurado	Water Resources Associate
Brittany Modesto	Administrative Analyst
Ruby Favela Quintero	Administrative Assistant
Jordan Garcia	Senior Field Operations Specialist
Erik Vides	Field Operations Specialist

WATERMASTER CONSULTANTS PRESENT AT WATERMASTER

Andy Malone	West Yost

WATERMASTER CONSULTANTS PRESENT ON ZOOM

John Schatz	John J. Schatz, Attorney at Law
Garrett Rapp	West Yost
Veva Weamer	West Yost

OTHERS PRESENT AT WATERMASTER

Dave Crosley	City of Chino
John Bosler	Cucamonga Valley Water District
Eduardo Espinoza	Cucamonga Valley Water District
Jimmie Moffatt	Cucamonga Valley Water District
Jiwon Seung	Cucamonga Valley Water District
Megan Sims	Fontana Union Water Company
Justin Castruita	Fontana Water Company

OTHERS PRESENT ON ZOOM

Ben Orosco	City of Chino
Natalie Avila	City of Chino
Courtney Jones	City of Ontario
Melissa Cansino	City of Pomona
Norberto Ferreira	City of Upland
Rob Hills	Cucamonga Valley Water District
Peter Dopulos	Egoscue Law Group, Inc.
Eddie Lin	Inland Empire Utilities Agency
Bryan Smith	Jurupa Community Services District
Jesse Pompa	Jurupa Community Services District
John Lopez	Santa Ana River Water Company
David De Jesus	Three Valleys Municipal Water District
Norberto Ferreira	West End Consolidated Water Co.
Jake Loukeh	Western Water

CALL TO ORDER

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

ROLL CALL

(00:01:02) Ms. Nelson conducted the roll call and announced that a quorum was present.

AGENDA - ADDITIONS/REORDER

None

SAFETY MINUTE

(00:03:10) Mr. Corbin announced having an AED device on location.

I. CONSENT CALENDAR

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

Approve as presented:

1. Minutes of the Appropriative Pool Committee Meeting held on August 8, 2024
2. Minutes of the Appropriative Pool Committee Special Meeting held on August 26, 2024

B. FINANCIAL REPORTS

Financials for the period July 1, 2024, through August 31, 2024, will be presented at the next regular meeting.

C. OBMP SEMI-ANNUAL STATUS REPORT 2024-1

Recommend to the Advisory Committee to recommend to the Watermaster Board to adopt the Semi-Annual OBMP Status Report 2024-1, and direct staff to file a copy with the Court, subject to any necessary non-substantive changes.

(00:04:21)
Motion by Mr. Marty Zvirbulis, seconded by Mr. Cris Fealy, there being no dissent, the item passed unanimously.

Moved* to *approve the Consent Calendar with an edit to the minutes as presented.

II. BUSINESS ITEMS

A. EMERGING CONTAMINANTS MONITORING PLAN (INFORMATION ONLY)

(00:05:05) Ms. Weamer of West Yost gave a presentation. A discussion ensued.

III. REPORTS/UPDATES

A. WATERMASTER LEGAL COUNSEL

1. November 8, 2024, Court Hearing (Appropriative Pool Motion for Costs and Fees)
2. Court of Appeal Consolidated Cases No. E080457 and E082127 (City of Ontario appeal re: Fiscal Year 2021-22 and 2022-23 Assessment Packages)
3. Court of Appeal Case No. E080533 (Cities of Chino, Ontario appeal re: Fiscal Year 2022-23 Watermaster budget expenses to support CEQA analysis)
4. San Sevaine Basins – 60-day Clean Water Act Violation Notice Letter

(00:18:51) Mr. Herrema gave a report. A discussion ensued.

B. ENGINEER

1. Ground-Level Monitoring Program
2. 2025 Safe Yield Reevaluation Workshops

(00:26:00) Mr. Malone reported on Item 1 and asked Mr. Rapp to present on Item 2. Mr. Rapp gave a presentation and also announced the November 20, 2024 Safe Yield Workshop.

C. GENERAL MANAGER

1. New Watermaster Staff Member Introduction
2. Other

(00:31:46) Mr. Corbin introduced Ms. Brittany Modesto as Watermaster's newest team member. She will be supporting the team as an administrative analyst. Mr. Corbin announced the Confire EMS vehicles located in the back lot. The vehicles will be temporarily stored on premises with the lessee's and lessor's permission.

IV. INFORMATION

A. RECHARGE INVESTIGATION AND PROJECTS COMMITTEE

(00:34:02) Mr. Corbin announced the Recharge Investigation and Projects Committee fact sheet that will be published monthly. It aims to aid parties in keeping up with project status, particularly Project 23a.

V. POOL MEMBER COMMENTS

(00:34:25) Mr. Fealy introduced Justin Castruita, the Water Resources Manager of Fontana Water Company.

VI. OTHER BUSINESS

MR. DAVE CROSLEY'S RETIREMENT FROM THE CITY OF CHINO

(00:34:55) Mr. Diggs opened and congratulated Mr. Crosley on his retirement. Appropriative Pool members took turns congratulating and commending Mr. Crosley for his tenure at the City of Chino and dedicated service in the Chino Basin.

VII. CONFIDENTIAL SESSION – POSSIBLE ACTION

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

The Pool convened into confidential session at 9:53 a.m. to discuss Pool business. Confidential session concluded at 10:04 a.m. with the following reportable action:

Motion 1: To approve of the AG legal bills as outlined below:

- $5,250.00 for general counsel – Aug. 2024 Invoice (July 2024 billing)
- $15,750.00 for general counsel –Sept. 2024 Invoice (Aug. 2024 billing)

Motion made by Chris Diggs (Pomona), which was seconded by Amanda Coker (CVWD). The motion was unanimously approved, with 100% of the votes in favor.

ADJOURNMENT

Chair Diggs adjourned the Appropriative Pool Committee meeting at 10:08 a.m.

Secretary: _____

Approved: _____

Attachments:

1. 20240912 Appropriative Pool Committee Meeting (Reportable Action from Confidential Session as provided by Pool Leadership)

From: Anna Nelson
To: Brittany Modesto
Subject: FW: AP Closed Session Meeting - 9/12/24 (reportable items)
Date: Wednesday, October 2, 2024 1:09:56 PM
Attachments: image003.png
Zoom meeting sign-in sheet 9-12-24.pdf
9-12-24.pdf

From: Cansino, Melissa <Melissa.Cansino@pomonaca.gov>
Sent: Thursday, September 12, 2024 3:58 PM
To: Ruby Favela Quintero <RFavelaQuintero@cbwm.org>
Cc: Anna Nelson <atruongnelson@cbwm.org>; Diggs, Chris <Chris.Diggs@pomonaca.gov>
Subject: AP Closed Session Meeting - 9/12/24 (reportable items)

Hi Ruby,

The AP held its closed session from 9:53 am to 10:04 am. I've attached the sign-in sheets for your reference.

Motion: To approval of the AG legal bills as outlined below:

- $5,250.00 for general counsel – Aug. 2024 Invoice (July 2024 billing)
- $15,750.00 for general counsel –Sept. 2024 Invoice (Aug. 2024 billing)

Chris Diggs (Pomona) initiated the motion, which was seconded by Amanda Coker (CVWD). The motion was unanimously approved, with 100% of the votes in favor.

Melissa Cansino
Water Conservation Specialist | Water Resources Department
752 W. Commercial St., Pomona, CA 91768
T: (909) 620-2236 | **M:** (909) 630-4985
Melissa.Cansino@pomonaca.gov

Name (Original Name)	User Email	Join Time
Melissa Cansino	melissa.cansino@pomonaca.gov	9/12/2024
Santa Ana River Water Company		9/12/2024
John Schatz Attorney at Law		9/12/2024
Hye Jin Lee - Chino		9/12/2024
Natalie Avila - City of Chino		9/12/2024
Ron C		9/12/2024
Courtney Jones - City of Ontario		9/12/2024

SIGN-IN SHEET

Date: 9/12/24

CBWM AP Confidential Session meeting

#	NAME	SIGNATURE	ORGANIZATION
1	Amanda Coker		CVWD
2	CRIS FEALY		FWC
3	Megan Sims		FWC
4	Justin Castruita		FWC
5	Chris Berch		JCSD
6	Marty Zvirbulis		FWC
7	CHRIS DIAS		POMOAA
8	Justin Scott-Co		MWD/MWC
9	Brian C Lee		SAWCO
10	CHAD NISHIDA		ONTARIO
11	DAVE CRESCO		CH2M
12	Jimmie Moffatt		CVWD
13	John Bosler		CVWD
14	Eduardo Espinoza		CVWD
15			

DRAFT MINUTES
CHINO BASIN WATERMASTER
NON-AGRICULTURAL POOL COMMITTEE MEETING
September 12, 2024

The Non-Agricultural Pool committee meeting was held at the Watermaster offices located at 9641 San Bernardino Road, Rancho Cucamonga, CA, and via Zoom (conference call and web meeting) on September 12, 2024

NON-AGRICULTURAL POOL COMMITTEE MEMBERS PRESENT AT WATERMASTER

Brian Geye, Chair	California Speedway Corporation
Bob Bowcock, Vice-Chair	CalMat Company
Justin Scott-Coe	Monte Vista Water District

NON-AGRICULTURAL POOL COMMITTEE MEMBERS PRESENT ON ZOOM

Kathleen Brundage	California Steel Industries, Inc.
Alexis Mascarinas	City of Ontario
Michael Adler for Natalie Costaglio	Hamner Park Associates

WATERMASTER BOARD MEMBERS PRESENT ON ZOOM

Mike Gardner	Western Water

WATERMASTER STAFF PRESENT AT WATERMASTER

Todd Corbin	General Manager
Anna Nelson	Director of Administration
Frank Yoo	Data Services and Judgment Reporting Mgr.
Daniela Uriarte	Senior Accountant
Alonso Jurado	Water Resources Associate
Brittany Modesto	Administrative Analyst
Ruby Favela Quintero	Administrative Assistant
Jordan Garcia	Senior Field Operations Specialist
Erik Vides	Field Operations Specialist

WATERMASTER CONSULTANTS PRESENT AT WATERMASTER

Andy Malone	West Yost

WATERMASTER CONSULTANTS PRESENT ON ZOOM

Garrett Rapp	West Yost
Veva Weamer	West Yost

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

ROLL CALL
(00:00:19) Ms. Nelson conducted the roll call.

AGENDA – ADDITIONS/REORDER
None

SAFETY MINUTE
(00:02:15) Mr. Corbin announced that Watermaster has an AED device on the premises and indicated that it is located near the front office lobby by the board room.

I. BUSINESS ITEMS – ROUTINE

A. MINUTES

Receive and File:
Minutes of the Non-Agricultural Pool Committee Meeting held on August 8, 2024

(00:03:08)
Motion by Vice-Chair Bob Bowcock, seconded by Ms. Kathleen Brundage. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.

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

B. FINANCIAL REPORTS

Financials for the period July 1, 2024 through August 31, 2024 will be presented at the next regular meeting.

(00:03:38) The financial reports were deferred to next month.

C. OBMP SEMI-ANNUAL STATUS REPORT 2024-1

Recommend to the Advisory Committee to recommend to the Watermaster Board to adopt the Semi-Annual OBMP Status Report 2024-1, and direct staff to file a copy with the Court, subject to any necessary non-substantive changes.

(00:03:48)
Motion by Mr. Justin Scott-Coe, seconded by Ms. Kathleen Brundage. The Chair called for dissent, and, none being noted, the motion was deemed passed by unanimous vote of those present.

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

II. BUSINESS ITEMS

A. EMERGING CONTAMINANTS MONITORING PLAN (INFORMATION ONLY)

(00:04:29) Ms. Weamer of West Yost gave a presentation. A discussion ensued.

B. MEMBER STATUS CHANGES

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

There were no changes to note.

III. REPORTS/UPDATES

A. WATERMASTER LEGAL COUNSEL

1. November 8, 2024 Court Hearing (Appropriative Pool Motion for Costs and Fees)
2. Court of Appeal Consolidated Cases No. E080457 and E082127 (City of Ontario appeal re: Fiscal Year 2021-22 and 2022-23 Assessment Packages)
3. Court of Appeal Case No. E080533 (Cities of Chino, Ontario appeal re: Fiscal Year 2022-23 Watermaster budget expenses to support CEQA analysis)
4. San Sevaine Basins – 60-day Clean Water Act Violation Notice Letter

(00:10:35) Mr. Herrema gave a report. A discussion ensued.

B. ENGINEER

1. Ground-Level Monitoring Program
2. 2025 Safe Yield Reevaluation Workshops

(00:14:50) Mr. Malone reported on item one and asked Mr. Rapp to present on item two. Mr. Rapp gave a presentation and also announced the November 20, 2024 Safe Yield Workshop.

C. GENERAL MANAGER

1. New Watermaster Staff Member Introduction
2. Other

(00:19:19) Mr. Corbin introduced Ms. Brittany Modesto as Watermaster's newest team member. She will be supporting the team as an administrative analyst. Mr. Corbin announced the Confire EMS vehicles located in the back lot. Vehicles will be temporarily stored on premises with the lessee and lessor's permission.

IV. INFORMATION

A. RECHARGE INVESTIGATION AND PROJECTS COMMITTEE

(00:20:40) Mr. Corbin announced a Recharge Investigation and Projects Committee fact sheet that will be published monthly. It aims to aid parties in keeping up with the project status, particularly Project 23a.

V. POOL MEMBER COMMENTS

None

VI. OTHER BUSINESS

MR. DAVE CROSLEY'S RETIREMENT FROM THE CITY OF CHINO

(00:21:10) The Chair announced Mr. Crosley's retirement and commended him for his service. Mr. Corbin indicated Mr. Crosley was given a certificate of commendation.

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

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

The Pool convened into Confidential Session at 11:23 a.m. to discuss Pool Legal Counsel Representation. Confidential Session concluded at 11:43 a.m. with the following reportable action:

The Non-Agricultural Pool directs the Pool Chair to sign the engagement agreement with the firm Lewis Brisbois to become the new Pool Counsel.

ADJOURNMENT

Chair Geye adjourned the Non-Agricultural Pool Committee meeting at 11:43 a.m.

Secretary: _____

Approved: _____

DRAFT MINUTES
CHINO BASIN WATERMASTER
AGRICULTURAL POOL COMMITTEE MEETING
September 12, 2024

The Agricultural Pool committee meeting was held at the Watermaster offices located at 9641 San Bernardino Road, Rancho Cucamonga, CA, and via Zoom (conference call and web meeting) on September 12, 2024.

AGRICULTURAL POOL COMMITTEE MEMBERS PRESENT AT WATERMASTER

Bob Feenstra, Chair	Dairy
Jeff Pierson, Vice-Chair	Crops
Ruben Llamas	Crops
Gino Filippi for Ron LaBrucherie	Crops
Tariq Awan	State of California – CDCR
Jimmy Medrano	State of California – CDCR

AGRICULTURAL POOL COMMITTEE MEMBERS PRESENT ON ZOOM

Nathan deBoom	Dairy
John Huitsing	Dairy
Imelda Cadigal	State of California – CDCR
Diana Frederick	State of California – CDCR
Lewis Callahan	State of California – CDCR

WATERMASTER BOARD MEMBERS PRESENT ON ZOOM

Mike Gardner	Western Water

WATERMASTER STAFF PRESENT

Todd Corbin	General Manager
Anna Nelson	Director of Administration
Justin Nakano	Water Resources Technical Manager
Frank Yoo	Data Services and Judgment Reporting Mgr.
Daniela Uriarte	Senior Accountant
Alonso Jurado	Water Resources Associate
Ruby Favela Quintero	Administrative Assistant
Jordan Garcia	Senior Field Operations Specialist
Erik Vides	Field Operations Specialist

WATERMASTER CONSULTANTS PRESENT AT WATERMASTER

Andy Malone	West Yost

WATERMASTER CONSULTANTS PRESENT ON ZOOM

Garrett Rapp	West Yost
Veva Weamer	West Yost

AGRICULTURAL POOL COMMITTEE LEGAL COUNSEL PRESENT AT WATERMASTER

Brad Herrema	Brownstein Hyatt Farber Schreck, LLP

AGRICULTURAL POOL COMMITTEE LEGAL COUNSEL PRESENT ON ZOOM

Tracy Egoscue	Egoscue Law Group, Inc.

OTHERS PRESENT AT WATERMASTER

Paul Hofer	Agricultural Pool – Crops
Rick Rees	WSP USA

OTHERS PRESENT ON ZOOM

Eric Katz State of California

CALL TO ORDER

Chair Feenstra called the Agricultural Pool committee meeting to order at 1:45 p.m.

Prior to Call to Order, Chair Feenstra opened and commented on Mr. Pierson's daughter's accident. Mr. Pierson reported on his daughter Natalie's condition and the support he has received from Chino Basin. Chair Feenstra advised that Ms. Egoscue would be on vacation.

ROLL CALL

(00:12:26) Ms. Favela Quintero conducted the roll call and announced that a quorum was present.

AGENDA - ADDITIONS/REORDER

None

SAFETY MINUTE

(00:14:04) Mr. Corbin announced that Watermaster has an AED device on the premises and indicated that it is located near the front office lobby by the board room

I. CONSENT CALENDAR

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

Approve as presented:
Minutes of the Agricultural Pool Committee Meeting held on August 8, 2024

B. FINANCIAL REPORTS

Financials for the period July 1, 2024 through August 31, 2024 will be presented at the next regular meeting.

C. OBMP SEMI-ANNUAL STATUS REPORT 2024-1

Recommend to the Advisory Committee to recommend to the Watermaster Board to adopt the Semi-Annual OBMP Status Report 2024-1, and direct staff to file a copy with the Court, subject to any necessary non-substantive changes.

(00:20:36)
Motion by Vice-Chair Jeff Pierson, seconded by Mr. Jimmy Medrano, there being no dissent, the item passed unanimously. And passed by unanimous roll call vote as attached to these minutes.
Moved to approve the Consent Calendar as presented.

II. BUSINESS ITEMS

A. EMERGING CONTAMINANTS MONITORING PLAN (INFORMATION ONLY)

(00:21:12) Ms. Weamer of West Yost gave a presentation. A discussion ensued.

B. OLD BUSINESS

None

III. REPORTS/UPDATES

A. WATERMASTER LEGAL COUNSEL

1. November 8, 2024 Court Hearing (Appropriative Pool Motion for Costs and Fees)
2. Court of Appeal Consolidated Cases No. E080457 and E082127 (City of Ontario appeal re: Fiscal Year 2021-22 and 2022-23 Assessment Packages)
3. Court of Appeal Case No. E080533 (Cities of Chino, Ontario appeal re: Fiscal Year 2022-23 Watermaster budget expenses to support CEQA analysis)
4. San Sevaine Basins – 60-day Clean Water Act Violation Notice Letter

(00:43:07) Mr. Herrema gave a report. A discussion ensued.

B. ENGINEER

1. Ground-Level Monitoring Program
2. 2025 Safe Yield Reevaluation Workshops

(00:50:04) Mr. Malone reported on Item 1 and handed off to Mr. Rapp to present on Item 2.Mr. Rapp also announced the November 20, 2024 Safe Yield Reevaluation Workshop that will be held at Watermaster and is open to all interested parties.

C. GENERAL MANAGER

1. New Watermaster Staff Member Introduction
2. Other

(00:55:46) Mr. Corbin introduced Ms. Brittany Modesto as Watermaster's newest team member. She will be supporting the team as an administrative analyst. Mr. Corbin announced the Confire EMS vehicles located in the back lot. The vehicles will be temporarily stored on premises with the lessee's and lessor's permission.

IV. INFORMATION

A. RECHARGE INVESTIGATION AND PROJECTS COMMITTEE

V. POOL DISCUSSION

None

VI. OTHER BUSINESS

MR. DAVE CROSLEY'S RETIREMENT FROM THE CITY OF CHINO

(00:58:01) Chair Feenstra spoke on Mr. Dave Crosley's retirement. The Pool commended Mr. Crosley for his service in the Chino Basin and congratulated him on his retirement.

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

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

None

ADJOURNMENT
Chair Feenstra adjourned the Agricultural Pool Committee meeting at 2:38 p.m.

Secretary: _____

Approved: _____

Attachments: 20240912 Roll Call Vote Outcome for Consent Calendar

ATTACHMENT 1

20240912 Roll Call Vote Outcome		
Member	**Alternate**	**Consent Calendar**
Filippi, Gino for Ron LaBrucherie		Yes
Pierson, Jeff, Vice-Chair		Yes
deBoom, Nathan*		
DeHaan, Henry		Yes
Huitsing, John*		Yes
Miller, Christen		
Llamas, Ruben		Yes
Miller, Christen		Yes
Awan, Tariq		Yes
Cadigal, Imelda*		Yes
Medrano, Jimmy		Yes
Feenstra, Bob - Chair		Yes
	OUTCOME:	**Passed Unanimously**

*Participated via Zoom

CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730
909.484.3888 www.cbwm.org

STAFF REPORT

DATE: October 2024

TO: Watermaster Committees & Board

SUBJECT: Monthly Financial Reports (For the Reporting Period Ended August 31, 2024) (Consent Calendar Item I.B.)

Issue: Record of Monthly Financial Reports for the reporting periods ended August 31, 2024 [Normal Course of Business]

Recommendation: Receive and file Monthly Financial Reports for the reporting periods ended August 31, 2024 as presented.

Financial Impact: None.

Actions and Future Considerations
Appropriative Pool – October 10, 2024: Receive and File
Non-Agricultural Pool – October 10, 2024: Receive and File
Agricultural Pool – October 10, 2024: Receive and File
Advisory Committee – October 17, 2024:
Watermaster Board – October 24, 2024:

BACKGROUND

A monthly reporting packet is provided to keep all members apprised of Watermaster revenues, expenditures, and other financial activity. Monthly reports include the following:

1. Cash Disbursements – Summarized report of all payments made during the reporting month.
2. Credit Card Expense Detail – Detail report of all credit card activity during the reporting month.
3. Combining Schedule of Revenues, Expenses & Changes in Net Assets – Detail report of all revenue and expense activity for the fiscal YTD, summarized by pool category.
4. Treasurer's Report – Summary of Watermaster investments holdings and anticipated earnings as of month end.
5. Budget to Actual Report – Detail report of actual revenue and expense activity, shown for reporting month and YTD, comparatively to the adopted budget.
6. Monthly Variance Report & Supplemental Schedules – Supporting schedule providing explanation for major budget variances. Also provides several additional tables detailing pool fund balance, salaries expense, legal expense, and engineering expense.

DISCUSSION

Detailed explanation of major variances and other additional information can be found on the "Monthly Variance Report & Supplemental Schedules."

Watermaster staff will provide additional explanation or respond to any questions on these reports.

ATTACHMENTS

1. Monthly Financial Reports (August 31, 2024)

Chino Basin Watermaster
Cash Disbursements
August 2024

ATTACHMENT 1

Date	Number	Vendor Name	Description	Amount
08/05/2024	24959	WOLF BEDLINERS, INC.	Bedliner for new field truck	$ (575.13)
08/06/2024	24960	DORA CERVANTES	Carpet cleaning	(800.00)
08/06/2024	24961	EIDE BAILLY LLP	June accounting consulting services	(262.50)
08/06/2024	24962	GEYE, BRIAN		(125.00)
08/06/2024	24963	PIERSON, JEFFREY		(1,625.00)
08/06/2024	24964	SOUTHERN CALIFORNIA EDISON	Utilities: Electric	(173.78)
08/06/2024	24965	UNION 76	July fuel purchases	(155.26)
08/06/2024	24966	VISION SERVICE PLAN	September vision insurance coverage	(113.85)
08/07/2024	24967	ACWA JOINT POWERS INSURANCE AUTHORITY	September life insurance	(270.83)
08/07/2024	24968	APPLIED COMPUTER TECHNOLOGIES	Zoom database migration projects	(437.50)
08/07/2024	24969	BURRTEC WASTE INDUSTRIES, INC.	Utilities: Waste	(168.62)
08/07/2024	24970	CHEF DAVE'S CATERING & EVENT SERVICES	Board meeting catering services	(479.47)
08/07/2024	24971	CONCENTRA	Pre-employment screening	(181.00)
08/07/2024	24972	ELIE, STEVEN		(250.00)
08/07/2024	24973	EMPOWER LAB	August consulting services	(500.00)
08/07/2024	24974	FRONTIER COMMUNICATIONS	Landline connection for Bay Alarm system	(152.57)
08/07/2024	24975	IRELAND SOUND SYSTEMS INC	Boardroom audio/video system service agreement	(5,340.00)
08/07/2024	24976	KAVOUNAS, PETER	Health and dental premium reimbursements	(1,478.36)
08/07/2024	24977	SAN BERNARDINO COUNTY - DEPT. AIRPORTS	August rent for extensometer site	(172.00)
08/07/2024	24978	STATE COMPENSATION INSURANCE FUND	FY 24 Worker's compensation insurance	(2,264.91)
08/07/2024	24979	USAFACT, INC.	Pre-employment background check	(120.22)
08/07/2024	24980	VANGUARD CLEANING SYSTEMS	August janitorial service and June electrostatic spraying	(1,000.00)
08/09/2024	ACH 8/9/24	CALPERS	August Medical Insurance Premiums	(16,389.54)
08/13/2024	24981	RBM LOCK & KEY	Field locks	(423.60)
08/13/2024	24982	WELL TEC SERVICES	Meter calibration test and repair parts	(49,087.50)
08/14/2024	24983	CALIFORNIA BANK & TRUST	Account ending 6198 - See detail attached	(2,329.43)
08/15/2024	24984	APPLIED COMPUTER TECHNOLOGIES	July database consulting services	(4,250.00)
08/15/2024	24985	BOWCOCK, ROBERT		(250.00)
08/15/2024	24986	C.J. BROWN & COMPANY, CPAs	FY 24 Audit services	(6,799.00)
08/15/2024	24987	CORELOGIC INFORMATION SOLUTIONS	July geographic package services	(125.00)
08/15/2024	24988	CUCAMONGA VALLEY WATER DISTRICT	September lease	(11,727.00)
08/15/2024	24989	CURATALO, JAMES		(1,375.00)
08/15/2024	24990	FEDEX	Shipping of Pools meeting packages	(122.69)
08/15/2024	24991	GRAINGER	Disposable work gloves	(230.16)
08/15/2024	24992	LEGAL SHIELD	August employee paid legal insurance	(119.55)
08/15/2024	24993	READY REFRESH	Office water dispenser lease	(130.02)
08/15/2024	24994	RUBEN LLAMAS		-
08/15/2024	24995	SOUTHERN CA EDISON	Utilities: Electric	(3,623.80)
08/15/2024	24997	VERIZON WIRELESS	Internet services for Field Ops tablets	(277.17)
08/15/2024	24998	WESTERN MUNICIPAL WATER DISTRICT		(250.00)
08/21/2024	25000	BROWNSTEIN HYATT FARBER SCHRECK	July legal services	(51,489.76)
08/21/2024	25001	EGOSCUE LAW GROUP, INC.	July OAP legal services	(5,250.00)
08/21/2024	25002	GREAT AMERICA LEASING CORP.	July copy machine lease	(1,464.61)
08/21/2024	25003	KESSLER ALAIR INSURANCE SERVICES, INC.	Policy Renewal: General E&O liability	(13,651.63)
08/21/2024	25004	SANTA ANA WATERSHED PROJECT AUTHORITY	FY 25 Basin monitoring program task force contributions	(15,984.21)
08/21/2024	25005	SOCALGAS	Utilities: Gas	(50.17)
08/21/2024	25006	UNITED HEALTHCARE	September dental insurance coverage	(622.06)
08/21/2024	25007	VC3, INC.		(5,738.60)
08/21/2024	25008	VERIZON WIRELESS	Internet services and mobile broadband unlimited	(38.01)
08/21/2024	25009	VISION SERVICE PLAN	September vision insurance coverage	(48.79)
08/22/2024	25011	SANTA ANA WATERSHED PROJECT AUTHORITY	FY 25 TMDL task force	(9,454.00)
08/22/2024	25012	NAKANO, JUSTIN	Employee mileage reimbursement	(115.24)
08/22/2024	ACH8/22/24	JOHN J. SCHATZ	May-August AP legal services	(51,035.23)
08/23/2024	ACH 8/23/24	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Annual Unfunded Accrued Liability-Plan 27239	(172.92)
08/23/2024	ACH 8/23/24	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Annual Unfunded Accrued Liability-Plan 3299	(12,164.17)
08/28/2024	25013	FAVELA QUINTERO, RUBY	Employee expense reimbursements	(565.26)
08/28/2024	25014	PETTY CASH	Petty cash replenishment	(319.82)
08/28/2024	25015	RUBEN LLAMAS		(125.00)
08/28/2024	25016	CHEF DAVE'S CATERING & EVENT SERVICES	Board meeting catering services	(447.50)
08/28/2024	25017	SOUTHERN CALIFORNIA EDISON	Utilities: Electric	(302.66)
08/28/2024	25018	STANDARD INSURANCE CO.	August life and disability coverage	(988.75)
			Total for Month	**$ (284,183.85)**

Chino Basin Watermaster
Credit Card Expense Detail
August 2024

Date	Number	Description	Expense Account	Amount
08/14/2024	24983	**CALIFORNIA BANK & TRUST**		
		Microsoft Software - Software used by J. Garcia	6054 · Computer Software	(15.00)
		REV Subscription - Speech to text transcription services	6112 · Subscriptions/Publications	(29.99)
		Mariscos Kikas Inc. - Lunch meeting E. Tellez Foster and H. Dyer	6141.1 · Meeting Supplies	(34.34)
		Panera Bread - CBWM OPS meeting	6141.1 · Meeting Supplies	(75.65)
		FedEx - Mailing	6042 · Postage - General	(37.70)
		Bamboo HR - HRIS and Timekeeping System	6061.2 · HRIS System	(230.14)
		Amazon - Toner Magenta	6031.7 · General Office Supplies	(124.57)
		Amazon - Farewell Event for A. Moore	6031.7 · General Office Supplies	(11.37)
		Amazon - Farewell Event for A. Moore	6031.7 · General Office Supplies	(13.93)
		Amazon - Farewell Event for A. Moore	6031.7 · General Office Supplies	(21.29)
		Nothing Bundt Cake - Farewell dessert for A. Moore	6141.1 · Meeting Supplies	(60.29)
		Amazon - Misc. office supplies	6031.7 · General Office Supplies	(215.87)
		Chipotle - Farewell Event for A. Moore	6141.1 · Meeting Supplies	(347.24)
		Amazon - Water bottle for E. Vides	6031.7 · General Office Supplies	(29.08)
		BlueHost - Monthly Software Renewal - Standard VPN Server with cPanel	6054 · Computer Software	(91.99)
		LinkedIn - Premium Career Monthly Subscription	6112 · Subscriptions/Publications	(39.99)
		Amazon - Wiper blades for work truck	6177 · Vehicle Repairs & Maintenanc	(44.80)
		Amazon - Misc. office supplies	6031.7 · General Office Supplies	(37.69)
		Amazon - Toner Cyan	6031.7 · General Office Supplies	(125.95)
		Amazon - Toner Black	6031.7 · General Office Supplies	(117.22)
		Amazon - Labels	6031.7 · General Office Supplies	(25.85)
		Amazon - Truck door part	6177 · Vehicle Repairs & Maintenanc	(44.75)
		Amazon - Keyboard	6031.7 · General Office Supplies	(51.73)
		Amazon - Manila folders	6031.7 · General Office Supplies	(28.97)
		The Back Abbey - Lunch meeting T. Corbin and B. Bowcock	6141.1 · Meeting Supplies	(57.18)
		Home Depot - Office plants, soil, and planters	6031.7 · General Office Supplies	(304.11)
		Mestiza Coffeehouse - Breakfast meeting T. Corbin, S. Burton, M. Martinez	6141.1 · Meeting Supplies	(29.60)
		Biaani' Café & Kitchen - Breakfast meeting T. Corbin, S. Elie	6141.1 · Meeting Supplies	(30.77)
		Lowes - Plant saucer	6031.7 · General Office Supplies	(52.37)
			Total for Month	**$ (2,329.43)**

Chino Basin Watermaster

Combining Schedule of Revenues, Expenses & Changes in Net Assets

For the Period of July 1, 2024 through August 31, 2024

(Unaudited)

	JUDGMENT ADMIN.	OPTIMUM BASIN MGMT.	TOTAL JUDGMENT ADMIN & OBMP	POOL ADMINISTRATION & SPECIAL PROJECTS			GROUND WATER REPLENISH.	GRAND TOTALS	ADOPTED BUDGET 2024-2025 WITH CARRYOVER
				AP POOL	OAP POOL	ONAP POOL			
Administrative Revenues:									
Administrative Assessments	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,833,780
Interest Revenue	-	75,613	75,613	2,958	11,978	560	1,537	92,646	478,500
Groundwater Replenishment	-	-	-	-	-	-	-	-	-
Mutual Agency Project Revenue	191,073	-	191,073	-	-	-	-	191,073	191,070
Miscellaneous Income	1,407	-	1,407	-	-	-	-	1,407	-
Total Administrative Revenues	**192,480**	**75,613**	**268,093**	**2,958**	**11,978**	**560**	**1,537**	**285,126**	**10,503,350**
Administrative & Project Expenditures:									
Watermaster Administration	534,372	-	534,372	-	-	-	-	534,372	2,528,540
Watermaster Board-Advisory Committee	47,257	-	47,257	-	-	-	-	47,257	422,420
Optimum Basin Mgmt Administration	-	146,198	146,198	-	-	-	-	146,198	1,437,940
OBMP Project Costs	-	542,433	542,433	-	-	-	-	542,433	4,971,020
Pool Legal Services	-	-	-	31,091	5,250	1,309	-	37,650	-
Pool Meeting Compensation	-	-	-	-	3,875	500	-	4,375	-
Pool Special Projects	-	-	-	-	9,454	-	-	9,454	-
Pool Administration	-	-	-	-	-	-	-	-	370,660
Debt Service	-	-	-	-	-	-	-	-	772,770
Agricultural Expense Transfer [1]	-	-	-	18,579	(18,579)	-	-	-	-
Replenishment Water Assessments	-	-	-	-	-	-	-	-	180,234
Total Administrative Expenses	**581,629**	**688,632**	**1,270,260**	**49,670**	**-**	**1,809**	**-**	**1,321,739**	**10,683,584**
Net Ordinary Income	**(389,148)**	**(613,019)**	**(1,002,167)**	**(46,712)**	**11,978**	**(1,249)**	**1,537**	**(1,036,613)**	**(180,234)**
Other Income/(Expense)									
Refund-Recharge Debt Service	-	-	-	-	-	-	-	-	-
Carryover Budget*	-	-	-	-	-	-	-	-	454,875
Net Other Income/(Expense)	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**454,875**
Net Transfers To/(From) Reserves	**$ (389,148)**	**$ (613,019)**	**$ (1,002,167)**	**$ (46,712)**	**$ 11,978**	**$ (1,249)**	**$ 1,537**	**$ (1,036,613)**	**$ 274,640**
Net Assets, July 1, 2024			8,794,214	555,405	1,404,964	65,733	180,234	11,000,551	
Refund-Excess Operating Reserves			-					-	
Net Assets, End of Period			**7,792,047**	**508,693**	**1,416,942**	**64,485**	**181,771**	**9,963,937**	
Pool Assessments Outstanding				(86,315)	(586,852)	-			
Pool Fund Balance				**$ 422,377**	**$ 830,090**	**$ 64,485**			

[1] Fund balance transfer as agreed to in the Peace Agreement.

*Carryover budget will be updated once the FY 2023-24 has been finalized.

Chino Basin Watermaster

Treasurer's Report

August 2024

	Type	Monthly Yield	Cost	Market	% Total
Cash & Investments					
Local Agency Investment Fund (LAIF) *	Investment	4.58%	$ 643,374	$ 641,003	5.9%
CA CLASS Prime Fund **	Investment	5.41%	9,842,483	$ 9,843,517	90.6%
Bank of America	Checking		376,671	376,671	3.5%
Bank of America	Payroll		-	-	0.0%
Total Cash & Investments			**$ 10,862,528**	**$ 10,861,191**	**100.0%**

* The LAIF Market Value factor is updated quarterly in September, December, March, and June.

** The CLASS Prime Fund Net Asset Value factor is updated monthly.

Certification

I certify that (1) all investment actions executed since the last report have been made in full compliance with Chino Basin Watermaster's Investment Policy, and (2) Funds on hand are sufficient to meet all foreseen and planned administrative and project expenditures for the next six months.

Anna Nelson, Director of Administration

Prepared By:
Daniela Uriarte, Senior Accountant

Chino Basin Watermaster
Budget to Actual
For the Period July 1, 2024 to August 31, 2024
(Unaudited)

		August 2024	YTD Actual	FY 25 Adopted Budget with Carryover	$ Over / (Under) Budget	% of Budget
1	**Administration Revenue**					
2	Local Agency Subsidies	$ -	$ 191,073	$ 191,070	$ 3	100%
3	Admin Assessments-Appropriative Pool	-	-	9,521,030	(9,521,030)	0%
4	Admin Assessments-Non-Ag Pool	-	-	312,750	(312,750)	0%
5	**Total Administration Revenue**	**-**	**191,073**	**10,024,850**	**(9,833,777)**	**2%**
6	**Other Revenue**					
7	Appropriative Pool-Replenishment	-	-	-	-	N/A
8	Non-Ag Pool-Replenishment	-	-	-	-	N/A
9	Interest Income	36,565	75,613	478,500	(402,887)	16%
10	Miscellaneous Income	-	1,407	-	1,407	N/A
11	Carryover Budget	-	-	454,875	(454,875)	0%
12	**Total Other Revenue**	**36,565**	**77,020**	**933,375**	**(856,354)**	**8%**
13	**Total Revenue**	**36,565**	**268,093**	**10,958,225**	**(10,690,132)**	**2%**
14	**Judgment Administration Expense**					
15	Judgment Administration	34,900	79,632	721,010	(641,378)	11%
16	Admin. Salary/Benefit Costs	87,253	208,853	1,032,120	(823,267)	20%
17	Office Building Expense	18,236	41,181	234,470	(193,289)	18%
18	Office Supplies & Equip.	2,526	5,038	46,760	(41,722)	11%
19	Postage & Printing Costs	1,643	3,600	32,950	(29,350)	11%
20	Information Services	11,663	18,626	232,530	(213,904)	8%
21	Contract Services	903	10,992	111,460	(100,468)	10%
22	Watermaster Legal Services	51,713	73,429	414,060	(340,631)	18%
23	Insurance	13,457	38,572	50,950	(12,378)	76%
24	Dues and Subscriptions	210	280	25,900	(25,620)	1%
25	Watermaster Administrative Expenses	549	1,184	9,630	(8,446)	12%
26	Field Supplies	290	520	3,200	(2,680)	16%
27	Travel & Transportation	2,537	65,254	104,960	(39,706)	62%
28	Training, Conferences, Seminars	2,029	2,529	49,370	(46,842)	5%
29	Advisory Committee Expenses	5,740	5,740	134,130	(128,390)	4%
30	Watermaster Board Expenses	19,029	41,516	288,290	(246,774)	14%
31	ONAP - WM & Administration	4,050	4,373	120,940	(116,567)	4%
32	OAP - WM & Administration	6,227	6,550	124,220	(117,670)	5%
33	Appropriative Pool- WM & Administration	16,442	21,180	125,500	(104,320)	17%
34	Allocated G&A Expenditures	(27,131)	(47,420)	(540,830)	493,410	9%
35	**Total Judgment Administration Expense**	**252,266**	**581,629**	**3,321,620**	**(2,739,991)**	**18%**
36	**Optimum Basin Management Plan (OBMP)**					
37	Optimum Basin Management Plan	73,902	146,198	1,437,940	(1,291,742)	10%
38	Groundwater Level Monitoring	29,978	60,473	585,050	(524,577)	10%
39	Program Element (PE)2- Comp Recharge	11,344	33,722	1,774,300	(1,740,578)	2%
40	PE3&5-Water Supply/Desalte	840	(27,354)	122,010	(149,364)	-22%
41	PE4- Management Plan	75,362	162,215	412,400	(250,185)	39%
42	PE6&7-CoopEfforts/SaltMgmt	111,077	122,006	669,380	(547,374)	18%
43	PE8&9-StorageMgmt/Conj Use	81,452	143,950	867,050	(723,100)	17%
44	Recharge Improvements	-	-	772,770	(772,770)	0%
45	Administration Expenses Allocated-OBMP	10,470	17,723	232,750	(215,027)	8%
46	Administration Expenses Allocated-PE 1-9	16,662	29,697	308,080	(278,383)	10%
47	**Total OBMP Expense**	**411,086**	**688,632**	**7,181,730**	**(6,493,098)**	**10%**
48	**Other Expense**					
49	Groundwater Replenishment	-	-	180,234	(180,234)	0%
50	**Total Other Expense**	**-**	**-**	**180,234**	**(180,234)**	**0%**
51	**Total Expenses**	**663,352**	**1,270,260**	**10,683,584**	**(9,413,324)**	**12%**
52	**Increase / (Decrease) to Reserves**	**$ (626,787)**	**$ (1,002,167)**	**$ 274,640**	**$ (1,276,807)**	

Budget to Actual

The Budget to Actual report summarizes the operating and non-operating revenues and expenses of Chino Basin Watermaster for the fiscal year-to-date (YTD). Columns are included for current monthly and YTD activity shown comparatively to the FY 25 adopted budget. The final two columns indicate the amount over or under budget, and the YTD percentage of total budget used.

Revenues

Lines 1-5 Administration Revenue – Includes local agency subsidies and administrative assessment for the Appropriative, Agricultural and Non-Agricultural Pools. Below is a summary of notable account variances at month end:

- Line 2 Local Agency Subsidies includes the annual Dy Year Yield (DYY) administrative fee received. This account is at 100% of budget due to the timing of payment.

Lines 6-12 Other Revenue – Includes Pool replenishment assessments, interest income, miscellaneous income, and carryover budget from prior years.

Expenses

Lines 14-35 Judgment Administration Expense – Includes Watermaster general administrative expenses, contract services, insurance, office and other administrative expenses. Below is a summary of notable account variances at month end:

- Line 16 Admin Salary/Benefit Costs includes wages and benefits for Watermaster administrative staff. The account is slightly over budget due to vacation and severance payouts done in July.
- Line 23 Insurance includes general liability insurance, directors' and officers' liability, municipalities coverage, environmental pollution liability and other various insurance policies. The account is at 76% of budget due to the timing of policy renewals.
- Line 27 Travel & Transportation includes travel and transportation costs related to Watermaster business, not related to conferences and seminars, vehicle fuel, repairs and maintenance, and vehicle purchases. The account is at 62% of budget due to the timing of the new field vehicle purchase.

Lines 36-47 Optimum Basin Management Plan (OBMP) Expense – Includes legal, engineering, groundwater level monitoring, allocated administrative expenses, and other expenses.

Lines 48-50 Other Expense – Includes groundwater replenishment, and various refunds as appropriate.

Pool Services Fund Accounting

Each Pool has a fund account created to pay their own legal service invoices. The legal services invoices are funded and paid using the fund accounts (8467 for the Overlying Agricultural Pool (OAP), 8567 for the Overlying Non-Agricultural Pool (ONAP), and 8367 for the Appropriate Pool (AP)). Along with the legal services fund account for the OAP (8467), the OAP also has two other fund accounts for Ag Pool Meeting Attendance expenses (8470), and Special Projects expenses (8471). The ONAP also has a meeting compensation fund account (8511). Additionally, the OAP has a reserve fund that is held by Watermaster and spent at the direction of the OAP. The AP also has account 8368 relating to the Tom Harder contract. These fund accounts are replenished at the direction of each Pool, and the legal service invoices are approved by the Pool leadership and when paid by Watermaster, are deducted from the existing fund account balances. If the fund account for any pool reaches zero, no further payments can be paid from the fund and a replenishment action must be initiated by the Pool.

The following tables detail the fund balance accounts as of August 31, 2024 (continued next page):

Fund Balance For Non-Agricultural Pool Account 8567 - Legal Services		
Beginning Balance July 1, 2024:	$	63,483.09
Additions:		
Interest Earnings		560.41
Subtotal Additions:		560.41
Reductions:		
Invoices paid July 2024 - Aug. 2024		(1,309.00)
Subtotal Reductions:		(1,309.00)
Available Fund Balance as of Aug. 31, 2024	**$**	**62,734.50**

Fund Balance For Appropriative Pool Account 8367 - Legal Services		
Beginning Balance July 1, 2024:	$	(9,472.87)
Additions:		
Interest Earnings		2,957.76
Subtotal Additions:		2,957.76
Reductions:		
Invoices paid July 2024 - Aug. 2024		(31,091.23)
Subtotal Reductions:		(31,091.23)
Available Fund Balance as of Aug. 31, 2024	**$**	**(37,606.34)**

Fund Balance For Non-Agricultural Pool Account 8511 - Meeting Compensation		
Beginning Balance July 1, 2024:	$	2,250.00
Reductions:		
Compensation paid July 2024 - Aug. 2024		(500.00)
Subtotal Reductions:		(500.00)
Available Fund Balance as of Aug. 31, 2024	**$**	**1,750.00**

Fund Balance For Appropriative Pool Account 8368 - Tom Harder Contract		
Beginning Balance July 1, 2024:	$	20,577.61
Reductions:		
Invoices paid July 2024 - Aug. 2024		-
Subtotal Reductions:		-
Available Fund Balance as of Aug. 31, 2024	**$**	**20,577.61**

Pool Services Fund Accounting – Cont.

Fund Balance for Agricultural Pool Account 8467 - Legal Services (Held by AP)		
Beginning Balance July 1, 2024*:	$	388,647.51
Reductions:		
Invoices paid July 2024 - Aug. 2024		(5,250.00)
Subtotal Reductions:		(5,250.00)
Available Fund Balance as of Aug. 31, 2024	**$**	**383,397.51**

*Balance includes payments received totaling $262,832.38 for Settlement Agreement outstanding invoices issued Apr. 15, 2022 and Jun. 17, 2022.

Agricultural Pool Reserve Funds As shown on the Combining Schedules		
Beginning Balance July 1, 2024*:	$	818,112.17
Additions:		
YTD Interest earned on Ag Pool Funds FY 25		11,978.03
Transfer of Funds from AP to Special Fund for Legal Service Invoices		5,250.00
Total Additions:		17,228.03
Reductions:		
Legal service invoices paid July 2024 - Aug. 2024		(5,250.00)
Total Reductions		(5,250.00)
Agricultural Pool Reserve Funds Balance as of Aug. 31, 2024:	**$**	**830,090.20**

*Balance includes payments of $102,245.10 and $42,025.61 received in FY 24 for outstanding invoices issued Sep. 9, 2022 and Apr. 20, 2023 for Ag Pool legal services, respectively.

Fund Balance For Agricultural Pool Account 8470 - Meeting Compensation (Held by AP)		
Beginning Balance July 1, 2024:	$	17,694.65
Reductions:		
Compensation paid July 2024 - Aug. 2024		(3,875.00)
Subtotal Reductions:		(3,875.00)
Available Fund Balance as of Aug. 31, 2024	**$**	**13,819.65**

Fund Balance For Agricultural Pool Account 8471 - Special Projects (Held by AP)		
Beginning Balance July 1, 2024:	$	51,643.00
Reductions:		
Invoices paid July 2024 - Aug. 2024		(9,454.00)
Budget Transfers[1]		-
Subtotal Reductions:		(9,454.00)
Available Fund Balance as of Aug. 31, 2024	**$**	**42,189.00**

Watermaster Salary Expenses

The following table details the Year-To-Date (YTD) Actual Watermaster burdened salary costs compared to the FY 25 adopted budget. The "$ Over Budget" and the "% of Budget" columns are a comparison of the YTD actual to the annual budget.

	Year to Date Actual	FY 24-25 Budget	$ Over / (Under) Budget	% of Budget
WM Salary Expense				
5901.1 · Judgment Admin - Doc. Review	6,870	93,860	(86,990)	7.3%
5901.3 · Judgment Admin - Field Work	1,716	11,860	(10,144)	14.5%
5901.5 · Judgment Admin - General	2,705	81,090	(78,385)	3.3%
5901.7 · Judgment Admin - Meeting	6,150	39,710	(33,561)	15.5%
5901.9 · Judgment Admin - Reporting	946	13,890	(12,944)	6.8%
5910 · Judgment Admin - Court Coord./Attendance	899	16,970	(16,071)	5.3%
5911 · Judgment Admin - Exhibit G	-	6,400	(6,400)	0.0%
5921 · Judgment Admin - Production Monitoring	-	5,440	(5,440)	0.0%
5931 · Judgment Admin - Recharge Applications	683	-	683	100.0%
5941 · Judgment Admin - Reporting	-	2,140	(2,140)	0.0%
5951 · Judgment Admin - Rules & Regs	-	11,260	(11,260)	0.0%
5961 · Judgment Admin - Safe Yield	8,945	9,510	(565)	94.1%
5971 · Judgment Admin - Storage Agreements	125	13,000	(12,875)	1.0%
5981 · Judgment Admin - Water Accounting/Database	18,396	108,290	(89,894)	17.0%
5991 · Judgment Admin - Water Transactions	3,357	5,330	(1,973)	63.0%
6011.11 · WM Staff - Overtime	1,631	18,000	(16,369)	9.1%
6011.10 · Admin - Accounting	37,936	278,330	(240,394)	13.6%
6011.15 · Admin - Building Admin	11,753	31,200	(19,447)	37.7%
6011.20 · Admin - Conference/Seminars	4,332	58,530	(54,198)	7.4%
6011.25 · Admin - Document Review	7,524	2,620	4,904	287.2%
6011.50 · Admin - General	56,095	362,560	(306,465)	15.5%
6011.60 · Admin - HR	20,097	50,450	(30,353)	39.8%
6011.70 · Admin - IT	9,476	34,070	(24,594)	27.8%
6011.80 · Admin - Meeting	16,963	39,760	(22,797)	42.7%
6011.90 · Admin - Team Building	1,215	41,550	(40,335)	2.9%
6011.95 · Admin - Training (Give/Receive)	880	64,160	(63,280)	1.4%
6017· Temporary Services	-	26,040	(26,040)	0.0%
6201 · Advisory Committee	3,110	82,850	(79,740)	3.8%
6301 · Watermaster Board	21,329	83,910	(62,581)	25.4%
8301 · Appropriative Pool	16,592	67,280	(50,688)	24.7%
8401 · Agricultural Pool	3,364	66,005	(62,641)	5.1%
8501 · Non-Agricultural Pool	1,559	62,725	(61,166)	2.5%
6901.1 · OBMP - Document Review	8,221	95,294	(87,073)	8.6%
6901.3 · OBMP - Field Work	356	50,870	(50,514)	0.7%
6901.5 · OBMP - General	9,479	81,120	(71,641)	11.7%
6901.7 · OBMP - Meeting	5,187	80,360	(75,173)	6.5%
6901.9 · OBMP - Reporting	1,523	11,040	(9,517)	13.8%
7104.1 · PE1 - Monitoring Program	30,329	275,499	(245,170)	11.0%
7201 · PE2 - Comprehensive Recharge	7,065	71,753	(64,688)	9.8%
7301 · PE3&5 - Water Supply/Desalter	-	9,515	(9,515)	0.0%
7301.1 · PE5 - Reg. Supply Water Prgm.	840	9,510	(8,671)	8.8%
7401 · PE4 - MZ1 Subsidence Mgmt. Plan	-	14,040	(14,040)	0.0%
7501 · PE6 - Coop. Programs/Salt Mgmt.	712	9,514	(8,802)	7.5%
7501.1 · PE 7 - Salt Nutrient Mgmt. Plan	-	9,510	(9,510)	0.0%
7601 · PE8&9 - Storage Mgmt./Recovery	2,669	22,520	(19,851)	11.9%
Subtotal WM Staff Costs	**332,297**	**2,529,335**	**(2,197,038)**	**13%**
60184.1 · Administrative Leave	-	6,550	(6,550)	0.0%
60185 · Vacation	35,781	90,280	(54,500)	39.6%
60185.1 · Comp Time	4,071	-	4,071	100.0%
60186 · Sick Leave	7,241	79,450	(72,209)	9.1%
60187 · Holidays	-	-	-	0.0%
Subtotal WM Paid Leaves	**47,092**	**176,280**	**(129,188)**	**27%**
Total WM Salary Costs	**379,389**	**2,705,615**	**(2,326,226)**	**14.0%**

Engineering

The following table details the Year-To-Date (YTD) Actual Engineering costs compared to the FY 24 adopted budget. The "$ Over Budget" and the "% of Budget" columns are a comparison of the YTD actual to the annual budget.

	Year to Date Actual	FY 24-25 Budget	$ Over / (Under) Budget	% of Budget
Engineering Services Costs				
5901.8 · Judgment Admin - Meetings-Engineering Services	$ -	$ 37,066	$ (37,066)	0.0%
5906.71 · Judgment Admin - Data Requests-CBWM Staff	11,489	101,048	(89,559)	11.4%
5906.72 · Judgment Admin - Data Requests-Non-CBWM Staff	5,175	37,008	(31,834)	14.0%
5925 · Judgment Admin - Ag Production & Estimation	6,297	31,096	(24,799)	20.3%
5935 · Judgment Admin - Mat'l Physical Injury Requests	-	39,459	(39,459)	0.0%
5945 · Judgment Admin - WM Annual Report Preparation	5,882	16,924	(11,043)	34.8%
5965 · Judgment Admin - Support Data Collection & Mgmt Process	-	39,659	(39,659)	0.0%
6206 · Advisory Committee Meetings-WY Staff	1,324	23,510	(22,186)	5.6%
6306 · Watermaster Board Meetings-WY Staff	2,965	23,510	(20,545)	12.6%
8306 · Appropriative Pool Meetings-WY Staff	3,369	23,510	(20,141)	14.3%
8406 · Agricultural Pool Meetings-WY Staff	1,967	23,510	(21,543)	8.4%
8506 · Non-Agricultural Pool Meetings-WY Staff	1,596	23,510	(21,914)	6.8%
6901.8 · OBMP - Meetings-WY Staff	7,191	37,066	(29,875)	19.4%
6901.95 · OBMP - Reporting-WY Staff	19,682	62,606	(42,925)	31.4%
6906 · OBMP Engineering Services - Other	15,559	51,440	(35,881)	30.2%
6906.1 · OBMP Watermaster Model Update	-	67,596	(67,596)	0.0%
6906.21 · State of the Basin Report	-	195,188	(195,188)	0.0%
7104.3 · Grdwtr Level-Engineering	29,720	254,627	(224,907)	11.7%
7104.8 · Grdwtr Level-Contracted Services	-	26,174	(26,174)	0.0%
7104.9 · Grdwtr Level-Capital Equipment	-	17,000	(17,000)	0.0%
7202 · PE2-Comp Recharge-Engineering Services	2,135	23,496	(21,362)	9.1%
7202.2 · PE2-Comp Recharge-Engineering Services	24,523	75,944	(51,421)	32.3%
7302 · PE3&5-PBHSP Monitoring Program	(28,193)	73,305	(101,498)	-38.5%
7303 · PE3&5-Engineering - Other	-	16,180	(16,180)	0.0%
7306 · PE3&5-Engineering - Outside Professionals	-	6,500	(6,500)	0.0%
7402 · PE4-Engineering	94,047	281,239	(187,192)	33.4%
7402.10 · PE4-Northwest MZ1 Area Project	45,480	16,656	28,824	273.1%
7403 · PE4-Eng. Services-Contracted Services-InSar	22,000	39,600	(17,600)	55.6%
7406 · PE4-Engineering Services-Outside Professionals	-	38,600	(38,600)	0.0%
7408 · PE4-Engineering Services-Network Equipment	-	17,555	(17,555)	0.0%
7502 · PE6&7-Engineering	50,119	398,309	(348,190)	12.6%
7505 · PE6&7-Laboratory Services	26,400	61,242	(34,842)	43.1%
7510 · PE6&7-IEUA Salinity Mgmt. Plan	3,526	-	3,526	100.0%
7511 · PE6&7-SAWBMP Task Force-50% IEUA	-	27,067	(27,067)	0.0%
7517 · Surface Water Monitoring Plan-Chino Creek - 50% IEUA	(8,164)	33,574	(41,738)	-24.3%
7520 · Preparation of Water Quality Mgmt. Plan	-	130,164	(130,164)	0.0%
7610 · PE8&9-Support 2020 Mgmt. Plan	-	32,585	(32,585)	0.0%
7614 · PE8&9-Support Imp. Safe Yield Court Order	141,281	768,963	(627,683)	18.4%
7615 · PE8&9-Develop 2025 Storage Plan	-	42,632	(42,632)	0.0%
Total Engineering Services Costs	**$ 485,368**	**$ 3,215,118**	**$ (2,729,750)**	**15.1%**

Legal

The following table details the YTD Brownstein Hyatt Farber Schreck (BHFS) expenses and costs compared to the FY 24 adopted budget. The "$ Over Budget" and the "% of Budget" columns are a comparison of the YTD actual to the annual budget.

	Year to Date Actual	FY 24-25 Budget	$ Over / (Under) Budget	% of Budget
6070 · Watermaster Legal Services				
6071 · BHFS Legal - Court Coordination	$ 15,432	$ 144,040	$ (128,608)	10.7%
6072 · BHFS Legal - Rules & Regulations	-	10,500	(10,500)	0.0%
6073 · BHFS Legal - Personnel Matters	39,304	28,150	11,154	139.6%
6074 · BHFS Legal - Interagency Issues	-	40,540	(40,540)	0.0%
6077 · BHFS Legal - Party Status Maintenance	-	13,590	(13,590)	0.0%
6078 · BHFS Legal - Miscellaneous (Note 1)	18,694	177,240	(158,546)	10.5%
Total 6070 · Watermaster Legal Services	**73,429**	**414,060**	**(340,631)**	**17.7%**
6275 · BHFS Legal - Advisory Committee	1,306	27,770	(26,464)	4.7%
6375 · BHFS Legal - Board Meeting	11,388	88,705	(77,317)	12.8%
6375.1 · BHFS Legal - Board Workshop(s)	-	14,000	(14,000)	0.0%
8375 · BHFS Legal - Appropriative Pool	1,218	34,710	(33,492)	3.5%
8475 · BHFS Legal - Agricultural Pool	1,218	34,705	(33,487)	3.5%
8575 · BHFS Legal - Non-Ag Pool	1,218	34,705	(33,487)	3.5%
Total BHFS Legal Services	**16,348**	**234,595**	**(218,247)**	**7.0%**
6907.3 · WM Legal Counsel				
6907.31 · Archibald South Plume	-	12,565	(12,565)	0.0%
6907.32 · Chino Airport Plume	-	12,565	(12,565)	0.0%
6907.33 · Desalter/Hydraulic Control	-	38,680	(38,680)	0.0%
6907.34 · Santa Ana River Water Rights	57	21,405	(21,348)	0.3%
6907.36 · Santa Ana River Habitat	-	31,280	(31,280)	0.0%
6907.38 · Reg. Water Quality Cntrl Board	-	63,200	(63,200)	0.0%
6907.39 · Recharge Master Plan	41,640	14,270	27,370	291.8%
6907.41 · Prado Basin Habitat Sustainability	-	10,290	(10,290)	0.0%
6907.44 · SGMA Compliance	114	10,290	(10,176)	1.1%
6907.45 · OBMP Update	-	177,240	(177,240)	0.0%
6907.47 · 2020 Safe Yield Reset	17,203	80,190	(62,987)	21.5%
6907.48 · Ely Basin Investigation	4,003	64,890	(60,887)	6.2%
6907.90 · WM Legal Counsel - Unanticipated	-	38,885	(38,885)	0.0%
Total 6907 · WM Legal Counsel	**63,017**	**575,750**	**(512,733)**	**10.9%**
Total Brownstein, Hyatt, Farber, Schreck Costs	**$ 152,794**	**$ 1,224,405**	**$ (1,071,612)**	**12.5%**

Optimum Basin Management Plan (OBMP)

The following table details the Year-To-Date (YTD) Actual OBMP costs compared to the FY 24 adopted budget. The "$ Over Budget" and the "% of Budget" columns are a comparison of the YTD actual to the annual budget.

	Year to Date Actual	FY 24-25 Budget	$ Over / (Under) Budget	% of Budget
6900 · Optimum Basin Mgmt Plan				
6901.1 · OBMP - Document Review-WM Staff	$ 8,221	$ 95,294	$ (87,073)	8.6%
6901.3 · OBMP - Field Work-WM Staff	356	50,870	(50,514)	0.7%
6901.5 · OBMP - General-WM Staff	9,479	81,120	(71,641)	11.7%
6901.7 · OBMP - Meeting-WM Staff	5,187	80,360	(75,173)	6.5%
6901.8 · OBMP - Meeting-West Yost	7,191	37,066	(29,875)	19.4%
6901.9 · OBMP - Reporting-WM Staff	1,523	11,040	(9,517)	13.8%
6901.95 · OBMP - Reporting-West Yost	19,682	62,606	(42,925)	31.4%
Total 6901 · OBMP WM and West Yost Staff	**51,638**	**418,356**	**(366,718)**	**12.3%**
6903 · OBMP - SAWPA				
6903 · OBMP - SAWPA Group	15,984	15,990	(6)	100.0%
Total 6903 · OBMP - SAWPA	**15,984**	**15,990**	**(6)**	**100.0%**
6906 · OBMP Engineering Services				
6906.1 · OBMP - Watermaster Model Update	-	67,596	(67,596)	0.0%
6906.21 · State of the Basin Report	-	195,188	(195,188)	0.0%
6906 · OBMP Engineering Services - Other	15,559	51,440	(35,881)	30.2%
Total 6906 · OBMP Engineering Services	**15,559**	**314,224**	**(298,665)**	**5.0%**
6907 · OBMP Legal Fees				
6907.31 · Archibald South Plume	-	12,565	(12,565)	0.0%
6907.32 · Chino Airport Plume	-	12,565	(12,565)	0.0%
6907.33 · Desalter/Hydraulic Control	-	38,680	(38,680)	0.0%
6907.34 · Santa Ana River Water Rights	57	21,405	(21,348)	0.3%
6907.36 · Santa Ana River Habitat	-	31,280	(31,280)	0.0%
6907.38 · Reg. Water Quality Cntrl Board	-	63,200	(63,200)	0.0%
6907.39 · Recharge Master Plan	41,640	14,270	27,370	291.8%
6907.41 · Prado Basin Habitat Sustainability	-	10,290	(10,290)	0.0%
6907.44 · SGMA Compliance	114	10,290	(10,176)	1.1%
6907.45 · OBMP Update	-	177,240	(177,240)	0.0%
6907.47 · 2020 Safe Yield Reset	17,203	80,190	(62,987)	21.5%
6907.48 · Ely Basin Investigation	4,003	64,890	(60,887)	6.2%
6907.49 · San Sevaine Basin Discharge	-	110,080	(110,080)	0.0%
6907.90 · WM Legal Counsel - Unanticipated	-	38,885	(38,885)	0.0%
Total 6907 · OBMP Legal Fees	**63,017**	**685,830**	**(622,813)**	**9.2%**
6909 · OBMP Other Expenses				
6909.6 · OBMP Expenses - Miscellaneous	-	3,540	(3,540)	0.0%
Total 6909 · OBMP Other Expenses	**-**	**3,540**	**(3,540)**	**0.0%**
Total 6900 · Optimum Basin Mgmt Plan	**$ 146,198**	**$ 1,437,940**	**$ (1,291,742)**	**10.2%**

Judgment Administration

The following table details the Year-To-Date (YTD) Actual Judgment Administration costs compared to the FY 24 adopted budget. The "$ Over Budget" and the "% of Budget" columns are a comparison of the YTD actual to the annual budget.

	Year to Date Actual	FY 24-25 Budget	$ Over / (Under) Budget	% of Budget
5901 · Admin-WM Staff				
5901.1 · Admin-Doc. Review-WM Staff	$ 6,870	$ 93,860	$ (86,990)	7.3%
5901.3 · Admin-Field Work-WM Staff	1,716	11,860	(10,144)	14.5%
5901.5 · Admin-General-WM Staff	2,705	81,090	(78,385)	3.3%
5901.7 · Admin-Meeting-WM Staff	6,150	39,710	(33,561)	15.5%
5901.8 · Admin-Meeting - West Yost	-	37,066	(37,066)	0.0%
5901.9 · Admin-Reporting-WM Staff	946	13,890	(12,944)	6.8%
Total 5901 · Admin-WM Staff	**18,386**	**277,476**	**(259,090)**	**6.6%**
5900 · Judgment Admin Other Expenses				
5906.71 · Admin-Data Req-CBWM Staff	11,489	101,048	(89,559)	11.4%
5906.72 · Admin-Data Req-Non CBWM Staff	5,175	37,008	(31,834)	14.0%
5910 · Court Coordination/Attend-WM	899	16,970	(16,071)	5.3%
5911 · Exhibit G-WM Staff	-	6,400	(6,400)	0.0%
5921 · Production Monitoring-WM Staff	-	5,440	(5,440)	0.0%
5925 · Ag Prod & Estimation-West Yost	6,297	31,096	(24,799)	20.3%
5931 · Recharge Applications-WM Staff	683	-	683	100.0%
5935 · Admin-Mat'l Phy Inj Requests	-	39,459	(39,459)	0.0%
5941 · Reporting-WM Staff	-	2,140	(2,140)	0.0%
5945 · WM Annual Report Prep-West Yost	5,882	16,924	(11,043)	34.8%
5951 · Rules & Regs-WM Staff	-	11,260	(11,260)	0.0%
5961 · Safe Yield-WM Staff	8,945	9,510	(565)	94.1%
5965 · Support Data Collect-West Yost	-	39,659	(39,659)	0.0%
5971 · Storage Agreements-WM Staff	125	13,000	(12,875)	1.0%
5981 · Water Acct/Database-WM Staff	18,396	108,290	(89,894)	17.0%
5991 · Water Transactions-WM Staff	3,357	5,330	(1,973)	63.0%
Total 5900 · Judgment Admin Other Expenses	**61,246**	**443,534**	**(382,288)**	**13.8%**
Total 5900 · Judgment Administration	**$ 79,632**	**$ 721,010**	**$ (641,378)**	**11.0%**

CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730
909.484.3888 www.cbwm.org

STAFF REPORT

DATE: October 10, 2024

TO: AP/ONAP/OAP Committee Members

SUBJECT: Application: Local Storage Agreement – Appropriative Pool (Consent Calendar Item I.C.)

Issue: Consideration of application for Local Storage Agreements – Storage of Excess Carryover and Local Supplemental water by members of the Appropriative Pool in amounts to be determined as of the close of Fiscal Year 2023/24 (June 30, 2024). [Within WM Duties and Powers]

Recommendation: Recommend to the Advisory Committee to recommend to the Watermaster Board to approve the Application for Local Storage Agreement submitted on behalf of the Appropriative Pool members as presented.

Financial Impact: None.

Future Consideration
Appropriative Pool – October 10, 2024: Advice and assistance.
Non-Agricultural Pool – October 10, 2024: Advice and assistance.
Agricultural Pool – October 10, 2024: Advice and assistance.
Advisory Committee – November 21, 2024: Advice and assistance.
Watermaster Board – November 21, 2024: Approval.

BACKGROUND

The Court approved the Peace Agreement, the Optimum Basin Management Program (OBMP) Implementation Plan and the goals and objectives identified in the OBMP Phase I Report on July 13, 2000. Watermaster was ordered to proceed in a manner consistent with the Peace Agreement. Under the Peace Agreement, Watermaster approval is required for applications to store, recapture, recharge, or transfer water, as well as for applications for credits or reimbursements and Storage and Recovery Programs.

Per the Peace Agreement, Watermaster must approve applications for storage unless there is a finding of material physical injury as a result of the transaction. Where the request for Watermaster approval is submitted by a party to the Judgment, there is a rebuttable presumption that most of the transactions do not result in Material Physical Injury to a Party to the Judgment or the Basin (Storage and Recovery Programs do not have this presumption).

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

DISCUSSION

The Appropriative Pool has submitted an Application for Local Storage Agreement (Attachment 1) on behalf of all its members for their Local Excess Carryover and Local Supplemental storage accounts in the amounts to be determined in the upcoming 2024/2025 Assessment Package. Pursuant to the Watermaster Rules and Regulations, Article X, Section 10.11, "The Application shall not be considered by the Advisory Committee until at least twenty-one (21) days after the last of the three Pool committee meetings to consider the matter." A notice for this application was electronically distributed to stakeholders on October 4, 2024.

The 500,000 acre-feet Safe Storage Capacity threshold analyzed in the OBMP Implementation Plan PEIR has been re-examined and revised to 600,000 acre-feet, through June 30, 2021. On June 25, 2021, the Court ordered Watermaster to "manage all quantities of water held in storage in amounts from 500,000 acre-feet up to a maximum of 700,000 acre-feet until June 30, 2030, and thereafter a maximum of 620,000 acre-feet until June 30, 2035, consistent with all provisions of the Peace Agreement and the Peace II Agreement applicable to the Local Storage of water within the Basin, without limitation, subject to further order of this Court." The total water held in all stored water accounts as of June 30, 2023 was 626,751.845 acre-feet. The June 30, 2024 balances of stored water accounts will be approved in November with the adoption of the 2024/25 Assessment Package by the Board.

The storage application to be considered at this time is for the Excess Carryover and Local Supplemental storage accounts of the Appropriative Pool members whose balances have increased from the last approved 2023/24 Assessment Package.

ATTACHMENTS
1. Form 1 – Application for Local Storage Agreement – Appropriative Pool
2. Notice Forms

Form 1

APPLICATION
FOR
LOCAL STORAGE AGREEMENT

APPLICANT

Watermaster Appropriative Pool Parties with Stored Water Accounts
Name of Party

September 12, 2024
Date Requested

Date Approved

Various
Street Address

Amounts to be determined in the 2024/2025 Assessment Package Acre-feet
Amount Requested

Acre-feet
Amount Approved

Various
City

Ca.
State

Various
Zip Code

Telephone: Various

Facsimile: Various

TYPE OF WATER TO BE PLACED IN STORAGE

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

PURPOSE OF STORAGE - Check all that may apply

[x] Stabilize or reduce future water costs/assessments.
[x] Facilitate utilization of other available sources of supply.
[x] Facilitate replenishment under certain well sites.
[x] Preserve pumping right for a changed future potential use.
[x] Other, explain Any other approved purpose not listed.

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

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

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

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

WATER QUALITY AND WATER LEVELS

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

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

MATERIAL PHYSICAL INJURY

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

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

ADDITIONAL INFORMATION ATTACHED Yes [ ] No [X]

John J. Schatz
Applicant

TO BE COMPLETED BY WATERMASTER:

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM AGRICULTURAL POOL: _____

DATE OF APPROVAL FROM APPROPRIATIVE POOL: _____

HEARING DATE, IF ANY: _____

DATE OF ADVISORY COMMITTEE APPROVAL: _____

DATE OF BOARD APPROVAL: _____ Agreement #_____

CHINO BASIN WATERMASTER

NOTICE

OF

APPLICATION(S)

RECEIVED FOR

LOCAL STORAGE AGREEMENT

Date of Notice:

October 4, 2024

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

APPLICATION FOR LOCAL STORAGE AGREEMENT

The attached staff report will be included in the meeting package at the time the transfer begins the Watermaster process.

NOTICE OF APPLICATION(S) RECEIVED

Date of Application: **September 12, 2024** Date of this notice: **October 04, 2024**

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

- Notice of Application for Local Storage Agreements – Storage of Excess Carryover and Local Supplemental water by members of the Appropriative Pool in amounts to be determined as of the close of Fiscal Year 2023/24 (June 30, 2024).

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

Appropriative Pool:	October 10, 2024
Non-Agricultural Pool:	October 10, 2024
Agricultural Pool:	October 10, 2024

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

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

Unless the ***Application*** is amended, as ***Contests*** must be submitted a minimum of fourteen (14) days prior to the Advisory Committee's consideration of an ***Application,*** parties to the Judgment may file ***Contests*** to the ***Application*** with Watermaster ***within seven calendar days*** of when the last pool committee considers it. Any ***Contest*** must be in writing and state the basis of the ***Contest***.

Watermaster address:

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

Tel: (909) 484-3888
Web: www.cbwm.org

CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730
909.484.3888 www.cbwm.org

STAFF REPORT

DATE: October 10, 2024

TO: AP/ONAP/OAP Committee Members

SUBJECT: Annual Streamflow Monitoring Report for Water Rights Permit 21225 (Business Item II.A.)

Issue: The Annual Streamflow Monitoring Report for Fiscal Year 2023/24 was submitted to the Department of Fish and Wildlife on September 20, 2024. [Information Only]

Recommendation: None.

Financial Impact: None.

Future Consideration
Appropriative Pool – October 10, 2024: Information only
Non-Agricultural Pool – October 10, 2024: Information only
Agricultural Pool – October 10, 2024: Information only
Advisory Committee – October 17, 2024: Information only
Watermaster Board – October 24, 2024: Information only

BACKGROUND

Watermaster and the California Department of Fish and Wildlife agreed in 2007 that Watermaster would prepare estimates of monthly changes in discharge in each tributary of the Santa Ana River from which stormwater is diverted. Watermaster prepares an annual report describing the data and methods used to prepare those estimates, and submits the annual report to the Department of Fish and Wildlife by October 1st of each year. Each Annual Report covers the 12-month period of July 1st through June 30th.

DISCUSSION

The report describes the data and methodology used to assess stormwater diversion impacts and summarizes the diversion impact analysis for each tributary system for the FY 2023/24 reporting period. As in past years, the stormwater and dry-weather discharges diverted for recharge within the Chino Basin during the reporting period were small relative to total discharge: about 15 percent of the total estimated discharge was diverted for recharge. About 87 percent of the diversions occurred between November 1st and March 30th, during storm events.

Watermaster's diversions for recharge reduce stormwater and dry-weather discharge, improve water quality in the Santa Ana River and its Chino Basin tributaries, and reduce channel erosion in these drainages, thereby offsetting some of the increase in stormwater and dry-weather discharge resulting from the urbanization of the watershed.

West Yost will discuss additional details found in the report and answer questions.

ATTACHMENTS

1. Annual Streamflow Monitoring Report for Water Rights Permit 21225, Fiscal Year 2023/24

WEST YOST
Water. Engineered.

23692 Birtcher Drive
Lake Forest CA 92630

949.420.3030 phone
530.756.5991 fax
westyost.com

September 19, 2024

Project No.: 941-80-24-06
SENT VIA: EMAIL

Mr. Todd Corbin
Chino Basin Watermaster
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

SUBJECT: Annual Streamflow Monitoring Report for Water Rights Permit 21225, Fiscal Year 2023/24

Dear Mr. Corbin:

West Yost hereby submits the Annual Streamflow Monitoring Report for Fiscal Year (FY) 2023/24. This is the 16th Annual Report prepared pursuant to Term 20 of the Chino Basin Watermaster's (Watermaster) Water Rights Permit 21225. Per the terms of the March 20, 2007 Stipulation, Watermaster and the California Department of Fish and Wildlife (DFW) agreed that Watermaster would prepare estimates of monthly changes in discharge in each tributary of the Santa Ana River from which stormwater is diverted, prepare annual reports describing the data and methods used to prepare those estimates, and submit the annual reports to the DFW by October 1st of each year.[1] Each annual report covers the 12-month period of July 1st through June 30th.

This letter report describes the data and methodology used to assess stormwater diversion impacts and summarizes the diversion impact analysis for each tributary system for the FY 2023/24 reporting period.

As in past years, the stormwater and dry-weather discharges diverted for recharge within the Chino Basin during the reporting period were small relative to total discharge: about 12 percent of the total estimated discharge was diverted for recharge. About 75 percent of the diversions occurred between November 1st and March 30th, during storm events.

Watermaster's diversions for recharge reduce stormwater and dry-weather discharge, improve water quality in the Santa Ana River and its Chino Basin tributaries, and reduce channel erosion in these drainages, thereby offsetting some of the increase in stormwater and dry-weather discharge resulting from the urbanization of the watershed.

[1] In September 2010, Watermaster requested and the DFW approved an extension of the report due date from September 1st to October 1st of each year.

DATA COLLECTION AND METHODOLOGY

There are four main tributary systems to the Santa Ana River from which Watermaster and the Inland Empire Utilities Agency (IEUA)[2] divert stormwater and dry-weather discharges for groundwater recharge: San Antonio/Chino Creek (hereafter referred to as Chino Creek), Cucamonga Creek, Day Creek, and Etiwanda/San Sevaine Creek (hereafter referred to as San Sevaine Creek). Figure 1 shows these creeks, their drainage areas, and other significant hydrologic features. Chino Creek and Cucamonga Creek discharge directly to the Prado Dam Reservoir, while Day Creek and San Sevaine Creek discharge to the Santa Ana River upstream of the Prado Dam Reservoir. The impact of Watermaster's stormwater and dry-weather diversions is estimated relative to the reduction in discharge on each tributary system and the reduction in discharge from each tributary system to the Prado Dam Reservoir. For Chino Creek and Cucamonga Creek, these are one and the same.

Two of the four tributary systems, Chino and Cucamonga Creeks, are equipped with U.S. Geological Survey (USGS) stream gages, and average daily discharge data are available for these stations. Daily USGS data, daily stormwater and dry-weather discharge diversion data from the IEUA, and daily discharge data collected from other known point discharges (e.g., recycled and imported water discharges) are used to estimate the discharge of Chino and Cucamonga Creeks as they enter the Prado Dam Reservoir. These data are also used to reconstruct hydrographs for the tributaries as they would have been without stormwater and dry-weather discharge diversions.

Day Creek and San Sevaine Creek are not equipped with USGS gaging stations. The hydrographs for these two systems were estimated using West Yost's Waste Load Allocation Model (WLAM). The WLAM uses recharge basin and stream channel characteristics, daily precipitation, boundary inflows, and land use characteristics to estimate stormwater runoff, and subsequently routes stormwater as well as non-tributary inflows through the Santa Ana River Watershed. The WLAM was developed for and has been used by the Santa Ana Regional Water Quality Control Board (Regional Board) to evaluate the discharge and water quality impacts of existing and planned recycled water and stormwater discharges to the surface and groundwater resources of the watershed.[3] Watermaster and the City of Riverside used the WLAM to complete the only watershed-wide (system-wide) review of all appropriative water rights applications on the Santa Ana River in the 2006 State Water Resources Control Board hearing process. Watermaster most recently updated the WLAM in 2020 as part of the *2020 Safe Yield Recalculation.*[4] The updated version of the WLAM was used for this analysis, and the land use reflects 2017 conditions.

Daily discharge tables for key hydrologic components and for the aggregate of all hydrologic components are included in the enclosed appendices.

DIVERSION IMPACT ANALYSIS

During FY 2023/24, Watermaster diverted a total of 16,056 acre-feet (af) of stormwater and dry-weather discharge to recharge basins on the Chino, Cucamonga, Day, and San Sevaine tributary systems. Table 1 summarizes, by tributary, the monthly diversions for recharge at each spreading basin, as provided by the IEUA. Impact analyses of these diversions are provided below.

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[2] The IEUA operates the diversion and recharge facilities on behalf of Watermaster, pursuant to Watermaster's permit.

[3] Wildermuth Environmental, Inc. (2009). *2008 Santa Ana River Wasteload Allocation Model Report.* Prepared for the Basin Monitoring Program Task Force. May 2009.

[4] Wildermuth Environmental, Inc. (2020). *2020 Safe Yield Recalculation*. Prepared for the Chino Basin Watermaster. April 2020.

Chino Creek

The objective of this analysis is to illustrate the impact of Watermaster's diversions on flows in Chino Creek. Figure 1 shows the locations of significant points of activity on the Chino Creek tributary system, including Watermaster's points of diversion to recharge basins, USGS gaging stations, the Orange County Water District's (OCWD) OC-59 imported water turnout,[5] and the IEUA's recycled water discharge points. The impact of Watermaster's diversions of the flow in Chino Creek on discharge to the Prado Dam Reservoir is assessed at the point where recycled water from the IEUA RP-1 (Prado) recycling plant discharges to Chino Creek (see *WLAM-Estimated Points of Discharge* feature in Figure 1).[6] Because discharge to the Chino Creek tributary system from OCWD OC-59 occurs irregularly, it is not considered a part of the natural system and is not included in the reconstructed hydrograph of Chino Creek. This methodology is consistent with the Santa Ana River Watermaster's methodology of computing the annual volume-weighted TDS concentration of the Santa Ana River at the Prado Dam Reservoir.[7] The total discharge of imported water to Chino Creek through OC-59 during FY 2023/24 was about 25,773 af.

The estimated average daily discharge entering the Prado Dam Reservoir from Chino Creek is calculated from the average daily discharge measured at USGS gage 11073360 (Appendix A1) less any imported water discharges from OC-59 that were not diverted into recharge basins (Appendix A2 minus Appendix A3) plus the average daily discharge from each of the IEUA's recycled water discharge points (Carbon Canyon, RP1-Prado, and RP5) (Appendix A4). These discharges are summarized as monthly totals in rows one through four of Table 2a and are shown in detail as daily totals in Appendices A1 through A4. The resulting daily discharge time history, summarized in row five of Table 2a and shown in detail in Appendix A5, approximates actual daily discharge in Chino Creek after Watermaster's diversions and without OC-59 discharges. Note that this estimation does not account for additional stormwater flows generated by the drainage area for the Chino Creek downstream of USGS gage 11073360. The drainage area for these unaccounted-for flows is approximately 24 square miles and represents about 26 percent of the total Chino Creek drainage area. Thus, the relative impact of Watermaster's diversions is overstated.

The time history of stormwater and dry-weather discharge diversions is summarized in row six of Table 2a and shown in detail in Appendix A6. When added together, the daily discharge time histories from Appendices A5 and A6 yield what would have been the approximate daily discharge time history in Chino Creek had Watermaster not diverted stormwater and dry-weather flows for recharge. This reconstructed discharge time history is summarized in row seven of Table 2a and shown in detail in Appendix A7. The percent reduction in discharge entering the Prado Dam Reservoir due to Watermaster diversions relative to the estimated discharge without diversions is summarized in row eight of Table 2a.

[5] The Metropolitan Water District of Southern California can supply the OCWD with State Water Project water through the OC-59 connection, which discharges water to San Antonio Creek, and subsequently to Chino Creek, through the Prado Basin, and into Orange County via the Santa Ana River. The IEUA, through an agreement with the OCWD, can divert water discharged at the OC-59 connection to the recharge facilities along the Chino Creek tributary system.

[6] Note that the IEUA RP-1 recycling plant has two discharge locations: one to Chino Creek (RP-1 Prado) and one to Cucamonga Creek (RP-1 Cucamonga).

[7] See for example, FIFTY-THIRD ANNUAL REPORT OF THE SANTA ANA RIVER WATERMASTER FOR WATER YEAR OCTOBER 1 2022 - SEPTEMBER 30, 2023. Prepared in April 2024 by the Santa Ana River Watermaster for the ORANGE COUNTY WATER DISTRICT v. CITY OF CHINO, et al. CASE NO. 117628 - COUNTY OF ORANGE.

The total discharge that entered the Prado Dam Reservoir from Chino Creek during FY 2023/24 was estimated to be about 23,825 af. Monthly discharges ranged from a low of about 405 af (July) to a high of about 8,897 af (February). Total diversions of stormwater and dry-weather flows from Chino Creek were about 3,009 af. The estimated total discharge that would have entered the Prado Dam Reservoir without stormwater and dry-weather diversions is about 26,833 af; thus, about 11 percent of the total estimated discharge in Chino Creek was diverted for recharge in FY 2023/24. About 76 percent of the diversions on Chino Creek occurred between November and March and were coincident with the larger storm events of the year.

Figure 2a shows the estimated monthly discharge to the Prado Dam Reservoir, with and without diversions, as a stacked bar chart (af) and average daily discharge, with and without diversions, as an xy plot (cubic feet per second [cfs]). This figure illustrates that the relative magnitude of the stormwater and dry-weather diversions for recharge, shown as the light blue bar (monthly diversions), is small compared to the total estimated discharge entering the Prado Dam Reservoir. Figure 2a also shows that most recharge results from a few short-duration stormwater events (i.e., when the yellow line [average daily discharge with diversions] is significantly below the red line [average daily discharge without diversions] during the large upward peaks in the graph where stream flow is magnified by stormwater runoff).

Cucamonga Creek

Figure 1 shows the locations of significant points of activity on the Cucamonga Creek tributary system, including Watermaster's points of diversion to recharge basins, USGS gaging stations, and the IEUA's recycled water discharge points. The impact of Watermaster's diversions on discharge to the Santa Ana River at the Prado Dam Reservoir is assessed at the point where the concrete-lined channel of Cucamonga Creek ends (see *WLAM-Estimated Points of Discharge* feature in Figure 1). The estimated average daily discharge entering the Prado Dam Reservoir from Cucamonga Creek is approximated as the average daily discharge measured at USGS gage 11073495. The estimated discharge time history is summarized as a monthly total in row one of Table 2b and is shown in detail as daily values in Appendix B1. Note that this estimation does not account for additional stormwater flows generated by the drainage area for the Cucamonga Creek downstream of USGS gage 11073495. The drainage area for these unaccounted-for flows is approximately 13 square miles and represents about 15 percent of the total Cucamonga Creek drainage area. Thus, the relative impact of Watermaster's diversions is overstated.

The time history of stormwater and dry-weather discharge diversions is summarized in row two of Table 2b and shown in detail in Appendix B2. When added together, the daily discharge time histories from Appendices B1 and B2 yield what would have been the approximate daily discharge time history in Cucamonga Creek had Watermaster not diverted stormwater and dry-weather flows for recharge. This reconstructed discharge time history is summarized in row three of Table 2b and shown in detail in Appendix B3. The percent reduction in discharge entering the Prado Dam Reservoir relative to the estimated discharge without Watermaster diversions is summarized in row four of Table 2b.

The total discharge that entered the Prado Dam Reservoir from Cucamonga Creek during FY 2023/24 was estimated to be about 47,798 af. Monthly discharges ranged from a low of about 440 af (July) to a high of about 20,899 af (February). Total diversions from Cucamonga Creek were about 5,165 af. The estimated total discharge that would have entered Prado Dam Reservoir without stormwater and dry-weather diversions is about 52,964 af; thus, about 10 percent of the total discharge in Cucamonga Creek was diverted for recharge in FY 2023/24. 67 percent of the diversions on Cucamonga Creek occurred between November and March and were coincident with the larger storm events of the year.

Figure 2b shows total monthly discharge to the Prado Dam Reservoir, with and without diversions, as a stacked bar chart (af) and average daily discharge, with and without diversions, as an xy plot (cfs). This figure illustrates that the relative magnitude of the stormwater diversions for recharge is small compared to the total estimated discharge entering the Prado Dam Reservoir. Figure 2b also shows that most recharge results from a few short-duration stormwater events.

Day Creek

Figure 1 shows the locations of significant points of activity on the Day Creek tributary system, including Watermaster's points of diversion to recharge basins and the confluence of Day Creek and the Santa Ana River (see the *WLAM-Estimated Points of Discharge* feature in Figure 1). Day Creek's average daily discharge to the Santa Ana River was estimated using the WLAM. The estimated daily discharge represents discharge to the Santa Ana River without stormwater diversions for recharge. The discharge time history estimated by the WLAM is summarized as monthly totals in row one of Table 2c and is shown in detail as daily values in Appendix C1. Because the WLAM does not simulate dry-weather flows, the estimated daily discharge underestimates actual flows on Day Creek and, thus, overestimates the impact of diversions on discharge to the Santa Ana River. To correct for this underestimation, dry-weather diversions are added together with the WLAM-estimated discharge to create a reconstructed hydrograph of Day Creek.

The time history of stormwater and dry-weather discharge diversions is summarized in row two of Table 2c and shown in detail in Appendix C2. The "diversion" values reported by the IEUA represent the recharge of stormwater and dry weather flow in basins. There are instances when the reported diversions are in excess of total WLAM estimated stormwater flow; in such cases, the excess diversions are assumed to be dry-weather flows. In other instances, when the volume of stormwater diverted for recharge is large, the recharge may continue to occur after storm flows in the creek have stopped (i.e., when the WLAM estimated flow is zero). Periods of recharge that are attributed to stormwater are highlighted grey in Appendices C1, C2, and C3. During storm periods, dry-weather flows are not estimated and are assumed to be zero. All diversions that occur during non-storm periods are considered dry-weather flows. The time history of dry-weather flow diversions is summarized in row three of Table 2c and shown in detail in Appendix C3. None of the diversions that occurred in FY 2023/24 were estimated to be dry-weather flows. Note that dry-weather flows that occur downstream of the recharge basins are not estimated. Thus, the relative impact of Watermaster's diversions is overstated.

When added together, the stormwater discharge estimated by the WLAM (row one of Table 2c), and the estimated dry-weather diversions (row three of Table 2c) yield the total estimated discharge from Day Creek to the Santa Ana River. This total estimated discharge without diversions is summarized in row four of Table 2c. Subtracting the diversions (row two of Table 2c) from the total estimated discharges (row four of Table 2c) yields an estimated monthly discharge from Day Creek to the Santa Ana River after Watermaster diversions. This calculation is done monthly. Within each storm period (highlighted in grey in Appendices C1, C2, and C3), total diversions are subtracted from the total stormwater flows generated during the storm, including diversions that were recharged on dates after the actual stormwater flows were generated. The estimated monthly discharge is summarized in row five of Table 2c.

The percent reduction in discharge entering the Santa Ana River from Day Creek relative to the estimated discharge without Watermaster diversions is summarized in row six of Table 2c. Table 2c also summarizes the discharge measured at USGS gage 11066460 (row seven), the closest gage on the Santa Ana River upstream of its confluence with Day Creek (see Figure 1). The percent reduction in discharge to the Prado Dam Reservoir from Day Creek, relative to discharge in the Santa Ana River at USGS gage 11066460, is summarized in row eight of Table 2c.

Total discharge to the Santa Ana River from Day Creek during FY 2023/24 was estimated to be about 14,305 af. Monthly discharges range from a low of zero af (primarily summer months) to a high of about 9,629 af (February). Total diversions from Day Creek were about 694 af, of which none were dry-weather flows. The estimated discharge that would have entered the Santa Ana River without stormwater and dry-weather diversions is 15,000 af; thus, about 5 percent of the total discharge in Day Creek was diverted for recharge in FY 2023/24. The percent reduction in discharge entering the Prado Dam Reservoir was about 0.7 percent. 77 percent of the diversions on Day Creek occurred between November and March and were coincident with the larger storm events of the year.

Figure 2c shows total monthly discharge, with and without diversions, as a stacked bar chart (af) and average daily discharge, with and without diversions, as an xy plot (cfs). Stormwater runoff accounted for 99 percent of Watermaster's diversions, which occurred during short-duration events.

San Sevaine Creek

Figure 1 shows the locations of significant points of activity on the San Sevaine Creek tributary system, including Watermaster's points of diversion to recharge basins and the confluence of San Sevaine Creek and the Santa Ana River (see *WLAM-Estimated Points of Discharge* feature on Figure 1). San Sevaine Creek's average daily discharge to the Santa Ana River was also estimated using the WLAM. The estimated daily discharge represents discharge to the Santa Ana River without stormwater diversions for recharge. The discharge time history estimated by the WLAM is summarized as monthly totals in row 1 of Table 2d and is shown in detail as daily values in Appendix D1. Because the WLAM does not simulate dry-weather flows, the estimated daily discharge underestimates actual flows on San Sevaine Creek and, thus, overestimates the impact of diversions on discharge to the Santa Ana River. To correct for this underestimation, dry-weather diversions are added together with the WLAM estimated discharge to create a reconstructed hydrograph of San Sevaine Creek.

The time history of stormwater and dry-weather discharge diversions is summarized in row two of Table 2d and shown in detail in Appendix D2. The "diversion" values reported by the IEUA represent the recharge of stormwater and dry weather flow in basins. There are instances when the reported diversions are in excess of total WLAM estimated stormwater flow; in such cases, the excess diversions are assumed to be dry-weather flows. In other instances, when the volume of stormwater diverted for recharge is large, the recharge may continue to occur after storm flows in the creek have stopped (i.e., when the WLAM estimated flow is zero). Periods of recharge that are attributed to stormwater are highlighted grey in Appendices D1, D2, and D3. During storm periods, dry-weather flows are not estimated and are assumed to be 0. All diversions that occur during non-storm periods are considered dry-weather flows. The time history of dry-weather flow diversions is summarized in row 3 of Table 2d and shown in detail in Appendix D3. Note that dry-weather flows that occur downstream of the recharge basins are not estimated. Thus, the relative impact of Watermaster's diversions is overstated.

When added together, the stormwater discharge estimated by the WLAM (row one of Table 2d) and the estimated dry-weather diversions (row three of Table 2d) yield the total estimated discharge from San Sevaine Creek to the Santa Ana River. This total discharge is summarized in row four of Table 2d. Subtracting the diversions (row two of Table 2d) from the total estimated discharges (row four of Table 2d) yields an estimated monthly discharge from San Sevaine Creek to the Santa Ana River after Watermaster diversions. This calculation is done monthly. Within each storm period (highlighted in grey in Appendices D1, D2, and D3), total diversions are subtracted from the total stormwater flows generated during the storm, including diversions that were recharged on dates after actual stormwater flows were generated. In some cases, a diversion taken at the beginning of one month was subtracted from stormwater flows generated in a previous month. The estimated monthly discharge is summarized in row five of Table 2d.

The percent reduction in discharge entering the Santa Ana River from San Sevaine Creek relative to the estimated discharge without Watermaster diversions is summarized in row six of Table 2d. Table 2d also summarizes the discharge measured at USGS gage 11066460 (row seven), the closest gage on the Santa Ana River upstream of its confluence with San Sevaine Creek (see Figure 1). The percent reduction in discharge to the Prado Dam Reservoir from San Sevaine Creek, relative to discharge in the Santa Ana River at USGS gage 11066460, is summarized in row eight of Table 2d.

Total discharge to the Santa Ana River from San Sevaine Creek during FY 2023/24 was estimated to be about 24,144 af. Monthly discharges ranged from a low of zero af (June and July) to a high of about 18,079 af (February). Total diversions from San Sevaine Creek were about 7,188 af, of which about 609 af were dry-weather flows. The estimated discharge that would have entered the Santa Ana River without stormwater and dry-weather diversions is 31,330; thus, about 23 percent of the total discharge in San Sevaine Creek was diverted for recharge in FY 2023/24. The percent reduction in discharge entering the Prado Dam Reservoir was about 7 percent. On San Sevaine Creek, 78 percent of the diversions occurred between November and March and were coincident with the larger storm events of the year.

Figure 2d shows total monthly discharge, with and without diversions, as a stacked bar chart (af) and average daily discharge, with and without diversions, as an xy plot (cfs). Stormwater runoff accounted for about 92 percent of Watermaster's diversions, which occurred during short-duration events, while the remainder of the diversions were dry-weather flows.

Should you have any questions regarding the information contained herein, please contact Amanda Gateley (949)461-1138 or agateley@westyost.com) or Carolina Sanchez (949)600-7504 or csanchez@westyost.com).

Sincerely,
WEST YOST

Amanda Gateley
Geologist, GIT
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Engineer, PE
RCE #85598

Table 1. Total Monthly Stormwater and Dry-Weather Recharge Fiscal Year 2023/24, (af)													
Tributary System	**Jul-23**	**Aug-23**	**Sep-23**	**Oct-23**	**Nov-23**	**Dec-23**	**Jan-24**	**Feb-24**	**Mar-24**	**Apr-24**	**May-24**	**Jun-24**	**Total**
Chino Creek													
College Heights	0	3	0	0	0	0	1	34	29	38	0	0	105
Upland	0	93	1	0	0	29	40	364	80	16	11	0	634
Montclair	0	280	113	7	35	68	132	733	203	43	22	0	1,636
Brooks Street	1	58	5	2	2	33	79	272	141	27	15	0	633
Tributary Total	**1**	**434**	**119**	**9**	**37**	**131**	**252**	**1,402**	**452**	**124**	**48**	**0**	**3,009**
Cucamonga Creek													
7th and 8th Street	136	283	66	37	72	114	159	226	174	74	40	2	1,383
Ely	1	437	62	2	64	112	259	527	457	78	19	3	2,021
Turner 1 and 2	8	51	34	24	41	93	83	160	228	68	3	4	797
Turner 3, 4 and 5	12	34	47	39	77	57	57	199	44	23	8	9	607
Grove	1	67	11	1	10	25	56	103	62	17	4	2	358
Tributary Total	**158**	**873**	**220**	**102**	**265**	**401**	**613**	**1,215**	**964**	**260**	**74**	**20**	**5,165**
Day Creek													
Lower Day	2	50	16	10	14	21	38	364	97	69	13	1	694
Tributary Total	**2**	**50**	**16**	**10**	**14**	**21**	**38**	**364**	**97**	**69**	**13**	**1**	**694**
San Sevaine Creek													
San Sevaine	0	233	28	21	41	152	141	787	509	98	61	9	2,080
Jurupa	13	7	1	0	6	204	120	223	330	54	2	0	958
Hickory	0	45	69	22	30	34	48	128	129	8	18	0	531
Banana	0	60	4	0	21	40	42	73	72	28	0	0	340
RP-3	0	56	0	0	0	16	130	383	226	46	47	12	917
Declez	3	126	13	13	59	136	149	178	191	54	5	2	929
Etiwanda Debris Basin	0	47	0	0	0	0	0	199	191	150	44	1	632
Victoria	1	119	11	12	18	47	92	213	224	46	17	1	801
Tributary Total	**16**	**694**	**126**	**68**	**175**	**629**	**722**	**2,183**	**1,872**	**485**	**193**	**25**	**7,188**
Tributary System Total	**177**	**2,051**	**481**	**190**	**491**	**1,182**	**1,625**	**5,164**	**3,385**	**938**	**328**	**46**	**16,056**
Note: Recharge volumes represent diversions of both stormwater and dry-weather discharge; recharge volumes are rounded to the nearest whole number.													

Table 2a. Impact of Stormwater Diversions on Total Monthly Discharge Entering the Prado Dam Reservoir from Chino Creek for FY 2023/24, (af)														
Row	**Discharge Components**	**Jul-23**	**Aug-23**	**Sep-23**	**Oct-23**	**Nov-23**	**Dec-23**	**Jan-24**	**Feb-24**	**Mar-24**	**Apr-24**	**May-24**	**Jun-24**	**Total**
(1)	Discharge in Chino Creek at USGS Gage 11073360[(a)]	65	1,515	87	57	214	408	747	7,172	1,386	275	152	47	**12,125**
(2)	Discharge to San Antonio Creek from OCWD OC-59	3,585	3,661	4,649	3,415	3,072	2,471	0	0	0	186	2,317	2,417	**25,773**
(3)	Diversions of OC-59 Imported Water to Recharge Basins	3,585	3,661	4,649	3,415	3,072	2,471	0	0	0	186	2,317	2,417	**25,773**
(4)	Recycled Water Discharge from IEUA's CCWRF, RP-5, and RP-1 (Prado)	340	492	521	534	798	1,220	1,506	1,725	1,554	1,300	1,044	666	**11,700**
(5) =(1)-[(2)-(3)]+(4)	Estimated Discharge Entering the Prado Dam Reservoir	405	2,007	608	591	1,012	1,628	2,253	8,897	2,940	1,575	1,196	713	**23,825**
(6)	Stormwater and Dry-Weather Discharge Diversions	1	434	119	9	37	131	252	1,402	452	124	48	0	**3,009**
(7) =(5)+(6)	Estimated Discharge That Would Have Entered the Prado Dam Reservoir *without* Stormwater and Dry-Weather Diversions	406	2,441	727	600	1,049	1,760	2,505	10,299	3,391	1,699	1,244	713	**26,833**
(8) =(6)/(7)	Percent Reduction in Discharge Entering the Prado Dam Reservoir Relative to the Estimated Discharge *without* Diversions	0%	18%	16%	2%	4%	7%	10%	14%	13%	7%	4%	0%	**11%**

[(a)]For July 1, 2023 to December 2, 2023, data have been approved by the USGS; data after December 2, 2023 are provisional.

Table 2b. Impact of Stormwater Diversions on Total Monthly Discharge Entering the Prado Dam Reservoir from Cucamonga Creek for FY 2023/24, (af)														
Row	**Discharge Components**	**Jul-23**	**Aug-23**	**Sep-23**	**Oct-23**	**Nov-23**	**Dec-23**	**Jan-24**	**Feb-24**	**Mar-24**	**Apr-24**	**May-24**	**Jun-24**	**Total**
(1)	Discharge Entering the Prado Dam Reservoir after Stormwater and Dry-Weather Diversions (USGS Gage 11073495)[(a)]	440	3,458	530	798	1,469	2,990	2,705	20,899	9,605	2,047	1,501	1,356	**47,798**
(2)	Stormwater and Dry-Weather Discharge Diversions	158	873	220	102	265	401	613	1,215	964	260	74	20	**5,165**
(3) =(1)+(2)	Estimated Discharge That Would Have Entered the Prado Dam Reservoir *without* Stormwater and Dry-Weather Diversions	597	4,331	750	900	1,734	3,392	3,318	22,114	10,569	2,307	1,576	1,376	**52,964**
(4) =(2)/(3)	Percent Reduction in Discharge Entering the Prado Dam Reservoir Relative to the Estimated Discharge *without* Diversions	26.5%	20.2%	29.3%	11.3%	15.3%	11.8%	18.5%	5.5%	9.1%	11.3%	4.7%	1.5%	**10%**

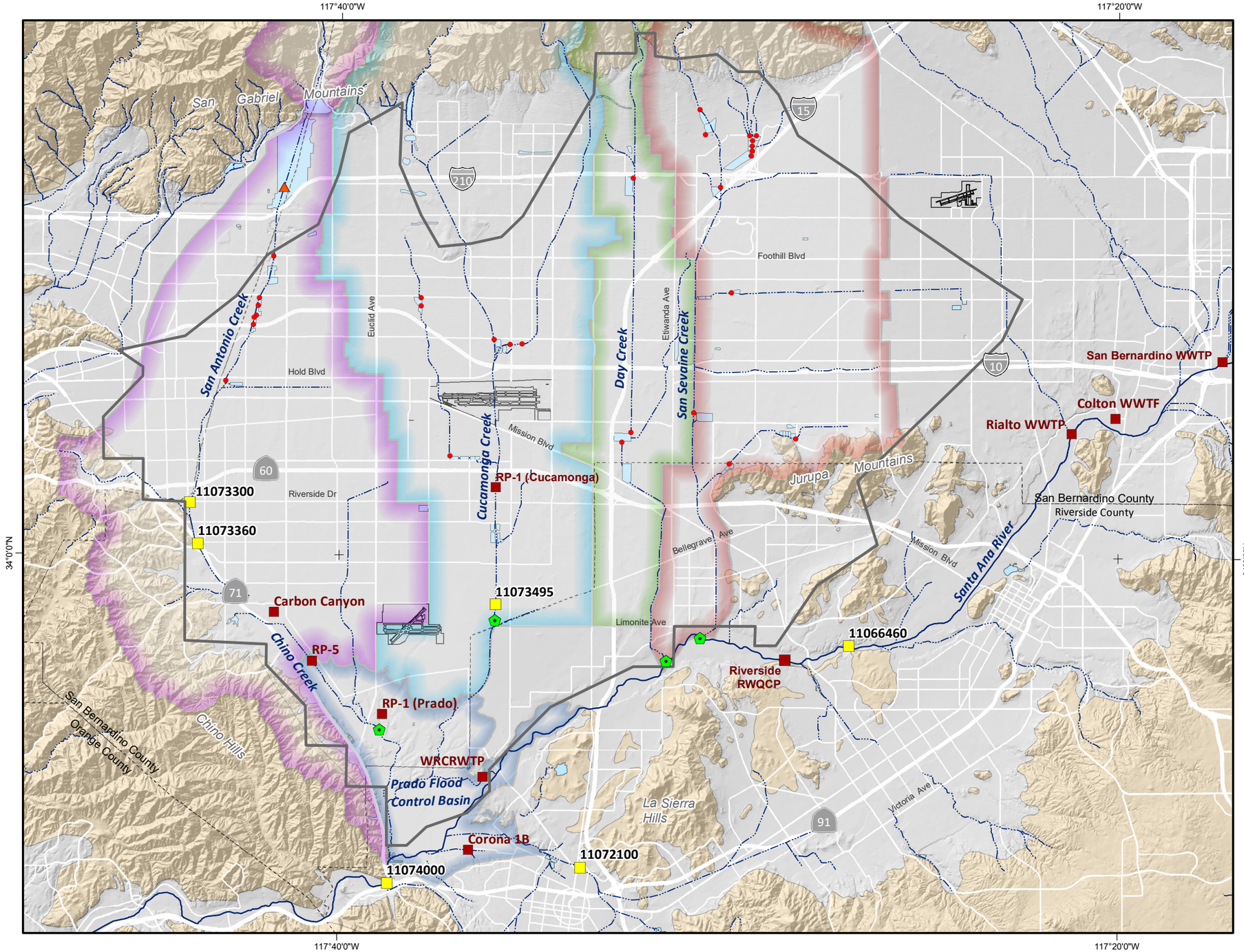
[(a)]For July 1, 2023 to December 1, 2023, data have been approved by the USGS; data after December 1, 2023 are provisional.

Table 2c. Impact of Stormwater Diversions on Total Monthly Discharge Entering the Santa Ana River from Day Creek for FY 2023/24, (af)														
Row	Discharge Components	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Total
(1)	Discharge Entering the Santa Ana River *without* Stormwater and Dry-Weather Diversions *or* Dry-Weather Flows[a]	0	1,975	25	10	75	254	880	9,993	1,425	334	25	0	**14,996**
(2)	Stormwater and Dry-Weather Discharge Diversions[b]	2	50	16	10	14	21	38	364	97	69	13	1	**694**
(3)	Diversions Attributable to Dry-Weather Flows[c]	2	1	0	0	0	0	0	0	0	0	0	1	**4**
(4) =(1)+(3)	Total Discharge Entering the Santa Ana River *without* Stormwater and Dry-Weather Diversions[d]	2	1,976	25	10	75	254	880	9,993	1,425	334	25	1	**15,000**
(5) =(4)-(2)	Estimated Discharge Entering the Santa Ana River after Stormwater and Dry-Weather Diversions	0	1,926	9	0	61	233	842	9,629	1,328	265	12	0	**14,307**
(6) =(2)/(4)	Percent Reduction in Discharge Entering the Santa Ana River Relative to Discharge *without* Diversions	76%	3%	63%	104%	18%	8%	4%	4%	7%	21%	50%	84%	**5%**
(7)	Discharge in the Santa Ana River at USGS Gage 11066460	2,729	10,178	3,694	3,199	3,505	3,890	8,162	33,287	9,829	10,727	4,546	2,381	**96,127**
(8) =(2)/(7)	Percent Reduction in Discharge Entering the Santa Ana River Relative to Discharge at 11066460[e]	0.1%	0.5%	0.4%	0.3%	0.4%	0.5%	0.5%	1.1%	1.0%	0.6%	0.3%	0.0%	**0.7%**

[a] Estimated using the WLAM.
[b] Calculated on a monthly basis.
[c] Calculated on a monthly basis. Note that the WLAM does not simulate dry-weather flows on the Day Creek tributary system. Thus, there are dates on which the measured diversions from Day Creek are greater than the WLAM's estimated discharge to the Santa Ana River without diversions. For these dates, the difference between the measured diversions and estimated discharge can be attributed to dry-weather discharge. Dry-weather diversions that occur while stormwater is being recharged (highlighted in grey in Appendices C1-C3) or downstream of the recharge basins are not included in these calculations.
[d] Calculated on a monthly basis.
[e] For July 1, 2023 to June 20, 2024, data have been approved by the USGS; data after June 20, 2024 are provisional.

Table 2d. Impact of Stormwater Diversions on Total Monthly Discharge Entering the Santa Ana River from San Sevaine Creek for FY 2023/24, (af)														
Row	Discharge Components	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Total
(1)	Discharge Entering the Santa Ana River *without* Stormwater and Dry-Weather Diversions *or* Dry-Weather Flows[(a)]	0	4,105	117	55	300	813	1,450	20,140	3,091	487	163	0	**30,721**
(2)	Stormwater and Dry-Weather Discharge Diversions[(b)]	16	694	126	68	175	629	722	2,183	1,872	485	193	25	**7,188**
(3)	Diversions Attributable to Dry-Weather Flows[(c)]	16	9	25	18	9	3	1	121	109	187	86	25	**609**
(4) =(1)+(3)	Total Discharge Entering the Santa Ana River *without* Stormwater and Dry-Weather Diversions[(d)]	16	4,114	142	73	309	816	1,451	20,261	3,200	674	249	25	**31,330**
(5) =(4)-(2)	Estimated Discharge Entering the Santa Ana River after Stormwater and Dry-Weather Diversions	0	3,420	16	5	134	187	729	18,078	1,328	189	56	0	**24,142**
(6) =(2)/(4)	Percent Reduction in Discharge Entering the Santa Ana River Relative to Discharge *without* Diversions	100%	17%	89%	93%	57%	77%	50%	11%	59%	72%	78%	100%	**23%**
(7)	Discharge in the Santa Ana River at USGS Gage 11066460	2,729	10,178	3,694	3,199	3,505	3,890	8,162	33,287	9,829	10,727	4,546	2,381	**96,127**
(8) =(2)/(7)	Percent Reduction in Discharge Entering the Santa Ana River Relative to Discharge at 11066460[(e)]	0.6%	6.8%	3.4%	2.1%	5.0%	16.2%	8.8%	6.6%	19.0%	4.5%	4.2%	1.1%	**7%**

[(a)] Estimated using the WLAM.
[(b)] Calculated on a monthly basis.
[(c)] Calculated on a monthly basis. Note that the WLAM does not simulate dry-weather flows on the San Sevaine Creek tributary system. Thus, there are dates on which the measured diversions from San Sevaine Creek are greater than the WLAM's estimated discharge to the Santa Ana River without diversions. For these dates, the difference between the measured diversions and estimated discharge can be attributed to dry-weather discharge. Dry-weather diversions that occur while stormwater is being recharged (highlighted in grey in Appendices D1-D3) or downstream of the recharge basins are not included in these calculations.
[(d)] Calculated on a monthly basis.
[(e)] For July 1, 2023 to June 20, 2024, data have been approved by the USGS; data after June 20, 2024 are provisional.



Streams & Flood Control Channels

Flood Control & Conservation Basins

Permitted Points of Diversion

Active USGS Gaging Stations

Recycled Water Discharge Location

WLAM-Estimated Points of Discharge

OCWD OC-59 State Water Project Turnout

Chino Basin Legal Boundary

Drainage Areas

Chino Creek System

Cucamonga Creek System

Day Creek System

San Sevaine Creek System

Prado Dam Reservoir

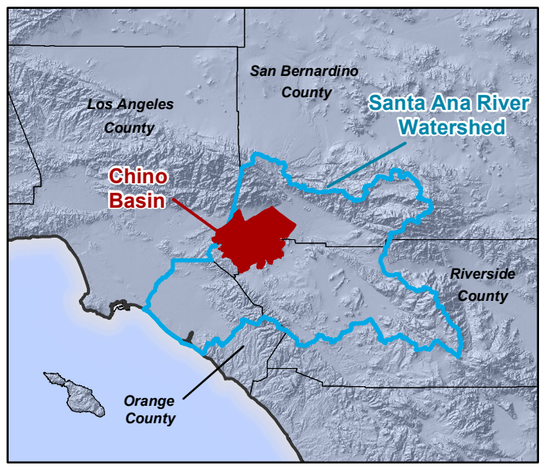
Geology

Water-Bearing Sediments

Quaternary Alluvium

Consolidated Bedrock

Undifferentiated Pre-Tertiary to Early Pleistocene Igneous, Metamorphic, and Sedimentary Rocks



Prepared by:

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Water. Engineered.

Author: AG

Date: 8/29/2024

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0 3 6 Miles

0 4 8 Km

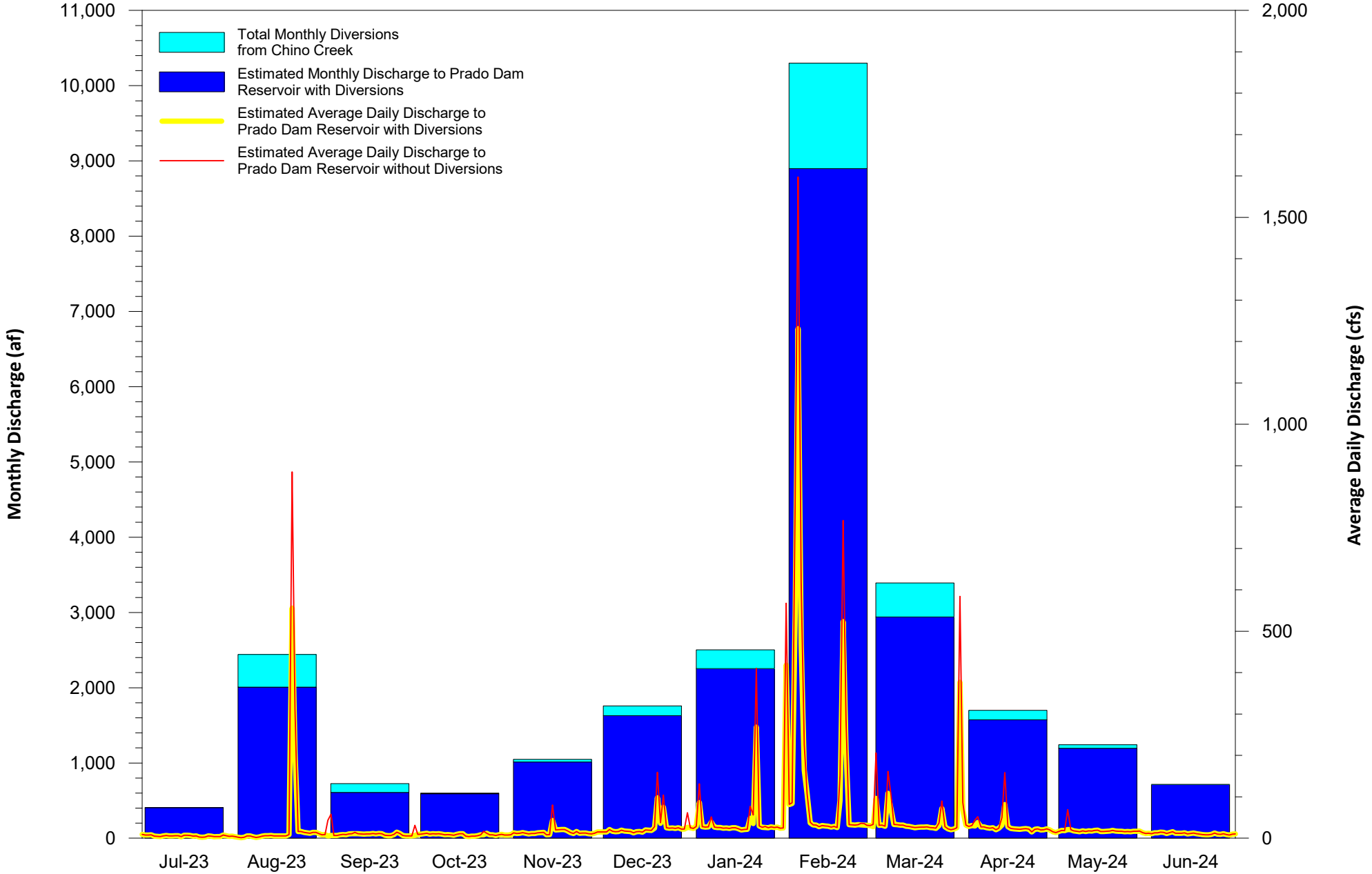
Prepared for:

Chino Basin Watermaster
Water Rights Compliance Reporting
FY 2023/24

Stormwater Recharge Points of Diversion
Water Rights Permit 21225

Figure 1

Figure 2a
Estimated Discharge from Chino Creek to Prado Dam Reservoir
With and without Stormwater and Dry-Weather Discharge Diversions



Author: AG
Date: 8/29/2024

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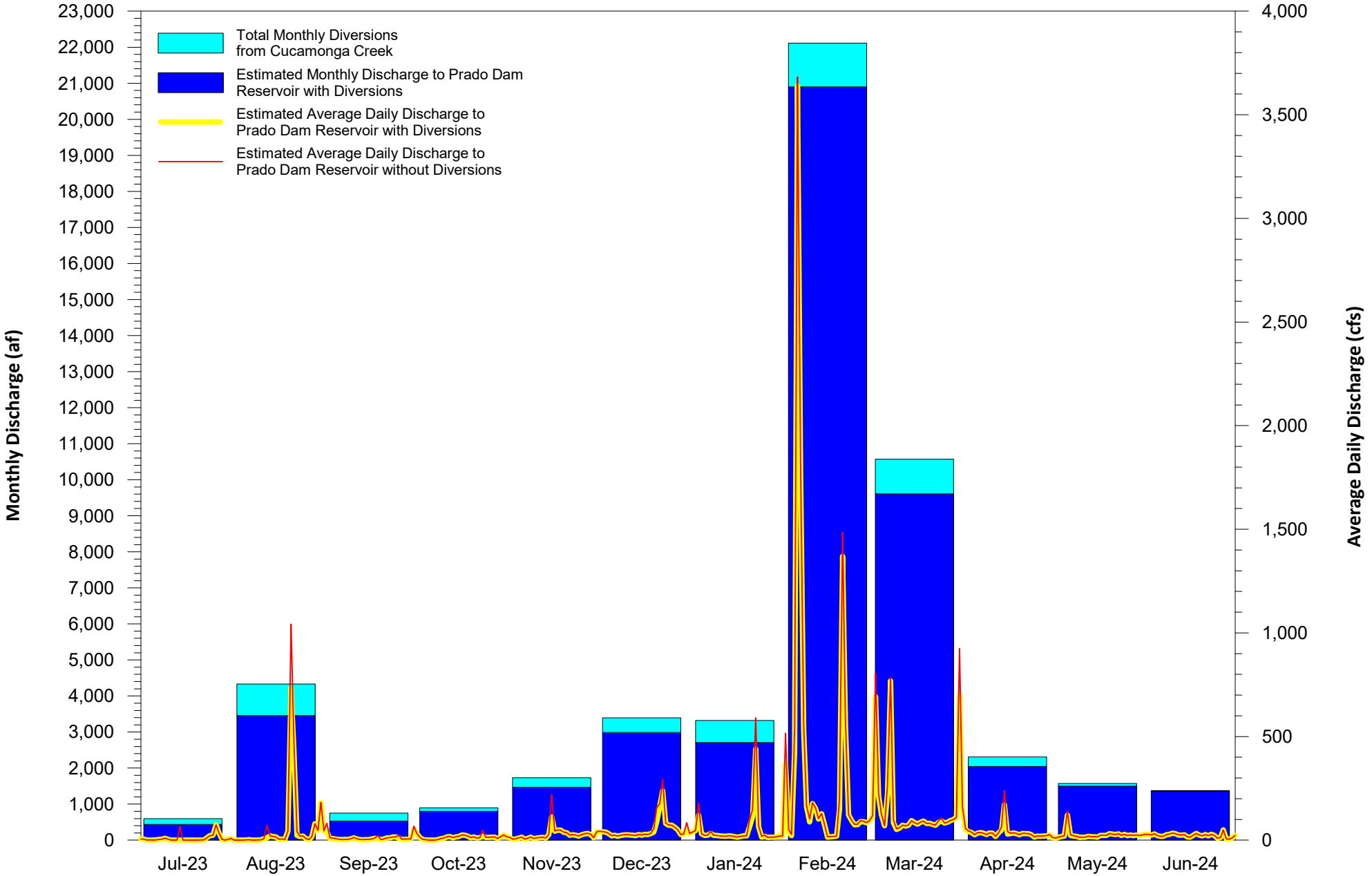
Figure 2b
Estimated Discharge from Cucamonga Creek to Prado Dam Reservoir
With and without Stormwater and Dry-Weather Discharge Diversions



Author: AG
Date: 8/29/2024

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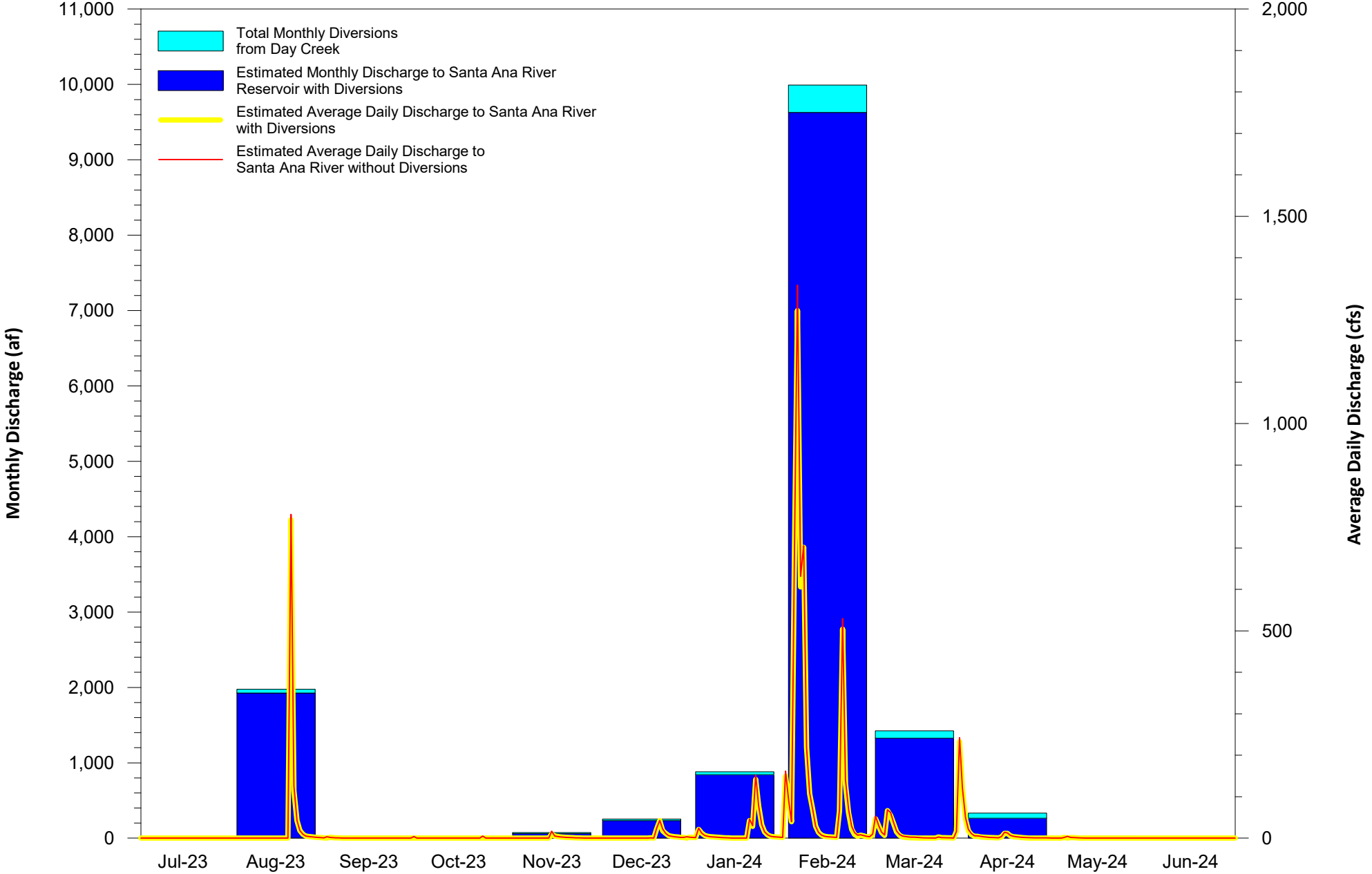
Figure 2c
Estimated Discharge from Day Creek to the Santa Ana River
With and without Stormwater and Dry-Weather Discharge Diversions



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Date: 8/29/2024

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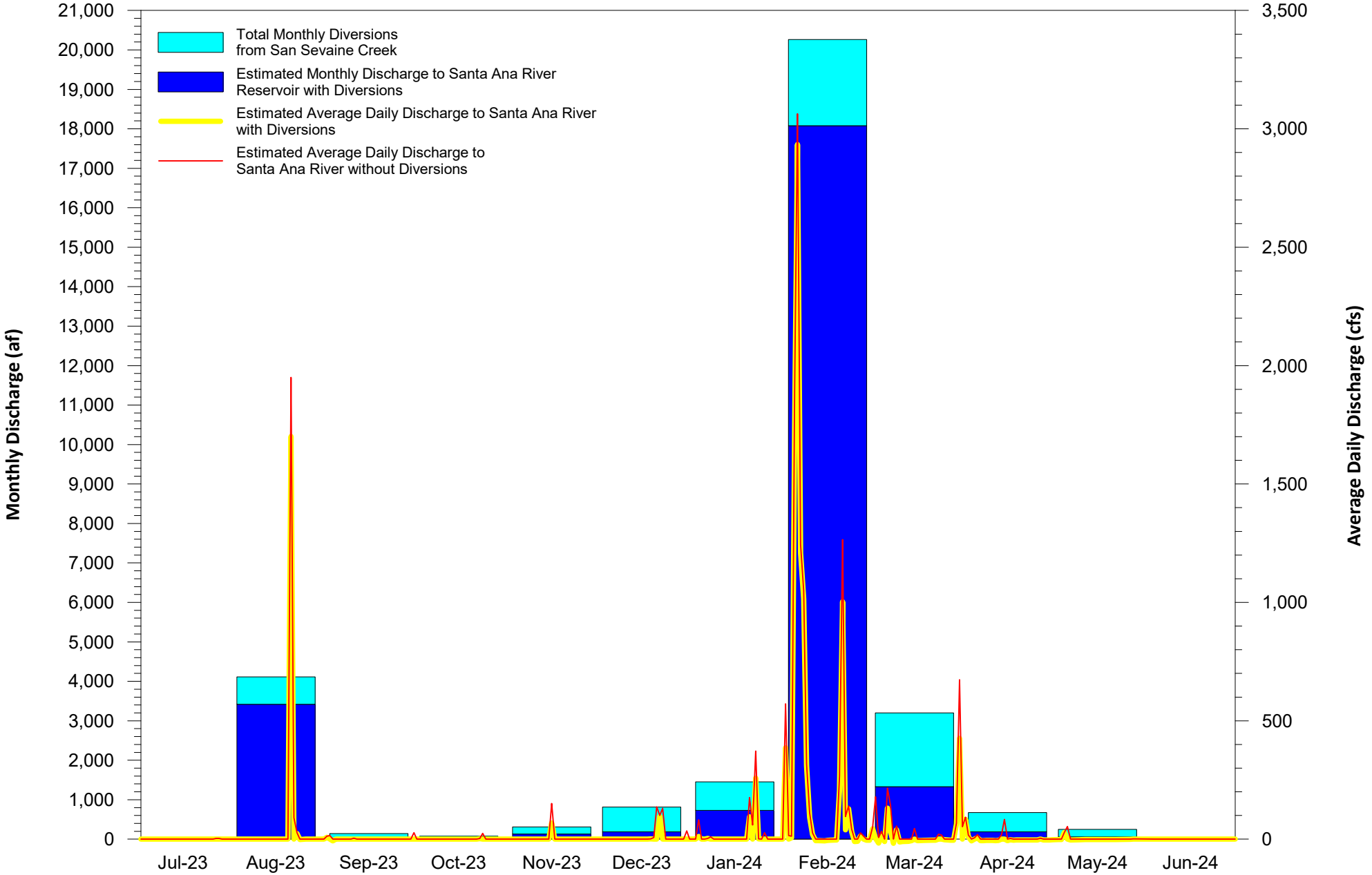
Figure 2d
Estimated Discharge from San Sevaine Creek to the Santa Ana River
With and without Stormwater and Dry-Weather Discharge Diversions



Author: AG
Date: 9/3/2024

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Appendix A1 – A7

Appendix A1
Average Daily Discharge at USGS Gage 11073360 on Chino Creek, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.94	0.92	3.51	1.72	0.61	0.86	1.80	391.00	3.01	4.46	1.24	1.11
2	0.99	0.87	8.19	0.89	0.64	0.78	1.97	55.10	67.10	4.38	1.10	1.30
3	0.93	0.84	1.75	0.84	0.73	0.74	58.20	58.80	3.53	4.49	1.07	1.05
4	0.92	0.85	1.19	1.01	0.68	0.77	1.60	515.00	3.06	3.45	1.04	1.03
5	0.88	0.90	1.20	1.26	0.52	0.74	1.29	1190.00	2.82	12.50	27.50	0.89
6	0.97	0.89	1.08	1.33	0.56	0.74	1.72	419.00	81.10	2.82	1.72	0.85
7	0.91	0.96	1.08	1.15	0.68	0.74	11.10	123.00	41.80	2.66	1.39	0.90
8	0.88	1.06	1.02	1.28	0.66	0.75	1.00	74.70	3.78	2.66	1.64	0.84
9	0.89	1.06	0.99	1.36	0.63	0.73	0.69	6.24	3.20	2.63	3.10	0.87
10	0.91	1.26	2.45	0.96	0.69	0.61	0.75	3.60	2.89	2.66	2.61	0.79
11	0.93	1.15	1.74	0.75	0.62	0.65	0.83	3.18	2.88	2.66	2.73	1.48
12	0.83	0.99	1.31	0.81	0.60	0.69	0.72	2.71	2.98	2.34	3.85	0.60
13	0.85	1.14	1.28	0.78	0.69	1.07	0.72	2.39	2.87	7.84	3.25	0.67
14	0.91	1.01	1.60	0.74	0.74	0.88	0.77	2.37	2.62	56.50	3.29	0.69
15	1.69	1.10	1.09	0.62	81.70	1.07	0.76	2.23	2.76	2.97	1.78	0.64
16	1.70	0.99	1.10	0.88	2.30	0.63	0.73	2.23	2.66	1.78	1.45	0.87
17	0.77	0.97	1.03	0.68	1.39	0.94	0.80	2.12	2.50	1.87	1.30	0.96
18	0.76	1.08	1.00	0.66	4.02	0.76	0.75	1.97	2.56	1.65	1.26	0.70
19	0.80	1.47	0.97	1.10	1.06	2.46	0.74	63.50	2.57	1.90	1.23	0.69
20	0.78	542.00	1.17	0.89	1.00	89.00	23.80	484.00	2.53	1.47	1.26	0.70
21	0.72	188.00	0.89	0.69	0.85	9.45	10.60	181.00	2.35	1.59	1.22	0.75
22	1.08	2.07	0.88	0.93	0.75	51.30	241.00	5.03	2.41	2.25	1.20	0.69
23	1.42	1.55	0.86	1.88	0.71	1.06	3.04	3.80	6.97	1.33	1.07	0.68
24	0.89	1.36	0.92	0.66	0.76	1.25	1.63	3.38	47.10	1.40	1.12	0.68
25	0.85	1.33	0.85	0.99	0.71	1.14	1.64	3.16	2.59	1.38	1.09	0.78
26	1.74	1.27	0.94	0.65	0.68	1.15	1.25	4.78	2.24	1.40	1.23	0.52
27	1.29	1.28	0.80	0.94	0.68	1.05	1.56	5.61	2.39	1.38	1.28	0.51
28	0.90	1.14	0.85	0.62	0.66	0.91	1.64	2.95	2.06	1.22	1.22	0.60
29	0.95	1.58	0.96	0.73	0.77	0.83	2.07	2.91	2.12	1.63	1.15	0.54
30	1.80	1.37	1.35	0.55	0.82	31.00	0.83	--	348.00	1.34	1.12	0.50
31	1.92	1.14	--	0.57	--	1.04	0.69	--	41.10	--	1.20	--
Minimum	**0.7**	**0.8**	**0.8**	**0.6**	**0.5**	**0.6**	**0.7**	**2.0**	**2.1**	**1.2**	**1.0**	**0.5**
Maximum	**1.9**	**542.0**	**8.2**	**1.9**	**81.7**	**89.0**	**241.0**	**1,190.0**	**348.0**	**56.5**	**27.5**	**1.5**
Average	**1.0**	**25.4**	**1.5**	**0.9**	**3.6**	**6.8**	**12.5**	**124.7**	**21.9**	**4.6**	**2.5**	**0.8**
Total Volume (af)	**65.1**	**1,514.6**	**87.4**	**57.4**	**214.0**	**408.2**	**747.2**	**7,171.8**	**1,385.6**	**274.9**	**152.2**	**47.4**

Note: For July 1, 2023 to December 2, 2023, data have been approved by the USGS; data after December 2, 2023 are provisional.

Appendix A2

Average Daily Discharge at OC-59 on San Antonio Creek, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	65.3	54.9	78.3	66.9	51.8	49.0	0.0	0.0	0.0	0.0	58.2	36.3
2	64.9	58.5	77.3	64.7	51.2	48.9	0.0	0.0	0.0	0.0	58.4	36.5
3	65.2	54.6	78.3	61.9	52.1	49.3	0.0	0.0	0.0	0.0	58.9	36.5
4	64.5	55.2	78.8	67.0	52.5	49.0	0.0	0.0	0.0	0.0	51.1	36.5
5	65.6	55.4	78.1	63.8	51.8	51.5	0.0	0.0	0.0	0.0	37.2	36.5
6	67.3	56.5	78.3	61.7	50.2	57.7	0.0	0.0	0.0	0.0	35.5	36.3
7	66.9	55.5	79.9	61.3	48.0	59.9	0.0	0.0	0.0	0.0	34.7	36.2
8	64.0	62.5	81.2	60.1	47.0	62.0	0.0	0.0	0.0	0.0	34.8	36.2
9	64.4	67.7	81.3	57.8	51.4	62.5	0.1	0.0	0.0	0.0	34.6	36.2
10	64.3	68.4	81.3	56.1	51.1	62.2	0.0	0.0	0.0	0.0	34.6	36.2
11	68.2	70.0	80.9	55.1	54.3	62.3	0.0	0.0	0.0	0.0	34.8	38.3
12	74.2	69.4	80.2	54.6	52.2	61.9	0.0	0.0	0.0	0.0	34.8	39.9
13	73.9	68.4	80.1	55.6	53.5	62.0	0.0	0.0	0.0	0.0	34.9	39.6
14	73.5	67.5	78.6	55.5	53.4	60.7	0.0	0.0	0.0	0.0	34.8	39.6
15	73.9	71.1	77.9	55.9	52.7	59.0	0.0	0.0	0.0	0.0	34.2	39.6
16	73.0	72.7	81.8	54.3	52.5	59.1	0.0	0.0	0.0	0.0	33.8	39.5
17	73.6	71.5	80.5	50.7	52.5	58.8	0.0	0.0	0.0	0.0	33.7	39.6
18	73.8	40.2	82.0	51.5	52.5	42.0	0.0	0.0	0.0	0.0	33.8	41.0
19	54.9	0.0	80.1	52.4	52.2	30.8	0.0	0.0	0.0	0.0	33.8	43.6
20	33.6	0.0	78.6	51.9	52.3	15.2	0.0	0.0	0.0	0.0	33.8	43.0
21	33.2	0.0	78.0	51.9	52.2	0.0	0.0	0.0	0.0	0.0	34.0	42.6
22	33.6	30.5	78.0	49.3	52.0	0.0	0.0	0.0	0.0	0.0	33.6	42.7
23	35.2	77.9	78.1	50.1	51.7	0.0	0.0	0.0	0.0	0.0	33.3	42.4
24	35.1	76.8	77.3	50.6	52.1	0.0	0.0	0.0	0.0	0.0	33.1	42.3
25	36.4	75.9	78.3	51.1	52.0	0.0	0.0	0.0	0.0	0.0	33.4	45.5
26	41.9	77.0	81.0	51.2	51.9	0.0	0.0	0.0	0.0	0.0	36.9	46.8
27	52.6	78.1	81.2	51.9	51.7	0.0	0.0	0.0	0.0	0.0	37.2	48.0
28	53.0	77.5	70.7	52.1	51.6	34.5	0.0	0.0	0.0	0.0	36.8	48.3
29	53.4	78.2	63.1	52.5	49.5	49.8	0.0	0.0	0.0	34.0	36.4	46.4
30	54.8	77.5	64.8	50.2	49.0	49.7	0.0	-	0.0	59.6	36.4	46.6
31	53.5	76.6	-	51.9	-	47.9	0.0	-	0.0	-	36.4	-
Minimum	**33.2**	**0.0**	**63.1**	**49.3**	**47.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**33.1**	**36.2**
Maximum	**74.2**	**78.2**	**82.0**	**67.0**	**54.3**	**62.5**	**0.1**	**0.0**	**0.0**	**59.6**	**58.9**	**48.3**
Average	**58.3**	**59.5**	**78.1**	**55.5**	**51.6**	**40.2**	**0.0**	**0.0**	**0.0**	**3.1**	**37.7**	**40.6**
Total Volume (af)	**3,585.2**	**3,661.3**	**4,649.2**	**3,415.0**	**3,072.1**	**2,470.9**	**0.1**	**0.0**	**0.0**	**185.8**	**2,316.6**	**2,417.3**

Appendix A3

Daily Diversions of OC-59 Water to Recharge Basins from the Chino Creek Tributary System, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	65.3	54.9	78.3	66.9	51.8	49.0	0.0	0.0	0.0	0.0	58.2	36.3
2	64.9	58.5	77.3	64.7	51.2	48.9	0.0	0.0	0.0	0.0	58.4	36.5
3	65.2	54.6	78.3	61.9	52.1	49.3	0.0	0.0	0.0	0.0	58.9	36.5
4	64.5	55.2	78.8	67.0	52.5	49.0	0.0	0.0	0.0	0.0	51.1	36.5
5	65.6	55.4	78.1	63.8	51.7	51.5	0.0	0.0	0.0	0.0	37.2	36.5
6	67.3	56.5	78.3	61.7	50.2	57.7	0.0	0.0	0.0	0.0	35.5	36.3
7	66.9	55.5	79.9	61.3	48.0	59.9	0.0	0.0	0.0	0.0	34.7	36.2
8	64.0	62.5	81.2	60.1	47.0	62.0	0.0	0.0	0.0	0.0	34.8	36.2
9	64.4	67.7	81.3	57.8	51.4	62.5	0.0	0.0	0.0	0.0	34.6	36.2
10	64.3	68.4	81.3	56.1	51.1	62.2	0.0	0.0	0.0	0.0	34.6	36.2
11	68.2	70.0	80.9	55.1	54.3	62.3	0.0	0.0	0.0	0.0	34.8	38.3
12	74.2	69.4	80.2	54.6	52.2	61.9	0.0	0.0	0.0	0.0	34.8	39.9
13	73.9	68.4	80.1	55.6	53.5	62.0	0.0	0.0	0.0	0.0	34.8	39.6
14	73.5	67.5	78.6	55.5	53.4	60.7	0.0	0.0	0.0	0.0	34.8	39.6
15	73.9	71.1	77.9	55.9	52.7	59.0	0.0	0.0	0.0	0.0	34.2	39.6
16	73.0	72.7	81.8	54.3	52.5	59.1	0.0	0.0	0.0	0.0	33.8	39.5
17	73.6	71.5	80.5	50.7	52.5	58.8	0.0	0.0	0.0	0.0	33.7	39.6
18	73.8	40.2	82.0	51.5	52.5	42.0	0.0	0.0	0.0	0.0	33.8	41.0
19	54.9	0.0	80.1	52.4	52.2	30.8	0.0	0.0	0.0	0.0	33.8	43.6
20	33.6	0.0	78.6	51.9	52.3	15.2	0.0	0.0	0.0	0.0	33.8	43.0
21	33.2	0.0	78.0	51.9	52.2	0.0	0.0	0.0	0.0	0.0	34.0	42.6
22	33.6	30.5	78.0	49.3	52.0	0.0	0.0	0.0	0.0	0.0	33.6	42.7
23	35.2	77.9	78.1	50.1	51.7	0.0	0.0	0.0	0.0	0.0	33.3	42.4
24	35.1	76.8	77.3	50.6	52.1	0.0	0.0	0.0	0.0	0.0	33.1	42.3
25	36.4	75.9	78.3	51.1	52.0	0.0	0.0	0.0	0.0	0.0	33.4	45.5
26	41.9	77.0	81.0	51.1	51.9	0.0	0.0	0.0	0.0	0.0	36.9	46.7
27	52.6	78.1	81.2	51.9	51.7	0.0	0.0	0.0	0.0	0.0	37.2	48.0
28	53.0	77.5	70.7	52.1	51.6	34.5	0.0	0.0	0.0	0.0	36.8	48.3
29	53.4	78.2	63.1	52.5	49.5	49.8	0.0	0.0	0.0	34.0	36.4	46.4
30	54.8	77.5	64.8	50.2	49.0	49.7	0.0	-	0.0	59.6	36.4	46.6
31	53.5	76.6	-	51.9	-	47.9	0.0	-	0.0	-	36.4	-
Minimum	**33.2**	**0.0**	**63.1**	**49.3**	**47.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**33.1**	**36.2**
Maximum	**74.2**	**78.2**	**82.0**	**67.0**	**54.3**	**62.5**	**0.0**	**0.0**	**0.0**	**59.6**	**58.9**	**48.3**
Average	**58.3**	**59.5**	**78.1**	**55.5**	**51.6**	**40.2**	**0.0**	**0.0**	**0.0**	**3.1**	**37.7**	**40.6**
Total Volume (af)	**3,585.3**	**3,661.4**	**4,649.2**	**3,415.0**	**3,072.1**	**2,470.9**	**0.1**	**0.0**	**0.0**	**185.8**	**2,316.7**	**2,417.2**

Note: On days when the non-replenishment discharge recorded was greater than the measured recharge, the total diversion volume was manually changed to 0.

Appendix A4

Average Daily Discharge of All IEUA Recycled Water Effluent Discharges to Chino Creek, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	9.3	3.7	5.6	9.4	8.4	15.0	21.8	27.4	24.9	27.4	13.8	11.9
2	7.7	2.2	6.7	10.1	13.0	15.0	26.5	26.3	29.2	24.1	16.2	11.1
3	7.7	1.5	6.7	10.8	11.6	15.0	28.0	25.4	27.7	26.3	18.7	13.2
4	8.4	2.2	6.5	11.8	11.9	21.2	26.3	27.5	28.8	26.0	18.6	13.2
5	5.0	5.4	8.0	10.1	13.8	16.7	25.7	41.2	26.0	25.4	21.2	14.9
6	4.3	5.7	9.0	11.0	12.1	15.9	25.5	51.5	27.5	24.8	20.3	13.9
7	3.9	3.4	8.5	10.5	10.2	16.1	27.7	41.6	27.7	24.8	17.8	11.3
8	5.4	1.9	10.5	11.0	11.6	19.5	26.0	32.3	29.7	22.9	16.7	13.5
9	6.8	2.8	10.7	9.7	11.3	17.2	25.2	30.8	29.4	21.7	15.5	15.5
10	5.6	5.0	11.0	8.0	12.8	16.6	24.9	28.6	28.6	22.4	17.6	12.2
11	5.6	6.2	10.7	9.0	13.8	16.1	23.5	28.5	28.6	18.1	16.4	11.8
12	6.2	6.2	10.2	8.4	13.9	13.3	24.0	25.5	26.3	21.8	17.9	12.2
13	6.2	6.5	9.9	7.4	8.5	15.6	23.2	28.2	25.5	23.7	17.5	13.0
14	3.7	5.6	10.2	9.3	8.7	16.4	24.3	27.2	24.4	25.1	19.0	10.4
15	7.0	5.4	10.2	11.1	14.1	14.7	24.8	27.1	22.7	24.9	19.5	11.3
16	7.1	5.4	11.4	11.0	20.0	19.8	22.6	24.4	23.7	22.1	16.4	12.7
17	6.5	5.4	10.5	5.3	20.3	19.5	19.3	26.5	24.4	20.9	16.1	10.7
18	4.8	5.7	11.3	4.2	21.0	19.0	20.1	23.7	24.1	20.7	16.9	9.7
19	5.6	7.1	10.7	5.3	20.9	24.4	21.0	27.5	25.1	19.5	17.3	8.7
20	3.1	13.9	7.0	5.3	18.1	24.0	24.6	39.6	23.4	21.4	18.9	8.0
21	2.5	19.3	6.3	6.3	13.5	26.6	24.6	34.8	23.1	21.8	17.2	8.5
22	2.9	16.2	6.3	8.2	11.6	23.5	27.4	28.0	21.5	19.6	16.6	9.3
23	5.4	16.2	9.0	8.0	16.2	24.1	26.6	28.6	23.8	13.9	16.9	12.5
24	5.3	14.2	14.5	11.8	11.8	23.2	24.6	28.3	24.6	20.0	15.9	9.9
25	3.7	12.8	11.3	8.5	12.5	23.5	24.3	29.9	25.1	21.5	16.1	9.1
26	4.2	12.2	6.5	8.5	12.5	22.7	24.3	27.5	20.3	18.7	15.8	10.8
27	4.2	13.9	5.7	6.8	11.1	24.1	25.8	26.0	18.1	18.9	16.6	8.7
28	7.7	13.9	5.6	8.0	10.4	22.3	24.4	28.2	20.0	21.4	16.7	7.6
29	6.3	10.7	5.6	9.1	11.8	22.0	24.9	27.7	23.2	20.0	17.3	9.9
30	4.6	8.5	6.7	7.7	15.0	26.5	23.4	-	28.6	15.8	13.6	10.4
31	4.8	8.8	-	7.6	-	25.5	23.8	-	27.2	-	11.3	-
Minimum	**2.5**	**1.5**	**5.6**	**4.2**	**8.4**	**13.3**	**19.3**	**23.7**	**18.1**	**13.9**	**11.3**	**7.6**
Maximum	**9.3**	**19.3**	**14.5**	**11.8**	**21.0**	**26.6**	**28.0**	**51.5**	**29.7**	**27.4**	**21.2**	**15.5**
Average	**5.5**	**8.0**	**8.8**	**8.7**	**13.4**	**19.8**	**24.5**	**30.0**	**25.3**	**21.8**	**17.0**	**11.2**
Total Volume (af)	**340.0**	**492.2**	**521.1**	**534.0**	**797.9**	**1,220.2**	**1,505.9**	**1,725.3**	**1,553.8**	**1,300.0**	**1,043.7**	**665.9**

Appendix A5
Estimated Average Daily Discharge from Chino Creek to Prado Dam Reservoir
after Watermaster Diversions and Removal of OCWD OC-59 Discharge, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	10.2	4.6	9.1	11.2	9.0	15.9	23.6	418.4	27.9	31.8	15.0	13.0
2	8.7	3.0	14.8	10.9	13.6	15.8	28.4	81.4	96.3	28.5	17.3	12.4
3	8.7	2.4	8.4	11.7	12.3	15.7	86.2	84.2	31.2	30.8	19.8	14.2
4	9.3	3.0	7.7	12.8	12.6	22.0	27.9	542.5	31.8	29.4	19.6	14.2
5	5.8	6.3	9.2	11.3	14.3	17.4	27.0	1,231.2	28.8	37.9	48.7	15.7
6	5.3	6.6	10.1	12.3	12.6	16.7	27.2	470.5	108.6	27.6	22.0	14.8
7	4.8	4.4	9.6	11.7	10.9	16.8	38.8	164.6	69.5	27.4	19.2	12.2
8	6.3	2.9	11.5	12.3	12.3	20.2	27.0	107.0	33.5	25.6	18.3	14.3
9	7.7	3.8	11.7	11.1	11.9	17.9	25.9	37.0	32.6	24.3	18.6	16.3
10	6.5	6.2	13.4	9.0	13.5	17.2	25.7	32.2	31.5	25.1	20.3	13.0
11	6.5	7.3	12.4	9.7	14.4	16.7	24.3	31.6	31.5	20.8	19.1	13.2
12	7.0	7.2	11.5	9.2	14.5	14.0	24.7	28.2	29.3	24.2	21.8	12.8
13	7.0	7.6	11.2	8.2	9.2	16.7	23.9	30.5	28.4	31.5	20.7	13.7
14	4.6	6.6	11.8	10.0	9.4	17.3	25.1	29.6	27.1	81.6	22.3	11.1
15	8.6	6.5	11.3	11.8	95.8	15.8	25.5	29.3	25.5	27.9	21.3	11.9
16	8.8	6.4	12.5	11.9	22.3	20.4	23.3	26.7	26.3	23.9	17.9	13.6
17	7.3	6.4	11.6	5.9	21.7	20.4	20.1	28.6	26.9	22.8	17.4	11.6
18	5.6	6.8	12.3	4.8	25.1	19.8	20.9	25.6	26.7	22.4	18.1	10.4
19	6.4	8.6	11.6	6.4	21.9	26.9	21.8	91.0	27.6	21.4	18.6	9.4
20	3.9	555.9	8.1	6.2	19.1	113.0	48.4	523.6	25.9	22.8	20.1	8.7
21	3.2	207.3	7.2	7.0	14.3	36.1	35.2	215.8	25.4	23.4	18.4	9.3
22	4.0	18.3	7.2	9.1	12.4	74.8	268.4	33.0	23.9	21.9	17.8	10.0
23	6.8	17.8	9.8	9.9	17.0	25.2	29.7	32.4	30.8	15.3	17.9	13.2
24	6.2	15.6	15.5	12.4	12.5	24.5	26.2	31.7	71.7	21.4	17.1	10.6
25	4.6	14.2	12.1	9.5	13.2	24.7	25.9	33.0	27.7	22.9	17.2	9.9
26	5.9	13.5	7.4	9.2	13.2	23.9	25.5	32.3	22.5	20.1	17.0	11.3
27	5.5	15.2	6.5	7.8	11.8	25.2	27.4	31.6	20.5	20.3	17.8	9.2
28	8.6	15.1	6.4	8.7	11.0	23.2	26.1	31.1	22.0	22.6	17.9	8.2
29	7.3	12.3	6.5	9.9	12.5	22.8	27.0	30.6	25.3	21.6	18.5	10.4
30	6.4	9.9	8.0	8.3	15.8	57.5	24.2	-	376.6	17.1	14.7	10.9
31	6.7	10.0	-	8.2	-	26.6	24.5	-	68.3	-	12.5	-
Minimum	**3.2**	**2.4**	**6.4**	**4.8**	**9.0**	**14.0**	**20.1**	**25.6**	**20.5**	**15.3**	**12.5**	**8.2**
Maximum	**10.2**	**555.9**	**15.5**	**12.8**	**95.8**	**113.0**	**268.4**	**1,231.2**	**376.6**	**81.6**	**48.7**	**16.3**
Average	**6.6**	**32.6**	**10.2**	**9.6**	**17.0**	**26.5**	**36.6**	**154.7**	**47.8**	**26.5**	**19.5**	**12.0**
Total Volume (af)	**405.1**	**2,006.9**	**608.5**	**591.4**	**1,011.9**	**1,628.3**	**2,253.0**	**8,897.1**	**2,939.3**	**1,574.9**	**1,195.9**	**713.3**

Appendix A6

Daily Diversions of Stormwater and Dry-Weather Discharges to Recharge Basins from the Chino Creek Tributary System, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.0	0.0	19.0	0.0	0.0	0.0	0.0	75.2	2.7	0.0	0.0	0.0
2	0.0	0.0	25.8	0.0	0.0	0.0	0.0	0.2	55.2	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	22.8	0.7	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	145.9	0.0	7.2	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	184.6	0.0	7.2	24.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.4	26.6	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	6.3	31.1	16.9	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
10	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.9	0.0	0.0
15	0.0	0.0	0.0	0.0	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	1.8	0.0	30.5	0.0	0.0	0.0	0.0
20	0.0	166.1	0.0	0.0	0.0	31.1	14.4	123.0	0.0	0.0	0.0	0.0
21	0.0	52.8	0.0	0.0	0.0	0.8	10.6	36.6	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	14.9	71.5	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	12.5	0.0	0.0	17.6	0.0	-	104.7	0.0	0.0	0.0
31	0.0	0.0	-	0.0	-	0.0	0.0	-	9.1	-	0.0	-
Minimum	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Maximum	**0.0**	**166.1**	**25.8**	**4.3**	**18.7**	**31.1**	**71.5**	**184.6**	**104.7**	**38.9**	**24.0**	**0.0**
Average	**0.0**	**7.1**	**2.0**	**0.1**	**0.6**	**2.1**	**4.1**	**24.4**	**7.4**	**2.1**	**0.8**	**0.0**
Total Volume (af)	**0.6**	**434.1**	**118.9**	**8.5**	**37.0**	**131.2**	**251.6**	**1,402.0**	**452.0**	**124.3**	**47.6**	**0.0**

Note: On days when the non-replenishment discharge recorded was greater than the measured recharge, the total diversion volume was manually changed to 0.

Appendix A7
Estimated Average Daily Discharge from Chino Creek to Prado Dam Reservoir without Watermaster Diversion, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	10.2	4.6	28.1	11.2	9.0	15.9	23.6	493.6	30.6	31.8	15.0	13.0
2	8.7	3.1	40.7	10.9	13.6	15.8	28.4	81.6	151.6	28.5	17.3	12.4
3	8.7	2.4	8.4	11.7	12.3	15.7	109.0	84.9	31.2	30.8	19.8	14.2
4	9.3	3.0	7.7	12.8	12.6	22.0	27.9	688.4	31.8	36.6	19.6	14.2
5	5.8	6.3	9.3	11.3	14.3	17.4	27.0	1,415.8	28.8	45.1	72.7	15.7
6	5.3	6.6	10.1	12.3	12.6	16.7	27.2	544.9	135.2	27.6	22.0	14.8
7	4.8	4.4	9.6	11.7	10.9	16.8	45.0	195.7	86.4	27.4	19.2	12.2
8	6.3	2.9	11.6	12.3	12.3	20.2	27.0	107.0	33.5	25.6	18.3	14.3
9	7.7	3.8	11.7	11.1	11.9	17.9	25.9	38.0	32.6	24.3	18.6	16.3
10	6.5	6.2	15.0	9.0	13.5	17.2	25.7	32.2	31.5	25.1	20.3	13.0
11	6.5	7.3	12.5	9.7	14.4	16.7	24.3	31.6	31.5	20.8	19.1	13.2
12	7.0	7.2	11.6	9.2	14.5	14.0	24.7	28.2	29.3	24.2	21.8	12.8
13	7.0	7.6	11.2	8.2	9.2	16.7	23.9	30.5	28.4	40.9	20.7	13.7
14	4.6	6.6	11.9	10.0	9.4	17.3	25.1	29.6	27.1	120.4	22.3	11.1
15	8.7	6.5	11.3	11.8	114.4	15.8	25.5	29.3	25.5	27.9	21.3	11.9
16	8.8	6.4	12.6	11.9	22.3	20.4	23.3	26.7	26.4	23.9	17.9	13.6
17	7.3	6.4	11.6	5.9	21.7	20.4	20.1	28.6	27.0	22.8	17.4	11.6
18	5.6	6.8	12.3	4.8	25.1	19.8	20.9	25.6	26.7	22.4	18.1	10.4
19	6.4	8.6	11.7	6.4	21.9	28.7	21.8	121.5	27.7	21.4	18.6	9.4
20	3.9	722.0	8.2	6.2	19.1	144.0	62.8	646.6	25.9	22.8	20.1	8.7
21	3.2	260.1	7.3	7.0	14.3	36.9	45.8	252.4	25.4	23.4	18.4	9.3
22	4.0	18.3	7.3	9.1	12.4	89.7	339.9	33.0	24.0	21.9	17.8	10.0
23	6.8	17.8	9.9	14.2	17.0	25.2	29.7	32.4	33.8	15.3	17.9	13.2
24	6.2	15.6	15.5	12.4	12.5	24.5	26.2	31.7	80.8	21.4	17.1	10.6
25	4.6	14.2	12.2	9.5	13.2	24.7	27.2	33.0	27.7	22.9	17.2	9.9
26	5.9	13.5	7.5	9.2	13.2	23.9	25.5	34.1	22.5	20.1	17.0	11.3
27	5.5	15.2	6.6	7.8	11.8	25.2	27.4	33.4	20.5	20.3	17.8	9.2
28	8.6	15.1	6.5	8.7	11.0	23.2	26.1	31.1	22.1	22.6	17.9	8.2
29	7.3	12.3	6.6	9.9	12.5	22.8	27.0	30.6	25.4	21.6	18.5	10.4
30	6.5	9.9	20.5	8.3	15.8	75.1	24.2	-	481.4	17.1	14.7	10.9
31	6.7	10.0	-	8.2	-	26.6	24.5	-	77.4	-	12.5	-
Minimum	**3.2**	**2.4**	**6.5**	**4.8**	**9.0**	**14.0**	**20.1**	**25.6**	**20.5**	**15.3**	**12.5**	**8.2**
Maximum	**10.2**	**722.0**	**40.7**	**14.2**	**114.4**	**144.0**	**339.9**	**1,415.8**	**481.4**	**120.4**	**72.7**	**16.3**
Average	**6.6**	**39.7**	**12.2**	**9.8**	**17.6**	**28.6**	**40.7**	**179.0**	**55.2**	**28.6**	**20.2**	**12.0**
Total Volume (af)	**405.7**	**2,441.0**	**727.4**	**599.9**	**1,048.9**	**1,759.5**	**2,504.6**	**10,299.1**	**3,391.4**	**1,699.2**	**1,243.5**	**713.3**

Appendix B1 – B3

Appendix B1

Estimated Average Daily Discharge from Cucamonga Creek to Prado Dam Reservoir after Watermaster Diversions, (cfs)

(Average Daily Discharge at USGS Gage 11073495)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	5.5	0.0	40.8	32.5	12.0	41.8	39.3	368.0	111.0	51.9	9.5	28.1
2	4.7	0.5	6.8	13.5	3.6	40.3	46.2	37.7	693.0	41.2	13.2	24.4
3	0.3	0.0	8.2	3.1	6.3	38.5	120.0	21.7	212.0	37.1	17.2	30.7
4	0.9	0.1	5.2	2.1	9.9	31.8	30.3	429.0	121.0	25.8	19.9	22.2
5	0.4	1.0	3.5	0.5	14.6	20.9	22.8	3,640.0	69.8	33.2	121.0	18.3
6	1.6	2.3	2.4	0.1	3.7	23.7	23.5	1,780.0	222.0	36.7	22.8	18.5
7	3.5	0.5	3.2	0.3	8.7	19.0	32.1	528.0	768.0	33.4	19.7	26.6
8	4.9	0.3	3.1	2.3	14.8	23.4	23.3	160.0	83.8	27.2	18.4	28.6
9	9.2	0.7	6.6	7.3	6.9	25.2	22.5	88.2	51.6	34.3	13.3	33.9
10	4.0	1.6	10.9	9.3	10.3	26.5	20.4	177.0	58.3	33.7	14.1	31.3
11	0.6	6.6	6.3	15.1	12.5	25.3	19.5	152.0	72.3	17.9	14.1	25.3
12	0.0	10.7	3.0	18.0	13.8	23.6	18.7	102.0	68.2	34.3	19.1	24.4
13	0.0	20.6	1.9	11.3	9.7	21.4	21.3	127.0	72.1	48.6	16.1	26.3
14	0.1	18.0	2.8	15.2	26.6	27.6	20.1	70.9	94.0	171.0	16.7	15.8
15	0.0	15.0	2.8	18.1	112.0	24.5	16.0	14.8	84.7	29.4	14.7	14.1
16	0.3	4.4	5.5	25.0	43.7	28.5	14.9	15.9	76.8	31.0	23.3	24.0
17	0.6	4.9	9.2	23.5	48.2	27.2	17.9	17.1	86.3	34.9	23.1	32.4
18	0.4	2.6	6.6	18.5	48.0	31.7	20.4	19.5	91.8	31.3	22.6	24.2
19	0.3	44.5	1.7	11.4	38.2	38.8	20.4	148.0	80.1	25.7	31.9	20.8
20	0.4	735.0	5.4	15.3	35.5	87.6	63.3	1,370.0	81.4	32.8	29.3	26.9
21	0.6	435.0	10.7	9.7	23.6	166.0	115.0	549.0	76.1	31.9	27.2	21.1
22	0.8	23.3	11.2	11.8	26.0	238.0	440.0	121.0	71.9	31.0	30.8	27.9
23	12.3	18.1	15.4	20.0	24.5	80.4	64.2	93.9	85.4	26.1	23.4	22.6
24	21.9	19.8	15.0	13.4	19.3	72.3	14.6	74.6	93.5	14.1	27.9	9.3
25	23.8	8.0	9.1	12.8	26.4	72.0	19.1	75.3	82.7	19.2	21.6	12.2
26	73.8	2.3	4.1	14.1	30.4	63.1	13.3	88.6	86.4	18.5	24.9	49.5
27	35.2	15.7	3.7	14.4	32.3	50.5	13.9	89.5	94.7	20.0	22.3	5.9
28	3.5	79.4	5.0	7.2	27.5	27.0	14.6	83.7	99.5	21.2	25.2	4.9
29	0.4	47.0	5.4	16.4	11.8	29.1	16.4	94.2	110.0	26.0	21.5	10.9
30	3.5	181.0	51.9	24.6	39.7	49.4	19.6	--	701.0	12.6	24.7	22.5
31	8.1	44.6	--	15.6	--	32.6	20.3	--	143.0	--	27.5	--
Minimum	**0.0**	**0.0**	**1.7**	**0.1**	**3.6**	**19.0**	**13.3**	**14.8**	**51.6**	**12.6**	**9.5**	**4.9**
Maximum	**73.8**	**735.0**	**51.9**	**32.5**	**112.0**	**238.0**	**440.0**	**3,640.0**	**768.0**	**171.0**	**121.0**	**49.5**
Average	**7.2**	**56.2**	**8.9**	**13.0**	**24.7**	**48.6**	**44.0**	**363.3**	**156.2**	**34.4**	**24.4**	**22.8**
Total Volume (af)	**439.8**	**3,458.1**	**529.8**	**797.8**	**1,468.7**	**2,990.5**	**2,705.3**	**20,899.0**	**9,604.8**	**2,046.9**	**1,501.4**	**1,355.8**

Note: For July 1, 2023 to December 1, 2023, data have been approved by the USGS; data after December 1, 2023 are provisional.

Appendix B2

Daily Diversions to Recharge Basins on the Cucamonga Creek Tributary System, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.4	0.5	40.8	0.5	0.9	0.8	0.3	147.4	7.9	3.6	1.0	0.2
2	0.4	0.5	5.1	0.5	0.9	0.8	0.3	12.6	110.7	3.6	1.0	0.2
3	0.4	0.5	1.5	0.5	0.9	0.8	58.9	6.7	12.9	1.8	1.0	0.2
4	0.4	0.5	1.5	0.5	0.9	0.4	0.1	101.5	2.4	0.4	1.0	0.2
5	0.4	0.5	1.5	0.5	0.9	0.4	0.3	42.7	0.4	3.3	19.2	0.2
6	0.4	0.5	0.4	0.5	0.9	0.4	0.3	34.2	43.2	0.4	3.0	0.2
7	0.4	0.5	0.4	0.5	0.9	0.4	10.0	29.7	15.9	0.4	2.3	0.2
8	0.4	0.5	0.4	0.5	0.9	0.4	0.3	5.9	14.0	0.4	0.7	0.2
9	0.4	0.5	0.4	0.5	0.9	0.4	0.4	14.0	3.1	0.5	0.7	0.2
10	0.4	0.5	2.2	0.5	0.9	0.4	0.3	3.7	1.7	0.7	0.7	0.2
11	0.4	0.5	0.4	0.9	0.9	0.5	0.3	3.6	0.8	0.8	0.7	0.5
12	0.4	60.3	0.4	0.9	0.9	0.5	0.3	1.5	0.8	0.8	0.7	0.5
13	0.4	0.5	0.4	0.9	0.9	0.5	0.3	1.5	0.8	16.4	0.7	0.5
14	67.6	0.5	0.5	0.9	0.9	0.5	0.3	1.5	0.4	68.7	0.9	0.5
15	0.4	0.5	0.5	0.9	107.9	0.5	0.3	1.4	0.5	12.9	0.2	0.5
16	0.4	0.5	0.5	0.9	0.9	0.5	0.3	1.4	0.4	2.7	0.2	0.5
17	0.4	0.5	0.5	0.9	0.9	0.5	0.3	0.1	0.4	1.0	0.2	0.4
18	0.4	0.4	16.5	0.9	0.9	0.3	0.3	0.2	0.4	1.0	0.2	0.4
19	0.4	0.3	0.5	0.9	0.9	16.5	0.3	52.3	0.4	0.9	0.2	0.3
20	0.4	306.6	0.5	0.9	0.9	69.5	34.0	115.4	0.4	0.9	0.2	0.3
21	0.4	41.8	0.5	0.9	0.8	10.8	34.3	20.1	0.4	0.9	0.2	0.3
22	0.4	17.8	0.5	0.9	0.8	55.9	150.3	1.7	0.4	0.9	0.2	0.3
23	0.4	1.6	0.5	27.8	0.8	2.0	5.6	1.7	8.9	1.0	0.2	0.3
24	0.4	0.8	0.5	0.9	0.8	1.1	3.8	1.6	13.0	1.0	0.2	0.3
25	0.4	0.5	15.2	0.9	0.8	0.3	5.9	1.5	0.4	1.0	0.2	0.3
26	0.4	0.5	0.5	0.9	0.8	0.3	0.1	5.2	0.4	1.0	0.2	0.3
27	0.4	0.5	1.7	0.9	0.8	0.3	0.1	2.2	0.5	1.0	0.2	0.3
28	0.4	0.5	0.5	0.9	0.8	0.3	0.1	1.0	0.5	1.0	0.2	0.3
29	0.4	0.5	0.5	0.9	0.8	0.3	0.1	0.2	0.5	1.1	0.2	0.3
30	0.4	0.5	15.5	0.9	0.9	35.3	0.1	-	223.3	1.0	0.2	0.3
31	0.4	0.3	-	0.9	-	0.3	0.1	-	20.0	-	0.2	-
Minimum	**0.4**	**0.3**	**0.4**	**0.5**	**0.8**	**0.3**	**0.1**	**0.1**	**0.4**	**0.4**	**0.2**	**0.2**
Maximum	**67.6**	**306.6**	**40.8**	**27.8**	**107.9**	**69.5**	**150.3**	**147.4**	**223.3**	**68.7**	**19.2**	**0.5**
Average	**2.6**	**14.2**	**3.7**	**1.7**	**4.5**	**6.5**	**10.0**	**21.1**	**15.7**	**4.4**	**1.2**	**0.3**
Total Volume (af)	**157.5**	**873.4**	**220.4**	**102.0**	**264.9**	**401.3**	**612.9**	**1,215.0**	**964.4**	**260.4**	**74.5**	**19.8**

Appendix B3
Estimated Average Daily Discharge from Cucamonga Creek to Prado Dam Reservoir without Watermaster Diversions, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	5.9	0.5	81.6	33.0	12.9	42.6	39.6	515.4	118.9	55.5	10.5	28.3
2	5.1	1.0	11.9	14.0	4.5	41.1	46.5	50.3	803.7	44.8	14.2	24.6
3	0.7	0.5	9.7	3.7	7.2	39.3	178.9	28.4	224.9	38.9	18.2	30.9
4	1.3	0.6	6.6	2.6	10.8	32.2	30.4	530.5	123.4	26.2	20.9	22.4
5	0.8	1.5	4.9	1.0	15.5	21.3	23.1	3,682.7	70.2	36.5	140.2	18.5
6	2.0	2.8	2.8	0.6	4.6	24.1	23.8	1,814.2	265.2	37.1	25.8	18.7
7	3.9	0.9	3.6	0.8	9.6	19.4	42.1	557.7	783.9	33.8	22.0	26.8
8	5.2	0.8	3.5	2.9	15.7	23.8	23.6	165.9	97.8	27.6	19.1	28.8
9	9.6	1.2	7.0	7.8	7.8	25.6	22.9	102.2	54.7	34.8	14.0	34.1
10	4.4	2.0	13.1	9.8	11.2	26.9	20.7	180.7	60.0	34.4	14.8	31.5
11	1.0	7.0	6.7	16.0	13.4	25.8	19.8	155.6	73.1	18.7	14.8	25.8
12	0.4	71.0	3.3	18.9	14.7	24.1	19.0	103.5	69.0	35.1	19.8	24.9
13	0.4	21.1	2.3	12.2	10.6	21.9	21.6	128.5	72.9	65.0	16.8	26.8
14	67.7	18.5	3.3	16.1	27.5	28.1	20.4	72.4	94.4	239.7	17.6	16.3
15	0.4	15.5	3.3	19.0	219.9	25.0	16.3	16.2	85.2	42.3	14.9	14.6
16	0.6	4.9	6.0	25.9	44.6	29.0	15.2	17.3	77.2	33.7	23.5	24.5
17	1.0	5.3	9.7	24.4	49.1	27.7	18.2	17.2	86.7	35.9	23.3	32.8
18	0.8	3.0	23.1	19.4	48.9	32.0	20.7	19.7	92.2	32.3	22.8	24.6
19	0.7	44.8	2.2	12.3	39.1	55.3	20.7	200.3	80.5	26.6	32.1	21.1
20	0.7	1,041.6	5.9	16.2	36.4	157.1	97.3	1,485.4	81.8	33.7	29.5	27.2
21	1.0	476.8	11.2	10.6	24.4	176.8	149.3	569.1	76.5	32.8	27.4	21.4
22	1.2	41.1	11.7	12.7	26.8	293.9	590.3	122.7	72.3	31.9	31.0	28.2
23	12.7	19.7	15.9	47.8	25.3	82.4	69.8	95.6	94.3	27.1	23.6	22.9
24	22.3	20.6	15.5	14.3	20.1	73.4	18.4	76.2	106.5	15.1	28.1	9.6
25	24.2	8.4	24.3	13.7	27.2	72.3	25.0	76.8	83.1	20.2	21.8	12.5
26	74.2	2.8	4.6	15.0	31.2	63.4	13.4	93.8	86.8	19.5	25.1	49.8
27	35.6	16.2	5.4	15.3	33.1	50.8	14.0	91.7	95.2	21.0	22.5	6.2
28	3.9	79.9	5.5	8.1	28.3	27.3	14.7	84.7	100.0	22.2	25.4	5.2
29	0.8	47.5	5.9	17.3	12.6	29.4	16.5	94.4	110.5	27.1	21.7	11.2
30	3.9	181.5	67.4	25.5	40.6	84.7	19.7	--	924.3	13.6	24.9	22.8
31	8.5	44.9	--	16.5	--	32.9	20.4	--	163.0	--	27.7	--
Minimum	**0.4**	**0.5**	**2.2**	**0.6**	**4.5**	**19.4**	**13.4**	**16.2**	**54.7**	**13.6**	**10.5**	**5.2**
Maximum	**74.2**	**1,041.6**	**81.6**	**47.8**	**219.9**	**293.9**	**590.3**	**3,682.7**	**924.3**	**239.7**	**140.2**	**49.8**
Average	**9.7**	**70.4**	**12.6**	**14.6**	**29.1**	**55.2**	**54.0**	**384.5**	**171.9**	**38.8**	**25.6**	**23.1**
Total Volume (af)	**597.3**	**4,331.5**	**750.2**	**899.8**	**1,733.5**	**3,391.8**	**3,318.2**	**22,114.0**	**10,569.2**	**2,307.4**	**1,575.9**	**1,375.6**

Appendix C1 – C3

Appendix C1
WLAM Estimated Daily Discharge from Day Creek to the Santa Ana River without Watermaster Diversions (Stormwater Flow only), (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.0	0.0	3.6	0.0	0.0	0.0	1.9	162.1	9.6	50.1	0.3	0.0
2	0.0	0.0	1.6	0.0	0.0	0.0	1.5	90.9	53.2	21.1	0.2	0.0
3	0.0	0.0	1.2	0.0	0.0	0.0	24.1	39.5	30.6	10.7	0.0	0.0
4	0.0	0.0	0.8	0.0	0.0	0.0	12.3	729.7	14.5	5.7	2.0	0.0
5	0.0	0.0	0.6	0.0	0.0	0.0	6.5	1,334.3	7.6	5.8	4.7	0.0
6	0.0	0.0	0.3	0.0	0.0	0.0	4.6	631.7	68.3	4.3	1.6	0.0
7	0.0	0.0	0.1	0.0	0.0	0.0	3.6	705.1	62.0	3.4	1.2	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	2.9	218.7	38.6	2.7	0.9	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	2.2	108.8	17.2	2.1	0.6	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	1.7	71.0	8.9	1.6	0.4	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	1.3	29.1	5.0	1.2	0.2	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	1.0	13.9	3.9	0.9	0.1	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.7	7.3	3.1	4.2	0.1	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.5	2.4	14.1	0.1	0.0
15	0.0	0.0	0.0	0.0	16.6	0.0	0.4	3.6	2.2	12.6	0.1	0.0
16	0.0	0.0	0.0	0.0	5.1	0.0	0.2	2.9	1.5	6.6	0.0	0.0
17	0.0	0.0	0.0	0.0	3.9	0.0	0.1	2.3	1.1	4.3	0.0	0.0
18	0.0	0.0	0.0	0.0	3.1	0.6	0.1	1.8	0.8	3.4	0.0	0.0
19	0.0	0.1	0.0	0.0	2.5	0.0	0.0	69.3	0.6	2.7	0.0	0.0
20	0.0	781.3	0.0	0.0	1.9	24.5	45.9	529.9	0.4	2.1	0.0	0.0
21	0.0	126.0	0.0	0.0	1.5	42.9	30.3	140.7	0.3	1.6	0.0	0.0
22	0.0	42.5	0.0	0.0	1.1	22.0	152.0	69.7	0.1	1.2	0.0	0.0
23	0.0	18.5	0.0	5.1	0.8	11.7	78.6	28.4	3.1	1.0	0.0	0.0
24	0.0	9.4	0.0	0.0	0.6	6.2	32.6	13.7	1.3	0.9	0.0	0.0
25	0.0	5.1	0.0	0.0	0.4	4.3	15.2	7.2	1.1	0.9	0.0	0.0
26	0.0	3.8	0.0	0.0	0.2	3.4	8.0	8.3	0.8	0.8	0.0	0.0
27	0.0	3.0	0.0	0.0	0.1	2.7	4.7	6.2	0.6	0.7	0.0	0.0
28	0.0	2.2	0.0	0.0	0.0	2.1	3.7	4.3	0.4	0.7	0.0	0.0
29	0.0	1.6	0.0	0.0	0.0	1.7	3.0	3.4	16.1	0.6	0.0	0.0
30	0.0	1.2	4.2	0.0	0.0	3.3	2.3	-	242.3	0.5	0.0	0.0
31	0.0	0.8	-	0.0	-	2.4	1.8	-	120.7	-	0.0	-
Minimum	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.8**	**0.1**	**0.5**	**0.0**	**0.0**
Maximum	**0.0**	**781.3**	**4.2**	**5.1**	**16.6**	**42.9**	**152.0**	**1,334.3**	**242.3**	**50.1**	**4.7**	**0.0**
Average	**0.0**	**32.1**	**0.4**	**0.2**	**1.3**	**4.1**	**14.3**	**173.7**	**23.2**	**5.6**	**0.4**	**0.0**
Total Volume (af)	**0.0**	**1,974.5**	**24.6**	**10.1**	**75.0**	**253.5**	**880.1**	**9,993.3**	**1,424.7**	**334.0**	**24.8**	**0.0**

Note: On dates highlighted in grey, stormwater was recharged in diversion basins. Stormwater can continue to be recharged for several days after a storm has passed.

Appendix C2
Daily Diversions to Recharge Basins on the Day Creek Tributary System, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.0	0.0	3.6	0.0	0.0	0.0	0.0	12.3	0.7	4.0	0.3	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.4	3.1	0.2	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.7	2.2	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.7	1.3	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.4	0.7	1.2	4.7	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6	1.8	1.2	0.1	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.3	1.1	0.1	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.1	0.1	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.0	0.8	0.1	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.5	0.1	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.3	0.1	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.3	0.1	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.2	0.1	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	2.9	0.1	0.0
15	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	1.5	1.3	0.1	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.1	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.4	0.8	0.0	0.0
20	0.0	13.0	0.0	0.0	0.0	2.5	3.3	25.7	0.3	0.9	0.0	0.0
21	0.0	11.7	0.0	0.0	0.0	0.3	1.9	9.2	0.2	1.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	4.0	10.3	8.7	0.1	1.0	0.0	0.0
23	0.0	0.0	0.0	5.1	0.0	0.0	0.0	6.8	0.0	1.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.9	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.9	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.8	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.7	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.7	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.6	0.0	0.0
30	0.0	0.0	4.2	0.0	0.0	3.3	0.0	-	9.8	0.5	0.0	0.0
31	0.0	0.0	-	0.0	-	0.0	0.0	-	1.7	-	0.0	-
Minimum	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.3**	**0.0**	**0.0**
Maximum	**0.0**	**13.0**	**4.2**	**5.1**	**6.8**	**4.0**	**10.3**	**61.4**	**9.8**	**4.0**	**4.7**	**0.0**
Average	**0.0**	**0.8**	**0.3**	**0.2**	**0.2**	**0.3**	**0.6**	**6.3**	**1.6**	**1.2**	**0.2**	**0.0**
Total Volume (af)	**1.5**	**49.9**	**15.8**	**10.4**	**13.7**	**20.5**	**37.9**	**364.1**	**96.5**	**68.9**	**12.5**	**0.8**

Note: On dates highlighted in grey, stormwater was recharged in diversion basins. Stormwater can continue to be recharged for several days after a storm has passed.

Appendix C3
Estimated Daily Dry-Weather Flows Captured by Diversion Basins, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
31	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	-
Minimum	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Maximum	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Average	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Total Volume (af)	**1.5**	**0.5**	**0.2**	**0.3**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.8**

Note: On dates highlighted in grey, stormwater was recharged in diversion basins. Stormwater can continue to be recharged for several days after a storm has passed. On dates when stormwater diversions are measured after storm flow has stopped, dry-weather flows could not be estimated and are assumed to be 0. Within each storm period, however, any diversions in excess of total WLAM estimated stormflow are assumed to be dry-weather flows.

Appendix D1 – D3

Appendix D1

WLAM Estimated Daily Discharge from San Sevaine Creek to the Santa Ana River without Watermaster Diversions (Stormwater Flow only), (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.0	0.0	12.2	0.0	0.0	0.0	0.0	571.3	52.1	92.8	0.0	0.0
2	0.0	0.0	15.3	0.0	0.0	0.0	0.0	15.6	178.3	17.7	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	81.7	12.4	6.7	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,892.1	32.9	6.4	28.7	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,064.1	0.0	19.5	53.3	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	3.1	1,244.1	215.1	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	9.9	1,049.3	140.2	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	318.4	0.2	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.7	55.3	0.0	0.0	0.0
10	0.0	0.0	4.2	0.0	0.0	0.0	0.0	26.8	0.3	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.2	0.0	0.0
15	0.0	0.0	0.0	0.0	150.8	0.0	0.0	0.0	45.6	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	3.1	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	6.8	0.0	266.6	0.0	0.0	0.0	0.0
20	0.0	1,950.3	0.0	0.0	0.0	136.4	175.5	1,265.5	0.0	0.0	0.0	0.0
21	0.0	91.0	0.0	0.0	0.0	100.0	59.8	95.6	0.0	0.0	0.0	0.0
22	0.0	27.8	0.0	2.8	0.0	130.6	372.2	140.6	0.0	0.0	0.0	0.0
23	0.0	0.5	0.0	24.8	0.0	0.0	1.0	42.1	20.7	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	27.5	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	0.0	3.9	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.1	0.0	0.0	0.0
30	0.0	0.0	27.2	0.0	0.0	34.7	0.0	-	673.1	0.0	0.0	0.0
31	0.0	0.0	-	0.0	-	0.0	0.0	-	52.5	-	0.0	-
Minimum	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Maximum	**0.0**	**1,950.3**	**27.2**	**24.8**	**150.8**	**136.4**	**372.2**	**3,064.1**	**673.1**	**92.8**	**53.3**	**0.0**
Average	**0.0**	**66.8**	**2.0**	**0.9**	**5.0**	**13.2**	**23.6**	**350.1**	**50.3**	**8.2**	**2.6**	**0.0**
Total (af)	**0.0**	**4,105.0**	**116.9**	**54.8**	**299.7**	**812.9**	**1,449.5**	**20,139.9**	**3,090.5**	**486.7**	**162.7**	**0.0**

Note: On dates highlighted in grey, stormwater was recharged in diversion basins. Stormwater can continue to be recharged for several days after a storm has passed.

Appendix D2
Daily Diversions to Recharge Basins on the San Sevaine Creek Tributary System, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.1	0.1	4.3	0.2	0.2	0.2	0.1	185.5	7.6	9.0	1.9	0.8
2	0.1	0.1	15.3	0.2	0.2	0.2	0.1	15.6	175.3	8.2	1.5	0.8
3	0.1	0.1	7.0	0.7	0.2	0.2	69.6	6.5	23.0	7.3	1.1	0.7
4	0.1	0.1	0.1	0.7	0.2	0.2	0.1	161.7	20.0	6.4	0.7	0.7
5	0.1	0.1	0.2	0.7	0.2	0.2	0.1	130.2	9.6	13.1	53.3	0.6
6	0.1	0.1	0.2	0.7	0.2	0.2	0.1	35.6	83.6	6.0	3.5	0.5
7	0.1	0.1	0.2	0.7	0.2	0.2	9.9	34.2	108.4	5.7	3.0	0.5
8	0.1	0.1	0.2	0.7	0.2	0.2	0.1	8.1	17.1	5.5	2.5	0.4
9	0.1	0.1	0.2	0.2	0.2	0.2	0.1	18.4	15.3	5.5	2.0	0.4
10	0.1	0.1	4.2	0.2	0.2	0.2	0.1	6.5	12.5	5.6	1.8	0.3
11	0.1	0.1	0.2	0.2	0.2	0.2	0.1	6.5	9.6	5.7	1.8	0.4
12	0.1	0.1	0.2	0.2	0.2	0.2	0.1	6.5	9.1	5.4	1.7	0.4
13	0.1	0.1	0.2	0.2	0.2	0.2	0.1	6.5	8.7	18.8	1.6	0.4
14	0.1	0.1	0.2	0.2	0.2	0.2	0.1	6.7	6.2	83.2	1.5	0.4
15	0.1	0.1	0.2	0.2	82.0	0.2	0.1	5.3	45.6	6.3	1.7	0.4
16	0.1	0.1	0.2	0.2	0.2	0.2	0.1	4.4	5.7	5.7	1.7	0.4
17	0.1	0.1	0.2	0.2	0.2	0.2	0.1	3.7	5.5	4.3	1.6	0.4
18	0.1	0.1	0.2	0.2	0.2	0.2	0.1	3.2	5.2	3.8	1.5	0.4
19	0.1	0.1	0.2	0.2	0.2	6.8	0.1	61.4	5.0	3.6	1.4	0.4
20	0.1	249.5	0.2	0.2	0.2	136.4	80.6	262.2	4.9	3.4	1.2	0.4
21	0.1	91.0	0.2	0.2	0.2	3.9	59.8	55.7	4.6	3.3	1.2	0.3
22	0.1	4.3	0.2	0.2	0.2	130.6	114.5	12.7	4.4	3.2	1.1	0.3
23	0.1	1.8	0.2	24.8	0.2	0.1	0.1	10.7	20.7	3.3	1.1	0.3
24	0.1	0.7	0.2	0.2	0.2	0.1	0.1	9.8	17.1	3.3	1.0	0.3
25	0.1	0.1	0.2	0.2	0.2	0.1	27.5	9.0	2.7	3.2	1.0	0.3
26	2.9	0.1	0.2	0.2	0.2	0.1	0.1	13.0	3.1	3.2	1.0	0.3
27	2.9	0.1	0.2	0.2	0.2	0.1	0.1	12.2	4.1	3.2	0.9	0.3
28	0.1	0.1	0.2	0.2	0.2	0.1	0.1	4.5	4.5	3.2	0.9	0.3
29	0.1	0.1	0.2	0.2	0.2	0.1	0.1	3.9	4.5	3.2	0.8	0.3
30	0.1	0.1	27.2	0.2	0.2	34.7	0.1	-	247.4	2.8	0.8	0.3
31	0.1	0.1	-	0.2	-	0.1	0.1	-	52.5	-	0.8	-
Minimum	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.1**	**0.1**	**3.2**	**2.7**	**2.8**	**0.7**	**0.3**
Maximum	**2.9**	**249.5**	**27.2**	**24.8**	**82.0**	**136.4**	**114.5**	**262.2**	**247.4**	**83.2**	**53.3**	**0.8**
Average	**0.3**	**11.3**	**2.1**	**1.1**	**2.9**	**10.2**	**11.7**	**37.9**	**30.4**	**8.1**	**3.1**	**0.4**
Total (af)	**16.3**	**693.5**	**125.8**	**68.2**	**175.1**	**629.1**	**722.0**	**2,182.5**	**1,871.4**	**484.7**	**192.9**	**25.1**

Note: On dates highlighted in grey, stormwater was recharged in diversion basins. Stormwater can continue to be recharged for several days after a storm has passed.

Appendix D3
Estimated Daily Dry-Weather Flows Captured by Diversion Basins, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.0	0.0	0.0	1.9	0.8
2	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.0	0.0	0.0	1.5	0.8
3	0.1	0.1	7.0	0.7	0.2	0.2	0.0	0.0	0.0	7.3	1.1	0.7
4	0.1	0.1	0.1	0.7	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.7
5	0.1	0.1	0.2	0.7	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.6
6	0.1	0.1	0.2	0.7	0.2	0.2	0.0	0.0	0.0	6.0	3.5	0.5
7	0.1	0.1	0.2	0.7	0.0	0.2	0.0	0.0	0.0	5.7	3.0	0.5
8	0.1	0.1	0.2	0.7	0.0	0.2	0.0	0.0	0.0	5.5	2.5	0.4
9	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	5.5	2.0	0.4
10	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	5.6	1.8	0.3
11	0.1	0.1	0.2	0.2	0.0	0.0	0.0	6.5	9.6	5.7	1.8	0.4
12	0.1	0.1	0.2	0.2	0.0	0.0	0.0	6.5	9.1	0.0	1.7	0.4
13	0.1	0.1	0.2	0.2	0.0	0.0	0.0	6.5	0.0	0.0	1.6	0.4
14	0.1	0.1	0.2	0.2	0.0	0.0	0.0	6.7	6.2	0.0	1.5	0.4
15	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	6.3	1.7	0.4
16	0.1	0.1	0.2	0.2	0.0	0.0	0.0	4.4	5.7	2.6	1.7	0.4
17	0.1	0.1	0.2	0.2	0.2	0.0	0.0	3.7	5.5	4.3	1.6	0.4
18	0.1	0.1	0.2	0.2	0.2	0.0	0.0	3.2	0.0	3.8	1.5	0.4
19	0.1	0.1	0.2	0.2	0.2	0.0	0.0	0.0	5.0	3.6	1.4	0.4
20	0.1	0.0	0.2	0.2	0.2	0.0	0.0	0.0	4.9	3.4	1.2	0.4
21	0.1	0.0	0.2	0.2	0.2	0.0	0.0	0.0	4.6	3.3	1.2	0.3
22	0.1	0.0	0.2	0.0	0.2	0.0	0.0	0.0	4.4	3.2	1.1	0.3
23	0.1	1.3	0.2	0.0	0.2	0.0	0.0	0.0	0.0	3.3	1.1	0.3
24	0.1	0.7	0.2	0.2	0.2	0.0	0.0	9.8	0.0	3.3	1.0	0.3
25	0.1	0.1	0.2	0.0	0.2	0.0	0.0	9.0	0.0	3.2	1.0	0.3
26	2.9	0.1	0.2	0.0	0.2	0.0	0.1	0.0	0.0	0.0	1.0	0.3
27	2.9	0.1	0.2	0.2	0.2	0.0	0.1	0.0	0.0	3.2	0.9	0.3
28	0.1	0.1	0.2	0.2	0.2	0.0	0.1	4.5	0.0	3.2	0.9	0.3
29	0.1	0.1	0.2	0.2	0.2	0.0	0.1	0.0	0.0	3.2	0.8	0.3
30	0.1	0.1	0.0	0.2	0.2	0.0	0.1	-	0.0	2.8	0.8	0.3
31	0.1	0.1	-	0.2	-	0.0	0.0	-	0.0	-	0.8	-
Minimum	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.3**
Maximum	**2.9**	**1.3**	**7.0**	**0.7**	**0.2**	**0.2**	**0.1**	**9.8**	**9.6**	**7.3**	**3.5**	**0.8**
Average	**0.3**	**0.1**	**0.4**	**0.3**	**0.1**	**0.1**	**0.0**	**2.1**	**1.8**	**3.1**	**1.4**	**0.4**
Total (af)	**16.3**	**8.7**	**24.6**	**17.6**	**8.6**	**3.4**	**1.1**	**120.7**	**109.1**	**186.6**	**85.8**	**25.1**

Note: On dates highlighted in grey, stormwater was recharged in diversion basins. Stormwater can continue to be recharged for several days after a storm has passed. On dates when stormwater diversions are measured after storm flow has stopped, dry-weather flows could not be estimated and are assumed to be zero. Within each storm period, however, any diversions in excess of total WLAM estimated stormflow are assumed to be dry-weather flows.

CHINO BASIN WATERMASTER

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STAFF REPORT

DATE: October 10, 2024

TO: AP/ONAP/OAP Committee Members

SUBJECT: Annual and Semi-Annual Plume Status Reports (Business Item II.B.)

Issue: The Annual and Semi-Annual Plume Status Reports for FY 23/24 have been completed [Information Only]

Recommendation: None.

Financial Impact: None.

Future Consideration
Appropriative Pool – October 10, 2024: Advice and assistance.
Non-Agricultural Pool – October 10, 2024: Advice and assistance.
Agricultural Pool – October 10, 2024: Advice and assistance.
Advisory Committee – October 17, 2024: Advice and assistance.
Watermaster Board – October 24, 2024: Approval.

BACKGROUND

Chino Basin Watermaster (Watermaster), at the Court's direction, developed the Optimism Basin Management Program (OBMP) through a collaborative stakeholder process in 2000. One of the goals of the OBMP was to "Protect and Enhance Water Quality" to ensure the protection of the long-term beneficial uses of Chino Basin groundwater. The OBMP includes multiple Program Elements with actions to protect and enhance water quality. Program Element 6 is to Develop and Implement Cooperative Programs with the Regional Board and Other Agencies to Improve Basin Management. Program Element 6 was designed to assess groundwater quality trends in the Basin, evaluate the impact of OBMP implementation on groundwater quality, determine whether point and non-point contamination sources are being addressed by regulators, and enable collaboration with water quality regulators, in particular the Santa Ana Regional Water Quality Control Board (Santa Ana Water Board), to identify and facilitate the cleanup of soil and groundwater contamination.

Pursuant to Program Element 6, Watermaster has committed resources to managing water quality contaminants as follows:

- Identify water quality anomalies through monitoring and analysis.
- Assisting the Santa Ana Water Board in determining sources of water quality anomalies.
- Establishing priorities for clean-up jointly with the Santa Ana Water Board; and seeking funding from outside sources to accelerate detection and cleanup efforts.
- Identifying opportunities to remove organic contaminants through regional groundwater treatment projects in the southern half of the Basin; and collaborating with the Chino Desalter Authority to implement such solutions.
- Conducting investigations to assist the Santa Ana Water Board in accomplishing mutually beneficial objectives.

Much of the work listed above was started by the Chino Basin Water Quality Committee from 2003 through 2010. Since 2010, Watermaster has supported ongoing monitoring and analysis to ensure the efforts to manage water quality contamination under Program Element 6 are achieving the intended outcomes and identify any outcomes that may be of concern. This primarily involves analyzing water quality data to assess the movement of identified groundwater plumes in the Basin and tracking the activities of plume cleanup by the responsible parties and the regulatory oversight of the Santa Ana Water Board, but also includes as-needed work to support the Santa Ana Water Board or others in assessing groundwater quality conditions in and around the plumes.

DISCUSSION

As part of the ongoing work for Program Element 6, Watermaster prepares plume status reports for the known point-source contaminant plumes in the Chino Basin. Six plumes are reported on annually which include General Electric (GE) Flatiron Plume, GE Test Cell Plume, Milliken Landfill Plume, Stringfellow Plume, Former Kaiser Steel Mill Plume, and the Chino Institution for Men (CIM) Plume. Two plumes are also reported semi-annually which are the South Archibald Plume and the Chino Airport Plume. These two plumes are reported on more frequently because there is more current activity related to the Santa Ana Water Board regulatory oversight, identification of the responsible parties, and the development and implementation of the appropriate remediation strategy; and both plumes include remedial strategies that include the use of the Chino Basin Desalters.

The plume status reports are standardized with similar sections that describe: the contaminants, location, regulatory orders for cleanup, a summary of the regulatory and monitoring history, the remedial action for cleanup, the monitoring and reporting of plume sampling, and the recent activity. The reports are updated using recent documents available on the State Board's GeoTracker website; data collected by the responsible parties, Watermaster, or others; input and review by the responsible parties for some; and when needed coordination with the Santa Ana Water Board. Each report includes a map exhibit that shows the current delineation of the plume prepared by the Watermaster in the biannual OBMP State of the Basin Reports.

Understanding and tracking the monitoring and remediation activities of groundwater contaminant plumes is critical to the overall management of groundwater quality to ensure that Chino Basin groundwater remains a sustainable resource. This knowledge is also important for assessing the potential impacts on nearby drinking water wells or recharge basins, and evaluating potential material physical injury of the basin related to the movement of plumes from recharge activities, water transfers, and storage programs.

ATTACHMENTS

The reports will be provided separately.

ATTACHMENT 1

RE: Annual and Semi-Annual Plume Status Reports (Business Item II.B.)

Attached reports will be provided separately.

Project Status: Wineville/Jurupa/RP3 Basin Improvements

Budget:

- Authorized capital budget: $28,846,016

Available Funding:

- $15.4 M in SRF Loan at 0.55%
- $10.8 M is State and Federal Grants

Progress:

- Construction 85% completed

Pending Completion:

- Electrical wiring & SCE work
- Control Programming
- Rubber Dam
- Procuring and installation of Pumps

Current Activities:

- Pipes for Wineville Pumps to arrive in mid-Oct.
  - Planned completion mid-Nov.
- Electrical wiring & SCE work in progress
  - Planned completion October 31, 2024
- Control Programming awaiting electrical
  - Planned completion November 30, 2024
- Received 90% of Rubber Dam equipment
  - Planned Completion November 30, 2024
- Procuring and installation of Pumps
  - See schedule

Updates:

- Finalize the procurement documents for the pumps (see revised schedule)

Detailed Schedule for the Pumps

TASK	START	END
Prepare Solicitation Documents	**6-Jun-2024**	**15-Oct-2024**
Draft Documents	6-Jun-2024	22-Aug-2024
Review Documents	23-Aug-2024	28-Aug-2024
Finalize Documents	29-Aug-2024	15-Oct-2024
Request for Qualification of Suppliers	**23-Oct-2024**	**18-Dec-2024**
Enter into PlanetBids	23-Oct-2024	23-Oct-2024
Solicitation (Q&A Period)	24-Oct-2024	15-Nov-2024
Final Week of Solicitation	18-Nov-2024	26-Nov-2024
Close Solicitation	26-Nov-2024	26-Nov-2024
Review Responses to the RFQ	27-Nov-2024	3-Dec-2024
Notify Prequalified Suppliers	4-Dec-2024	17-Dec-2024
Begin Submittal Review for Prequalified Suppliers	18-Dec-2024	18-Dec-2024
Submittal Review	**1-Jan-2025**	**18-Mar-2025**
First Submittal	1-Jan-2025	15-Jan-2025
Review Initial Submittal	15-Jan-2025	29-Jan-2025
Second Submittal	29-Jan-2025	12-Feb-2025
Review Second Submittal	12-Feb-2025	26-Feb-2025
Final Submittal	26-Feb-2025	12-Mar-2025
Board of Directors' Authorization of PO	12-Mar-2025	18-Mar-2025
Pump Fabrication/Installation/Testing/Close-out	**1-Apr-2025**	**29-Dec-2025**
Fabrication (22 weeks)	1-Apr-2025	2-Sep-2025
Delivery	2-Sep-2025	16-Sep-2025
Installation	16-Sep-2025	14-Nov-2025
Testing	14-Nov-2025	15-Dec-2025
Close Out	15-Dec-2025	29-Dec-2025