CHINO BASIN WATERMASTER

NOTICE OF MEETING

Thursday, August 22, 2024

11:00 a.m. – Watermaster Board 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
WATERMASTER BOARD MEETING
11:00 a.m. – August 22, 2024
Mr. James Curatalo, 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

FLAG SALUTE

ROLL CALL

PUBLIC COMMENTS
This is an opportunity for members of the public to address the Board on any short non-agenda items that are within the subject matter jurisdiction of the Chino Basin Watermaster. No discussion or action can be taken on matters not listed on the agenda, per the Brown Act. Each member of the public who wishes to comment shall be allotted three minutes, and no more than three individuals shall address the same subject.

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 Watermaster Board Meeting held June 27, 2024 *(Page 1)*

B. FINANCIAL REPORTS
Receive and file as presented:
Monthly Financial Reports for the Periods Ended May 31, 2024 and June 30, 2024 *(Page 7)*

C. APPLICATION: WATER TRANSACTION – 2,000 AF WEST VALLEY WATER DISTRICT TO NIAGARA BOTTLING, LLC *(Page 39)*
Approve the proposed transaction.

D. APPLICATION: WATER TRANSACTION – 7,500 AF CUCAMONGA VALLEY WATER DISTRICT TO FONTANA WATER COMPANY *(Page 44)*
Approve the proposed transaction.

E. APPLICATION: WATER TRANSACTION – 3.5 AF NICHOLSON FAMILY TRUST TO FONTANA WATER COMPANY *(Page 51)*
Approve the proposed transaction.

II. BUSINESS ITEMS

A. 2022 SAFE YIELD METHODOLOGY (INFORMATION ONLY) *(Page 58)*

B. WATER RIGHTS AND REPLENISHMENT FORECASTING TOOL (INFORMATION ONLY)

C. TASK ORDERS AND PROJECT MANAGEMENT FOR ENGINEERING SERVICES (INFORMATION ONLY) *(Page 62)*

D. ANNUAL DATA COLLECTION AND EVALUATION REPORT (2017 SY COURT ORDER, § 4.5)
Receive and file the report as presented. *(Page 64)*

III. REPORTS/UPDATES

A. WATERMASTER LEGAL COUNSEL

1. August 29, 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 2021-22 and 2022-23 Assessment Packages)
3. Court of Appeal Case No. E080533 (Cities of Chino, Ontario appeal re 2022-23 Watermaster budget expenses to support CEQA analysis)
4. Kaiser Permanente Lawsuit

B. ENGINEER

1. 2025 Safe Yield Reevaluation
2. Board Requested Recharge Analysis

C. GENERAL MANAGER

1. Other

IV. BOARD MEMBER COMMENTS

V. OTHER BUSINESS

VI. CONFIDENTIAL SESSION - POSSIBLE ACTION

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

1. General Manager Performance Evaluation

VII. FUTURE MEETINGS AT WATERMASTER

08/22/24	Thu	11:00 a.m.	Watermaster Board
08/27/24	Tue	9:00 a.m.	2025 Safe Yield Reevaluation Workshop – Scenario Design #4
08/27/24	Tue	12:00 p.m.	Groundwater Recharge Coordinating Committee (GRCC)
09/12/24	Thu	9:00 a.m.	Appropriative Pool Committee
09/12/24	Thu	11:00 a.m.	Non-Agricultural Pool Committee
09/12/24	Thu	1:30 p.m.	Agricultural Pool Committee
09/19/24	Thu	9:00 a.m.	Advisory Committee
09/26/24	Thu	9:30 a.m.	Watermaster Orientation*
09/26/24	Thu	11:00 a.m.	Watermaster Board

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

ADJOURNMENT

DRAFT MINUTES
CHINO BASIN WATERMASTER
WATERMASTER BOARD MEETING
June 27, 2024

The Watermaster Board meeting was held at the offices of the Chino Basin Watermaster located at 9641 San Bernardino Road, Rancho Cucamonga, CA, and via Zoom (conference call and web meeting) on June 27, 2024.

WATERMASTER BOARD MEMBERS PRESENT AT WATERMASTER

James Curatalo, Chair	Cucamonga Valley Water District
Jeff Pierson, Vice Chair	Agricultural Pool – Crops
Bob Bowcock	Non-Agricultural Pool – CalMat Co.
Manny Martinez for Scott Burton	Monte Vista Water District
Steve Elie	Inland Empire Utilities Agency
Mike Gardner	Western Water
Bob Kuhn	Three Valleys Municipal Water District
Jimmy Medrano	Agricultural Pool – State of CA

WATERMASTER BOARD MEMBERS ABSENT

Bill Velto	City of Upland

WATERMASTER STAFF PRESENT

Todd Corbin	General Manager
Edgar Tellez Foster	Water Resources Mgmt. & Planning Director
Justin Nakano	Water Resources Technical Manager
Frank Yoo	Data Services and Judgment Reporting Mgr.
Daniela Uriarte	Senior Accountant
Alexandria Moore	Executive Assistant I/Board Clerk
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

Brad Herrema	Brownstein Hyatt Farber Schreck, LLP
Andy Malone	West Yost
Samantha Adams	West Yost

WATERMASTER CONSULTANTS PRESENT ON ZOOM

Garrett Rapp	West Yost
Veva Weamer	West Yost
Sodavy Ou	West Yost

OTHERS PRESENT AT WATERMASTER

Tariq Awan	Agricultural Pool – State of CA
Lewis Callahan	Agricultural Pool – State of CA
Marilyn Levin	Agricultural Pool – State of CA (Retired)
Dave Crosley	City of Chino
Ron Craig	City of Chino Hills
Melissa Cansino	City of Pomona
Nicole deMoet	City of Upland
John Bosler	Cucamonga Valley Water District
Jimmie Moffatt	Cucamonga Valley Water District
Jiwon Seung	Cucamonga Valley Water District
Joel Ignacio	Inland Empire Utilities Agency

John Russ	Inland Empire Utilities Agency
Bryan Smith	Jurupa Community Services District
Alyssa Coronado	Santa Ana River Water Company
Laura Roughton	Western Water

OTHERS PRESENT ON ZOOM

Eduardo Espinoza	Cucamonga Valley Water District
Mark Gibboney	Cucamonga Valley Water District
Derek Hoffman	Fennemore Law
Megan Sims	Fontana Water Company
Christiana Daisy	Inland Empire Utilities Agency
Eddie Lin	Inland Empire Utilities Agency
Justin Scott-Coe	Monte Vista Water District
David De Jesus	Three Valleys Municipal Water District
Craig Miller	Western Water
Laura Roughton	Western Waer
Richard Rees	WSP USA

CALL TO ORDER
Chair Curatalo called the Watermaster Board meeting to order at 11:00 a.m.

FLAG SALUTE
Chair Curatalo led the Board in the flag salute.

ROLL CALL
Ms. Moore conducted the roll call and announced that quorum was present.

PUBLIC COMMENTS
This is an opportunity for members of the public to address the Board on any short non-agenda items that are within the subject matter jurisdiction of the Chino Basin Watermaster. No discussion or action can be taken on matters not listed on the agenda, per the Brown Act. Each member of the public who wishes to comment shall be allotted three minutes, and no more than three individuals shall address the same subject.

(00:02:05): Ms. Willis with the Chino Basin Water Conservation District gave a report on the EIR addendum for the Claremont McKenna College sports complex project.

(00:04:47) Chair Curatalo commended Ms. Marilyn Levin for her contributions to Watermaster and wished her well in her retirement. Mr. Corbin characterized the June 13, 2024, celebration held during the Agricultural Pool Committee meeting honoring Ms. Levin. The Board members took turns commending Ms. Levin for her outstanding service to the Chino Basin.

(00:13:44) Chair Curatalo and others thanked Ms. Alex Moore and wished her the best in her relocation to Texas.

AGENDA – ADDITIONS/REORDER
None

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 Watermaster Board Meeting held May 23, 2024

B. FINANCIAL REPORTS
Receive and file as presented:
Monthly Financial Report for the Period Ended April 30, 2024

C. APPLICATION: LOCAL STORAGE AGREEMENT – ONAP
Approve the proposed agreements.

D. 2023 ANNUAL REPORT OF THE PRADO BASIN HABITAT SUSTAINABILITY PROGRAM
Recommend to receive and file.

E. PROFESSIONAL SERVICES AGREEMENT BETWEEN APPLIED COMPUTER TECHNOLOGIES AND CHINO BASIN WATERMASTER
Approve and authorize the General Manager to execute the contract on behalf of Watermaster.

F. PROFESSIONAL SERVICES AGREEMENT BETWEEN RAUCH COMMUNICATION CONSULTANTS, INC. AND CHINO BASIN WATERMASTER
Approve and authorize the General Manager to execute the contract on behalf of Watermaster.

(00:16:36)
Motion by Mr. Steve Elie, seconded by Vice-Chair Jeff Pierson, there being no dissent, the item passed unanimously.
Moved to approve the Consent Calendar as presented.

II. BUSINESS ITEMS

A. WEST YOST ASSOCIATES, INC. CONTRACT
Approve and authorize the General Manager to execute the contract on behalf of Watermaster subject to non-substantive changes.

(00:17:01) Mr. Corbin prefaced the item and invited Mr. Tellez Foster to give a report. A discussion ensued.

(00:30:54)
Motion by Mr. Mike Gardner, seconded by Mr. Steve Elie, and passed unanimously by roll call vote as attached to these minutes.
Moved to approve Business Item II.A. as presented.

B. FISCAL YEAR 2024/25 PROPOSED PAY SCHEDULE
Approve the Fiscal Year 2024/25 Pay Schedule as presented.

(00:37:49) Mr. Corbin invited Mr. Tellez Foster to give a report. A discussion ensued.

(00:40:35)
Motion by Vice-Chair Jeff Pierson, seconded by Mr. Bob Kuhn, and passed unanimously by roll call vote as attached to these minutes.
Moved to approve Business Item II.B. as presented.

III. REPORTS/UPDATES

A. WATERMASTER LEGAL COUNSEL
1. May 31, 2024 Court Hearing (Watermaster 46th Annual Report; Semi-Annual OBMP Status Report 2023-2)

2. Court of Appeal Consolidated Cases No. E080457 and E082127 (City of Ontario appeal re 2021- 22 and 2022-23 Assessment Packages)
3. Court of Appeal Case No. E080533 (Cities of Chino, Ontario appeal re 2022-23 Watermaster budget expenses to support CEQA analysis)
4. Kaiser Permanente Lawsuit

(00:41:44) Mr. Herrema gave a report.

B. ENGINEER

1. Chino Creek Monitoring Program
2. 2023 Prado Basin Habitat Sustainability Program Annual Report
3. Data Collection and Evaluation (Presentation)

(00:46:39) Mr. Malone gave a report and invited Ms. Ou and Mr. Rapp to give reports.

C. GENERAL MANAGER

1. June 20, 2024 Letter to City of Upland Planning Commission RE Claremont McKenna College Campus Sports Bowl Project
2. July Meeting Schedule
3. June 26, 2024 Board Tour
4. Other

(01:11:30) Mr. Corbin gave a report. A discussion ensued.

IV. INFORMATION

A. RECHARGE INVESTIGATIONS AND PROJECTS COMMITTEE (RIPCOMM)

V. BOARD MEMBER COMMENTS

(01:19:20) Mr. Gardner gave an update on SB 366.

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

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

None

ADJOURNMENT

Chair Curatalo adjourned the Watermaster Board meeting at 12:24 p.m.

Secretary: _____

Approved: _____

Attachments

1. 20240627 Roll Call Vote Outcome for Business Item II.A.
2. 20240627 Roll Call Vote Outcome for Business Item II.B.

June 27, 2024 Watermaster Board Meeting (Roll Call Vote Outcome)

Member		**Alternate**		**Business Item II.A.**
Burton, Scott		Martinez, Manny	✓	Yes
Bowcock, Bob	✓	Geye, Brian		Yes
Elie, Steve	✓	Tule, Marco		Yes
Kuhn, Bob	✓	DeJesus, David		Yes
Medrano, Jimmy	✓	Callahan, Lewis/Frederick, Diana		Yes
Velto, Bill		Parker, Kati		Absent
Pierson, Jeff	✓	Feenstra, Bob		Yes
Curatalo, Jim	✓	Moffatt, Jimmie		Yes
		OUTCOME		**Passed Unanimously**

June 27, 2024 Watermaster Board Meeting (Roll Call Vote Outcome)

Member		**Alternate**		**Business Item II.B.**
Burton, Scott		Martinez, Manny	✓	Yes
Bowcock, Bob	✓	Geye, Brian		Yes
Elie, Steve	✓	Tule, Marco		Yes
Kuhn, Bob	✓	DeJesus, David		Yes
Medrano, Jimmy	✓	Callahan, Lewis/Frederick, Diana		Yes
Velto, Bill		Parker, Kati		Absent
Pierson, Jeff	✓	Feenstra, Bob		Yes
Curatalo, Jim	✓	Moffatt, Jimmie		Yes
		OUTCOME		**Passed Unanimously**

CHINO BASIN WATERMASTER

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

TODD M. CORBIN
General Manager

STAFF REPORT

DATE: August 2024

TO: Watermaster Committees & Board

SUBJECT: Monthly Financial Reports (For the Reporting Periods Ended May 31, 2024 and June 30, 2024) (Consent Calendar Item I.B.)

SUMMARY

Issue: Record of Monthly Financial Reports for the reporting periods ended May 31, 2024 and June 30, 2024) [Normal Course of Business]

Recommendation: Receive and file Monthly Financials Reports for the reporting periods ended May 31, 2024 and June 30, 2024) as presented.

Financial Impact: None.

Future Consideration
Watermaster Board – August 22, 2024: Receive and File

ACTIONS:
Appropriative Pool – August 8, 2024: Received and Filed
Non-Agricultural Pool – August 8, 2024: Received and Filed
Agricultural Pool – August 8, 2024: Received and Filed
Advisory Committee – August 15, 2024: Received and Filed
Watermaster Board – August 22, 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 is happy to provide additional explanation or respond to any questions on these reports.

ATTACHMENTS

1. Monthly Financial Reports (May 31, 2024)
2. Monthly Financial Reports (June 30, 2024)

Chino Basin Watermaster
Cash Disbursements
May 2024

Date	Number	Vendor Name	Description	Amount
05/03/2024	24784	ACWA JOINT POWERS INSURANCE AUTHORITY	June life insurance	$ (198.83)
05/03/2024	24785	APPLIED COMPUTER TECHNOLOGIES	April database consulting services	(4,250.00)
05/03/2024	24786	EMPOWER LAB	May coaching services	(500.00)
05/03/2024	24787	FRONTIER COMMUNICATIONS	Landline connection for Bay Alarm system	(151.57)
05/03/2024	24788	KAVOUNAS, PETER	Health and dental premium reimbursements	(1,488.22)
05/03/2024	24789	ULTIMATE STAFFING SERVICES	Temporary employment services	(1,475.60)
05/03/2024	24790	USAFACT, INC.	Pre-employment background check	(84.30)
05/03/2024	24791	VANGUARD CLEANING SYSTEMS	May janitorial service	(1,000.00)
05/03/2024	24792	VC3, INC.	April IT services, Firebox renewal, hardware warranty	(8,619.54)
05/08/2024	24793	BOWCOCK, ROBERT		(1,250.00)
05/08/2024	24803	BROWNSTEIN HYATT FARBER SCHRECK	April legal services	(122,122.22)
05/08/2024	24794	CURATALO, JAMES		(1,375.00)
05/08/2024	24795	DE BOOM, NATHAN		(125.00)
05/08/2024	24796	ELIE, STEVEN		(250.00)
05/08/2024	24797	FILIPPI, GINO		(625.00)
05/08/2024	24798	GEYE, BRIAN		(875.00)
05/08/2024	24799	LAW OFFICE OF ALLEN W. HUBSCH	May ONAP legal services	(1,011.50)
05/08/2024	24800	MICHAEL MILHISER		(125.00)
05/08/2024	24801	VELTO, BILL		(750.00)
05/08/2024	24802	WESTERN MUNICIPAL WATER DISTRICT		(375.00)
05/13/2024	24804	BURRTEC WASTE INDUSTRIES, INC.	Utilities: Waste	(160.73)
05/13/2024	24805	CALIFORNIA BANK & TRUST	Account ending 6198 - See detail attached	(4,803.69)
05/13/2024	24806	PETTY CASH	Petty cash replenishment	(418.04)
05/13/2024	24807	SPECTRUM ENTERPRISE	May internet services	(1,105.40)
05/13/2024	24808	STATE COMPENSATION INSURANCE FUND	FY 24 Worker's compensation insurance	(2,768.91)
05/13/2024	24809	ULTIMATE STAFFING SERVICES	Temporary employment services	(1,493.86)
05/13/2024	24810	UNION 76	April fuel purchases	(182.92)
05/13/2024	24811	VANGUARD CLEANING SYSTEMS	April electrostatic spraying	(220.00)
05/13/2024	ACH5/13/24	CALPERS	May Medical Insurance Premiums	(14,094.25)
05/16/2024	24812	THRIVING EMPLOYER	Legal personnel matter services	(39,060.00)
05/16/2024	24813	ABC LOCKSMITHS	Air access subscription and cellular communication	(768.00)
05/16/2024	24814	CHEF DAVE'S CATERING & EVENT SERVICES	Board meeting catering services	(492.94)
05/16/2024	24815	IN-SITU, INC.	Cable and multiparameter evaluation	(542.55)
05/16/2024	24816	LEGAL SHIELD	May employee paid legal insurance	(119.55)
05/16/2024	24817	R&D PEST SERVICES	May pest control services	(100.00)
05/16/2024	24818	SOUTHERN CA EDISON	Utilities: Electric	(1,242.63)
05/16/2024	24819	TELLEZ-FOSTER, EDGAR	OPS staff meeting reimbursement	(71.86)
05/16/2024	24820	VERIZON WIRELESS	Internet services for Field Ops tablets	(276.47)
05/16/2024	24821	WAVE HR SOLUTIONS	April human resources services	(422.50)
05/22/2024	24822	ALEXANDRIA MOORE	Legal shield deduction reimbursement	(12.95)
05/22/2024	24823	EGOSCUE LAW GROUP, INC.	April OAP legal services	(14,800.00)
05/22/2024	24824	JOHN J. SCHATZ	January - April AP legal services	(52,485.34)
05/22/2024	24825	RUBEN LLAMAS		(125.00)
05/22/2024	ACH5/22/24	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Annual Unfunded Accrued Liability-Plan 3299	(9,902.00)
05/28/2024	24826	CORELOGIC INFORMATION SOLUTIONS	April geographic package services	(125.00)
05/28/2024	24827	CUCAMONGA VALLEY WATER DISTRICT	June lease	(11,727.00)
05/28/2024	24828	CUCAMONGA VALLEY WATER DISTRICT - UTILITY	Utilities: Water	(315.22)
05/28/2024	24829	FEENSTRA, BOB		(1,250.00)
05/28/2024	24830	GREAT AMERICA LEASING CORP.	April copy machine lease	(1,464.61)
05/28/2024	24831	KUHN, BOB		(875.00)
05/28/2024	24832	READY REFRESH	Office water dispenser lease	(127.52)
05/28/2024	24833	SOCALGAS	Utilities: Gas	(60.07)
05/28/2024	24834	SOUTHERN CALIFORNIA EDISON	Utilities: Electric	(123.34)
05/28/2024	24835	UNITED HEALTHCARE	June dental insurance coverage	(1,317.09)
05/28/2024	24836	VC3, INC.	May IT services	(6,986.99)
05/28/2024	24837	VERIZON WIRELESS	Internet services and mobile broadband unlimited	(38.01)
05/28/2024	24838	VISION SERVICE PLAN	June vision insurance coverage	(113.85)
			Total for Month	**$ (316,845.07)**

Chino Basin Watermaster
Credit Card Expense Detail
May 2024

Date	Number	Description	Expense Account	Amount
05/13/2024	24805	**CALIFORNIA BANK & TRUST**		
		Uber Trip - BSMAR Conference - E. Tellez Foster	6173 · Airfare/Mileage	(15.00)
		Uber Trip - BSMAR Conference - E. Tellez Foster	6173 · Airfare/Mileage	(11.96)
		Casino Del Sol - BSMAR Conference - Lodging - E. Tellez Foster	6191 · Conferences - General	(511.71)
		Uber Trip - BSMAR Conference E. Tellez Foster	6173 · Airfare/Mileage	(28.70)
		Thai BBQ - Meeting - E. Tellez Foster, T. Corbin	6141.3 · Admin Meetings	(40.56)
		Target - Decaf coffee and bow	6031.7 · General Office Supplies	(19.15)
		Panera Bread - CBWM OPS meeting	6141.3 · Admin Meetings	(63.99)
		REV Subscription - Speech to text transcription services	6112 · Subscriptions/Publications	(29.99)
		The State - Lunch Meeting - E. Tellez Foster, K. Dodson-Hamilton, T. Dodson	6141.3 · Admin Meetings	(84.62)
		FedEx - Board Packet for Jeff Pierson and Steve Elie	6042 · Postage - General	(71.74)
		Amazon - Misc. Office Supplies	6151 · Small Tools & Equipment	(117.45)
		Amazon - Misc. Office Supplies	6151 · Small Tools & Equipment	(21.53)
		Engrave n Embroidery - Name plate - T. Corbin	6031.7 · General Office Supplies	(21.99)
		Dell Technologies - T. Corbin laptop	6055 · Computer Hardware	(859.83)
		Amazon - Smart video doorbell, thermostat	6027 · Other Building Expense	(144.38)
		Amazon - Dell performance docking station	6055 · Computer Hardware	(242.38)
		Hoppers Office & Drafting Furniture - T. Corbin office chair	6036 · Minor Office Furniture	(354.50)
		Thai BBQ lunch - A. Nelson, A. Moore, L. Rodriguez	6141.3 · Admin Meetings	(69.00)
		Amazon - OPS hat - E. Vides	6154 · Uniforms	(21.54)
		Costco - Meeting supplies	6312 · Meeting Expenses	(289.39)
		Bamboo HR - HRIS and Timekeeping System	6061.2 · HRIS System	(227.59)
		Amazon - A. Nelson items refunded via petty cash	6031.7 · General Office Supplies	(12.13)
		Engrave n Embroidery - Name plate taxes - T. Corbin	6031.7 · General Office Supplies	(1.70)
		Amazon - Misc. Office Supplies	6031.7 · General Office Supplies	(59.89)
		Amazon - OPS tablet	6055 · Computer Hardware	(181.87)
		Amazon - Thermostat return	6027 · Other Building Expense	95.90
		Amazon - Misc. Office Supplies	6031.7 · General Office Supplies	(16.43)
		Amazon - Misc. Office Supplies	6031.7 · General Office Supplies	(21.50)
		Amazon - Misc. Office Supplies	6027 · Other Building Expense	(15.80)
		LinkedIn - Premium Monthly Subscription	6112 · Subscriptions/Publications	(39.99)
		Amazon - Misc. Office Supplies	6031.7 · General Office Supplies	(21.94)
		Amazon - Live stream switcher, cables	6055 · Computer Hardware	(342.26)
		FedEx - In-Situ OPS equipment return RMA#5025858	6042 · Postage - General	(28.18)
		Amazon - Misc. Office Supplies	6031.7 · General Office Supplies	(52.77)
		Harvard Business Review - A. Nelson subscription renewal	6112 · Subscriptions/Publications	(210.12)
		MyTrainingmentor - Webinar EEOC - A. Nelson	6193 · Employee Training	(199.00)
		Home Goods - Mirror, meeting tier	6036 · Minor Office Furniture	(126.05)
		Amazon - Misc. Office Supplies	6031.7 · General Office Supplies	(32.30)
		FedEx - Board packet for Jeff Pierson, Steve Elie, and John Schatz payable check	6042 · Postage - General	(117.23)
		Omokase - Admin meeting - A. Nelson, R. Favela Quintero, A. Moore, D. Uriarte, R. Nunez	6141.3 · Admin Meetings	(159.96)
		Amazon - Harvard Business Review Book	6031.7 · General Office Supplies	(13.47)
			Total for Month	**$ (4,803.69)**

Chino Basin Watermaster

Combining Schedule of Revenues, Expenses & Changes in Net Assets

For the Period of July 1, 2023 through May 31, 2024

(Unaudited)

	JUDGMENT ADMIN.	OPTIMUM BASIN MGMT.	TOTAL JUDGMENT ADMIN & OBMP	POOL ADMINISTRATION & SPECIAL PROJECTS			GROUND WATER REPLENISH.	GRAND TOTALS	ADOPTED BUDGET 2023-2024 WITH CARRYOVER
				AP POOL	OAP POOL	ONAP POOL			
Administrative Revenues:									
Administrative Assessments	$ 5,636,711	$ 3,678,686	$ 9,315,397	$ 646,000	$ -	$ 31,000	$ -	$ 9,992,397	$ 9,314,915
Interest Revenue	-	443,253	443,253	16,481	55,282	2,673	36,428	554,115	312,500
Groundwater Replenishment	-	-	-	-	-	-	349,825	349,825	-
Mutual Agency Project Revenue	186,412	-	186,412	-	-	-	-	186,412	186,412
Miscellaneous Income	-	-	-	-	-	-	-	-	-
Total Administrative Revenues	**5,823,123**	**4,121,938**	**9,945,062**	**662,481**	**55,282**	**33,673**	**386,253**	**11,082,749**	**9,813,827**
Administrative & Project Expenditures:									
Watermaster Administration	3,537,767	-	3,537,767	-	-	-	-	3,537,767	2,993,430
Watermaster Board-Advisory Committee	279,528	-	279,528	-	-	-	-	279,528	366,923
Optimum Basin Mgmt Administration	-	869,892	869,892	-	-	-	-	869,892	1,215,309
OBMP Project Costs	-	3,535,506	3,535,506	-	-	-	-	3,535,506	5,409,723
Pool Legal Services	-	-	-	140,745	136,411	19,471	-	296,626	241,578
Pool Meeting Compensation	-	-	-	-	40,500	6,250	-	46,750	45,807
Pool Special Projects	-	-	-	-	9,357	-	-	9,357	-
Pool Administration	-	-	-	-	-	-	-	-	327,067
Debt Service	-	583,281	583,281	-	-	-	-	583,281	1,665,475
Agricultural Expense Transfer [1]	-	-	-	186,268	(186,268)	-	-	-	-
Replenishment Water Assessments	-	-	-	-	-	-	1,920,791	1,920,791	1,715,286
Total Administrative Expenses	**3,817,295**	**4,988,679**	**8,805,974**	**327,012**	**-**	**25,721**	**1,920,791**	**11,079,497**	**13,980,598**
Net Ordinary Income	**2,005,828**	**(866,741)**	**1,139,087**	**335,468**	**55,282**	**7,952**	**(1,534,538)**	**3,252**	**(4,166,771)**
Other Income/(Expense)									
Refund-Recharge Debt Service	-	-	-	-	-	-	-	-	-
Carryover Budget	-	-	-	-	-	-	-	-	2,277,562
Net Other Income/(Expense)	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2,277,562**
Net Transfers To/(From) Reserves	**$ 2,005,828**	**$ (866,741)**	**$ 1,139,087**	**$ 335,468**	**$ 55,282**	**$ 7,952**	**$ (1,534,538)**	**$ 3,252**	**$ (1,889,209)**
Net Assets, July 1, 2023			9,768,099	41,205	1,343,226	57,841	1,715,286	12,925,657	
Refund-Excess Operating Reserves			(1,542,183)						
Net Assets, End of Period			**9,365,003**	**376,673**	**1,398,508**	**65,793**	**180,749**	**12,928,909**	
Pool Assessments Outstanding				(238,028)	(731,123)	-			
Pool Fund Balance				**$ 138,646**	**$ 667,385**	**$ 65,793**			

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

Chino Basin Watermaster

Treasurer's Report

May 2024

	Type	Monthly Yield	Cost	Market	% Total
Cash & Investments					
Local Agency Investment Fund (LAIF) *	Investment	4.33%	$ 636,203	$ 632,508	5.3%
CA CLASS Prime Fund **	Investment	5.39%	10,403,498	$ 10,402,977	87.2%
Bank of America	Checking		895,392	895,392	7.5%
Bank of America	Payroll		-	-	0.0%
Total Cash & Investments			**$ 11,935,093**	**$ 11,930,876**	**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, 2023 to May 31, 2024

(Unaudited)

		May 2024	YTD Actual	FY 24 Adopted Budget with Carryover	$ Over / (Under) Budget	% of Budget
1	**Administration Revenue**					
2	Local Agency Subsidies	$ -	$ 186,412	$ 186,412	$ -	100%
3	Admin Assessments-Appropriative Pool	-	9,669,482	8,886,165	783,317	109%
4	Admin Assessments-Non-Ag Pool	-	322,914	428,750	(105,836)	75%
5	**Total Administration Revenue**	**-**	**10,178,809**	**9,501,327**	**677,482**	**107%**
6	**Other Revenue**					
7	Appropriative Pool-Replenishment	-	335,840	-	335,840	N/A
8	Non-Ag Pool-Replenishment	-	13,985	-	13,985	N/A
9	Interest Income	50,722	554,115	312,500	241,615	177%
10	Miscellaneous Income	-	-	-	-	N/A
11	Carryover Budget	-	-	2,277,562	(2,277,562)	0%
12	**Total Other Revenue**	**50,722**	**903,940**	**2,590,062**	**(1,686,121)**	**35%**
13	**Total Revenue**	**50,722**	**11,082,749**	**12,091,389**	**(1,008,639)**	**92%**
14	**Judgment Administration Expense**					
15	Judgment Administration	27,419	333,474	721,698	(388,224)	46%
16	Admin. Salary/Benefit Costs	126,900	1,715,023	1,413,610	301,413	121%
17	Office Building Expense	17,582	192,025	208,510	(16,485)	92%
18	Office Supplies & Equip.	2,216	40,778	49,438	(8,660)	82%
19	Postage & Printing Costs	1,562	25,000	33,806	(8,806)	74%
20	Information Services	13,177	147,415	199,818	(52,403)	74%
21	Contract Services	230	140,983	60,200	80,783	234%
22	Watermaster Legal Services	70,600	924,098	565,964	358,134	163%
23	Insurance	-	46,256	50,468	(4,212)	92%
24	Dues and Subscriptions	698	38,386	40,027	(1,641)	96%
25	Watermaster Administrative Expenses	265	7,425	7,550	(125)	98%
26	Field Supplies	48	1,539	3,200	(1,661)	48%
27	Travel & Transportation	1,838	21,100	29,570	(8,470)	71%
28	Training, Conferences, Seminars	1,272	41,762	50,400	(8,638)	83%
29	Advisory Committee Expenses	8,544	44,125	105,823	(61,698)	42%
30	Watermaster Board Expenses	24,351	235,403	261,100	(25,696)	90%
31	ONAP - WM & Administration	3,615	30,661	106,194	(75,533)	29%
32	OAP - WM & Administration	3,814	38,915	108,700	(69,785)	36%
33	Appropriative Pool- WM & Administration	7,165	67,750	112,173	(44,423)	60%
34	Allocated G&A Expenditures	(48,962)	(274,822)	(440,829)	166,007	62%
35	**Total Judgment Administration Expense**	**262,334**	**3,817,295**	**3,687,420**	**129,876**	**104%**
36	**Optimum Basin Management Plan (OBMP)**					
37	Optimum Basin Management Plan	68,059	869,892	1,215,309	(345,417)	72%
38	Groundwater Level Monitoring	39,188	360,855	459,625	(98,770)	79%
39	Program Element (PE)2- Comp Recharge	28,001	1,220,543	1,672,577	(452,034)	73%
40	PE3&5-Water Supply/Desalte	17,106	81,133	105,677	(24,544)	77%
41	PE4- Management Plan	82,946	431,089	817,643	(386,554)	53%
42	PE6&7-CoopEfforts/SaltMgmt	58,772	510,712	1,117,623	(606,911)	46%
43	PE8&9-StorageMgmt/Conj Use	70,831	640,353	795,750	(155,396)	80%
44	Recharge Improvements	-	583,281	1,665,475	(1,082,194)	35%
45	Administration Expenses Allocated-OBMP	25,873	146,421	222,160	(75,739)	66%
46	Administration Expenses Allocated-PE 1-9	26,089	144,400	218,669	(74,269)	66%
47	**Total OBMP Expense**	**416,864**	**4,988,679**	**8,290,508**	**(3,301,829)**	**60%**
48	**Pool Administration**					
49	Appropriative Pool-Legal Services	52,485	140,745	-	140,745	N/A
50	OAP Legal & Technical Services	14,800	136,411	186,612	(50,201)	73%
51	OAP Meeting Compensation	1,875	40,500	40,932	(432)	99%
52	OAP Expense - Special Projects	-	9,357	-	9,357	N/A
53	ONAP - Legal Services	1,012	19,471	54,966	(35,495)	35%
53	ONAP - Meeting Compensation	375	6,250	4,875	1,375	128%
54	**Total Pool Administration**	**70,547**	**352,733**	**287,384**	**65,348**	**123%**
56	**Other Expense**					
57	Groundwater Replenishment	-	1,920,791	1,715,286	205,504	112%
58	**Total Other Expense**	**-**	**1,920,791**	**1,715,286**	**205,504**	**112%**
59	**Total Expenses**	**749,745**	**11,079,497**	**13,980,598**	**(2,901,100)**	**79%**
60	**Increase / (Decrease) to Reserves**	**$ (699,023)**	**$ 3,252**	**$ (1,889,209)**	**$ 1,892,461**	

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 24 adopted budget. The final two columns indicate the amount over or under budget, and the YTD percentage of total budget used. As of May 31st, the target budget percentage is generally 92%.

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 is at 100% of budget due to annual administrative assessment received from Metropolitan Water District.
- Lines 3-4 Administrative Assessments for the Agricultural and Non-Agricultural Pools include annual assessment invoices issued in November of each year, as well as special assessments issued at the direction of the respective Pools. The Appropriative Pool line is over budget due to changes in actual versus projected production, and special assessments issued.

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. YTD is over budget due to vacation, sick time, and severance payouts.
- Line 21 Contract Services includes outside services for the annual audit report, HR consulting, court filings, and accounting consulting. YTD is over budget due to increased consulting services not anticipated in the budget. These increased consulting service costs should be offset by savings in administrative salaries and benefits.
- Line 24 Dues and Subscriptions is at 96% of budget due to the timing of annual dues for ACWA, SHRM, and CA Groundwater Coalition.
- Line 25 Watermaster Administrative Expenses include meeting expenses and supplies for admin, committee, and other meetings. YTD is at 98% due to increased meeting activity.

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

Lines 48-54 Pool Administration Expenses – Includes expense activity relating to Pool specific fund balances. These include legal services for each Pool, Ag Pool meeting compensation, and Ag Pool special projects.

Lines 56-59 Other Expense – Includes groundwater replenishment, and various refunds as appropriate. YTD activity includes refunds for prior year recharge basin O&M expenses and excess reserves.

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 May 31, 2024 (continued next page):

Fund Balance For Non-Agricultural Pool Account 8567 - Legal Services		
Beginning Balance July 1, 2023:	$	56,965.90
Additions:		
Interest Earnings		2,672.63
Payments received on ONAP Assessment invoices issued 11/18/23		25,000.00
Subtotal Additions:		27,672.63
Reductions:		
Invoices paid July 2023 - May 2024		(19,470.50)
Budget Transfers		(2,000.00)
Subtotal Reductions:		(21,470.50)
Available Fund Balance as of May 31, 2024	**$**	**63,168.03**

Fund Balance For Appropriative Pool Account 8367 - Legal Services		
Beginning Balance July 1, 2023:	$	(12,415.36)
Additions:		
Interest Earnings		16,480.60
Payments received on AP Pool Assessment invoices issued 10/30/23		178,107.17
Subtotal Additions:		194,587.77
Reductions:		
Invoices paid July 2023 - May 2024		(140,744.61)
Subtotal Reductions:		(140,744.61)
Available Fund Balance as of May 31, 2024	**$**	**41,427.80**

Fund Balance For Non-Agricultural Pool Account 8511 - Meeting Compensation		
Beginning Balance July 1, 2020:	$	875.00
Additions:		
Payments received on ONAP Assessment invoices issued 11/18/23		6,000.00
Budget Transfers		2,000.00
Subtotal Additions:		8,000.00
Reductions:		
Compensation paid July 2023 - May 2024		(6,250.00)
Subtotal Reductions:		(6,250.00)
Available Fund Balance as of May 31, 2024	**$**	**2,625.00**

Fund Balance For Appropriative Pool Account 8368 - Tom Harder Contract		
Beginning Balance July 1, 2023:	$	-
Additions:		
Interest Earnings		-
Payments received on AP Pool Assessment invoices issued 10/30/23		20,577.61
Subtotal Additions:		20,577.61
Reductions:		
Invoices paid July 2023 - May 2024		-
Subtotal Reductions:		-
Available Fund Balance as of May 31, 2024	**$**	**20,577.61**

Chino Basin Watermaster
Monthly Variance Report & Supplemental Schedules
For the period July 1, 2023 to May 31, 2024
(Unaudited)

Pool Services Fund Accounting – Cont.

Fund Balance for Agricultural Pool Account 8467 - Legal Services (Held by AP)			**Agricultural Pool Reserve Funds As shown on the Combining Schedules**		
Beginning Balance July 1, 2023:	$	41,675.63	Beginning Balance July 1, 2023:	$	612,103.32
Additions:			Additions:		
Payments received on AP Pool Assessment invoices issued 10/30/23		144,935.99	YTD Interest earned on Ag Pool Funds FY 24		55,281.53
Total Additions:		144,935.99	Transfer of Funds from AP to Special Fund for Legal Service Invoices		136,410.50
			Total Additions:		191,692.03
Reductions:			Reductions:		
Invoices paid July 2023 - May 2024		(136,410.50)	Legal service invoices paid July 2023 - May 2024		(136,410.50)
Subtotal Reductions:		(136,410.50)	Total Reductions		(136,410.50)
Available Fund Balance as of May 31, 2024	**$**	**50,201.12**	**Agricultural Pool Reserve Funds Balance as of May 31, 2024:**	**$**	**667,384.85**

Fund Balance For Agricultural Pool Account 8470 - Meeting Compensation (Held by AP)			**Fund Balance For Agricultural Pool Account 8471 - Special Projects (Held by AP)**		
Beginning Balance July 1, 2023:	$	950.98	Beginning Balance July 1, 2023:	$	10,993.67
Additions:			Additions:		
Payments received on AP Pool Assessment invoices issued 10/30/23		28,987.20	Payments received on AP Pool Assessment invoices issued 10/30/23		35,364.38
Budget Transfers[1]		10,993.67	Subtotal Additions:		35,364.38
Subtotal Additions:		39,980.87			
			Reductions:		
Reductions:			Invoices paid July 2023 - May 2024		(9,357.00)
Compensation paid July 2023 - May 2024		(40,500.00)	Budget Transfers[1]		(10,993.67)
Subtotal Reductions:		(40,500.00)	Subtotal Reductions:		(20,350.67)
Available Fund Balance as of May 31, 2024	**$**	**431.85**	**Available Fund Balance as of May 31, 2024**	**$**	**26,007.38**

[1]Per action taken at September pool committee meeting.

[1]Per action taken at September pool committee meeting.

Watermaster Salary Expenses

The following table details the Year-To-Date (YTD) Actual Watermaster burdened salary 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. As of May 31st, the target budget percentage is generally 92%.

	Year to Date Actual	FY 23-24 Budget	$ Over / (Under) Budget	% of Budget
WM Salary Expense				
5901.1 · Judgment Admin - Doc. Review	27,678	82,794	(55,116)	33.4%
5901.3 · Judgment Admin - Field Work	2,314	7,760	(5,446)	29.8%
5901.5 · Judgment Admin - General	54,207	60,129	(5,922)	90.2%
5901.7 · Judgment Admin - Meeting	14,494	2,633	11,861	550.5%
5901.9 · Judgment Admin - Reporting	2,154	31,033	(28,879)	6.9%
5910 · Judgment Admin - Court Coord./Attendance	8,774	19,098	(10,324)	45.9%
5911 · Judgment Admin - Exhibit G	1,592	2,370	(778)	67.2%
5921 · Judgment Admin - Production Monitoring	3,062	11,322	(8,260)	27.0%
5931 · Judgment Admin - Recharge Applications	2,065	4,634	(2,569)	44.6%
5941 · Judgment Admin - Reporting	900	1,316	(416)	68.4%
5951 · Judgment Admin - Rules & Regs	-	12,726	(12,726)	0.0%
5961 · Judgment Admin - Safe Yield	1,845	26,330	(24,485)	7.0%
5971 · Judgment Admin - Storage Agreements	3,550	4,739	(1,189)	74.9%
5981 · Judgment Admin - Water Accounting/Database	106,812	109,793	(2,981)	97.3%
5991 · Judgment Admin - Water Transactions	4,254	8,688	(4,434)	49.0%
6011.11 · WM Staff - Overtime	10,903	15,000	(4,097)	72.7%
6011.4 · 457(f) NQDC Plan	18,494	55,467	(36,973)	33.3%
6011.10 · Admin - Accounting	213,042	367,685	(154,643)	57.9%
6011.15 · Admin - Building Admin	14,017	18,359	(4,342)	76.3%
6011.20 · Admin - Conference/Seminars	36,185	57,083	(20,898)	63.4%
6011.25 · Admin - Document Review	3,762	6,846	(3,084)	55.0%
6011.50 · Admin - General	428,896	569,850	(140,954)	75.3%
6011.60 · Admin - HR	95,469	43,489	51,980	219.5%
6011.70 · Admin - IT	54,923	53,975	948	101.8%
6011.80 · Admin - Meeting	50,004	90,440	(40,436)	55.3%
6011.90 · Admin - Team Building	8,706	41,304	(32,598)	21.1%
6011.95 · Admin - Training (Give/Receive)	21,116	34,312	(13,196)	61.5%
6017· Temporary Services	36,154	24,000	12,154	150.6%
6201 · Advisory Committee	29,630	55,149	(25,519)	53.7%
6301 · Watermaster Board	89,216	61,818	27,398	144.3%
8301 · Appropriative Pool	40,548	53,761	(13,213)	75.4%
8401 · Agricultural Pool	14,685	51,549	(36,864)	28.5%
8501 · Non-Agricultural Pool	10,227	50,443	(40,216)	20.3%
6901.1 · OBMP - Document Review	29,776	89,136	(59,360)	33.4%
6901.3 · OBMP - Field Work	4,691	7,003	(2,312)	67.0%
6901.5 · OBMP - General	120,005	124,049	(4,044)	96.7%
6901.7 · OBMP - Meeting	31,919	57,589	(25,670)	55.4%
6901.9 · OBMP - Reporting	5,688	2,370	3,318	240.0%
7104.1 · PE1 - Monitoring Program	152,311	171,515	(19,204)	88.8%
7201 · PE2 - Comprehensive Recharge	44,783	57,925	(13,142)	77.3%
7301 · PE3&5 - Water Supply/Desalter	-	4,791	(4,791)	0.0%
7301.1 · PE5 - Reg. Supply Water Prgm.	-	2,633	(2,633)	0.0%
7401 · PE4 - MZ1 Subsidence Mgmt. Plan	802	13,055	(12,253)	6.1%
7501 · PE6 - Coop. Programs/Salt Mgmt.	8,518	8,027	491	106.1%
7501.1 · PE 7 - Salt Nutrient Mgmt. Plan	1,769	6,582	(4,813)	26.9%
7601 · PE8&9 - Storage Mgmt./Recovery	4,651	11,217	(6,566)	41.5%
Subtotal WM Staff Costs	**1,814,590**	**2,591,787**	**(777,197)**	**70%**
60184.1 · Administrative Leave	18,047	6,799	11,248	265.4%
60185 · Vacation	165,629	119,130	46,499	139.0%
60185.1 · Comp Time	1,194	-	1,194	100.0%
60186 · Sick Leave	46,846	83,123	(36,277)	56.4%
60187 · Holidays	-	-	-	0.0%
Subtotal WM Paid Leaves	**231,716**	**209,052**	**22,664**	**111%**
Total WM Salary Costs	**2,046,306**	**2,800,839**	**(754,533)**	**73.1%**

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. As of May 31st, the target budget percentage is generally 92%.

	Year to Date Actual	FY 23-24 Budget	$ Over / (Under) Budget	% of Budget
Engineering Services Costs				
5901.8 · Judgment Admin - Meetings-Engineering Services	$ -	$ 45,097	$ (45,097)	0.0%
5906.1 · Judgment Admin - Watermaster Model Update	-	41,235	(41,235)	0.0%
5906.71 · Judgment Admin - Data Requests-CBWM Staff	45,902	126,204	(80,302)	36.4%
5906.72 · Judgment Admin - Data Requests-Non-CBWM Staff	9,846	42,832	(32,986)	23.0%
5925 · Judgment Admin - Ag Production & Estimation	22,928	34,376	(11,449)	66.7%
5935 · Judgment Admin - Mat'l Physical Injury Requests	3,932	36,072	(32,140)	10.9%
5945 · Judgment Admin - WM Annual Report Preparation	11,671	15,416	(3,745)	75.7%
5965 · Judgment Admin - Support Data Collection & Mgmt Process	5,496	36,336	(30,841)	15.1%
6206 · Advisory Committee Meetings-WY Staff	8,552	23,466	(14,914)	36.4%
6306 · Watermaster Board Meetings-WY Staff	25,410	23,466	1,944	108.3%
8306 · Appropriative Pool Meetings-WY Staff	17,829	23,467	(5,638)	76.0%
8406 · Agricultural Pool Meetings-WY Staff	15,035	23,466	(8,431)	64.1%
8506 · Non-Agricultural Pool Meetings-WY Staff	11,238	23,466	(12,228)	47.9%
6901.8 · OBMP - Meetings-WY Staff	61,273	45,096	16,177	135.9%
6901.95 · OBMP - Reporting-WY Staff	53,194	57,316	(4,123)	92.8%
6906 · OBMP Engineering Services - Other	35,951	46,992	(11,041)	76.5%
6906.26 · 2020 OBMP Update	4,508	24,016	(19,508)	18.8%
7104.3 · Grdwtr Level-Engineering	198,810	256,445	(57,635)	77.5%
7104.8 · Grdwtr Level-Contracted Services	-	10,000	(10,000)	0.0%
7104.9 · Grdwtr Level-Capital Equipment	-	9,915	(9,915)	0.0%
7202 · PE2-Comp Recharge-Engineering Services	12,232	29,084	(16,852)	42.1%
7202.2 · PE2-Comp Recharge-Engineering Services	65,008	202,362	(137,354)	32.1%
7208 · SB88 Specs-Compliance-50% IEUA	-	54,012	(54,012)	0.0%
7210 · OBMP - 2023 RMPU	37,768	94,328	(56,561)	40.0%
7220 · Integrated Model Mtg./Tech. Review-50% IEUA	-	24,618	(24,618)	0.0%
7302 · PE3&5-PBHSP Monitoring Program	79,218	69,121	10,097	114.6%
7303 · PE3&5-Engineering - Other	635	15,632	(14,998)	4.1%
7306 · PE3&5-Engineering - Outside Professionals	1,280	6,500	(5,220)	19.7%
7402 · PE4-Engineering	193,673	262,544	(68,871)	73.8%
7402.10 · PE4-Northwest MZ1 Area Project	105,953	271,703	(165,750)	39.0%
7403 · PE4-Eng. Services-Contracted Services-InSar	31,731	175,000	(143,270)	18.1%
7406 · PE4-Engineering Services-Outside Professionals	86,447	76,552	9,895	112.9%
7408 · PE4-Engineering Services-Network Equipment	12,006	14,081	(2,075)	85.3%
7502 · PE6&7-Engineering	276,454	384,163	(107,709)	72.0%
7505 · PE6&7-Laboratory Services	32,236	49,164	(16,928)	65.6%
7508 · HC Mitigation Plan-50% IEUA (TO #6)	7,990	10,703	(2,713)	74.7%
7510 · PE6&7-IEUA Salinity Mgmt. Plan	15,282	34,631	(19,349)	44.1%
7511 · PE6&7-SAWBMP Task Force-50% IEUA	11,305	24,610	(13,305)	45.9%
7517 · Surface Water Monitoring Plan-Chino Creek - 50% IEUA	55,659	69,821	(14,162)	79.7%
7520 · Preparation of Water Quality Mgmt. Plan	94,669	157,692	(63,023)	60.0%
7610 · PE8&9-Support 2020 Mgmt. Plan	13,687	69,306	(55,618)	19.7%
7614 · PE8&9-Support Imp. Safe Yield Court Order	596,549	663,747	(67,198)	89.9%
7620 · OBMP - Evaluation of Extreme Future Planning Scenarios	25,465	51,130	(25,665)	49.8%
Total Engineering Services Costs	**$ 2,261,354**	**$ 3,755,182**	**$ (1,468,363)**	**60.2%**

* West Yost and Subcontractor Engineering Budget of $2,884,956 plus Carryover Funds from FY 2022/23 of $870,226

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. As of May 31st, the target budget percentage is generally 92%.

	Year to Date Actual	FY 23-24 Budget	$ Over / (Under) Budget	% of Budget
6070 · Watermaster Legal Services				
6071 · BHFS Legal - Court Coordination	$ 340,431	$ 171,260	$ 169,171	198.8%
6072 · BHFS Legal - Rules & Regulations	-	92,900	(92,900)	0.0%
6073 · BHFS Legal - Personnel Matters	398,735	10,820	387,915	3685.2%
6074 · BHFS Legal - Interagency Issues	-	43,704	(43,704)	0.0%
6077 · BHFS Legal - Party Status Maintenance	1,205	13,730	(12,525)	8.8%
6078 · BHFS Legal - Miscellaneous (Note 1)	179,471	233,550	(54,080)	76.8%
Total 6070 · Watermaster Legal Services	**919,842**	**565,964**	**353,878**	**162.5%**
6275 · BHFS Legal - Advisory Committee	5,943	26,708	(20,765)	22.3%
6375 · BHFS Legal - Board Meeting	70,166	85,272	(15,106)	82.3%
6375.1 · BHFS Legal - Board Workshop(s)	-	18,499	(18,499)	0.0%
8375 · BHFS Legal - Appropriative Pool	9,196	33,385	(24,189)	27.5%
8475 · BHFS Legal - Agricultural Pool	9,196	33,385	(24,189)	27.5%
8575 · BHFS Legal - Non-Ag Pool	9,196	33,385	(24,189)	27.5%
Total BHFS Legal Services	**103,696**	**230,634**	**(126,938)**	**45.0%**
6907.3 · WM Legal Counsel				
6907.31 · Archibald South Plume	-	12,085	(12,085)	0.0%
6907.32 · Chino Airport Plume	720	12,085	(11,365)	6.0%
6907.33 · Desalter/Hydraulic Control	1,358	37,200	(35,842)	3.7%
6907.34 · Santa Ana River Water Rights	3,272	20,595	(17,323)	15.9%
6907.36 · Santa Ana River Habitat	-	30,090	(30,090)	0.0%
6907.38 · Reg. Water Quality Cntrl Board	2,950	30,090	(27,140)	9.8%
6907.39 · Recharge Master Plan	49,909	30,495	19,414	163.7%
6907.40 · Storage Agreements	-	16,960	(16,960)	0.0%
6907.41 · Prado Basin Habitat Sustainability	2,039	9,900	(7,862)	20.6%
6907.44 · SGMA Compliance	104	9,900	(9,797)	1.0%
6907.45 · OBMP Update	196,206	172,880	23,326	113.5%
6907.47 · 2020 Safe Yield Reset	21,398	33,920	(12,522)	63.1%
6907.48 · Ely Basin Investigation	88,702	126,040	(37,338)	70.4%
6907.90 · WM Legal Counsel - Unanticipated	-	37,395	(37,395)	0.0%
Total 6907 · WM Legal Counsel	**366,656**	**579,635**	**(212,979)**	**63.3%**
Total Brownstein, Hyatt, Farber, Schreck Costs	**$ 1,390,193**	**$ 1,376,233**	**$ 13,961**	**101.0%**

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. As of May 31st, the target budget percentage is generally 92%.

	Year to Date Actual	FY 23-24 Budget	$ Over / (Under) Budget	% of Budget
6900 · Optimum Basin Mgmt Plan				
6901.1 · OBMP - Document Review-WM Staff	$ 29,776	$ 89,136	$ (59,360)	33.4%
6901.3 · OBMP - Field Work-WM Staff	4,691	7,003	(2,312)	67.0%
6901.5 · OBMP - General-WM Staff	120,005	124,049	(4,044)	96.7%
6901.7 · OBMP - Meeting-WM Staff	31,919	57,589	(25,670)	55.4%
6901.8 · OBMP - Meeting-West Yost	61,273	45,096	16,177	135.9%
6901.9 · OBMP - Reporting-WM Staff	5,688	2,370	3,318	240.0%
6901.95 · OBMP - Reporting-West Yost	53,194	57,316	(4,123)	92.8%
Total 6901 · OBMP WM and West Yost Staff	**306,546**	**382,559**	**(76,013)**	**80.1%**
6903 · OBMP - SAWPA				
6903 · OBMP - SAWPA Group	24,071	24,071	0	100.0%
Total 6903 · OBMP - SAWPA	**24,071**	**24,071**	**0**	**100.0%**
6906 · OBMP Engineering Services				
6906.1 · OBMP - Watermaster Model Update	18,889	41,235	(22,346)	45.8%
6906.15 · Integrated Model Mtgs. - IEUA Costs	-	-	-	0.0%
6906.21 · State of the Basin Report	-	-	-	0.0%
6906.26 · 2020 OBMP Update	4,508	24,016	(19,508)	18.8%
6906.71 · OBMP - Data Requests - CBWM Staff	-	-	-	0.0%
6906.72 · OBMP - Data Requests - Non CBWM	-	-	-	0.0%
6906 · OBMP Engineering Services - Other	35,951	46,992	(11,041)	76.5%
Total 6906 · OBMP Engineering Services	**59,348**	**112,243**	**(52,895)**	**52.9%**
6907 · OBMP Legal Fees				
6907.31 · Archibald South Plume	-	12,085	(12,085)	0.0%
6907.32 · Chino Airport Plume	720	12,085	(11,365)	6.0%
6907.33 · Desalter/Hydraulic Control	1,358	37,200	(35,842)	3.7%
6907.34 · Santa Ana River Water Rights	3,272	20,595	(17,323)	15.9%
6907.36 · Santa Ana River Habitat	-	30,090	(30,090)	0.0%
6907.38 · Reg. Water Quality Cntrl Board	2,950	30,090	(27,140)	9.8%
6907.39 · Recharge Master Plan	49,909	30,495	19,414	163.7%
6907.40 · Storage Agreements	-	16,960	(16,960)	0.0%
6907.41 · Prado Basin Habitat Sustainability	2,039	9,900	(7,862)	20.6%
6907.44 · SGMA Compliance	104	9,900	(9,797)	1.0%
6907.45 · OBMP Update	196,206	172,880	23,326	113.5%
6907.47 · 2020 Safe Yield Reset	21,398	33,920	(12,522)	63.1%
6907.48 · Ely Basin Investigation	88,702	126,040	(37,338)	70.4%
6907.90 · WM Legal Counsel - Unanticipated	-	37,395	(37,395)	0.0%
Total 6907 · OBMP Legal Fees	**366,656**	**579,635**	**(212,979)**	**63.3%**
6908 · OBMP Updates				
6908.1 · 2020 OBMP Update-Dodson & Assoc.	88,996	107,578	(18,581)	82.7%
Total 6908 · OBMP Updates	**88,996**	**107,578**	**(18,581)**	**82.7%**
6909 · OBMP Other Expenses				
6909.1 · OBMP Meetings	-	1,500	(1,500)	0.0%
6909.3 · Other OBMP Expenses	3,258	2,724	534	119.6%
6909.6 · OBMP Expenses - Miscellaneous	-	5,000	(5,000)	0.0%
Total 6909 · OBMP Other Expenses	**3,258**	**9,224**	**(5,966)**	**35.3%**
Total 6900 · Optimum Basin Mgmt Plan	**$ 848,875**	**$ 1,215,309**	**$ (366,435)**	**69.8%**

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. As of May 31st, the target budget percentage is generally 92%.

	Year to Date Actual	FY 23-24 Budget	$ Over / (Under) Budget	% of Budget
5901 · Admin-WM Staff				
5901.1 · Admin-Doc. Review-WM Staff	$ 27,678	$ 82,794	$ (55,116)	33.4%
5901.3 · Admin-Field Work-WM Staff	2,314	7,760	(5,446)	29.8%
5901.5 · Admin-General-WM Staff	54,207	60,129	(5,922)	90.2%
5901.7 · Admin-Meeting-WM Staff	14,494	2,633	11,861	550.5%
5901.8 · Admin-Meeting - West Yost	-	45,097	(45,097)	0.0%
5901.9 · Admin-Reporting-WM Staff	2,154	31,033	(28,879)	6.9%
Total 5901 · Admin-WM Staff	**100,846**	**229,446**	**(128,600)**	**44.0%**
5900 · Judgment Admin Other Expenses				
5906.71 · Admin-Data Req-CBWM Staff	45,902	126,204	(80,302)	36.4%
5906.72 · Admin-Data Req-Non CBWM Staff	9,846	42,832	(32,986)	23.0%
5910 · Court Coordination/Attend-WM	8,774	19,098	(10,324)	45.9%
5911 · Exhibit G-WM Staff	1,592	2,370	(778)	67.2%
5921 · Production Monitoring-WM Staff	3,062	11,322	(8,260)	27.0%
5925 · Ag Prod & Estimation-West Yost	22,928	34,376	(11,449)	66.7%
5931 · Recharge Applications-WM Staff	2,065	4,634	(2,569)	44.6%
5935 · Admin-Mat'l Phy Inj Requests	3,932	36,072	(32,140)	10.9%
5941 · Reporting-WM Staff	900	1,316	(416)	68.4%
5945 · WM Annual Report Prep-West Yost	11,671	15,416	(3,745)	75.7%
5951 · Rules & Regs-WM Staff	-	12,726	(12,726)	0.0%
5961 · Safe Yield-WM Staff	1,845	26,330	(24,485)	7.0%
5965 · Support Data Collect-West Yost	5,496	36,336	(30,841)	15.1%
5971 · Storage Agreements-WM Staff	3,550	4,739	(1,189)	74.9%
5981 · Water Acct/Database-WM Staff	106,812	109,793	(2,981)	97.3%
5991 · Water Transactions-WM Staff	4,254	8,688	(4,434)	49.0%
Total 5900 · Judgment Admin Other Expenses	**232,628**	**492,252**	**(259,624)**	**47.3%**
Total 5900 · Judgment Administration	**$ 333,474**	**$ 721,698**	**$ (388,224)**	**46.2%**

"Carry Over" Funding:

During the month of July 2023, the "Carry Over" funding was calculated. The Total "Carry Over" funding amount of $2,277,561.54 has been posted to the general ledger accounts. The total amount consisted of $870,226.24 from Engineering Services, $816,709.78 from Capital Improvement Projects, $464,627.66 from OBMP Activities, $111,461.18 from Pool Funding Accounts, and $14,536.68 from Administration Services. More detailed information is provided in the table below.

Carry Over Budget Detail - FY 23/24

Description		Amount	Account	Fiscal Year	Type
Other Office Equipment - Boardroom Upgrades	$	10,037.93	6038	FY 2020/21	ADMIN
Board Workshop Expenses - Misc.		4,498.75	6375.2	FY 2021/22	ADMIN
Meter Installation - New Meter Installation		175,400.00	7540	FY 2018/19	OBMP
Meter Installation - Calibration and Testing		181,650.00	7545	FY 2018/19	OBMP
2022 OBMP Update - Dodson & Asso.		107,577.66	6908.1	FY 2022/23	OBMP
Watermaster Model Update		34,206.75	5906.1	FY 2022/23	ENG
Groundwater Level Monitoring Program		2,700.00	7104.3	FY 2022/23	ENG
PE2 - Comprehensive Recharge - Eng. Services		27,943.64	7202.2	FY 2020/21	ENG
PE2 - Comprehensive Recharge - Eng. Services		18,441.85	7202.2	FY 2021/22	ENG
PE2 - Comprehensive Recharge - Eng. Services		72,788.26	7202.2	FY 2022/23	ENG
SB88-Specs-Ensure Compliance-50% IEUA		54,012.38	7208	FY 2020/21	ENG
OBMP - 2023 RMPU		60,000.00	7210	FY 2022/23	ENG
Integrated Model - Meetings - 50% IEUA Costs		24,617.63	7220	FY 2021/22	ENG
PBHSP - Monitoring, Data Analysis, Reporting		21,000.00	7302	FY 2022/23	ENG
OBMP - Engineering Services		65,208.75	7402	FY 2022/23	ENG
PE4 - Northwest MZ-1 Area Project		23,805.91	7402.1	FY 2021/22	ENG
PE4 - Northwest MZ-1 Area Project		126,194.09	7402.1	FY 2022/23	ENG
PE4/MZ-1: InSAR - Outside Pro		85,000.00	7403	FY 2022/23	ENG
Ground Level Monitoring - Capital Equipment		5,000.00	7408	FY 2022/23	ENG
PE6-7: Coop Efforts/Salt Management:		40,000.00	7502	FY 2022/23	ENG
Groundwater Quality Monitoring Program		16,194.00	7505	FY 2022/23	ENG
Hydraulic Control Mitigation Plan Update-50% IEUA		9,687.25	7508	FY 2021/22	ENG
Hydraulic Control Mitigation Plan Update-50% IEUA		1,016.00	7508	FY 2022/23	ENG
IEUA - Update Recycle Water Permit - Salinity		19,752.23	7510	FY 2021/22	ENG
PE8&9 - Support Imp. 2020 Storage Mgmt. Plan		42,657.50	7610	FY 2020/21	ENG
Support Implementation of the Safe Yield Court Order:		120,000.00	7614	FY 2022/23	ENG
Upper Santa Ana River HCP (TO #7)		15,062.88	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)		5,000.00	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)		238,646.90	7690.8	FY 2016/17	PROJ
Jurupa Basin Berm & Trash Boom		358,000.00	7690.23	FY 2022/23	PROJ
Funds on Hold for Projects/Refund		200,000.00	7690.9	FY 2017/18	PROJ
Agricultural Pool - Legal Services		41,675.63	8467	FY 2022/23	AP
Agricultural Pool - Mtg. Attendance Compensation		950.98	8470	FY 2022/23	OAP
Agricultural Pool - Special Project Funding		10,993.67	8471	FY 2021/22	OAP
Non-Agricultural Pool - Meeting Compensation		875.00	8511	FY 2022/23	ONAP
Non-Agricultural Pool - Legal Services		56,965.90	8567	FY 2022/23	ONAP
Balance at 7/31/23	**$**	**2,277,561.54**			

Chino Basin Watermaster
Cash Disbursements
June 2024

Date	Number	Vendor Name	Description	Amount
06/04/2024	24839	BURRTEC WASTE INDUSTRIES, INC.	Utilities: Waste	$ (160.73)
06/04/2024	24840	CHEF DAVE'S CATERING & EVENT SERVICES	Board meeting catering services	(568.36)
06/04/2024	24841	FRONTIER COMMUNICATIONS	Landline connection for Bay Alarm system	(151.57)
06/04/2024	24842	GEYE, BRIAN		(375.00)
06/04/2024	24843	GRAINGER	Replacement mailbox and pedestal	(857.58)
06/04/2024	24844	KUHN, BOB		(500.00)
06/04/2024	24845	PIERSON, JEFFREY		(3,500.00)
06/04/2024	24846	PSMJ RESOURCES, INC	Advisory services for rate study	(3,000.00)
06/04/2024	24847	STANDARD INSURANCE CO.	May life and disability coverage	(786.78)
06/04/2024	24848	UNION 76	May fuel purchases	(159.96)
06/04/2024	24849	WEST YOST	April engineering services	(266,433.29)
06/04/2024	24850	WESTERN AUDIO VISUAL	Troubleshooting services	(360.00)
06/06/2024	24851	ACWA JOINT POWERS INSURANCE AUTHORITY	July life insurance	(198.83)
06/06/2024	24852	APPLIED COMPUTER TECHNOLOGIES	May database consulting services	(4,250.00)
06/06/2024	24853	BROWNSTEIN HYATT FARBER SCHRECK	May legal services	(51,595.14)
06/06/2024	24854	CALIFORNIA BANK & TRUST	Account ending 6198 - See detail attached	(2,978.29)
06/06/2024	24855	ELIE, STEVEN		(250.00)
06/06/2024	24856	EMPOWER LAB	June coaching services	(500.00)
06/06/2024	24857	GARCIA, JORDAN	Reimbursement for work boots	(129.29)
06/06/2024	24858	KAVOUNAS, PETER	Health and dental premium reimbursements	(1,483.29)
06/06/2024	24859	SPECTRUM ENTERPRISE	June internet services	(1,105.40)
06/06/2024	24860	STATE COMPENSATION INSURANCE FUND	FY 24 Worker's compensation insurance	(2,768.99)
06/06/2024	24861	VANGUARD CLEANING SYSTEMS	June janitorial service and May electrostatic spraying	(1,220.00)
06/06/2024	24862	VELTO, BILL		(250.00)
06/06/2024	24863	WESTERN MUNICIPAL WATER DISTRICT		(375.00)
06/12/2024	24864	ABC LOCKSMITHS	South door battery replacement and testing	(206.09)
06/12/2024	24865	BAY ALARM COMPANY	Security alarm monitoring service	(177.87)
06/12/2024	24866	BOWCOCK, ROBERT		(625.00)
06/12/2024	24867	CUCAMONGA VALLEY WATER DISTRICT	July lease	(11,727.00)
06/12/2024	24868	DE BOOM, NATHAN		(125.00)
06/12/2024	24869	EGOSCUE LAW GROUP, INC.	May OAP legal services	(17,850.00)
06/12/2024	24870	EIDE BAILLY LLP	April accounting consulting services	(1,850.00)
06/12/2024	24871	FEENSTRA, BOB		(1,125.00)
06/12/2024	24872	SOUTHERN CA EDISON	Utilities: Electric	(1,429.93)
06/12/2024	24873	THREE VALLEYS MUNICIPAL WATER DIST	Leadership breakfast - T. Corbin, J. Nakano	(70.00)
06/12/2024	24874	VERIZON WIRELESS	Internet services for Field Ops tablets	(276.63)
06/12/2024	ACH6/12/24	CALPERS	June Medical Insurance Premiums	(18,714.99)
06/19/2024	24875	GREAT AMERICA LEASING CORP.	May copy machine lease	(1,572.85)
06/19/2024	24876	LEGAL SHIELD	June employee paid legal insurance	(119.55)
06/19/2024	24877	SOCALGAS	Utilities: Gas	(48.96)
06/19/2024	24878	SPECIALIZED SERVICES OF SO CAL	Staff CPR training	(450.00)
06/19/2024	24879	VIDES, ERIK	Reimbursement for work boots	(137.80)
06/25/2024	24880	CURATALO, JAMES		(1,000.00)
06/25/2024	24881	FILIPPI, GINO		(375.00)
06/25/2024	24882	RUBEN LLAMAS		(125.00)
06/25/2024	24883	WEST YOST	May engineering services	(298,956.99)
06/28/2024	24884	CONCENTRA	Pre-employment screening	(181.00)
06/28/2024	24885	CORELOGIC INFORMATION SOLUTIONS	May geographic package services	(125.00)
06/28/2024	24886	CUCAMONGA VALLEY WATER DISTRICT - UTILITY	Utilities: Water	(325.33)
06/28/2024	24887	DELUXE BUSINESS FORMS & SUPPLIES	Blank check replenishment order	(1,126.95)
06/28/2024	24888	PURCHASE POWER	June postage refill	(507.00)
06/28/2024	24889	READY REFRESH	Office water dispenser lease	(210.59)
06/28/2024	24890	SOUTHERN CALIFORNIA EDISON	Utilities: Electric	(184.94)
06/28/2024	24891	STANDARD INSURANCE CO.	June life and disability coverage	(786.78)
06/28/2024	24892	UNITED HEALTHCARE	July dental insurance coverage	(1,256.08)
06/28/2024	24893	VERIZON WIRELESS	Internet services and mobile broadband unlimited	(38.01)
06/28/2024	24894	VISION SERVICE PLAN	July vision insurance coverage	(113.85)
06/28/2024	24895	WAXIE SANITARY SUPPLY	Sanitary supplies	(232.22)
			Total for Month	**$ (706,008.91)**

Chino Basin Watermaster
Credit Card Expense Detail
June 2024

Date	Number	Description	Expense Account	Amount
06/06/2024	24854	**CALIFORNIA BANK & TRUST**		
		Uber Trip - ACWA Conference - E. Tellez Foster	6173 · Airfare/Mileage	(21.76)
		Uber Trip - ACWA Conference - E. Tellez Foster	6173 · Airfare/Mileage	(13.91)
		Hyatt Regency - ACWA Conference - Lodging - E. Tellez Foster	6193 · Employee Training	(572.63)
		Uber Trip - ACWA Conference - E. Tellez Foster	6173 · Airfare/Mileage	(31.91)
		Amazon - Ethernet Adaptor	6055 · Computer Hardware	(19.37)
		REV Subscription - Speech to text transcription services	6112 · Subscriptions/Publications	(29.99)
		Amazon - M. Levin retirement gift	6031.7 · General Office Supplies	(26.83)
		Amazon - Misc. Office Supplies	6031.7 · General Office Supplies	(27.08)
		Engrave and Embroidery - Name plate - M. Levin	6031.7 · General Office Supplies	(52.78)
		Amazon - HBR Guide to Persuasive Presentations - A. Nelson	6031.7 · General Office Supplies	(8.86)
		Amazon - Return - Mousepad	6031.7 · General Office Supplies	32.30
		Amazon - HBR Guide to Persuasive Presentations - A. Nelson	6031.7 · General Office Supplies	(9.69)
		Costco - Meeting supplies	6312 · Meeting Expenses	(229.62)
		Costco - Misc. Office Supplies	6031.7 · General Office Supplies	(100.65)
		LinkedIn - Executive Assistant / Board Clerk position recruitment	6112 · Subscriptions/Publications	(520.00)
		Bamboo HR - HRIS and Timekeeping System	6061.2 · HRIS System	(230.14)
		FedEx - Check re-issue - K. Hills	6042 · Postage - General	(18.77)
		CalPERS - Pathways for Women Conference 2024 - A. Nelson	6191 · Conferences - General	(199.00)
		LinkedIn - Executive Assistant / Board Clerk position recruitment	6112 · Subscriptions/Publications	(108.25)
		Costco - Meeting supplies	6031.7 · General Office Supplies	(40.40)
		Amazon - Dell docking station	6055 · Computer Hardware	(273.61)
		LinkedIn - Premium Monthly Subscription	6112 · Subscriptions/Publications	(39.99)
		Amazon - Liquid I.V. hydration multiplier for OPS team	6031.7 · General Office Supplies	(55.25)
		Baskin Robbins - Staff meeting dessert	6141.3 · Admin Meetings	(34.99)
		Web Bluehost - Website renewal	6054 · Computer Software	(181.87)
		FedEx - Advisory Packet for Jeff Pierson	6042 · Postage - General	(40.55)
		Amazon - Work gloves for OPS team	6151 · Small Tools & Equipment	(39.76)
		FedEx - Board Packet for Jeff Pierson and Steve Elie	6042 · Postage - General	(37.78)
		Jersey Mikes - Interview Meeting - T. Corbin, A. Nelson, E. Tellez Foster	6141.3 · Admin Meetings	(45.15)
			Total for Month	**$ (2,978.29)**

Chino Basin Watermaster

Combining Schedule of Revenues, Expenses & Changes in Net Assets
For the Period of July 1, 2023 through June 30, 2024
(Unaudited)

	JUDGMENT ADMIN.	OPTIMUM BASIN MGMT.	TOTAL JUDGMENT ADMIN & OBMP	POOL ADMINISTRATION & SPECIAL PROJECTS: AP POOL	OAP POOL	ONAP POOL	GROUND WATER REPLENISH.	GRAND TOTALS	ADOPTED BUDGET 2023-2024 WITH CARRYOVER
Administrative Revenues:									
Administrative Assessments	$ 5,636,711	$ 3,678,686	$ 9,315,397	$ 646,000	$ -	$ 31,000	$ -	$ 9,992,397	$ 9,314,915
Interest Revenue	-	487,997	487,997	18,688	61,738	2,988	35,914	607,325	312,500
Groundwater Replenishment	-	-	-	-	-	-	349,825	349,825	-
Mutual Agency Project Revenue	186,412	-	186,412	-	-	-	-	186,412	186,412
Miscellaneous Income	-	-	-	-	-	-	-	-	-
Total Administrative Revenues	**5,823,123**	**4,166,683**	**9,989,806**	**664,688**	**61,738**	**33,988**	**385,739**	**11,135,959**	**9,813,827**
Administrative & Project Expenditures:									
Watermaster Administration	3,745,979	-	3,745,979	-	-	-	-	3,745,979	2,993,430
Watermaster Board-Advisory Committee	302,133	-	302,133	-	-	-	-	302,133	366,923
Optimum Basin Mgmt Administration	-	913,172	913,172	-	-	-	-	913,172	1,215,309
OBMP Project Costs	-	3,802,131	3,802,131	-	-	-	-	3,802,131	5,409,723
Pool Legal Services	-	-	-	140,745	165,861	19,471	-	326,076	346,642
Pool Meeting Compensation	-	-	-	-	43,000	6,625	-	49,625	66,820
Pool Special Projects	-	-	-	-	9,357	-	-	9,357	-
Pool Administration	-	-	-	-	-	-	-	-	327,067
Debt Service	-	583,281	583,281	-	-	-	-	583,281	1,665,475
Agricultural Expense Transfer [1]	-	-	-	218,218	(218,218)	-	-	-	-
Replenishment Water Assessments	-	-	-	-	-	-	1,920,791	1,920,791	1,715,286
Total Administrative Expenses	**4,048,112**	**5,298,583**	**9,346,696**	**358,962**	**-**	**26,096**	**1,920,791**	**11,652,544**	**14,106,675**
Net Ordinary Income	**1,775,011**	**(1,131,901)**	**643,110**	**305,726**	**61,738**	**7,892**	**(1,535,052)**	**(516,585)**	**(4,292,848)**
Other Income/(Expense)									
Refund-Recharge Debt Service	-	-	-	-	-	-	-	-	-
Carryover Budget	-	-	-	-	-	-	-	-	2,277,562
Net Other Income/(Expense)	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2,277,562**
Net Transfers To/(From) Reserves	**$ 1,775,011**	**$ (1,131,901)**	**$ 643,110**	**$ 305,726**	**$ 61,738**	**$ 7,892**	**$ (1,535,052)**	**$ (516,585)**	**$ (2,015,286)**
Net Assets, July 1, 2023			9,768,099	41,205	1,343,226	57,841	1,715,286	12,925,657	
Refund-Excess Operating Reserves			(1,542,183)						
Net Assets, End of Period			**8,869,026**	**346,931**	**1,404,964**	**65,733**	**180,234**	**12,409,071**	
Pool Assessments Outstanding				(86,315)	(731,123)	-			
Pool Fund Balance				**$ 260,616**	**$ 673,841**	**$ 65,733**			

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

Chino Basin Watermaster

Treasurer's Report

June 2024

	Type	Monthly Yield	Cost	Market	% Total
Cash & Investments					
Local Agency Investment Fund (LAIF) *	Investment	4.48%	$ 636,203	$ 633,859	5.3%
CA CLASS Prime Fund **	Investment	5.40%	10,449,837	$ 10,448,927	86.8%
Bank of America	Checking		950,640	950,640	7.9%
Bank of America	Payroll		-	-	0.0%
Total Cash & Investments			**$ 12,036,680**	**$ 12,033,427**	**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, 2023 to June 30, 2024

(Unaudited)

		June 2024	YTD Actual	FY 24 Adopted Budget with Carryover	$ Over / (Under) Budget	% of Budget
1	**Administration Revenue**					
2	Local Agency Subsidies	$ -	$ 186,412	$ 186,412	$ -	100%
3	Admin Assessments-Appropriative Pool	-	9,669,482	8,886,165	783,317	109%
4	Admin Assessments-Non-Ag Pool	-	322,914	428,750	(105,836)	75%
5	**Total Administration Revenue**	**-**	**10,178,809**	**9,501,327**	**677,482**	**107%**
6	**Other Revenue**					
7	Appropriative Pool-Replenishment	-	335,840	-	335,840	N/A
8	Non-Ag Pool-Replenishment	-	13,985	-	13,985	N/A
9	Interest Income	53,209	607,325	312,500	294,825	194%
10	Miscellaneous Income	-	-	-	-	N/A
11	Carryover Budget	-	-	2,277,562	(2,277,562)	0%
12	**Total Other Revenue**	**53,209**	**957,150**	**2,590,062**	**(1,632,912)**	**37%**
13	**Total Revenue**	**53,209**	**11,135,959**	**12,091,389**	**(955,430)**	**92%**
14	**Judgment Administration Expense**					
15	Judgment Administration	27,417	360,891	721,698	(360,807)	50%
16	Admin. Salary/Benefit Costs	55,819	1,770,842	1,413,610	357,232	125%
17	Office Building Expense	4,861	196,886	208,510	(11,624)	94%
18	Office Supplies & Equip.	4,013	44,791	49,438	(4,647)	91%
19	Postage & Printing Costs	2,648	27,648	33,806	(6,158)	82%
20	Information Services	13,577	160,992	199,818	(38,826)	81%
21	Contract Services	230	143,129	60,200	82,929	238%
22	Watermaster Legal Services	63,136	987,233	565,964	421,269	174%
23	Insurance	32,546	78,802	50,468	28,334	156%
24	Dues and Subscriptions	1,570	39,956	40,027	(71)	100%
25	Watermaster Administrative Expenses	67	7,492	7,550	(58)	99%
26	Field Supplies	479	2,019	3,200	(1,181)	63%
27	Travel & Transportation	2,653	23,753	29,570	(5,817)	80%
28	Training, Conferences, Seminars	1,020	42,782	50,400	(7,618)	85%
29	Advisory Committee Expenses	5,089	49,214	105,823	(56,609)	47%
30	Watermaster Board Expenses	17,515	252,919	261,100	(8,181)	97%
31	ONAP - WM & Administration	5,203	35,864	106,194	(70,330)	34%
32	OAP - WM & Administration	6,676	45,590	108,700	(63,110)	42%
33	Appropriative Pool- WM & Administration	14,826	82,576	112,173	(29,597)	74%
34	Allocated G&A Expenditures	(30,444)	(305,265)	(440,829)	135,564	69%
35	**Total Judgment Administration Expense**	**228,902**	**4,048,112**	**3,687,420**	**360,693**	**110%**
36	**Optimum Basin Management Plan (OBMP)**					
37	Optimum Basin Management Plan	43,279	913,172	1,215,309	(302,138)	75%
38	Groundwater Level Monitoring	74,333	435,189	459,625	(24,436)	95%
39	Program Element (PE)2- Comp Recharge	15,124	1,235,667	1,672,577	(436,910)	74%
40	PE3&5-Water Supply/Desalte	17,314	98,447	105,677	(7,230)	93%
41	PE4- Management Plan	44,321	475,810	817,643	(341,833)	58%
42	PE6&7-CoopEfforts/SaltMgmt	22,020	532,732	1,117,623	(584,891)	48%
43	PE8&9-StorageMgmt/Conj Use	62,669	703,022	795,750	(92,728)	88%
44	Recharge Improvements	-	583,281	1,665,475	(1,082,194)	35%
45	Administration Expenses Allocated-OBMP	13,100	159,522	222,160	(62,638)	72%
46	Administration Expenses Allocated-PE 1-9	17,344	161,744	218,669	(56,925)	74%
47	**Total OBMP Expense**	**309,504**	**5,298,583**	**8,290,508**	**(2,991,924)**	**64%**
48	**Pool Administration**					
49	Appropriative Pool-Legal Services	-	140,745	-	140,745	N/A
50	OAP Legal & Technical Services	29,450	165,861	291,676	(125,815)	57%
51	OAP Meeting Compensation	625	43,000	61,945	(18,945)	69%
52	OAP Expense - Special Projects	-	9,357	-	9,357	N/A
53	ONAP - Legal Services	-	19,471	54,966	(35,495)	35%
53	ONAP - Meeting Compensation	375	6,625	4,875	1,750	136%
54	**Total Pool Administration**	**30,450**	**385,058**	**413,461**	**(28,404)**	**93%**
56	**Other Expense**					
57	Groundwater Replenishment	-	1,920,791	1,715,286	205,504	112%
58	**Total Other Expense**	**-**	**1,920,791**	**1,715,286**	**205,504**	**112%**
59	**Total Expenses**	**568,856**	**11,652,544**	**14,106,675**	**(2,454,131)**	**83%**
60	**Increase / (Decrease) to Reserves**	**$ (515,647)**	**$ (516,585)**	**$ (2,015,286)**	**$ 1,498,701**	

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 24 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:

- Lines 3-4 Administrative Assessments for the Agricultural and Non-Agricultural Pools include annual assessment invoices issued in November of each year, as well as special assessments issued at the direction of the respective Pools. The Appropriative Pool line ended over budget due to changes in actual versus projected production, and special assessments issued.

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 ended over budget due to vacation, sick time, and severance payouts.
- Line 21 Contract Services includes outside services for the annual audit report, HR consulting, court filings, and accounting consulting. The account ended over budget due to increased consulting services not anticipated in the budget. These increased consulting service costs should be offset by savings in administrative salaries and benefits.

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

Lines 48-54 Pool Administration Expenses – Includes expense activity relating to Pool specific fund balances. These include legal services for each Pool, Ag Pool meeting compensation, and Ag Pool special projects.

Lines 56-59 Other Expense – Includes groundwater replenishment, and various refunds as appropriate. YTD activity includes refunds for prior year recharge basin O&M expenses and excess reserves.

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 June 30, 2024 (continued next page):

Fund Balance For Non-Agricultural Pool Account 8567 - Legal Services		
Beginning Balance July 1, 2023:	$	56,965.90
Additions:		
Interest Earnings		2,987.69
Payments received on ONAP Assessment invoices issued 11/18/23		25,000.00
Subtotal Additions:		27,987.69
Reductions:		
Invoices paid July 2023 - June 2024		(19,470.50)
Budget Transfers		(2,000.00)
Subtotal Reductions:		(21,470.50)
Available Fund Balance as of June 30, 2024	**$**	**63,483.09**

Fund Balance For Appropriative Pool Account 8367 - Legal Services		
Beginning Balance July 1, 2023:	$	(12,415.36)
Additions:		
Interest Earnings		18,688.18
Payments received on AP Pool Assessment invoices issued 10/30/23		178,107.17
Subtotal Additions:		196,795.35
Reductions:		
Invoices paid July 2023 - June 2024		(140,744.61)
Subtotal Reductions:		(140,744.61)
Available Fund Balance as of June 30, 2024	**$**	**43,635.38**

Fund Balance For Non-Agricultural Pool Account 8511 - Meeting Compensation		
Beginning Balance July 1, 2020:	$	875.00
Additions:		
Payments received on ONAP Assessment invoices issued 11/18/23		6,000.00
Budget Transfers		2,000.00
Subtotal Additions:		8,000.00
Reductions:		
Compensation paid July 2023 - June 2024		(6,625.00)
Subtotal Reductions:		(6,625.00)
Available Fund Balance as of June 30, 2024	**$**	**2,250.00**

Fund Balance For Appropriative Pool Account 8368 - Tom Harder Contract		
Beginning Balance July 1, 2023:	$	-
Additions:		
Interest Earnings		-
Payments received on AP Pool Assessment invoices issued 10/30/23		20,577.61
Subtotal Additions:		20,577.61
Reductions:		
Invoices paid July 2023 - June 2024		-
Subtotal Reductions:		-
Available Fund Balance as of June 30, 2024	**$**	**20,577.61**

Chino Basin Watermaster
Monthly Variance Report & Supplemental Schedules
For the period July 1, 2023 to June 30, 2024
(Unaudited)

Pool Services Fund Accounting – Cont.

Fund Balance for Agricultural Pool Account 8467 - Legal Services (Held by AP)		
Beginning Balance July 1, 2023:	$	41,675.63
Additions:		
Payments received on AP Pool Assessment invoices issued 10/30/23		250,000.00
Total Additions:		250,000.00
Reductions:		
Invoices paid July 2023 - June 2024		(165,860.50)
Subtotal Reductions:		(165,860.50)
Available Fund Balance as of June 30, 2024	**$**	**125,815.13**

Agricultural Pool Reserve Funds As shown on the Combining Schedules		
Beginning Balance July 1, 2023:	$	612,103.32
Additions:		
YTD Interest earned on Ag Pool Funds FY 24		61,738.14
Transfer of Funds from AP to Special Fund for Legal Service Invoices		165,860.50
Total Additions:		227,598.64
Reductions:		
Legal service invoices paid July 2023 - June 2024		(165,860.50)
Total Reductions		(165,860.50)
Agricultural Pool Reserve Funds Balance as of June 30, 2024:	**$**	**673,841.46**

Fund Balance For Agricultural Pool Account 8470 - Meeting Compensation (Held by AP)		
Beginning Balance July 1, 2023:	$	950.98
Additions:		
Payments received on AP Pool Assessment invoices issued 10/30/23		50,000.00
Budget Transfers[1]		10,993.67
Subtotal Additions:		60,993.67
Reductions:		
Compensation paid July 2023 - June 2024		(43,000.00)
Subtotal Reductions:		(43,000.00)
Available Fund Balance as of June 30, 2024	**$**	**18,944.65**

[1]Per action taken at September pool committee meeting.

Fund Balance For Agricultural Pool Account 8471 - Special Projects (Held by AP)		
Beginning Balance July 1, 2023:	$	10,993.67
Additions:		
Payments received on AP Pool Assessment invoices issued 10/30/23		61,000.00
Subtotal Additions:		61,000.00
Reductions:		
Invoices paid July 2023 - June 2024		(9,357.00)
Budget Transfers[1]		(10,993.67)
Subtotal Reductions:		(20,350.67)
Available Fund Balance as of June 30, 2024	**$**	**51,643.00**

[1]Per action taken at September pool committee meeting.

Watermaster Salary Expenses

The following table details the Year-To-Date (YTD) Actual Watermaster burdened salary 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 23-24 Budget	$ Over / (Under) Budget	% of Budget
WM Salary Expense				
5901.1 · Judgment Admin - Doc. Review	34,132	82,794	(48,662)	41.2%
5901.3 · Judgment Admin - Field Work	2,314	7,760	(5,446)	29.8%
5901.5 · Judgment Admin - General	54,207	60,129	(5,922)	90.2%
5901.7 · Judgment Admin - Meeting	16,230	2,633	13,597	616.4%
5901.9 · Judgment Admin - Reporting	2,684	31,033	(28,349)	8.6%
5910 · Judgment Admin - Court Coord./Attendance	8,864	19,098	(10,235)	46.4%
5911 · Judgment Admin - Exhibit G	1,592	2,370	(778)	67.2%
5921 · Judgment Admin - Production Monitoring	3,062	11,322	(8,260)	27.0%
5931 · Judgment Admin - Recharge Applications	2,200	4,634	(2,434)	47.5%
5941 · Judgment Admin - Reporting	900	1,316	(416)	68.4%
5951 · Judgment Admin - Rules & Regs	265	12,726	(12,461)	2.1%
5961 · Judgment Admin - Safe Yield	6,498	26,330	(19,832)	24.7%
5971 · Judgment Admin - Storage Agreements	4,652	4,739	(87)	98.2%
5981 · Judgment Admin - Water Accounting/Database	113,668	109,793	3,875	103.5%
5991 · Judgment Admin - Water Transactions	5,906	8,688	(2,782)	68.0%
6011.11 · WM Staff - Overtime	11,418	15,000	(3,582)	76.1%
6011.4 · 457(f) NQDC Plan	18,494	55,467	(36,973)	33.3%
6011.10 · Admin - Accounting	228,413	367,685	(139,272)	62.1%
6011.15 · Admin - Building Admin	14,912	18,359	(3,447)	81.2%
6011.20 · Admin - Conference/Seminars	36,697	57,083	(20,386)	64.3%
6011.25 · Admin - Document Review	7,438	6,846	592	108.6%
6011.50 · Admin - General	463,055	569,850	(106,795)	81.3%
6011.60 · Admin - HR	102,650	43,489	59,161	236.0%
6011.70 · Admin - IT	59,014	53,975	5,039	109.3%
6011.80 · Admin - Meeting	57,976	90,440	(32,464)	64.1%
6011.90 · Admin - Team Building	12,640	41,304	(28,664)	30.6%
6011.95 · Admin - Training (Give/Receive)	23,686	34,312	(10,626)	69.0%
6017· Temporary Services	36,154	24,000	12,154	150.6%
6201 · Advisory Committee	31,924	55,149	(23,225)	57.9%
6301 · Watermaster Board	94,028	61,818	32,210	152.1%
8301 · Appropriative Pool	51,796	53,761	(1,965)	96.3%
8401 · Agricultural Pool	17,976	51,549	(33,573)	34.9%
8501 · Non-Agricultural Pool	12,381	50,443	(38,062)	24.5%
6901.1 · OBMP - Document Review	33,960	89,136	(55,176)	38.1%
6901.3 · OBMP - Field Work	5,569	7,003	(1,434)	79.5%
6901.5 · OBMP - General	129,579	124,049	5,530	104.5%
6901.7 · OBMP - Meeting	36,597	57,589	(20,992)	63.5%
6901.9 · OBMP - Reporting	5,688	2,370	3,318	240.0%
7104.1 · PE1 - Monitoring Program	169,262	171,515	(2,253)	98.7%
7201 · PE2 - Comprehensive Recharge	50,366	57,925	(7,559)	87.0%
7301 · PE3&5 - Water Supply/Desalter	-	4,791	(4,791)	0.0%
7301.1 · PE5 - Reg. Supply Water Prgm.	-	2,633	(2,633)	0.0%
7401 · PE4 - MZ1 Subsidence Mgmt. Plan	802	13,055	(12,253)	6.1%
7501 · PE6 - Coop. Programs/Salt Mgmt.	10,712	8,027	2,685	133.4%
7501.1 · PE 7 - Salt Nutrient Mgmt. Plan	1,769	6,582	(4,813)	26.9%
7601 · PE8&9 - Storage Mgmt./Recovery	5,495	11,217	(5,722)	49.0%
Subtotal WM Staff Costs	**1,987,679**	**2,591,787**	**(604,108)**	**77%**
60184.1 · Administrative Leave	18,047	6,799	11,248	265.4%
60185 · Vacation	175,414	119,130	56,284	147.2%
60185.1 · Comp Time	1,194	-	1,194	100.0%
60186 · Sick Leave	48,506	83,123	(34,617)	58.4%
60187 · Holidays	-	-	-	0.0%
Subtotal WM Paid Leaves	**243,161**	**209,052**	**34,109**	**116%**
Total WM Salary Costs	**2,230,840**	**2,800,839**	**(569,999)**	**79.6%**

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 23-24 Budget	$ Over / (Under) Budget	% of Budget
Engineering Services Costs				
5901.8 · Judgment Admin - Meetings-Engineering Services	$ -	$ 45,097	$ (45,097)	0.0%
5906.1 · Judgment Admin - Watermaster Model Update	-	41,235	(41,235)	0.0%
5906.71 · Judgment Admin - Data Requests-CBWM Staff	46,107	126,204	(80,097)	36.5%
5906.72 · Judgment Admin - Data Requests-Non-CBWM Staff	12,712	42,832	(30,120)	29.7%
5925 · Judgment Admin - Ag Production & Estimation	22,928	34,376	(11,449)	66.7%
5935 · Judgment Admin - Mat'l Physical Injury Requests	3,932	36,072	(32,140)	10.9%
5945 · Judgment Admin - WM Annual Report Preparation	11,671	15,416	(3,745)	75.7%
5965 · Judgment Admin - Support Data Collection & Mgmt Process	6,367	36,336	(29,969)	17.5%
6206 · Advisory Committee Meetings-WY Staff	10,054	23,466	(13,412)	42.8%
6306 · Watermaster Board Meetings-WY Staff	31,206	23,466	7,740	133.0%
8306 · Appropriative Pool Meetings-WY Staff	19,907	23,467	(3,560)	84.8%
8406 · Agricultural Pool Meetings-WY Staff	16,918	23,466	(6,548)	72.1%
8506 · Non-Agricultural Pool Meetings-WY Staff	12,787	23,466	(10,679)	54.5%
6901.8 · OBMP - Meetings-WY Staff	64,202	45,096	19,106	142.4%
6901.95 · OBMP - Reporting-WY Staff	53,194	57,316	(4,123)	92.8%
6906 · OBMP Engineering Services - Other	39,435	46,992	(7,557)	83.9%
6906.26 · 2020 OBMP Update	4,508	24,016	(19,508)	18.8%
7104.3 · Grdwtr Level-Engineering	230,278	256,445	(26,167)	89.8%
7104.8 · Grdwtr Level-Contracted Services	-	10,000	(10,000)	0.0%
7104.9 · Grdwtr Level-Capital Equipment	25,916	9,915	16,001	261.4%
7202 · PE2-Comp Recharge-Engineering Services	12,232	29,084	(16,852)	42.1%
7202.2 · PE2-Comp Recharge-Engineering Services	74,549	202,362	(127,813)	36.8%
7208 · SB88 Specs-Compliance-50% IEUA	-	54,012	(54,012)	0.0%
7210 · OBMP - 2023 RMPU	37,768	94,328	(56,561)	40.0%
7220 · Integrated Model Mtg./Tech. Review-50% IEUA	-	24,618	(24,618)	0.0%
7302 · PE3&5-PBHSP Monitoring Program	95,847	69,121	26,726	138.7%
7303 · PE3&5-Engineering - Other	1,320	15,632	(14,313)	8.4%
7306 · PE3&5-Engineering - Outside Professionals	1,280	6,500	(5,220)	19.7%
7402 · PE4-Engineering	216,600	262,544	(45,944)	82.5%
7402.10 · PE4-Northwest MZ1 Area Project	127,105	271,703	(144,598)	46.8%
7403 · PE4-Eng. Services-Contracted Services-InSar	31,731	175,000	(143,270)	18.1%
7406 · PE4-Engineering Services-Outside Professionals	86,447	76,552	9,895	112.9%
7408 · PE4-Engineering Services-Network Equipment	12,076	14,081	(2,005)	85.8%
7502 · PE6&7-Engineering	291,954	384,163	(92,209)	76.0%
7505 · PE6&7-Laboratory Services	32,636	49,164	(16,528)	66.4%
7508 · HC Mitigation Plan-50% IEUA (TO #6)	7,990	10,703	(2,713)	74.7%
7510 · PE6&7-IEUA Salinity Mgmt. Plan	14,274	34,631	(20,358)	41.2%
7511 · PE6&7-SAWBMP Task Force-50% IEUA	11,305	24,610	(13,305)	45.9%
7517 · Surface Water Monitoring Plan-Chino Creek - 50% IEUA	58,473	69,821	(11,348)	83.7%
7520 · Preparation of Water Quality Mgmt. Plan	96,627	157,692	(61,065)	61.3%
7610 · PE8&9-Support 2020 Mgmt. Plan	14,984	69,306	(54,322)	21.6%
7614 · PE8&9-Support Imp. Safe Yield Court Order	647,324	663,747	(16,423)	97.5%
7620 · OBMP - Evaluation of Extreme Future Planning Scenarios	35,219	51,130	(15,912)	68.9%
Total Engineering Services Costs	**$ 2,484,641**	**$ 3,755,182**	**$ (1,235,323)**	**66.2%**

* West Yost and Subcontractor Engineering Budget of $2,884,956 plus Carryover Funds from FY 2022/23 of $870,226

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 23-24 Budget	$ Over / (Under) Budget	% of Budget
6070 · Watermaster Legal Services				
6071 · BHFS Legal - Court Coordination	$ 349,177	$ 171,260	$ 177,917	203.9%
6072 · BHFS Legal - Rules & Regulations	-	92,900	(92,900)	0.0%
6073 · BHFS Legal - Personnel Matters	436,993	10,820	426,173	4038.8%
6074 · BHFS Legal - Interagency Issues	-	43,704	(43,704)	0.0%
6077 · BHFS Legal - Party Status Maintenance	1,205	13,730	(12,525)	8.8%
6078 · BHFS Legal - Miscellaneous (Note 1)	191,756	233,550	(41,794)	82.1%
Total 6070 · Watermaster Legal Services	**979,131**	**565,964**	**413,167**	**173.0%**
6275 · BHFS Legal - Advisory Committee	7,237	26,708	(19,471)	27.1%
6375 · BHFS Legal - Board Meeting	73,186	85,272	(12,086)	85.8%
6375.1 · BHFS Legal - Board Workshop(s)	-	18,499	(18,499)	0.0%
8375 · BHFS Legal - Appropriative Pool	10,696	33,385	(22,689)	32.0%
8475 · BHFS Legal - Agricultural Pool	10,696	33,385	(22,689)	32.0%
8575 · BHFS Legal - Non-Ag Pool	10,696	33,385	(22,689)	32.0%
Total BHFS Legal Services	**112,511**	**230,634**	**(118,122)**	**48.8%**
6907.3 · WM Legal Counsel				
6907.31 · Archibald South Plume	-	12,085	(12,085)	0.0%
6907.32 · Chino Airport Plume	720	12,085	(11,365)	6.0%
6907.33 · Desalter/Hydraulic Control	1,358	37,200	(35,842)	3.7%
6907.34 · Santa Ana River Water Rights	3,272	20,595	(17,323)	15.9%
6907.36 · Santa Ana River Habitat	-	30,090	(30,090)	0.0%
6907.38 · Reg. Water Quality Cntrl Board	2,950	30,090	(27,140)	9.8%
6907.39 · Recharge Master Plan	68,708	30,495	38,213	225.3%
6907.40 · Storage Agreements	-	16,960	(16,960)	0.0%
6907.41 · Prado Basin Habitat Sustainability	3,218	9,900	(6,682)	32.5%
6907.44 · SGMA Compliance	104	9,900	(9,797)	1.0%
6907.45 · OBMP Update	196,206	172,880	23,326	113.5%
6907.47 · 2020 Safe Yield Reset	30,474	33,920	(3,446)	89.8%
6907.48 · Ely Basin Investigation	88,702	126,040	(37,338)	70.4%
6907.90 · WM Legal Counsel - Unanticipated	-	37,395	(37,395)	0.0%
Total 6907 · WM Legal Counsel	**395,711**	**579,635**	**(183,924)**	**68.3%**
Total Brownstein, Hyatt, Farber, Schreck Costs	**$ 1,487,354**	**$ 1,376,233**	**$ 111,121**	**108.1%**

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 23-24 Budget	$ Over / (Under) Budget	% of Budget
6900 · Optimum Basin Mgmt Plan				
6901.1 · OBMP - Document Review-WM Staff	$ 33,960	$ 89,136	$ (55,176)	38.1%
6901.3 · OBMP - Field Work-WM Staff	5,569	7,003	(1,434)	79.5%
6901.5 · OBMP - General-WM Staff	129,579	124,049	5,530	104.5%
6901.7 · OBMP - Meeting-WM Staff	36,597	57,589	(20,992)	63.5%
6901.8 · OBMP - Meeting-West Yost	64,202	45,096	19,106	142.4%
6901.9 · OBMP - Reporting-WM Staff	5,688	2,370	3,318	240.0%
6901.95 · OBMP - Reporting-West Yost	53,194	57,316	(4,123)	92.8%
Total 6901 · OBMP WM and West Yost Staff	**328,789**	**382,559**	**(53,770)**	**85.9%**
6903 · OBMP - SAWPA				
6903 · OBMP - SAWPA Group	24,071	24,071	0	100.0%
Total 6903 · OBMP - SAWPA	**24,071**	**24,071**	**0**	**100.0%**
6906 · OBMP Engineering Services				
6906.1 · OBMP - Watermaster Model Update	18,889	41,235	(22,346)	45.8%
6906.15 · Integrated Model Mtgs. - IEUA Costs	-	-	-	0.0%
6906.21 · State of the Basin Report	-	-	-	0.0%
6906.26 · 2020 OBMP Update	4,508	24,016	(19,508)	18.8%
6906.71 · OBMP - Data Requests - CBWM Staff	-	-	-	0.0%
6906.72 · OBMP - Data Requests - Non CBWM	-	-	-	0.0%
6906 · OBMP Engineering Services - Other	39,435	46,992	(7,557)	83.9%
Total 6906 · OBMP Engineering Services	**62,832**	**112,243**	**(49,410)**	**56.0%**
6907 · OBMP Legal Fees				
6907.31 · Archibald South Plume	-	12,085	(12,085)	0.0%
6907.32 · Chino Airport Plume	720	12,085	(11,365)	6.0%
6907.33 · Desalter/Hydraulic Control	1,358	37,200	(35,842)	3.7%
6907.34 · Santa Ana River Water Rights	3,272	20,595	(17,323)	15.9%
6907.36 · Santa Ana River Habitat	-	30,090	(30,090)	0.0%
6907.38 · Reg. Water Quality Cntrl Board	2,950	30,090	(27,140)	9.8%
6907.39 · Recharge Master Plan	68,708	30,495	38,213	225.3%
6907.40 · Storage Agreements	-	16,960	(16,960)	0.0%
6907.41 · Prado Basin Habitat Sustainability	3,218	9,900	(6,682)	32.5%
6907.44 · SGMA Compliance	104	9,900	(9,797)	1.0%
6907.45 · OBMP Update	196,206	172,880	23,326	113.5%
6907.47 · 2020 Safe Yield Reset	30,474	33,920	(3,446)	89.8%
6907.48 · Ely Basin Investigation	88,702	126,040	(37,338)	70.4%
6907.90 · WM Legal Counsel - Unanticipated	-	37,395	(37,395)	0.0%
Total 6907 · OBMP Legal Fees	**395,711**	**579,635**	**(183,924)**	**68.3%**
6908 · OBMP Updates				
6908.1 · 2020 OBMP Update-Dodson & Assoc.	76,629	107,578	(30,949)	71.2%
Total 6908 · OBMP Updates	**76,629**	**107,578**	**(30,949)**	**71.2%**
6909 · OBMP Other Expenses				
6909.1 · OBMP Meetings	-	1,500	(1,500)	0.0%
6909.3 · Other OBMP Expenses	3,258	2,724	534	119.6%
6909.6 · OBMP Expenses - Miscellaneous	-	5,000	(5,000)	0.0%
Total 6909 · OBMP Other Expenses	**3,258**	**9,224**	**(5,966)**	**35.3%**
Total 6900 · Optimum Basin Mgmt Plan	**$ 891,290**	**$ 1,215,309**	**$ (324,020)**	**73.3%**

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 23-24 Budget	$ Over / (Under) Budget	% of Budget
5901 · Admin-WM Staff				
5901.1 · Admin-Doc. Review-WM Staff	$ 34,132	$ 82,794	$ (48,662)	41.2%
5901.3 · Admin-Field Work-WM Staff	2,314	7,760	(5,446)	29.8%
5901.5 · Admin-General-WM Staff	54,207	60,129	(5,922)	90.2%
5901.7 · Admin-Meeting-WM Staff	16,230	2,633	13,597	616.4%
5901.8 · Admin-Meeting - West Yost	-	45,097	(45,097)	0.0%
5901.9 · Admin-Reporting-WM Staff	2,684	31,033	(28,349)	8.6%
Total 5901 · Admin-WM Staff	**109,567**	**229,446**	**(119,879)**	**47.8%**
5900 · Judgment Admin Other Expenses				
5906.71 · Admin-Data Req-CBWM Staff	46,107	126,204	(80,097)	36.5%
5906.72 · Admin-Data Req-Non CBWM Staff	12,712	42,832	(30,120)	29.7%
5910 · Court Coordination/Attend-WM	8,864	19,098	(10,235)	46.4%
5911 · Exhibit G-WM Staff	1,592	2,370	(778)	67.2%
5921 · Production Monitoring-WM Staff	3,062	11,322	(8,260)	27.0%
5925 · Ag Prod & Estimation-West Yost	22,928	34,376	(11,449)	66.7%
5931 · Recharge Applications-WM Staff	2,200	4,634	(2,434)	47.5%
5935 · Admin-Mat'l Phy Inj Requests	3,932	36,072	(32,140)	10.9%
5941 · Reporting-WM Staff	900	1,316	(416)	68.4%
5945 · WM Annual Report Prep-West Yost	11,671	15,416	(3,745)	75.7%
5951 · Rules & Regs-WM Staff	265	12,726	(12,461)	2.1%
5961 · Safe Yield-WM Staff	6,498	26,330	(19,832)	24.7%
5965 · Support Data Collect-West Yost	6,367	36,336	(29,969)	17.5%
5971 · Storage Agreements-WM Staff	4,652	4,739	(87)	98.2%
5981 · Water Acct/Database-WM Staff	113,668	109,793	3,875	103.5%
5991 · Water Transactions-WM Staff	5,906	8,688	(2,782)	68.0%
Total 5900 · Judgment Admin Other Expenses	**251,324**	**492,252**	**(240,928)**	**51.1%**
Total 5900 · Judgment Administration	**$ 360,891**	**$ 721,698**	**$ (360,807)**	**50.0%**

"Carry Over" Funding:

During the month of July 2023, the "Carry Over" funding was calculated. The Total "Carry Over" funding amount of $2,277,561.54 has been posted to the general ledger accounts. The total amount consisted of $870,226.24 from Engineering Services, $816,709.78 from Capital Improvement Projects, $464,627.66 from OBMP Activities, $111,461.18 from Pool Funding Accounts, and $14,536.68 from Administration Services. More detailed information is provided in the table below.

Carry Over Budget Detail - FY 23/24

Description		Amount	Account	Fiscal Year	Type
Other Office Equipment - Boardroom Upgrades	$	10,037.93	6038	FY 2020/21	ADMIN
Board Workshop Expenses - Misc.		4,498.75	6375.2	FY 2021/22	ADMIN
Meter Installation - New Meter Installation		175,400.00	7540	FY 2018/19	OBMP
Meter Installation - Calibration and Testing		181,650.00	7545	FY 2018/19	OBMP
2022 OBMP Update - Dodson & Asso.		107,577.66	6908.1	FY 2022/23	OBMP
Watermaster Model Update		34,206.75	5906.1	FY 2022/23	ENG
Groundwater Level Monitoring Program		2,700.00	7104.3	FY 2022/23	ENG
PE2 - Comprehensive Recharge - Eng. Services		27,943.64	7202.2	FY 2020/21	ENG
PE2 - Comprehensive Recharge - Eng. Services		18,441.85	7202.2	FY 2021/22	ENG
PE2 - Comprehensive Recharge - Eng. Services		72,788.26	7202.2	FY 2022/23	ENG
SB88-Specs-Ensure Compliance-50% IEUA		54,012.38	7208	FY 2020/21	ENG
OBMP - 2023 RMPU		60,000.00	7210	FY 2022/23	ENG
Integrated Model - Meetings - 50% IEUA Costs		24,617.63	7220	FY 2021/22	ENG
PBHSP - Monitoring, Data Analysis, Reporting		21,000.00	7302	FY 2022/23	ENG
OBMP - Engineering Services		65,208.75	7402	FY 2022/23	ENG
PE4 - Northwest MZ-1 Area Project		23,805.91	7402.1	FY 2021/22	ENG
PE4 - Northwest MZ-1 Area Project		126,194.09	7402.1	FY 2022/23	ENG
PE4/MZ-1: InSAR - Outside Pro		85,000.00	7403	FY 2022/23	ENG
Ground Level Monitoring - Capital Equipment		5,000.00	7408	FY 2022/23	ENG
PE6-7: Coop Efforts/Salt Management:		40,000.00	7502	FY 2022/23	ENG
Groundwater Quality Monitoring Program		16,194.00	7505	FY 2022/23	ENG
Hydraulic Control Mitigation Plan Update-50% IEUA		9,687.25	7508	FY 2021/22	ENG
Hydraulic Control Mitigation Plan Update-50% IEUA		1,016.00	7508	FY 2022/23	ENG
IEUA - Update Recycle Water Permit - Salinity		19,752.23	7510	FY 2021/22	ENG
PE8&9 - Support Imp. 2020 Storage Mgmt. Plan		42,657.50	7610	FY 2020/21	ENG
Support Implementation of the Safe Yield Court Order:		120,000.00	7614	FY 2022/23	ENG
Upper Santa Ana River HCP (TO #7)		15,062.88	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)		5,000.00	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)		238,646.90	7690.8	FY 2016/17	PROJ
Jurupa Basin Berm & Trash Boom		358,000.00	7690.23	FY 2022/23	PROJ
Funds on Hold for Projects/Refund		200,000.00	7690.9	FY 2017/18	PROJ
Agricultural Pool - Legal Services		41,675.63	8467	FY 2022/23	AP
Agricultural Pool - Mtg. Attendance Compensation		950.98	8470	FY 2022/23	OAP
Agricultural Pool - Special Project Funding		10,993.67	8471	FY 2021/22	OAP
Non-Agricultural Pool - Meeting Compensation		875.00	8511	FY 2022/23	ONAP
Non-Agricultural Pool - Legal Services		56,965.90	8567	FY 2022/23	ONAP
Balance at 7/31/23	**$**	**2,277,561.54**			

CHINO BASIN WATERMASTER

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

TODD M. CORBIN
General Manager

STAFF REPORT

DATE: August 22, 2024

TO: Board Members

SUBJECT: Application: Water Transaction – West Valley Water District to Niagara Bottling, LLC (Consent Calendar Item I.C.)

SUMMARY:

Issue: The Purchase of 2,000 acre-feet of water from West Valley Water District by Niagara Bottling, LLC. This purchase is made from West Valley Water District's Local Excess Carry Over Storage Account. [Within WM Duties and Powers]

Recommendation: Approve the proposed transaction.

Financial Impact: None.

Future Consideration
Watermaster Board – August 22, 2024: Approval.

ACTIONS:
Appropriative Pool – June 13, 2024: Unanimously recommended Advisory Committee to recommend Watermaster Board approval.
Non-Agricultural Pool – June 13, 2024: Unanimously recommended its representatives to support at Advisory Committee and Watermaster Board subject to changes they deem appropriate.
Agricultural Pool – June 13, 2024: Unanimously recommended Advisory Committee to recommend Watermaster Board approval.
Advisory Committee – August 15, 2024: Unanimously recommended Watermaster Board to approve.

BACKGROUND

On July 13, 2000, the Court approved the Peace Agreement, the Implementation Plan (OBMP), and the goals and objectives identified in the OBMP Phase I Report and ordered Watermaster to proceed in a manner consistent with the Peace Agreement. Under the Peace Agreement, Watermaster approval is required for applications to store, recapture, recharge, or transfer water, as well as for applications for credits or reimbursements, and storage and recovery programs.

Per Peace Agreement Section 5.3 (Transfers), Watermaster has the responsibility to ensure all water transfers are consistent with the Peace Agreement, OBMP and the law. Watermaster also must determine whether the transfer will cause "any Material Physical Injury to any party to the Judgment or the Basin." Provided all criteria are met, Watermaster must approve the transaction. Where the request for Watermaster approval is submitted by a Party to the Judgment, there is a rebuttable presumption that most of the transactions do not result in material physical injury to a Party to the Judgment or the Basin (Storage and Recovery Programs do not have this presumption).

The date of this application is May 6, 2024. Notice of the transaction along with the materials submitted by the requestors was transmitted to stakeholders electronically on June 7, 2024.

DISCUSSION

Beyond confirmation of the source of the water to be transferred (Supplemental Water or Excess Carryover), Watermaster will evaluate the eventual disposition of the transferred water (e.g., production, storage, etc.) at the end of the production year and account for the same consistent with the Watermaster Guidance Documents.

Water transactions occur each year and are included as production by the respective entity (if produced) in any relevant analysis conducted by West Yost pursuant to the Peace Agreement and the Rules & Regulations. There is no indication that additional analysis regarding this transaction is necessary at this time. As part of the OBMP Implementation Plan, measurement of groundwater levels and ground level changes are ongoing, and based on current data, we cannot conclude that the proposed water transaction will cause material physical injury to a Party to the Judgment, or to the Basin.

Pursuant to the Rules & Regulations, "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." While this transaction will not be presented to the Watermaster Board until August 2024 for approval since Watermaster was dark in July 2024, once approved, will count toward the current production year (2023/24).

At the Pool Committee meetings held on June 13, 2024, the Appropriative and Overlying (Agricultural) Pools unanimously recommended Advisory Committee to recommend to the Watermaster Board to approve the proposed transaction; the Overlying (Non-Agricultural) Pool unanimously recommended its representatives to support at Advisory Committee and Watermaster Board subject to changes they deem appropriate. On August 15, 2024, the proposed transaction was presented to the Advisory Committee for consideration. The Advisory Committee unanimously recommended Watermaster Board to approve the proposed transaction.

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

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

FISCAL YEAR 2023 - 2024

DATE REQUESTED: 5/6/2024 **AMOUNT REQUESTED:** 2,000 Acre-Feet

TRANSFER FROM (SELLER / TRANSFEROR):	**TRANSFER TO (BUYER / TRANSFEREE):**
West Valley Water District Name of Party	Niagara Bottling, LLC Name of Party
855 W Baseline Road Street Address	1440 Bridgegate Drive Street Address
Rialto / CA / 92376 City / State / Zip Code	Diamond Bar / CA / 91765 City / State / Zip Code
909-820-3707 Telephone	(909)230-5000 Telephone
909-875-1361 Facsimile	 Facsimile

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

PURPOSE OF TRANSFER:

- ☐ Pump when other sources of supply are curtailed
- ☐ Pump to meet current or future demand over and above production right
- ☐ Pump as necessary to stabilize future assessment amounts
- ☒ Other, explain Pump to meet current or future demand.

WATER IS TO BE TRANSFERRED FROM:

- ☐ Annual Production Right (Appropriative Pool) or Operating Safe Yield (Non-Agricultural Pool)
- ☐ Storage
- ☐ Annual Production Right / Operating Safe Yield first, then any additional from Storage
- ☒ Other, explain Storage - Excess carry over.

WATER IS TO BE TRANSFERRED TO:

- ☒ Annual Production Right / Operating Safe Yield (common)
- ☐ Storage (rare)
- ☐ Other, explain _____

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

IF WATER IS TO BE TRANSFERRED FROM STORAGE:

1650 AFY
Projected Rate of Recapture

January to December
Projected Duration of Recapture

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

Pumping

PLACE OF USE OF WATER TO BE RECAPTURED:

Ontario Facility

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

N/A

WATER QUALITY AND WATER LEVELS

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

If yes, please explain:

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

Static water levels varies from 419 feet to 502 feet below the ground surface.

MATERIAL PHYSICAL INJURY

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

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

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

SAID TRANSFER SHALL BE CONDITIONED UPON:

(1) Transferee shall exercise said right on behalf of Transferor under the terms of the Judgment, the Peace Agreement, the Peace II Agreement, and the Management Zone 1 Subsidence Management Plan for the period described above. The first water produced in any year shall be that produced pursuant to carry-over rights defined in the Judgment. After production of its carry-over rights, if any, the next (or first if no carry-over rights) water produced by Transferee from the Chino Basin shall be that produced hereunder.

(2) Transferee shall put all waters utilized pursuant to said Transfer to reasonable beneficial use.

(3) Transferee shall pay all Watermaster assessments on account of the water production hereby Transferred.

(4) Any Transferee not already a party must Intervene and become a party to the Judgment.

ADDITIONAL INFORMATION ATTACHED Yes ☐ No ☒

Joanne Chan
Seller / Transferor Representative Signature

Joanne Chan, Director of Operations
Seller / Transferor Representative Name (Printed)

GKamansky
Buyer / Transferee Representative Signature

Geoffrey Kamansky
Buyer / Transferee Representative Name (Printed)

TO BE COMPLETED BY WATERMASTER STAFF:

DATE OF WATERMASTER NOTICE: June 7, 2024

DATE OF APPROVAL FROM APPROPRIATIVE POOL: June 13, 2024

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: June 13, 2024

DATE OF APPROVAL FROM AGRICULTURAL POOL: June 13, 2024

HEARING DATE, IF ANY: N/A

DATE OF ADVISORY COMMITTEE APPROVAL: August 15, 2024

DATE OF BOARD APPROVAL: _____

CHINO BASIN WATERMASTER

NOTICE

OF

APPLICATION(S)

RECEIVED FOR

TRANSFER OF WATER

Date of Notice:

June 7, 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 TRANSFER OF WATER

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: **May 06, 2024** Date of this notice: **June 07, 2024**

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

- Notice of Sale or Transfer – The purchase of 2,000 acre-feet of water from West Valley Water District by Niagara Bottling, LLC. This purchase is made from West Valley Water District's Local Excess Carry Over Storage Account.

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

Appropriative Pool:	June 13, 2024
Non-Agricultural Pool:	June 13, 2024
Agricultural Pool:	June 13, 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
watertransactions@cbwm.org

CHINO BASIN WATERMASTER

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

TODD M. CORBIN
General Manager

STAFF REPORT

DATE: August 22, 2024

TO: Board Members

SUBJECT: Application: Water Transaction – Cucamonga Valley Water District to Fontana Water Company (Consent Calendar Item I.D.)

SUMMARY:

Issue: The Purchase of 7,500 acre-feet of water from Cucamonga Valley Water District by Fontana Water Company. This purchase is made from Cucamonga Valley Water District's Annual Production Right. [Within WM Duties and Powers]

Recommendation: Approve the proposed transaction.

Financial Impact: None.

Future Consideration
Watermaster Board – August 22, 2024: Approval.

ACTIONS:
Appropriative Pool – June 13, 2024: Unanimously recommended Advisory Committee to recommend Watermaster Board approval.
Non-Agricultural Pool – June 13, 2024: Unanimously recommended its representatives to support at Advisory Committee and Watermaster Board subject to changes they deem appropriate.
Agricultural Pool – June 13, 2024: Unanimously recommended Advisory Committee to recommend Watermaster Board approval.
Advisory Committee – August 15, 2024: Unanimously recommended Watermaster Board to approve.

BACKGROUND

On July 13, 2000, the Court approved the Peace Agreement, the Implementation Plan (OBMP), and the goals and objectives identified in the OBMP Phase I Report and ordered Watermaster to proceed in a manner consistent with the Peace Agreement. Under the Peace Agreement, Watermaster approval is required for applications to store, recapture, recharge, or transfer water, as well as for applications for credits or reimbursements, and storage and recovery programs.

Per Peace Agreement Section 5.3 (Transfers), Watermaster has the responsibility to ensure all water transfers are consistent with the Peace Agreement, OBMP and the law. Watermaster also must determine whether the transfer will cause "any Material Physical Injury to any party to the Judgment or the Basin." Provided all criteria are met, Watermaster must approve the transaction. Where the request for Watermaster approval is submitted by a Party to the Judgment, there is a rebuttable presumption that most of the transactions do not result in material physical injury to a Party to the Judgment or the Basin (Storage and Recovery Programs do not have this presumption).

The date of this application is May 15, 2024. Notice of the transaction along with the materials submitted by the requestors was transmitted to stakeholders electronically on June 7, 2024.

DISCUSSION

Beyond confirmation of the source of the water to be transferred (Supplemental Water or Excess Carryover), Watermaster will evaluate the eventual disposition of the transferred water (e.g., production, storage, etc.) at the end of the production year and account for the same consistent with the Watermaster Guidance Documents.

Water transactions occur each year and are included as production by the respective entity (if produced) in any relevant analysis conducted by West Yost pursuant to the Peace Agreement and the Rules & Regulations. There is no indication that additional analysis regarding this transaction is necessary at this time. As part of the OBMP Implementation Plan, measurement of groundwater levels and ground level changes are ongoing, and based on current data, we cannot conclude that the proposed water transaction will cause material physical injury to a Party to the Judgment, or to the Basin.

Pursuant to the Rules & Regulations, "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." While this transaction will not be presented to the Watermaster Board until August 2024 for approval since Watermaster was dark in July 2024, once approved, will count toward the current production year (2023/24).

At the Pool Committee meetings held on June 13, 2024, the Appropriative and Overlying (Agricultural) Pools unanimously recommended Advisory Committee to recommend to the Watermaster Board to approve the proposed transaction; the Overlying (Non-Agricultural) Pool unanimously recommended its representatives to support at Advisory Committee and Watermaster Board subject to changes they deem appropriate. On August 15, 2024, the proposed transaction was presented to the Advisory Committee for consideration. The Advisory Committee unanimously recommended Watermaster Board to approve the proposed transaction.

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

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

FISCAL YEAR 20 23 - 20 24

DATE REQUESTED: 5/15/24 **AMOUNT REQUESTED:** 7,500.00 Acre-Feet

TRANSFER FROM (SELLER / TRANSFEROR):	**TRANSFER TO (BUYER / TRANSFEREE):**
Cucamonga Valley Water District	Fontana Water Company
Name of Party	Name of Party
10440 Ashford Street	15966 Arrow Route
Street Address	Street Address
Rancho Cucamonga / CA. / 91730	Fontana / CA. / 92335
City / State / Zip Code	City / State / Zip Code
(909) 937-2591	(909) 822-2201
Telephone	Telephone
(909) 476-8032	(909) 823-5046
Facsimile	Facsimile

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

PURPOSE OF TRANSFER:

- ☐ Pump when other sources of supply are curtailed
- ☒ Pump to meet current or future demand over and above production right
- ☐ Pump as necessary to stabilize future assessment amounts
- ☐ Other, explain _____

WATER IS TO BE TRANSFERRED FROM:

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

WATER IS TO BE TRANSFERRED TO:

- ☒ Annual Production Right / Operating Safe Yield (common)
- ☐ Storage (rare)
- ☐ Other, explain _____

IS THE 85/15 RULE EXPECTED TO APPLY? (If yes, all answers below must be "yes.") Yes ☒ No ☐

Is the Buyer an 85/15 Party? Yes ☒ No ☐

Is the purpose of the transfer to meet a current demand over and above production right? Yes ☒ No ☐

Is the water being placed into the Buyer's Annual Account? Yes ☒ No ☐

IF WATER IS TO BE TRANSFERRED FROM STORAGE:

Varies	2023-2024
Projected Rate of Recapture	Projected Duration of Recapture

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

Pumping

PLACE OF USE OF WATER TO BE RECAPTURED:

Chino Basin Management Zone 3

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

N/A

WATER QUALITY AND WATER LEVELS

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

If yes, please explain:

In 2023/24, perchlorate and nitrate levels ranged as high as 6.3 ppb and 11.0 ppm respectively.

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

Static Water Levels ranging from 129 feet (bgs) to 661 feet (bgs) as of March 2024.

MATERIAL PHYSICAL INJURY

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

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

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

N/A

SAID TRANSFER SHALL BE CONDITIONED UPON:

(1) Transferee shall exercise said right on behalf of Transferor under the terms of the Judgment, the Peace Agreement, the Peace II Agreement, and the Management Zone 1 Subsidence Management Plan for the period described above. The first water produced in any year shall be that produced pursuant to carry-over rights defined in the Judgment. After production of its carry-over rights, if any, the next (or first if no carry-over rights) water produced by Transferee from the Chino Basin shall be that produced hereunder.

(2) Transferee shall put all waters utilized pursuant to said Transfer to reasonable beneficial use.

(3) Transferee shall pay all Watermaster assessments on account of the water production hereby Transferred.

(4) Any Transferee not already a party must Intervene and become a party to the Judgment.

ADDITIONAL INFORMATION ATTACHED Yes ☐ No ☒

Seller / Transferor Representative Signature

John Bosler, General Manager/CEO

Seller / Transferor Representative Name (Printed)

Buyer / Transferee Representative Signature

Martin Zvirbulis, Vice President - Water Resources

Buyer / Transferee Representative Name (Printed)

TO BE COMPLETED BY WATERMASTER STAFF:

DATE OF WATERMASTER NOTICE: June 7, 2024

DATE OF APPROVAL FROM APPROPRIATIVE POOL: June 13, 2024

DATE OF APPROVAL FROM NON-AGRICULTURAL POOL: June 13, 2024

DATE OF APPROVAL FROM AGRICULTURAL POOL: June 13, 2024

HEARING DATE, IF ANY: N/A

DATE OF ADVISORY COMMITTEE APPROVAL: August 15, 2024

DATE OF BOARD APPROVAL: _____

CHINO BASIN WATERMASTER

NOTICE

OF

APPLICATION(S)

RECEIVED FOR

TRANSFER OF WATER

Date of Notice:

June 7, 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 TRANSFER OF WATER

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: **May 15, 2024** Date of this notice: **June 07, 2024**

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

- Notice of Sale or Transfer – The purchase of 7,500 acre-feet of water from Cucamonga Valley Water District by Fontana Water Company. This purchase is made from Cucamonga Valley Water District's Annual Production Right.

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

Appropriative Pool:	June 13, 2024
Non-Agricultural Pool:	June 13, 2024
Agricultural Pool:	June 13, 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.

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Tel: (909) 484-3888
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CHINO BASIN WATERMASTER

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Tel: 909.484.3888 www.cbwm.org

TODD M. CORBIN
General Manager

STAFF REPORT

DATE: August 22, 2024

TO: Board Members

SUBJECT: Application: Water Transaction – Nicholson Family Trust to Fontana Water Company (Consent Calendar Item I.E.)

SUMMARY:

Issue: The Purchase of 3.5 acre-feet of water from Nicholson Family Trust by Fontana Water Company. This purchase is made from Nicholson Family Trust's Annual Production Right/Operating Safe Yield first, then any additional from Storage. [Within WM Duties and Powers]

Recommendation: Approve the proposed transaction.

Financial Impact: None.

Future Consideration
Watermaster Board – August 22, 2024: Approval.

ACTIONS:
Appropriative Pool – June 13, 2024: Unanimously recommended Advisory Committee to recommend Watermaster Board approval.
Non-Agricultural Pool – June 13, 2024: Unanimously recommended its representatives to support at Advisory Committee and Watermaster Board subject to changes they deem appropriate.
Agricultural Pool – June 13, 2024: Unanimously recommended Advisory Committee to recommend Watermaster Board approval.
Advisory Committee – August 15, 2024: Unanimously recommended Watermaster Board to approve.

BACKGROUND

On July 13, 2000, the Court approved the Peace Agreement, the Implementation Plan (OBMP), and the goals and objectives identified in the OBMP Phase I Report and ordered Watermaster to proceed in a manner consistent with the Peace Agreement. Under the Peace Agreement, Watermaster approval is required for applications to store, recapture, recharge, or transfer water, as well as for applications for credits or reimbursements, and storage and recovery programs.

Per Peace Agreement Section 5.3 (Transfers), Watermaster has the responsibility to ensure all water transfers are consistent with the Peace Agreement, OBMP and the law. Watermaster also must determine whether the transfer will cause "any Material Physical Injury to any party to the Judgment or the Basin." Provided all criteria are met, Watermaster must approve the transaction. Where the request for Watermaster approval is submitted by a Party to the Judgment, there is a rebuttable presumption that most of the transactions do not result in material physical injury to a Party to the Judgment or the Basin (Storage and Recovery Programs do not have this presumption).

The date of this application is May 27, 2024. Notice of the transaction along with the materials submitted by the requestors was transmitted to stakeholders electronically on June 7, 2024.

DISCUSSION

Beyond confirmation of the source of the water to be transferred (Supplemental Water or Excess Carryover), Watermaster will evaluate the eventual disposition of the transferred water (e.g., production, storage, etc.) at the end of the production year and account for the same consistent with the Watermaster Guidance Documents.

Water transactions occur each year and are included as production by the respective entity (if produced) in any relevant analysis conducted by West Yost pursuant to the Peace Agreement and the Rules & Regulations. There is no indication that additional analysis regarding this transaction is necessary at this time. As part of the OBMP Implementation Plan, measurement of groundwater levels and ground level changes are ongoing, and based on current data, we cannot conclude that the proposed water transaction will cause material physical injury to a Party to the Judgment, or to the Basin.

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ATTACHMENTS
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FORM 5: APPLICATION TO TRANSFER ANNUAL PRODUCTION RIGHT OR SAFE YIELD

FISCAL YEAR 20 23 - 20 24

DATE REQUESTED: May 27, 2024 **AMOUNT REQUESTED:** 3.5 Acre-Feet

TRANSFER FROM (SELLER / TRANSFEROR):	**TRANSFER TO (BUYER / TRANSFEREE):**
Robert Nicholson	Fontana Water Company
Name of Party	Name of Party
P.O. Box 6010	15966 Arrow Route
Street Address	Street Address
El Monte / CA. / 92734	Fontana / CA. / 92335
City / State / Zip Code	City / State / Zip Code
(626) 448-6183	(909) 822-2201
Telephone	Telephone
	(909) 823-5046
Facsimile	Facsimile

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

PURPOSE OF TRANSFER:

- ☐ Pump when other sources of supply are curtailed
- ☒ Pump to meet current or future demand over and above production right
- ☐ Pump as necessary to stabilize future assessment amounts
- ☐ Other, explain _____

WATER IS TO BE TRANSFERRED FROM:

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WATER IS TO BE TRANSFERRED TO:

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- ☐ Storage (rare)
- ☐ Other, explain _____

IS THE 85/15 RULE EXPECTED TO APPLY? (If yes, all answers below must be "yes.") Yes ☒ No ☐

Is the Buyer an 85/15 Party? Yes ☒ No ☐

Is the purpose of the transfer to meet a current demand over and above production right? Yes ☒ No ☐

Is the water being placed into the Buyer's Annual Account? Yes ☒ No ☐

IF WATER IS TO BE TRANSFERRED FROM STORAGE:

Varies	2023-2024
Projected Rate of Recapture	Projected Duration of Recapture

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

Pumping

PLACE OF USE OF WATER TO BE RECAPTURED:

Chino Basin Management Zone 3

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

N/A

WATER QUALITY AND WATER LEVELS

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

If yes, please explain:

In 2023/24, perchlorate and nitrate levels ranged as high as 6.3 ppb and 11 ppm respectively.

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

Static Water Levels ranging from 38 feet (bgs) to 686 feet (bgs) as of April 2024.

MATERIAL PHYSICAL INJURY

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

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

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N/A

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(3) Transferee shall pay all Watermaster assessments on account of the water production hereby Transferred.

(4) Any Transferee not already a party must Intervene and become a party to the Judgment.

ADDITIONAL INFORMATION ATTACHED Yes ☐ No ☒

Seller / Transferor Representative Signature

Robert Nicholson, Trustee

Seller / Transferor Representative Name (Printed)

Buyer / Transferee Representative Signature

Marty Zvirbulis, Vice President of Water Resources

Buyer / Transferee Representative Name (Printed)

TO BE COMPLETED BY WATERMASTER STAFF:

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DATE OF APPROVAL FROM AGRICULTURAL POOL: June 13, 2024

HEARING DATE, IF ANY: N/A

DATE OF ADVISORY COMMITTEE APPROVAL: August 15, 2024

DATE OF BOARD APPROVAL: _____

CHINO BASIN WATERMASTER

NOTICE

OF

APPLICATION(S)

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Date of Notice:

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Agricultural Pool:	June 13, 2024

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Tel: 909.484.3888 www.cbwm.org

TODD M. CORBIN
General Manager

STAFF REPORT

DATE: August 22, 2024

TO: Board Members

SUBJECT: 2022 Safe Yield Methodology (Business Item II.A.)

SUMMARY:

Issue: The 2022 Safe Yield Methodology Memo is attached as information to the parties [Within WM Duties and Powers] [Pages 17-18 of the 2017 Safe Yield Court Order, Section 6.5(f) of the 2022 R&R, and the 2022 Safe Yield Reset methodology]

Recommendation: Information Only

Financial Impact: None

Consideration
Appropriative Pool – August 8, 2024: Information Only
Non-Agricultural Pool – August 8, 2024: Information Only
Agricultural Pool – August 8, 2024: Information Only
Advisory Committee – August 15, 2024: Information Only
Watermaster Board – August 22, 2024: Information Only

BACKGROUND

On April 28, 2017, the Court issued an order to reset the Safe Yield of the Basin. The order also contained instructions as to how and when the Safe Yield should be recalculated in subsequent years. This court order set the methodology followed by the Watermaster to recalculate the Safe Yield in 2020.

After the 2020 Safe Yield Reset and a collaborative effort to evaluate the methodology, with advice from the Chino Basin parties, Watermaster moved to request a change to the methodology that the Court ordered in December of 2022.

DISCUSSION

Watermaster is bringing forward the Attachment A to the December 19, 2022 court order (Attachment 1), that details the methodology ordered by the Court to be followed for the Safe Yield Reset and the 2025 Safe Yield Reevaluation. This methodology has been communicated to parties by Watermaster consultant, West Yost, during the workshops conducted for the 2025 reevaluation of Safe Yield. There are many representatives from parties from all Pools who have participated in the workshops to date, but some of them may also not be a Pool member or Advisory Committee representative.

The purpose of this information item is to examine the language in the methodology and gain a general functional understanding of what efforts are being made to comply with its requirements. Since this is the first time this updated methodology is being implemented, it is important for all parties to understand how the requirements have been understood and translated into the technical work for the reevaluation of safe yield.

Safe Yield is the foundation of the Chino Basin Judgment and a key function of Watermaster's responsibilities to reevaluate it as directed. As new elements to the methodology have been added over time (long-term hydrology, changing cultural conditions, assumptions for production and recharge patterns and now uncertainty analysis), it is important for Watermaster to communicate clearly what rules are being followed and how they are being implemented. There has been a great deal of work and collaboration which has already taken place in meetings and workshops. This effort is to make sure all parties understand where we are in the process and provide an opportunity to discuss those areas where questions remain.

The item was presented to the three Pool Committees for information and feedback only. This item was also presented to the Advisory Committee as an information item only.

ATTACHMENT
1. Reset Technical Memorandum

WEST YOST
Water. Engineered.

23692 Birtcher Drive
Lake Forest CA 92630

949.420.3030 phone
530.756.5991 fax
westyost.com

RESET TECHNICAL MEMORANDUM

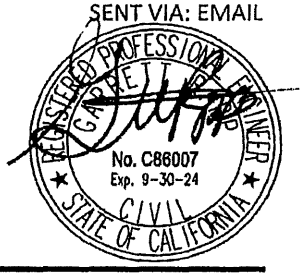
DATE: October 6, 2022

Project No.: 941-80-22-32
SENT VIA: EMAIL

TO: Peter Kavounas, Chino Basin Watermaster

FROM: Garrett Rapp, PE, RCE #86007
Andy Malone, PG

SUBJECT: 2022 Methodology to Reset the Safe Yield of the Chino Basin



2022 UPDATED SAFE YIELD RESET METHODOLOGY

This technical memorandum summarizes the methodology[1] to calculate the Safe Yield of the Chino Basin for the 2025 Safe Yield Reevaluation and subsequent Safe Yield evaluations. The methodology: (i) is consistent with professional custom, standard, and practice; (ii) incorporates current best management practices and hydrologic science; and (iii) is consistent with the definition of Safe Yield in the Judgment and the Physical Solution.

1. Use data collected since the implementation of the OBMP to re-calibrate the Watermaster's groundwater-flow model. The re-calibration period should be long enough to include wet and dry periods relative to the long-term historical precipitation record.
2. Conduct an uncertainty analysis of the re-calibrated groundwater-flow model to identify a plausible range of calibrated models.
3. Describe current and projected future cultural conditions, including but not limited to land use and water-management practices, such as: pumping, managed recharge, managed groundwater storage, impervious land cover, water recycling, and water conservation practices. Identify a possible range of projected future cultural conditions.
4. Using the most current research on future climate and hydrology, identify a possible range of projected future climatic conditions in the Santa Ana River watershed.
5. Using the results of [3.] and [4.] above, prepare an ensemble of multiple projection scenarios of combinations of future climate/hydrology and cultural conditions (herein called the "Projection Ensemble"). Assign likelihoods to each scenario in the Projection Ensemble.
6. Simulate the range for the potential future water budget and groundwater conditions in the Chino Basin over no less than a 50-year future period. This is accomplished by using:
    i. The range of calibrated models developed in [2.], and
    ii. The Projection Ensemble developed in [5.] as model input data.

[1] A detailed description of the methodology summarized here can be found in the technical memorandum titled "2022 Update of the Chino Basin Safe Yield Reset Methodology," dated October 6, 2022.

7. Using the results of [6.] above, characterize the range in the model results for:
    i. Groundwater conditions, including: groundwater elevations, groundwater in storage, and groundwater flow directions, and
    ii. The water budget, including: basin inflows, outflows, change in storage, and net recharge.
8. Using the set of net recharge results from [7.ii], determine a tentative Safe Yield as the likelihood-weighted average net recharge over the 10-year prospective period for which the Safe Yield is being redetermined (Tentative Safe Yield).
9. Evaluate whether the groundwater production at the Tentative Safe Yield estimated in [8] above will cause or threaten to cause "undesirable results" or "Material Physical Injury." If groundwater production at Tentative Safe Yield will cause or threaten to cause "undesirable results" or "Material Physical Injury," then Watermaster will identify and implement prudent measures necessary to mitigate "undesirable results" or "Material Physical Injury," set the value of Safe Yield to ensure there is no "undesirable results" or "Material Physical Injury," or implement a combination of mitigation measures and a changed Safe Yield.

Table 1. Chino Basin Watermaster Engineering Cost Estimate and Project Timeline for FY 2024/25

Account(s)	Task	West Yost Project Manager	Need Supplemental Notice to Proceed? (Y/N)	Total Engineering Cost Estimate	Initial Authorization Amount	Project Timeline[a]											
						Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
8306, 8506, 8406, 6206, 6306	Pool, Advisory, Watermaster Meetings	Andy M.	N	$117,551	$117,551												
6901.8, 5901.8	Other General Meetings as Requested	Andy M.	N	$74,132	$74,132												
5935	Material Physical Injury Requests	Carolina S.	N	$39,452	$39,452												
5906.71	Miscellaneous Data Requests - GM/Watermaster Staff	Veva W.	N	$101,048	$101,048												
5906.72	Miscellaneous Data Requests - Non CBWM Staff/RFI	Veva W.	N	$37,008	$37,008												
6901.95	Annual Streamflow Monitoring Report - Water Rights Permit 21225	Carolina S.	N	$22,416	$22,416												
6901.95	SGMA Reporting Requirement for WC Section 10720.8 (f)	Veva W.	N	$21,926	$21,926												
6906	Project Management	Veva W.	N	$51,440	$51,440												
6906.1	Watermaster Model Application and Required Demonstrations	Garrett R.	N	$67,596	$67,596												
6901.95	Compliance with SWRCB Regulations Regarding Measurement and Reporting Diversion of Water	Carolina S.	Y	$18,264	$18,264												
5945	Assist Watermaster in Preparing the 47th Annual Report	Veva W.	N	$16,924	$16,924												
6906.21	2024 State of the Basin Report	Veva W.	Y	$195,188	$100,000												
7502, 7505	Groundwater and Surface Water Quality Monitoring	Lucy H.	N	$310,968	$100,000												
7104.3, 7104.8, 7104.9	Groundwater Level Monitoring Program	Veva W.	N	$297,801	$297,801												
7402, 7403, 7406, 7408	MZ-1 Ground-Level Monitoring Program	Andy M.	N	$231,971	$100,000												
7302, 7306	Prado Basin Habitat Monitoring, Data Analysis and Reporting – 50% IEUA Cost Share	Veva W.	Y	$159,610	$159,610												
7202	RWGRP: Review Documents for Chino Basin Recycled Water GW Recharge Program	Veva W.	N	$23,496	$23,496												
5925	Agriculture Production Estimation	Garrett R.	N	$31,096	$31,096												
5965	Support for Implementation of Improved Data Collection and Development of Data Visualization	Sodavy O.	Y	$39,659	$39,659												
7202.2	PE2: Comprehensive Recharge Program General Engineering Services	Carolina S.	N	$175,944	$100,000												
7303	PE3-5: Engineering Support for Desalters	Veva W.	N	$16,180	$16,180												
7402	PE4/MZ-1: Data Analyses, Reports, Meetings, and Administration	Andy M.	N	$145,021	$100,000												

Table 1. Chino Basin Watermaster Engineering Cost Estimate and Project Timeline for FY 2024/25

Account(s)	Task	West Yost Project Manager	Need Supplemental Notice to Proceed? (Y/N)	Total Engineering Cost Estimate	Initial Authorization Amount	Project Timeline[a]											
						Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
7402.1	MZ-1: Develop a Subsidence Management Plan for Northwest MZ-1	Andy M.	N	$16,656	$16,656												
7502[b]	PE6: Analysis of Chino Basin Contaminant Plumes	Lucy H.	N	$50,164	$50,164												
7502[b]	PE7: Maximum Benefit Annual Report	Sodavy O.	N	$41,356	$41,356												
7502[b]	PE7: Prepare Updated Groundwater and Surface Water Monitoring Work Plan	Sodavy O.	N	$41,420	$41,420												
7502[b]	As needed support for implementation of PE 6/7	Sodavy O.	N	$15,642	$15,642												
7510	Update IEUA's Recycled Water Permits/Max Ben Salinity Management Plan for the Chino Basin - IEUA Cost Share	Samantha A.	N	$21,060	$21,060												
7511	As req services to support CBWM in collaboration with the SAWPA BMPTF	Sodavy O.	N	$27,067	$27,067												
7517	Implementation of Chino Creek Monitoring Program - IEUA Cost Share	Sodavy O.	N	$67,149	$67,149												
7520	Water Quality Management Program	Veva W.	Y	$130,164	$130,164												
7610	Develop Storage and Recovery Master Plan	Garrett R.	Y	$57,584	$57,584												
7614	Support Implementation of the Safe Yield Court Order	Garrett R.	N	$768,963	$500,000												
7615	Develop 2025 Storage Management Plan	Garrett R.	Y	$42,632	$42,632												

[a] Highlighted month indicates when project is expected to be active.
Timeline for projects with defined milestones and schedules
Timeline for projects that are as-needed services

[b] The four tasks listed for 7502 were rolled up into one category in the Budget for a total fee of $148,582. The tasks are split up here to more clearly communicate the schedules for each task.

CHINO BASIN WATERMASTER

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

TODD M. CORBIN
General Manager

STAFF REPORT

DATE: August 22, 2024

TO: Board Members

SUBJECT: Annual Data Collection and Evaluation Report [2017 Safe Yield Court Order, Section 4.5] (Business Item II.D.)

SUMMARY:

Issue: To consider the information in the Data Collection and Evaluation Report (attached) and determine its compliance with the 2017 Court Order requirements. [Within WM Duties and Powers]

Recommendation: Receive and file the report as presented.

Financial Impact: The annual Data Collection and Evaluation was included in the budget for FY 2023/24 for $112,407.

Consideration
Appropriative Pool – August 8, 2024: Information Only
Non-Agricultural Pool – August 8, 2024: Information Only
Agricultural Pool – August 8, 2024: Information Only
Advisory Committee – August 15, 2024: Information Only
Watermaster Board – August 22, 2024: Receive and file

BACKGROUND

Section/Paragraph 4 of the Order detail the requirements of Watermaster to follow in subsequent years relating to the reevaluation and reset of Safe Yield. A summary of the elements of the Order are summarized below. The focus of this reporting effort relates to Paragraph 4.5 and 4.7.

Paragraph 4.1
Set Safe Yield at 135,000 acre-feet per year for period July 1, 2011 to June 30, 2020.

Paragraph 4.2
Initiate process no later than January 1, 2019 to reset Safe Yield for period July 1, 2020 to June 30, 2030.

Paragraph 4.3
Interim Correction - Safe Yield may be reset, with the recommendation and advice of the Pools and Advisory Committee, and in exercise of prudent management discretion described in Paragraph 4.5(c). Safe Yield must be changed if found to be by amount greater (more or less) than 2.5% of then-effective Safe Yield.

Paragraph 4.4
Safe Yield methodology is pursuant to the methodology in the Reset Technical Memorandum

Paragraph 4.5
Annual Data Collection and Evaluation. In support of its obligations to
undertake the reset in accordance with the Reset Technical Memorandum and this order, Watermaster shall annually undertake the following actions:

a Ensure that, unless a Party to the Judgment is excluded from reporting all production by all Parties to the Judgment is metered, reported, and reflected in Watermaster's approved Assessment Packages;
b Collect data concerning cultural conditions annually with cultural conditions including, but not limited to, land use, water use practices, production, and facilities for the production, generation, storage, recharge, treatment, of transmission of water;
c Evaluate the potential need for prudent management discretion to avoid or mitigate undesirable results including, but not limited to, subsidence, water quality degradation, and unreasonable pump lifts. Where the evaluation of available data suggests that there has been or will be a material change from existing and projected conditions or threatened undesirable results, then a more significant evaluation, including modeling, as described in the Reset Technical Memorandum, will be undertaken; and,
d As part of its regular budgeting process, develop a budget for the annual data collection, data evaluation, and any scheduled modeling efforts, including the methodology for the allocation of expenses among the Parties to the Judgment.

Such budget development shall be consistent with section 5.4(a) of the Peace Agreement

Paragraph 4.6
Modeling - Watermaster shall update Basin Model consistent with Reset Technical Memorandum and evaluate Safe Yield to be completed by June 30, 2025.

Paragraph 4.7
Conduct peer review for collection and application of data at least annually.

Paragraph 4.8
No changes in accounting or Assessment Packages for production years prior to July 1, 2014 as a result of the Order.

DISCUSSION:

West Yost has completed the annual collection and evaluation of data as required in the 2017 Court Order covering the period through FY 2022/23. The full report is attached along with responses to written questions and comments from parties.

The draft report was released on May 29th, 2024. West Yost presented the findings of the draft report at the June Pools and Board meetings and solicited comments through July 8th, 2024. The report was presented to the Pools in August as part of the Engineer's Report and to the Advisory Committee as an Information Item. Robust discussions occurred during the August Pools and Advisory Committee regarding the report's findings.

The primary findings and recommendations in the report are as follows:

1. Projected pumping in Management Zone 1 (MZ-1) is greater than what was projected in the 2020 Safe Yield Recalculation (SYR). Based on these findings and recent work completed via the Ground-Level Monitoring Program, the current pumping projections suggest that there is an increased risk of new land subsidence that was not indicated in the 2020 SYR. The recommendation to address this is for Watermaster and the parties to complete and implement a subsidence management plan for MZ-1. This process is already underway as part of Watermaster's Ground-Level Monitoring Program. The continued development of a subsidence management plan should include a more precise evaluation of the potential impacts of future pumping and recharge to inform groundwater management strategies that would allow continued pumping from MZ-1 without increasing the risk of land subsidence.

2. Historical and projected urban outdoor water use over the evaluation period (Fiscal Year 2019 through 2030) is less than what was simulated in the 2020 SYR. Based on these findings, there is a reasonable likelihood that the cumulative impact of these differences would result in the actual Safe Yield being less than the current Safe Yield by more than 2.5 percent, suggesting the possibility for a material change from existing and projected conditions. The recommendation to address this is to complete the 2025 Safe Yield Reevaluation, which is currently underway. The 2025 Safe Yield Reevaluation will allow Watermaster to quantify the impacts of the current and projected cultural conditions on the Safe Yield to aid in determining whether the Safe Yield should be changed.

Staff supports the recommendation to receive and file the report. It is important for the Board to note the questions that remain from some parties relating to forecast of certain cultural conditions especially future residential applied water and if hydrology should be updated as an element of this annual effort. These issues will continue to be a part of future discussions of this annual requirement. Since the Safe Yield reevaluation is in progress and due in 2025, all of these issues and elements will be factored into the more detailed analysis supporting the reevaluation of Safe Yield.

ATTACHMENTS:

1. FY 2022/23 Data Collection and Evaluation Report

Data Collection and Evaluation Report for Fiscal Year 2022/2023

PREPARED FOR

Chino Basin Watermaster

PREPARED BY

WEST YOST
Water. Engineered.

Data Collection and Evaluation Report for Fiscal Year 2022/2023

Prepared for

Chino Basin Watermaster

Project No. 941-80-23-33

August 9, 2024

Project Manager: Garrett Rapp, PE

August 9, 2024

QA/QC Review: Andy Malone, PG

Table of Contents

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

LIST OF ACRONYMS AND ABBREVIATIONS

2020 SYR Projection	2020 Safe Yield Recalculation
2020 SYR Report	*2020 Safe Yield Recalculation Report*
2023 RMPU	2023 Recharge Master Plan Update
af	Acre-Feet
afy	Acre-Feet Per Year
Arrowhead	Arrowhead Mountain Spring Water Company
ASR	Aquifer Storage and Recovery
CBWCD	Chino Basin Water Conservation District
CC	Carbon Canyon
CDA	Chino Desalter Authority
Chino	City of Chino
Chino Hills	City of Chino Hills
CVM	Chino Valley Model
CVWD	Cucamonga Valley Water District
DIPAW	Deep infiltration of precipitation and applied water
DWR	California Department of Water Resources
DYYP	Dry-Year Yield Program
ET	Evapotranspiration
FWC	Fontana Water Company
FY	Fiscal Year
GSWC	Golden State Water Company
IEUA	Inland Empire Utilities Agency
JCSD	Jurupa Community Services District
MS4	Municipal Separate Storm Sewer System
MVWD	Monte Vista Water District
MZ	Management Zone
Niagara	Niagara Bottling, LLC
Norco	City of Norco
OBMP	Optimum Basin Management Program
Ontario	City of Ontario
OWDS	On-Site Waste Disposal System
Pomona	City of Pomona
SARWC	Santa Ana River Water Company
SAWCo	San Antonio Water Company
SGMA	Sustainable Groundwater Management Act
State Board	State Water Resources Control Board
SYR	Safe Yield Recalculation
Upland	City of Upland
WSP	Water Supply Plans
WVWD	West Valley Water District

CHAPTER 1
Background and Objectives

This third annual report on *Data Collection and Evaluation – Fiscal Year 2022/2023* describes and documents the required data collection and evaluation pursuant to the April 28, 2017 Court Order on the Safe Yield of the Chino Basin (2017 Court Order).[1] This chapter describes background information on the Court requirements to prepare this annual report, the scope of work of this effort, the report objectives, and the organization of this report.

1.1 2017 COURT ORDER REQUIREMENTS

The 2017 Court Order that set the Safe Yield at 135,000 acre-feet per year (afy) for the period fiscal year (FY) 2011 through 2020[2] also included requirements to guide future model updates and Safe Yield recalculations (SYR) and resets. These requirements, which were later affirmed by the Court in March 2019,[3] are listed below verbatim from pages 15 through 17 of the 2017 Court Order:

- 4.3 – *Interim Correction*. In addition to the scheduled reset [of the Safe Yield effective July 1, 2020 that will continue until June 30, 2030], the Safe Yield may be reset in the event that, with the recommendation and advice of the Pools and Advisory Committee and in the exercise of prudent management discretion described in Paragraph 4.5(c), below, Watermaster recommends to the court that the Safe Yield must be changed by an amount greater (more or less) than 2.5 percent of the then-effective Safe Yield.
- 4.4 – *Safe Yield Reset Methodology*. The Safe Yield has been reset effective July 1, 2010, and shall be subsequently evaluated pursuant to the methodology set forth in the Reset Technical Memorandum [(WEI, 2015)[4]]. The reset will rely upon long-term hydrology and will include data from 1921 to the date of the reset evaluation. The long-term hydrology will be continuously expanded to account for new data from each year, through July 2030, as it becomes available. This methodology will thereby account for short-term climatic variations, wet and dry. Based on the best information practicably available to the Watermaster, the Reset Technical Memorandum sets forth a prudent and reasonable professional methodology to evaluate the then prevailing Safe Yield in a manner consistent with the Judgement, the Peace Agreements, and the OBMP Implementation Plan. In furtherance of the goal of maximizing the beneficial use of the waters of the Chino Basin, Watermaster, with the recommendation and advice of the Pools and Advisory Committee, may supplement the Reset Technical Memorandum's methodology to incorporate future advances in best management practices and hydrologic science as they evolve over the term of this order.

[1] *Orders for Watermaster's Motion Regarding the 2015 Safe Yield Reset Agreement, Amendment of Restated Judgment, Paragraph 6*, Superior Court for the County of San Bernardino (2017).

[2] On July 10, 2020, the Court updated the Safe Yield to 131,000 afy for the period FY 2021 to 2030. *Order re Chino Basin Watermaster Motion Regarding 2020 Safe Yield Reset, Amendment of Restated Judgment, Paragraph 6*, Superior Court for the County of San Bernardino (2020).

[3] *Order Regarding the Appeal Parties Motion*, Superior Court for the County of San Bernardino (2019).

[4] WEI. (2015*). Methodology to Reset Safe Yield Using Long-Term Average Hydrology and Current and Projected Future Cultural Conditions.* Prepared for the Chino Basin Watermaster, August 2015.

- 4.5 – *Annual Data Collection and Evaluation*. In support of its obligations to undertake the reset in accordance with the Reset Technical Memorandum and this order, Watermaster shall annually undertake the following actions:

  (a) Ensure that, unless a Party to the Judgment is excluded from reporting, all production by all Parties to the Judgment is metered, reported, and reflected in Watermaster's approved Assessment Packages;

  (b) Collect data concerning cultural conditions annually with cultural conditions including, but not limited to, land use, water use practices, production, and facilities for the production, generation, storage, recharge, treatment, or transmission of water;

  (c) Evaluate the potential need for prudent management discretion to avoid or mitigate undesirable results including, but not limited to, subsidence, water quality degradation, and unreasonable pump lifts. Where the evaluation of available data suggests that there has been or will be a material change from existing and projected conditions or threatened undesirable results, then a more significant evaluation, including modeling, as described in the Reset Technical Memorandum, will be undertaken; and,

  (d) As part of its regular budgeting process, develop a budget for the annual data collection, data evaluation, and any scheduled modeling efforts, including the methodology for the allocation of expenses among the Parties to the Judgment. Such budget development shall be consistent with section 5.4(a) of the Peace Agreement.

- 4.6 – *Modeling.* Watermaster shall cause the Basin Model to be updated and a model evaluation of Safe Yield, in a manner consistent with the Reset Technical Memorandum, to be initiated no later than January 1, 2024, in order to ensure that the same may be completed by June 30, 2025.

- 4.7 – *Peer Review.* The Pools shall be provided with reasonable opportunity, no less frequently than annually, for peer review of the collection of data and the application of data collected in regard to the activities described in Paragraphs 4.4, 4.5, and 4.6 above.

This report addresses the requirements in "4.5 – *Annual Data Collection and Evaluation*" for the period FY 2019 through 2030.

1.2 SCOPE OF THE ANNUAL DATA COLLECTION AND EVALUATION

The scope of work for the annual data collection and evaluation for FY 2024 is the following:

- **Data collection.** Watermaster will collect the following datasets pursuant to pages 16 and 17 of the 2017 Court Order:
  - Groundwater pumping
  - Water supply plans (from major Appropriative Pool parties)
  - Land use
  - Data to estimate indoor and outdoor urban water use
  - Managed groundwater recharge
  - Information on regional water infrastructure (from major Appropriative Pool parties)

For each of these datasets, Watermaster will collect historical data since the last recalculation of the Safe Yield (2019-23 Actual Data) and the necessary information to prepare an updated projection of these datasets for the remaining period of the then-current Safe Yield (2024 Projection). The 2024 Projection spans the period FY 2024-2030.

- **Data evaluation.** Watermaster will compare the 2019-23 Actual Data and the 2024 Projection to the data and assumptions that were used in the projection scenario for the 2020 Safe Yield Recalculation (2020 SYR Projection), which was documented in the *2020 Safe Yield Recalculation Report* (2020 SYR Report).[5] Specifically, the comparison includes:
  - 2020 SYR Projection for FY 2019-2023 versus 2019-23 Actual Data
  - 2020 SYR Projection versus 2024 Projection (FY 2024-2030)

  These comparisons are meant to answer the two questions posed by the 2017 Court Order:

  1) *Is there a potential for undesirable results that were not identified in the 2020 SYR?* Specifically, is there a **"**potential need for prudent management discretion to avoid or mitigate undesirable results including, but not limited to, subsidence, water quality degradation, and unreasonable pump lifts"? (2017 Court Order, p. 17)
  2) *Is there a reasonable likelihood that the cumulative impact of the differences between the new datasets/projections (i.e., the 2019-23 Actual Data and the 2024 Projection) and the data and assumptions in the 2020 SYR would result in the actual Safe Yield being greater than 2.5 percent (more or less) than the current Safe Yield?* (2017 Court Order, p. 15-16). This question is evaluated over the period of the current Safe Yield, which is FY 2021-30.

  Answers to these questions are qualitative and based on professional judgement, an understanding of the Chino Basin, and prior modeling investigations. An affirmative answer to either of the above questions "suggests that there has been or will be a material change from existing and projected conditions or threatened undesirable results," which would necessitate "a more significant evaluation." (2017 Court Order, p. 17). In this case, Watermaster will describe the scope of work and cost estimates of any further evaluations required.
- **Reporting.** Watermaster will prepare an annual report to document the data collection and evaluation process and will include recommendations for improvements to subsequent annual data collection and evaluation efforts.
- **Peer review.** Watermaster will provide the parties opportunity for review and comment on the collected data, the evaluations of the data, and the draft report, and will respond to written comments from the parties in an appendix to the final report.

1.2.1 Nexus to 2025 Safe Yield Reevaluation and Change in Scope

If "more significant evaluation, including modeling, as described in the Reset Technical Memorandum" than this annual data collection process is required, such analysis could not practicably occur prior to the 2025 Safe Yield Reevaluation (2025 SYR), scheduled for completion by June 30, 2025, pursuant to the 2017 Court Order. The 2025 SYR involves updating the CVM to include more recent historical data, recalibrating the CVM through FY 2022, completing an uncertainty analysis, and simulating multiple projection

[5] WEI. *2020 Safe Yield Recalculation*. Prepared for the Chino Basin Watermaster. May 2020.

scenarios based on current planning data, some of which is documented in this report. The 2025 SYR constitutes the "more significant evaluation, including modeling, as described in the Reset Technical Memorandum" described in the 2017 Court Order. Therefore, more detailed analysis and documentation of the annual data collection and evaluation (e.g., land use, regional water infrastructure) will be part of the report that will be developed documenting the 2025 SYR, which is expected to be published in spring 2025. The budget for this work is outlined in the Watermaster Engineering budget for FY 2024/25.

1.3 REPORT OBJECTIVES AND ORGANIZATION

The objectives of this report are to document the data collection and evaluation for the period through FY 2022/23 and document the associated peer review. For this report, the peer review consisted of a draft report presentation, soliciting comments over the period from May 29, 2024 to July 8, 2024, and responding to the comments. The remaining sections of the FY 2022/23 report are organized as follows:

Chapter 2 – Groundwater Pumping. Chapter 2 describes the collection and evaluation of data characterizing the groundwater pumping patterns and water supply plans in the Chino Basin.

Chapter 3 – Urban Outdoor Water Use. Chapter 3 describes the collection and evaluation of data characterizing the urban outdoor water use practices in the Chino Basin.

Chapter 4 – Managed Groundwater Recharge. Chapter 4 describes the collection and evaluation of data characterizing managed groundwater recharge in the Chino Basin, including data and projections for the recharge of stormwater, imported water, and recycled water.

Chapters 2 through 4 describe:

- A summary of the data type.
- Use of the data in the Chino Valley Model (CVM).
- A description of the data that were collected for this report and the assumptions for the development of the 2020 SYR Projection and the 2024 Projection.
- A comparison of the 2020 SYR Projection versus the 2019-23 Actual Data.
- A comparison of the 2020 SYR Projection versus an updated 2024 Projection for FY 2024-30.
- An evaluation of these comparisons to identify (i) the potential for undesirable results or (ii) the potential for a significant difference in the current expectations for net recharge during FY 2021-30 compared to the current Safe Yield for FY 2021-30.

Chapter 5 – Conclusions and Recommendations. Chapter 5 describes the cumulative assessment of all the data evaluated in this report, including the evaluation of Managed Storage, and the main conclusions and recommendations derived from these evaluations.

Appendix A – Metering and Reporting of Groundwater Pumping for FY 2023. Appendix A describes the wells in the Chino Basin for FY 2023, including descriptions of wells that were added or went out of service in the reporting year and information on wells that are not metered.

Appendix B – Responses to Party Comments. Appendix B documents the written comments received from the parties and responses.

CHAPTER 2
Groundwater Pumping

Chapter 2 documents the collection and evaluation of data and information on groundwater pumping in the Chino Basin.

2.1 SUMMARY AND APPLICATION TO MODEL

Groundwater pumping is the largest discharge component of the Chino Basin water budget, comprising roughly 83 percent of the total discharge from the Chino Basin from FY 1978 through 2018. The magnitude and location of groundwater pumping can affect groundwater levels, groundwater-flow directions, and the groundwater/surface-water interactions between the Chino Basin and the Santa Ana River and Prado Basin.

Groundwater pumping data is input into the 2020 CVM through the Well Package (McDonald et al., 1988)[1] of the groundwater model code, MODFLOW-NWT. The Well Package is used to simulate the withdrawal of groundwater from aquifers using a constant flow rate for each monthly stress period of the 2020 CVM.

Historical groundwater pumping data is one of several datasets used to calibrate the 2020 CVM. The 2020 CVM is calibrated over the period of July 1, 1977 through June 30, 2018 by adjusting model parameters to produce the best match between simulated and observed system responses, including the historical time series of surface water discharge in Prado Basin and groundwater levels at wells.[2]

Projections of future groundwater pumping are used to develop the model projection scenarios that are then simulated with the CVM to estimate the future water budget of the Chino Basin, including net recharge.

2.2 COLLECTION OF DATA AND INFORMATION

This section describes how the data and information for groundwater pumping were collected and compiled for this report.

2.2.1 2019-23 Actual Data

2019-23 Actual groundwater pumping data were developed from Watermaster's database of quarterly groundwater pumping data records and estimates. All members of the Appropriative and Overlying Non-Agricultural Pools, including the Chino Basin Desalter Authority (CDA), meter, record, and report pumping from their own wells. Wells owned by members of the Overlying Agricultural Pool are required to be metered if their pumping is greater than 10 afy (i.e., non-Minimal Producers), although metering is not feasible at all wells. Watermaster applies a water duty method to estimate the pumping for wells that are not metered.

[1] McDonald, Michael G. and Harbaugh, Arlen W. 1988. MODFLOW, *A modular three-dimensional finite difference ground-water flow model*. Reston, Virginia: U. S. Geological Survey, 1988.

[2] More information on the calibration process of the 2020 CVM can be found in Section 6 of the 2020 SYR Report. An updated CVM (the 2025 CVM) is being completed as part of the 2025 Safe Yield Reevaluation and is calibrated over the period of July 1, 1991 through June 30, 2022.

2.2.2 2020 SYR Projection

As part of the development of the Storage Framework Investigation in 2017, Watermaster submitted a comprehensive data request to each Appropriative Pool party and some of the larger Overlying Non-Agricultural Pool pumpers, including:

- Arrowhead Mountain Spring Water Company (Arrowhead)
- City of Chino (Chino)
- City of Chino Hills (Chino Hills)
- City of Norco (Norco)
- City of Ontario (Ontario)
- City of Pomona (Pomona)
- City of Upland (Upland)
- Cucamonga Valley Water District (CVWD)
- Fontana Water Company (FWC)
- Golden State Water Company (GSWC)
- Jurupa Community Services District (JCSD)
- Marygold Mutual Water Company
- Monte Vista Irrigation Company
- Monte Vista Water District (MVWD)
- Niagara Bottling, LLC (Niagara)
- Santa Ana River Water Company (SARWC)
- San Antonio Water Company (SAWCo)
- San Bernardino County – Olympic Shooting Park
- West Valley Water District (WVWD)

The data request included future water supply plans, which represented the parties' best estimates of monthly demands and associated water supplies for the planning period of FY 2019 through 2050, including projections of groundwater pumping. In 2019, Watermaster asked the Parties to provide updates to their projections in preparation of the 2020 SYR Projection. Three Parties (Chino Hills, Pomona, and MVWD) updated their pumping projections. The data request also included a request for an updated list of active wells, well capacities, and the priority use for each well. This information was combined with the monthly water supply plans to distribute annual projected groundwater pumping to monthly projected pumping at each of the parties' wells to prepare the 2020 SYR Projection.

The 2020 SYR Projection of pumping for the smaller Overlying Non-Agricultural Pool parties was estimated using historical patterns. Pumping projections for the Agricultural Pool parties were based on a combination of historical data, projected land use changes, and projected water supply plans. The projected recharge and pumping operations for the Dry-Year Yield Program (DYYP) were uncertain and therefore not included in the 2020 SYR Projection.

2.2.3 2024 Projection

In late 2023 and early 2024, as part of the current data collection and evaluation effort, Watermaster submitted a request to the municipal Appropriative Pool parties, the CDA, and the larger Overlying Non-Agricultural Pool parties for updated projected monthly demands and water supply plans (WSPs), current and future well information, and other information described in later sections. The projected monthly demands and WSPs were provided for FY 2025 and FY 2030. Watermaster developed the 2024 Projection for each party's WSP based on their responses to the data request, interpolating between 2023, 2025, and 2030.

The 2024 Projection for the Agricultural Pool and Overlying Non-Agricultural Pool pumping was developed based on a comparison of the 2020 SYR Projection and the 2019-23 Actual pumping to determine whether the differences suggested that the 2024 Projection should differ from the 2020 SYR Projection.

2.3 EVALUATION

This section compares the 2020 SYR Projection for groundwater pumping to 2019-23 Actual pumping and the 2024 Projection for pumping, including an evaluation of any differences.

2.3.1 2019-23 Actual Pumping versus 2020 SYR Projection

Figure 2-1 is a bar chart comparing 2019-23 Actual pumping to the 2020 SYR Projection for pumping by Pool, including the groundwater pumped for the DYYP. Figure 2-1 shows:

- On average, 2019-23 Actual pumping was greater than the 2020 SYR Projection by 5,400 afy. This was primarily due to pumping from the DYYP account in FY 2020, 2021, and 2022, which was not included in the 2020 SYR Projection.
- Not including the DYYP pumping, 2019-23 Actual pumping by the Agricultural Pool, Overlying Non-Agricultural Pool,[3] and the Appropriative Pool were less than the 2020 SYR Projection by about 1,600 afy, 1,100 afy, and 4,500 afy, respectively.

Figure 2-2 is a bar chart comparing 2019-23 Actual pumping to the 2020 SYR Projection for pumping by Management Zone (MZ). Groundwater pumping is aggregated for MZ-4 and MZ-5. Figure 2-2 shows:

- 2019-23 Actual pumping in MZ-1 was less than the 2020 SYR Projection by about 800 afy.
- 2019-23 Actual pumping in MZ-2 and MZ-3 was greater than the 2020 SYR Projection by about 6,100 afy. This was primarily due to pumping from the DYYP account in FY 2020, 2021, and 2022, which was not included in the 2020 SYR Projection.
- 2019-23 Actual pumping in MZ-4 and MZ-5 was about equal to the 2020 SYR Projection.

[3] Annual groundwater pumping by General Electric is net zero because the agency injects the equivalent volume of groundwater pumped.

Figure 2-1. Comparison of 2019-23 Actual Data versus 2020 SYR Projection for Groundwater Pumping by Pool, FY 2019-2023

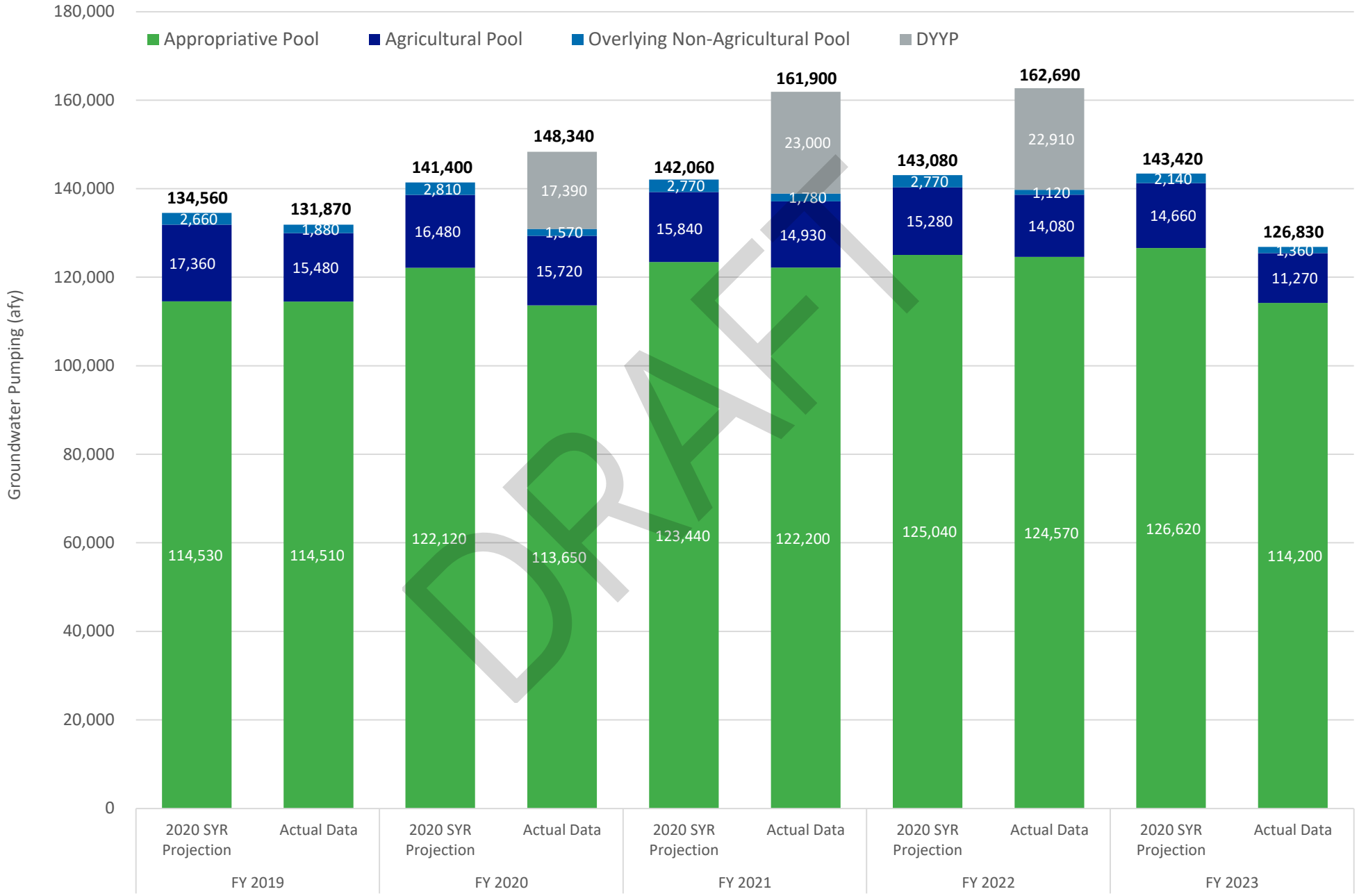
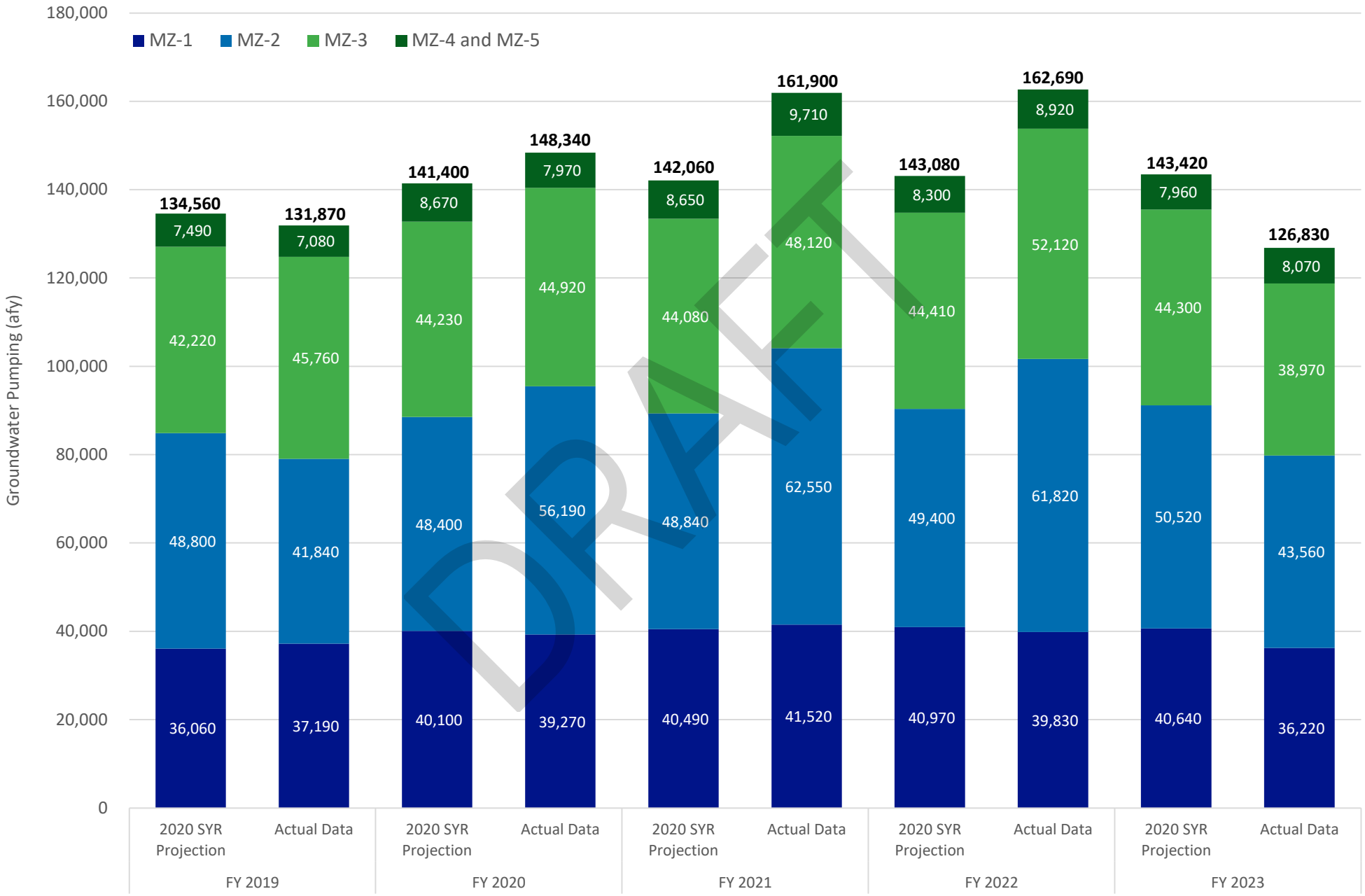


Figure 2-2. Comparison of 2019-23 Actual Data versus 2020 SYR Projection for Groundwater Pumping by Management Zone, FY 2019-2023



2.3.2 2024 Projection versus 2020 SYR Projection

Figure 2-3 is a bar chart comparing the 2020 SYR Projection to the 2024 Projection for pumping by Pool for FY 2025 and FY 2030. Figure 2-3 shows:

- The 2024 Projection for pumping is less than the 2020 SYR Projection by 1,400 afy in FY 2025 and greater than the 2020 SYR Projection by 3,900 afy in FY 2030. These differences are due to higher pumping projections provided by the Appropriative Pool Parties for the 2024 Projection and pumping projections for the Agricultural and Overlying Non-Agricultural Pools that are lower than the 2020 SYR Projection.
- The 2024 Projection for pumping by the Overlying Non-Agricultural Pool is 830 to 850 afy less than the 2020 SYR Projection. 2019-23 Actual pumping for the Overlying Non-Agricultural Pool has been consistently less than the 2020 SYR Projection; in addition, one Overlying Non-Agricultural Pool member (California Speedway Corporation) indicated in 2024 that projected pumping would be less than historical pumping. Hence, the 2024 Projection for Overlying Non-Agricultural Pool pumping is less than the 2020 SYR Projection.

Figure 2-4 is a bar chart comparing 2020 SYR Projection to the 2024 Projection for pumping by MZ for FY 2025 and FY 2030. Figure 2-4 shows:

- The greatest difference between the 2024 Projection and the 2020 SYR occurs in MZ-1. The 2024 Projection for pumping is greater than the 2020 SYR Projection in MZ-1 by 8,300 afy for FY 2025 and by 9,200 afy in FY 2030. These differences are due to higher pumping projections provided by the Appropriative Pool parties in MZ-1 for the 2024 Projection.

Figure 2-3. Comparison of 2020 SYR Projection versus 2024 Projection for Groundwater Pumping by Pool, FY 2025-2030

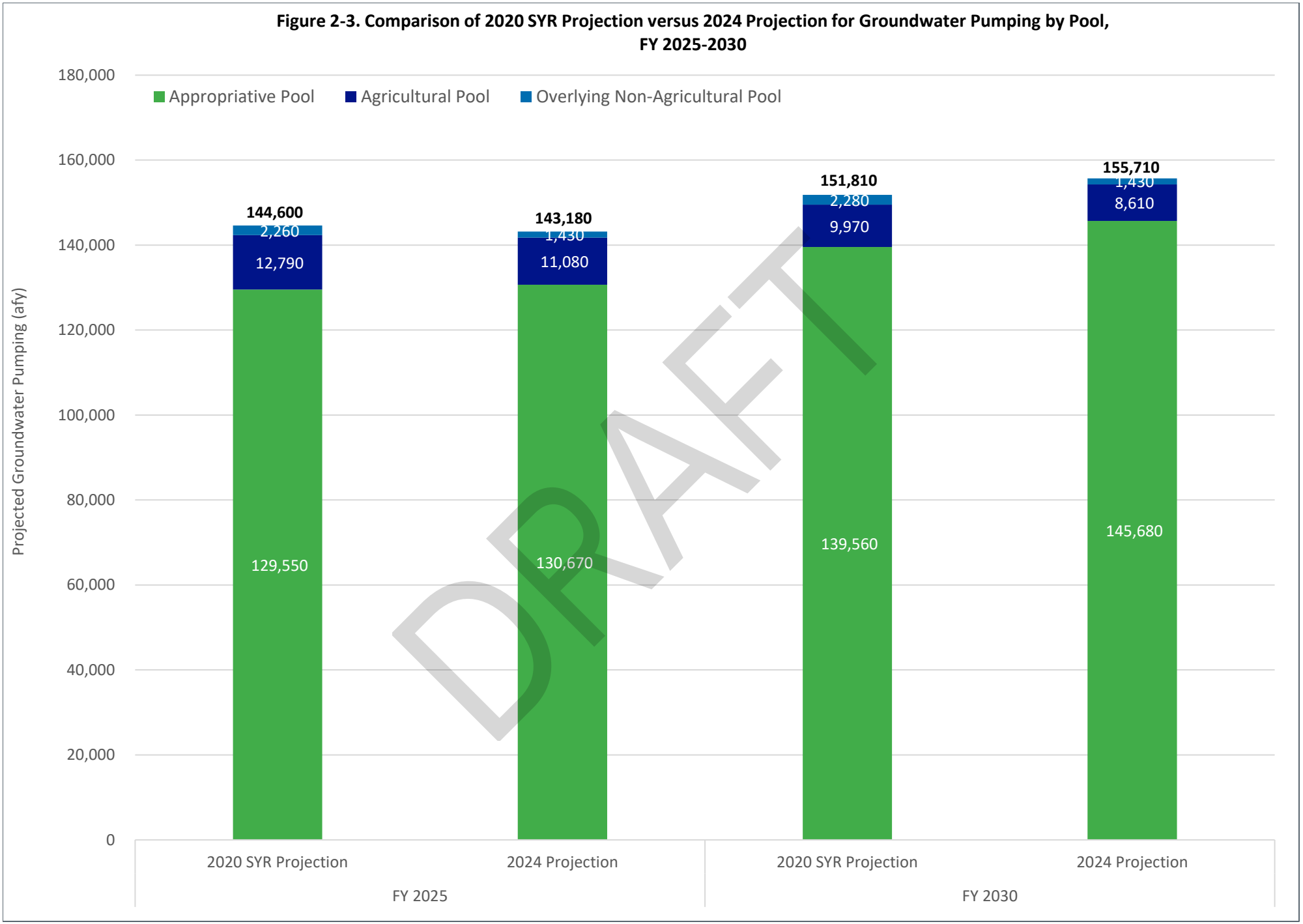
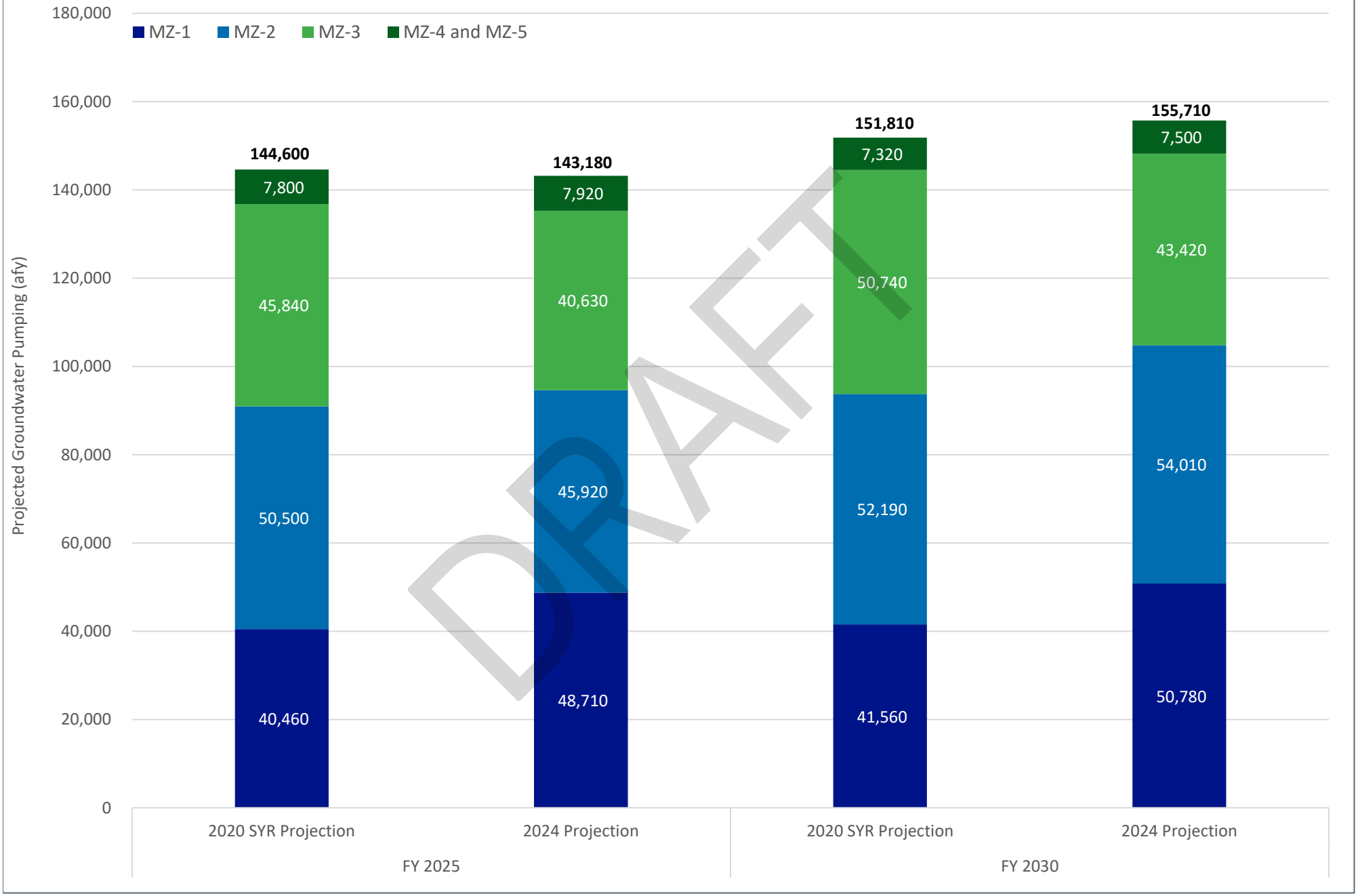


Figure 2-4. Comparison of 2020 SYR Projection versus 2024 Projection for Groundwater Pumping by Management Zone, FY 2025-2030



2.3.3 Summary

The main observations and conclusions from this section are:

- **The 2019-23 Actual pumping was greater than assumed in the 2020 SYR Projection**. The 2019-23 Actual pumping was greater than the 2020 SYR Projection by about 5,400 afy. This difference is primarily due to the groundwater pumping for the DYYP in FY 2020, 2021, and 2022, which generally occurred in northern MZ-2. Not including the DYYP pumping, 2019-23 Actual pumping by the Agricultural Pool, Overlying Non-Agricultural Pool, and the Appropriative Pool were less than the 2020 SYR Projection by about 1,600 afy, 1,100 afy, and 4,500 afy, respectively.
- **The 2024 Projection pumping is similar to the 2020 SYR Projection.** The 2024 Projection for pumping is less than the 2020 SYR Projection by 1,400 afy in FY 2025 and greater than the 2020 SYR Projection by 3,900 afy in FY 2030. The differences between the 2024 Projection and the 2020 SYR Projection for groundwater pumping are not expected to significantly impact net recharge.
- **Differences between the 2024 Projection and the 2020 SYR Projection for pumping indicate the potential for increased risk of future undesirable results related to land subsidence.** The 2024 Projection for pumping is greater than the 2020 SYR Projection in MZ-1 by 8,300 afy for FY 2025 and by 9,200 afy in FY 2030.
  - Some of the areas where the 2024 Projection for groundwater pumping is greater than the 2020 SYR Projection overlie the Northwest MZ-1 Area of Subsidence Concern where Watermaster is currently developing a subsidence management plan. Recent aquifer compaction modeling of this area in response to the 2020 SYR Projection of groundwater pumping and recharge indicates that inelastic subsidence is expected to occur through 2050.[4] These findings also demonstrate that the compaction is occurring primarily in the deeper aquifer layers, where some pumping occurs. The increase in managed recharge in surface spreading basins over the historical period (see Chapter 4) may have only a limited effect in mitigating subsidence.
  - Therefore, the differences between the 2024 Projection and the 2020 SYR Projection for groundwater pumping indicate the potential for an increased risk of future land subsidence. It should be noted that Watermaster currently conducts monitoring and management to address potential land subsidence through the implementation of the OBMP.

[4] TM - 941 - 1D Model SMA-1 Results_FINAL.pdf (cbwm.org)

CHAPTER 3
Urban Outdoor Water Use

Chapter 3 documents the collection and evaluation of data and information on outdoor urban water use practices in the Chino Basin.

3.1 SUMMARY AND APPLICATION TO MODEL

Urban outdoor water use and the fate of these waters after use are a major driver of recharge in the Chino Basin. Typically, pervious urban landscapes are either covered with vegetation that is irrigated (e.g., lawns) or are unplanted and not irrigated. The soil underlying irrigated vegetation is usually moist, allowing some of the irrigation water and precipitation to infiltrate past the root zone to recharge the underlying groundwater basin. Changes in urban irrigation practices in response to climate, water conservation mandates, or other drivers affect the rates and volumes of infiltration of irrigation and precipitation past the root zone.

Urban outdoor water use was included in the 2020 CVM via the R4 model, which is used to calculate the deep infiltration of precipitation and applied water (DIPAW).[1] The R4 model estimates applied water based on soil type, vegetation type, irrigation method, precipitation, and ET. The R4 model calculates the soil moisture available for use by vegetation and determines the rates/volumes of applied water needed for irrigation. The R4 model estimates the infiltration of applied water and precipitation past the root zone that constitutes DIPAW. The R4 model was calibrated to match urban outdoor water use patterns in areas where there are sufficient data to estimate urban outdoor water use; specifically, these areas are tributary to Inland Empire Utilities Agency's (IEUA) major wastewater treatment plants (sewersheds) from FY 1991 through 2018.

For the 2020 SYR, the R4 model was calibrated by comparing estimated actual potable urban outdoor water use with the model-simulated applied water on residential, commercial, and industrial land uses. Recycled water applied for irrigation was not considered in the calibration because it had historically been a small portion of the irrigation water applied to these land uses. Land uses such as parks, golf courses, and schools were excluded from the calibration, as they are generally irrigated with recycled water.

Projections of future urban outdoor water use using the R4 model rely on projections of future precipitation, evapotranspiration (ET), land use, and irrigation behavior. Trends in urban outdoor water use are important to understand as they affect DIPAW, which affects groundwater levels and the water budget, including net recharge.

3.2 COLLECTION OF DATA AND INFORMATION

This section describes how the data and information for urban outdoor water use were collected and compiled for this report.

[1] See Appendix A of the 2007 CBWM Groundwater Model Documentation and Evaluation of the Peace II Project Description (WEI, 2007).

3.2.1 2019-23 Actual Data

Estimates for actual urban outdoor water use are derived from data collected from IEUA's two major sewersheds that cover most of the Chino Basin, which are the RP1/RP4 and Carbon Canyon (CC)/RP5 sewersheds. The methodology to derive estimates of urban outdoor water use was:

1. Obtain data from IEUA for monthly recycled water deliveries to customers in the sewershed that use recycled water for outdoor irrigation.
2. Obtain data from IEUA (and/or the Parties overlying the sewershed) for monthly potable water deliveries to the sewershed.
3. Obtain from each Party overlying the sewershed the annual estimates of the potable water delivery losses.
4. Obtain from IEUA the monthly sewage inflow to the wastewater treatment plants (i.e., estimated indoor water use).
5. Estimate the monthly dry-weather discharge using available discharge estimates from the USGS gage on Cucamonga Creek.
6. Estimate the monthly discharge from on-site waste disposal systems (OWDS) overlying the sewershed.
7. Calculate the monthly urban outdoor water use by using the formula:

   Urban Outdoor Water Use = [Water delivered to watershed] – [Water not used for irrigation]

   or

   Urban Outdoor Water Use = [(1) + (2)] – [(3) + (4) + (5) + (6)]

3.2.2 2020 SYR Projection

In the 2020 SYR, projected urban outdoor water use was estimated with the R4 model based on the calibrated parameters and the following assumptions:

- **Average expected-value hydrology adjusted for climate change.** The methodology used for the 2020 SYR calls for the use of the "long-term historical record of precipitation falling on current and projected future land uses to estimate the long-term average net recharge to the Basin" (WEI, 2015). Future precipitation and ET datasets used in the R4 model were based on the historical datasets for the period FY 1950 through 2011, which were adjusted for future climate conditions based on the method recommended by the California Department of Water Resources (DWR) for use in groundwater models to simulate future water budgets pursuant to the Sustainable Groundwater Management Act (SGMA) (DWR, 2018).[2,3]
- **The impact of current and future urban outdoor water use conservation legislation was not included.** On April 1, 2015, Governor Jerry Brown released Executive Order B-29-15,

[2] More detail on the development of future hydrology can be found in Section 7 of the 2020 SYR Report.

[3] DWR. Resource Guide - DWR-provided Climate Change Data and Guidance for Use During Groundwater Sustainability Plan Development. 2018.

which mandated a statewide reduction in urban potable water usage of 25 percent through February 2016. Additionally, in 2018 the California legislature passed, and the Governor signed, two pieces of legislation (AB 1668 & SB 606) that led to the "Making Conservation a California Way of Life" regulation (Conservation Regulation)[4] to establish new water efficiency standards for purveyors in response to the California drought. At its inception, the legislation would require water suppliers to meet agency-specific urban water use objectives beginning in 2027. Details on the implementation of this legislation were insufficient at the time to include in the 2020 SYR Projection. The 2020 SYR Projection assumed that outdoor water use patterns for legacy urban areas would reflect recent historical patterns. Areas projected for future development would implement more efficient outdoor water use consistent with the guidance provided in the DWR's 2015 Model Water Efficient Landscape Ordinance.[5]

The methodology to calculate the annual 2020 SYR Projection of FY 2019-23 actual urban outdoor water use was:

1. For 2018 and 2030 cultural conditions[6]:
   - The HSPF and R4 models are executed with historical data from 1950 through 2011. For the 2030 cultural conditions, the historical data was modified to account for climate change.
   - The average monthly urban outdoor water use for each sewershed was calculated based on the results of the HSPF and R4 simulations. For example, the average urban outdoor water use for the month of January is the average of every January over the 1950-2011 period.
2. The projected urban outdoor water use[7] for Fiscal Year 2019 through Fiscal Year 2023 was calculated by linearly interpolating the average monthly outdoor water use between 2018 and 2030 cultural conditions.

3.2.3 2024 Projection

The 2024 Projection for urban outdoor water use was developed by reexamining the assumptions used to develop the 2020 SYR Projection, reviewing historical patterns, and reviewing the status of the Conservation Regulation to predict its impact on urban outdoor water use.

In addition, as part of the 2025 Safe Yield Reevaluation (2025 SYR) scenario development, Watermaster has had discussions with the parties regarding projected future water supply plans and urban outdoor water use patterns.

3.3 EVALUATION

This section compares the 2020 SYR Projection to the 2019-23 Actual Data and the 2024 Projection for urban outdoor water use and evaluates the significance of the differences.

[4] Making Conservation a California Way of Life Fact Sheet

[5] DWR. *Model Water Efficient Landscape Ordinance.* Accessed March 25, 2022.

[6] See Section 7.3 of the 2020 SYR Report for a detailed description of the present and projected future cultural conditions.

[7] The projected urban outdoor water use includes applied water on residential, commercial, industrial, and municipal land uses. This includes parks, golf courses, and schools.

3.3.1 2019-23 Actual Data versus 2020 SYR Projection

Figure 3-1 compares the FY 2019-23 Actual urban outdoor water use to the 2020 SYR Projection. The 2019-23 Actual urban outdoor water use varies from year to year due to weather, population growth, water conservation measures, infrastructure improvements, and economic factors. In contrast, the 2020 SYR Projection remains relatively constant since it is based on an average expected-value hydrology. From FY 2019 to FY 2023, the Actual urban water use was consistently less than the 2020 SYR Projection by about 21,100 afy. Multiple drivers may account for this difference, including systemic behavioral changes following Executive Order B-29-15, infrastructure improvements, and the imported water restrictions and associated outdoor watering restrictions that occurred in 2022 in response to the drought. The historical period included three years of below-average precipitation (2020-2022) and two years of above-average precipitation (2019 and 2023), which should roughly balance the impact of wet and dry years on urban outdoor water use.

3.3.2 2024 Projection versus 2020 SYR Projection

Since 2018, the State Water Resources Control Board (State Board) and the DWR have been developing new water use efficiency standards for urban retail water suppliers. In October 2023, the State Board released the first draft of the proposed Conservation Regulation. Following comments from the public, the State Board released multiple revised drafts in early 2024 before adopting the Conservation Regulation on July 3, 2024.[8] The Conservation Regulation will take effect in January 2025, with compliance expected to be assessed beginning in 2027.

The proposed Conservation Regulation requires the calculation of a budget for residential outdoor water use, incorporating a landscape efficiency factor linked to irrigable area, with future reductions slated for 2035 and 2040 to promote water-efficient landscaping practices. The parties that would be subject to the Conservation Regulation have indicated significant uncertainty in their customers' responses to the Conservation Regulation. Through scenario design workshops for the 2025 SYR, parties underscored the substantial impact of policy and regulation on water supply planning, particularly emphasizing uncertainties stemming from the Conservation Regulation.[9]

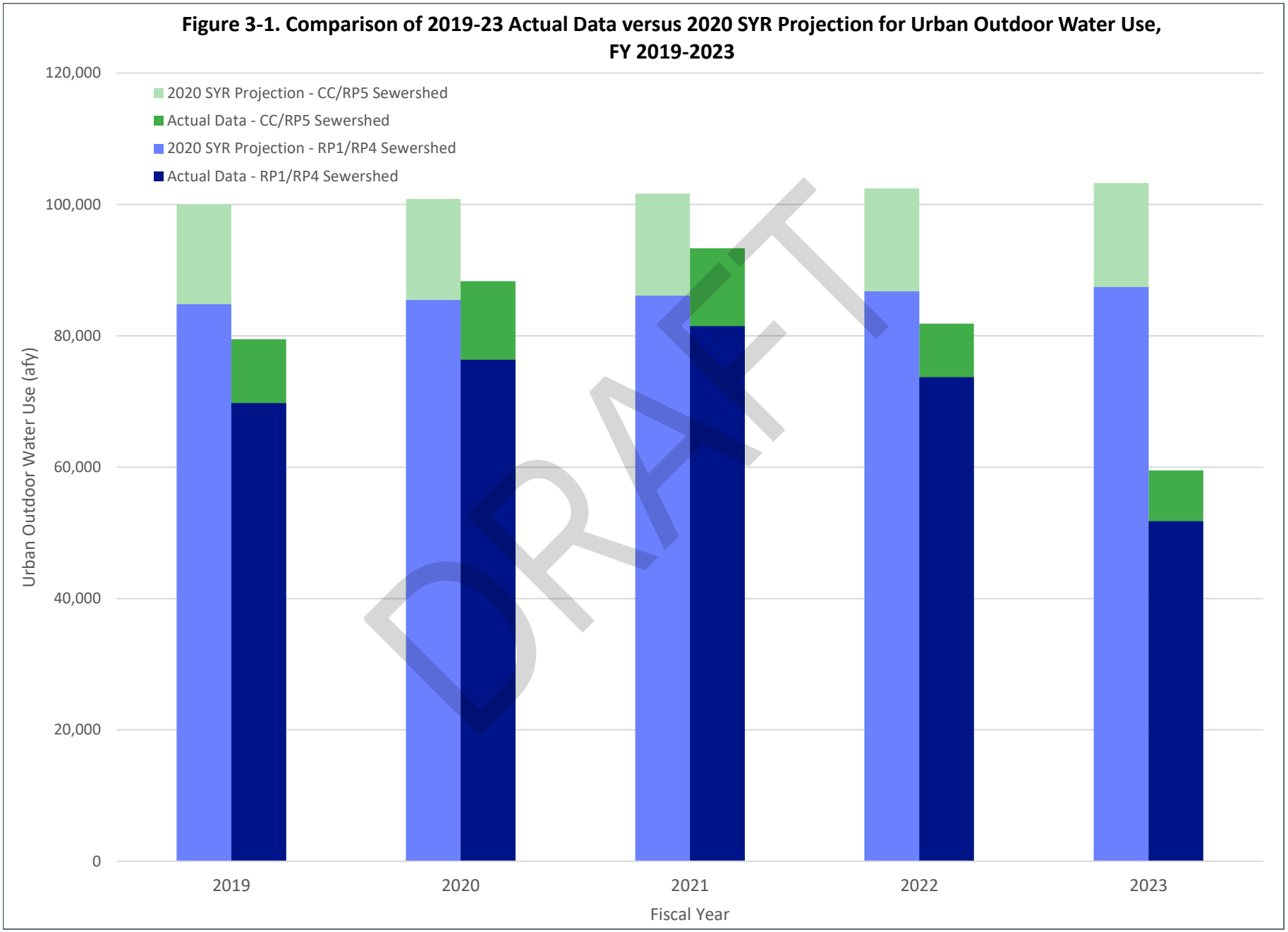
The parties' continued input and available data are being used to develop multiple future scenarios to encompass the range of potential outcomes and uncertainties surrounding future urban outdoor water use. This process is ongoing and is expected to be completed in summer 2024.

A precise 2024 Projection for urban outdoor water use was not possible for this report because (1) the proposed Conservation Regulation was only recently adopted and (2) there remains a high degree of uncertainty in agencies' responses to the Conservation Regulation and other unrelated changes in urban outdoor water use. However, the expected impacts from the Conservation Regulation suggest a probable reduction in future urban outdoor water use compared to both the 2019-23 Actual Data and the 2020 SYR Projection.

[8] Proposed text of Conservation Regulation that was adopted on July 3, 2024. As of this report, the Conservation Regulation text is being circulated for a sixth review period ending on August 12, 2024. The review period is expected to result in minor corrections and will not require the State Board to re-approve the Conservation Regulation.

[9] Slides from 2025 SYR Scenario Design Workshop #1

Figure 3-1. Comparison of 2019-23 Actual Data versus 2020 SYR Projection for Urban Outdoor Water Use, FY 2019-2023



3.3.3 Summary

The main observations and conclusions of this section are:

- **The cumulative impacts of differences in outdoor urban water use may result in reduced net recharge compared to the current Safe Yield.** The average 2020 SYR Projection for urban outdoor water use between 2019 and 2023 was 21,100 afy greater than the average 2019-23 Actual urban outdoor water use within the IEUA service area, which likely resulted in less DIPAW to the vadose zone than was simulated in the 2020 SYR. While a more precise estimate of the impacts of these differences requires the use of the CVM, the impact can be approximated with the following assumptions:

  1. The IEUA service area serves as a representative proxy for the entire Chino Basin.
     - The IEUA service area covers about 80 percent of the Chino Basin, but its total service area is similar to the size of the Chino Basin.
     - Similar reductions in urban outdoor water use likely occurred in areas of the Chino Basin outside of the IEUA service area.
     - Therefore, the difference in FY 2019-23 urban outdoor water use compared to the 2020 SYR Projection could be around -21,100 afy across the Basin, rounded to -20,000 afy.
  2. The differences in urban outdoor water use likely resulted from less irrigated area and less frequent irrigation compared to the 2020 SYR Projection. The differences in urban outdoor water use may result from behavioral changes including increased irrigation efficiency (e.g., replacing sprinklers with drip irrigation), conversion to water-efficient vegetation (i.e., a lower crop coefficient), reduced irrigated area, and reduced irrigation frequency. Each of these changes will have a different impact on DIPAW relative to the change in applied water. We estimate that about 20 to 40 percent of the differences in urban outdoor water use would have resulted to DIPAW to the vadose zone, with the other 60 to 80 percent being consumed by the irrigated vegetation.[10]

  Combining these assumptions, the DIPAW to the vadose zone could range from about 4,000 to 8,000 afy (20,000 afy * 20 percent, or 20,000 afy * 40 percent) less than that simulated in the 2020 SYR over FY 2019-23. While a precise 2024 Projection for urban outdoor water use was not possible, based on the available information and the 2019-23 Actual Data, it is likely that future urban outdoor water use will continue to be less than the 2020 SYR Projection. Although the impacts of these differences will have a delayed impact on the net recharge due to the travel time through the vadose zone, these differences may result in the average net recharge over the current decade to be less than the current Safe Yield.

[10] See comments from Cucamonga Valley Water District in Appendix B. Input from the Appropriators and the Chino Basin Water Conservation District indicates typical irrigation efficiencies of residential landscapes of about 40-50 percent, with commercial irrigation efficiencies approaching 65-70 percent. These irrigation efficiencies consider water losses to runoff, which are not simulated in the R4 model and are removed from the calculations of actual urban outdoor water use (see Step 5 in Section 3.2.1). Therefore, the observed differences between actual urban outdoor water use and the 2020 SYR Projection include only water consumed by vegetation and water resulting in deep infiltration to the vadose zone. The assumption of 20 to 40 percent of applied water (excluding runoff) resulting in DIPAW to the vadose zone is consistent with R4 model assumptions and aligns with findings in relevant literature.

CHAPTER 4
Managed Groundwater Recharge

Chapter 4 documents the collection and evaluation of data and information on managed groundwater recharge in the Chino Basin.

4.1 SUMMARY AND APPLICATION TO MODEL

Managed groundwater recharge (also known as managed aquifer recharge or managed recharge) is the deliberate recharge of surface water to an aquifer. Watermaster has collaborated with the Parties and local agencies to enhance managed recharge in the Chino Basin through the implementation of Program Element 2 of the Optimum Basin Management Program (OBMP), which is to develop and implement a comprehensive recharge program.

The types of water recharged in the Chino Basin include stormwater and supplemental water. Stormwater is the runoff generated from rainfall within the Chino Basin watershed, some of which can be routed to recharge facilities within the Chino Basin. Stormwater recharge varies from year to year, and the volume of recharge is dependent on precipitation, which is highly variable, and the capacity and operation of the recharge facilities. Supplemental water includes recycled water and water that originates from outside the Chino Basin (i.e., imported water from the State Water Project). Supplemental water recharge is also highly variable and is dependent on the water-supply plans of the Parties, actions and coordination with outside agencies recharging in the Chino Basin (e.g., MWD's DYYP), the availability of supplemental water supplies, and the capacity and operation of the recharge facilities.

Managed recharge occurs in the Chino Basin via spreading of surface water at recharge basins, injection at aquifer storage and recovery (ASR) facilities, infiltration at Municipal Separate Storm Sewer System (MS4) facilities, and in-lieu recharge, all of which are documented in detail in the 2023 Recharge Master Plan Update (2023 RMPU).[1] Each method for managed recharge is listed below, including a description of how each of these recharge terms are input into the CVM:

- **Recharge Basins.** Recharge basins are the flood control and conservation basins that the IEUA, Chino Basin Water Conservation District (CBWCD), and the San Bernardino County Flood Control District own and operate. Recharge at these basins is input to the CVM as a specified inflow at the model cells corresponding to the recharge basins. Figure 4-1 shows the locations of the recharge basins in the Chino Basin where managed recharge occurs.
- **Aquifer Storage and Recovery Facilities.** ASR facilities are wells that are equipped for the injection of surface water and extraction of groundwater. Data for the injection and extraction of water from the ASR facilities are input into the CVM as a specified inflow at the location of the ASR well. Figure 4-1 shows the locations of the current and known future ASR facilities in the Chino Basin.
- **MS4 Facilities.** MS4 facilities include facilities to capture stormwater runoff in an urban area. Los Angeles, San Bernardino, and Riverside Counties, and/or the cities within these counties, have MS4 facilities in the Chino Basin. A reconnaissance-level study completed during the development of the 2023 RMPU estimated that there were 193 known MS4 facilities that have been constructed in the Chino Basin through FY 2021 that included infiltration features that would contribute to stormwater recharge in the Chino Basin. The data that has been collected on the performance and maintenance of the MS4 facilities has been insufficient to quantify

[1] West Yost. 2023 Recharge Master Plan Update. Prepared for the Chino Basin Watermaster. September 2023.

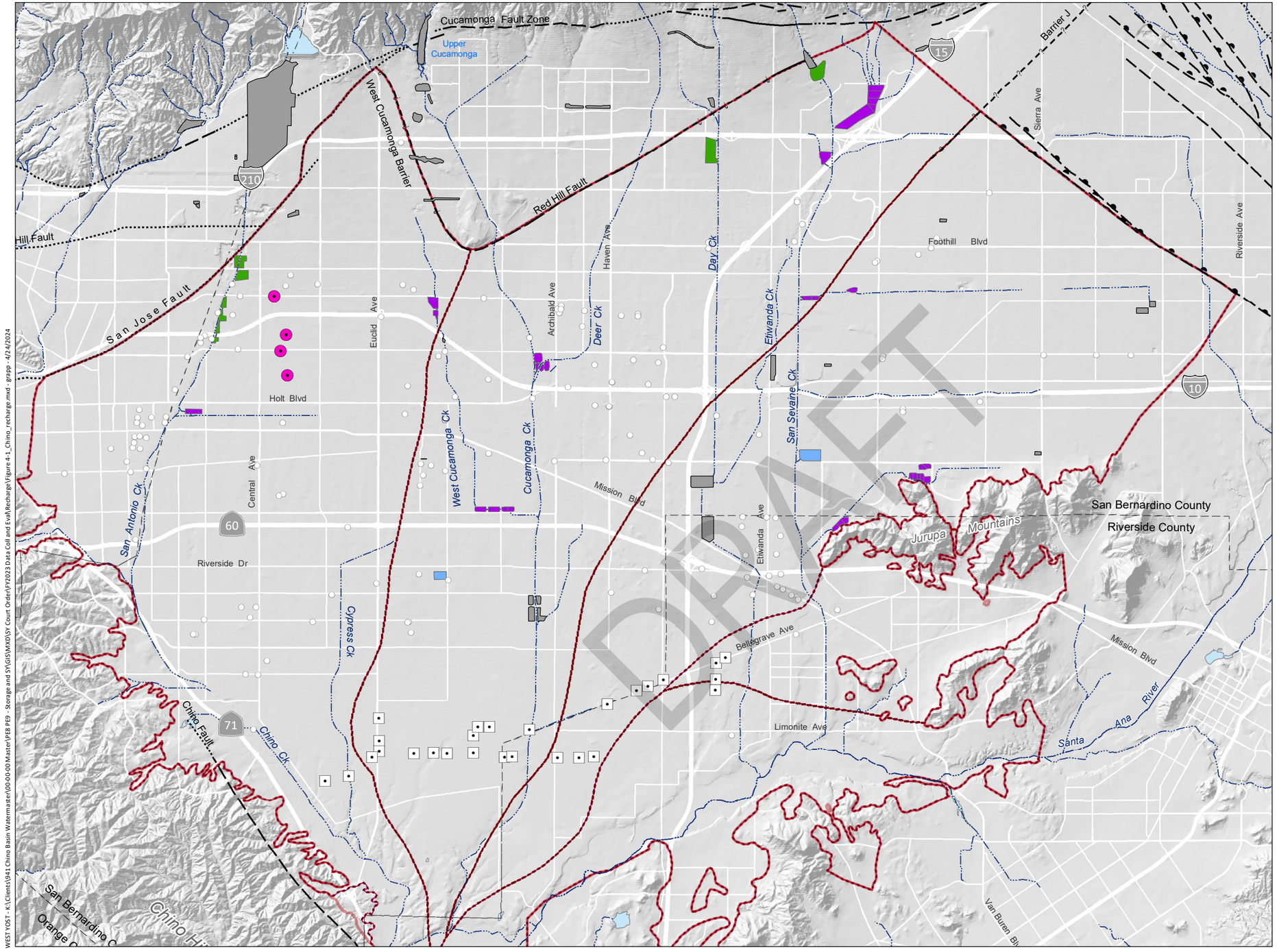
the historical or projected contribution of these facilities to new recharge in the Chino Basin. The CVM does not explicitly account for recharge at these facilities.

- **In-lieu Recharge.** In-lieu recharge can occur when a Party with pumping rights in the Chino Basin uses supplemental water for direct use in lieu of pumping Chino Basin groundwater. The ability of a Party to conduct in-lieu recharge depends on the extent of a Party's access to treatment and conveyance facilities for imported water. In-lieu recharge is reflected in a Party's water supply plan and is not a direct input into the CVM.

Historical data on managed recharge is one of several input datasets in the CVM calibration scenario. The CVM's R4 surface water model is calibrated to match the IEUA's estimates of stormwater recharge at recharge basins. The 2020 CVM groundwater-flow model was calibrated over the period of July 1, 1977 through June 30, 2018 by adjusting model parameters to produce the best match between simulated and observed system responses, including the time series of surface water discharge into the Prado Dam reservoir and groundwater levels at wells.[2]

Projections of future managed recharge are used to develop the model projection scenarios, that are then simulated with the CVM to estimate the future water budget of the Chino Basin, including net recharge. Managed recharge patterns (magnitude and location) are important as they affect groundwater levels, water budget components, and net recharge in the Chino Basin.

[2] More information on the calibration process of the 2020 CVM can be found in Section 6 of the 2020 SYR Report.



Facilities Used for Managed Recharge

Spreading Basins

- Storm, Imported and Recycled Water
- Storm and Imported Water
- Stormwater

ASR Wells

- MVWD ASR Wells

- Other Stormwater Facilities Not Used for Managed Recharge (Incidental Recharge Only)
- Appropriative Pool Pumping Wells
- Chino Desalter Wells

OBMP Management Zones

Streams & Flood Control Channels

Faults

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

Prepared by:

WEST YOST

0 1 2 3 Miles

0 2 4 6 Km

Prepared for:

Chino Basin Watermaster
Data Collection and Evaluation
FY 2022/23

Managed Recharge in the Chino Basin

Figure 4-1

4.2 COLLECTION OF DATA AND INFORMATION

This section describes how the data and information for managed recharge were collected and compiled for this report.

4.2.1 Stormwater Recharge

4.2.1.1 2019-23 Actual Data

Stormwater recharge is metered at each recharge basin by the IEUA. The IEUA provides Watermaster the daily and monthly measurements of stormwater diverted to each recharge basin. Watermaster maintains these data in a database.

4.2.1.2 2020 SYR Projection

For the 2020 SYR, projections of stormwater recharge at recharge basins were estimated with the R4 model based on the following assumptions:

- **Average expected-value hydrology adjusted for climate change.** The Safe Yield Reset methodology employed for the 2020 SYR calls for the use of the "long-term historical record of precipitation falling on current and projected future land uses to estimate the long-term average net recharge to the Basin." Future precipitation and ET datasets used in the R4 model are based the historical datasets for the period of FY 1950 through 2011, which were adjusted for future climate conditions based on the method recommended by the DWR for model simulations of future water budgets pursuant to the SGMA (DWR, 2018).[3] The average stormwater recharge calculated based on historical precipitation and ET datasets represents the expected-value stormwater recharge that was used for the 2020 SYR Projection.
- **2013 RMPU projects would be fully operational by FY 2023.** During the development of the 2020 SYR Projection, the design and construction of the approved recharge enhancement projects in the 2013 RMPU were underway. The assumptions in the 2020 SYR Projection were that all approved 2013 RMPU projects would be completed by FY 2023, at which point the expected stormwater recharge increases by the R4-estimated volumes for each project.

4.2.1.3 2024 Projection

The 2024 Projection was developed by reexamining the assumptions used to develop the 2020 SYR Projection. Since the development of the 2020 SYR Projection, there is no updated information that would necessitate a change in the data or methods used to develop the expected-value hydrology used in the 2020 SYR Projection. Two of the 2013 RMPU projects were delayed past FY 2023: (1) Montclair Basin improvements and (2) Wineville/Jurupa/RP3 Basin pump station and improvements (Project 23a). As of this writing, the Montclair Basin improvements and Project 23a are expected to be completed by the end of December 2025 and fully operational in FY 2027. The expected stormwater recharge benefits of the Montclair Basin improvements and Project 23a are 96 afy and 2,921 afy, respectively. There are no additional stormwater recharge projects planned for construction through FY 2030.

[3] More detail on the development of future hydrology can be found in Section 7 of the 2020 SYR Report.

4.2.2 Recycled Water Recharge

4.2.2.1 2019-23 Actual Data

Recycled water recharge is metered at each recharge basin by the IEUA. The IEUA provides Watermaster the daily and monthly measurements of recycled water delivered to each recharge basin, adjusted for evaporative losses. Watermaster maintains these data in a database.

4.2.2.2 2020 SYR Projection

The IEUA provided projections of future annual recycled water recharge at each recharge basin. The Watermaster Engineer reduced the IEUA projections for the 2020 SYR Projection to be more consistent with the then-recent history of recycled water recharge that occurred prior to FY 2019.

4.2.2.3 2024 Projection

The IEUA provided updated recycled water recharge projections in 2024.

4.2.3 Imported Water Recharge

4.2.3.1 2019-23 Actual Data

Imported water recharge is metered at each recharge basin by the IEUA. The IEUA provides Watermaster the daily and monthly measurements of imported water delivered to each recharge basin, adjusted for evaporative losses. Volumes of imported water injected into ASR wells in the Chino Basin are reported to Watermaster quarterly by the well owners. Watermaster maintains these data in a database.

4.2.3.2 2020 SYR Projection

For the 2020 SYR Projection, estimates of future imported water recharge were based on the following:

- **Storage and Recovery Programs.** The only active Storage and Recovery Program in the Chino Basin is the DYYP. This program involves the recharge of imported water in the Chino Basin for later extraction via Chino Basin wells. At the end of the calibration period (June 30, 2018), the DYYP had a balance of about 41,380 af. The future operations of the DYYP were uncertain beyond the calibration period, so no recharge for the DYYP was included in the 2020 SYR Projection.
- **Peace II Agreement requirements.** Pursuant to the Peace II Agreement, 6,500 afy of supplemental water must be recharged in MZ-1 through 2030. The 2020 SYR Projection assumed that "this obligation will be satisfied through the recharge of imported water for the [DYYP] that has already occurred and recycled water recharge planned to occur in MZ1 through 2030." (2020 SYR Report).
- **Replenishment obligations.** Imported water was assumed to be recharged in the future to satisfy the replenishment obligations of the Parties. To estimate the volume of

replenishment obligations and Managed Storage,[4] Watermaster compared estimates of future pumping to future pumping rights, as summarized below.[5]

- Projections of future pumping rights were based on the Safe Yield (through FY 2020), projected average net recharge (for each decade after FY 2020), Reoperation water, and projected recycled water recharge.
- If projected pumping was greater than projected pumping rights, the difference was the replenishment obligation. It was assumed that the replenishment obligation would be satisfied 80 percent by debits from Managed Storage accounts and the remaining 20 percent by wet-water (imported water) recharge.

- **Projected imported water recharge at ASR wells.** No imported water was assumed to be recharged via ASR wells in the 2020 SYR.

The projected imported water recharge was allocated to specific recharge basins based on the recommendation in the 2023 RMPU (West Yost, 2023), which stated the following:

> *"West Yost's recommendation to Watermaster regarding the location and magnitude of supplemental water recharge for replenishment has been to maximize recharge to MZ1 up to its spreading capacity, then to maximize recharge in MZ3 up to its recharge capacity, and then to recharge in MZ2. Given that the long-term land subsidence management plan for Northwest MZ1 has not yet been completed and there are no projected recharge-related pumping substantiality challenges which can be practically mitigated through recharge, the existing strategy and the facilities on which it relies are sufficient at least until the next RMPU occurs in 2028. This includes continuing the recharge of at least 6,500 afy of supplemental water in MZ1 until the next RMPU occurs in 2028 or the MZ1 subsidence management plan is completed."*

4.2.3.3 2024 Projection

For the 2024 Projection, estimates of future imported water recharge were based on the following:

- **Storage and Recovery Programs.** The only active Storage and Recovery Program remains the DYYP, which had a balance of about 7,900 af at the end of FY 2023. No recharge for the DYYP was included in the 2024 Projection.
- **Peace II Agreement requirements.** The Peace II Agreement requirements remain unchanged, thus 6,500 afy of supplemental water must continue to be recharged in MZ-1 through 2030. It is still assumed that "this obligation will be satisfied through the recharge of imported water for the [DYYP] that has already occurred and recycled water recharge planned to occur in MZ1 through 2030."
- **Replenishment obligations.** The 2024 Projection for Managed Storage and replenishment obligations is based on the same methods as prior years. In 2022, as part of Watermaster's data request to the Appropriative Pool Parties, Watermaster requested 20-year operating plans for groundwater pumping, transfers, and the use of Managed Storage to meet any

[4] Managed Storage, as used herein, refers to water stored by the Parties and other entities, and includes Carryover, Local Storage, and Supplemental Water held in storage accounts by the Parties, and Storage and Recovery Programs.

[5] More detail on the methods to calculate the replenishment obligation can be found in Section 7.3.1.2 of the 2020 SYR Report.

future replenishment obligations. Based on the Parties' responses, the average percentage[6] of future replenishment obligations that the Parties expected to meet through debits from Managed Storage accounts was about 90 percent, with the other 10 percent expected to be met with imported water recharge. Most of the Parties expressed some uncertainty in these estimates, noting that future availability and cost of imported water has been more volatile in recent years. Future work will consider an approach that estimates each party's individual responses to use Managed Storage to meet replenishment obligations.

- **Projected imported water recharge at ASR wells.** The Parties indicated that no imported water should be assumed to be recharged via ASR wells in the 2024 Projection.

4.3 EVALUATION

This section compares the 2020 SYR Projection to the 2019-23 Actual Data and the 2024 Projection for managed recharge and evaluates the significance of the differences. Figure 4-2 compares the 2019-23 Actual Data, 2020 SYR Projection, and the 2024 Projection for managed recharge by type for FY 2019-2030.

4.3.1 Stormwater Recharge

4.3.1.1 2019-23 Actual Data versus 2020 SYR Projection

Year-to-year, the 2019-23 Actual stormwater recharge was sometimes greater and sometimes less than stormwater recharge in the 2020 SYR Projection, which is to be expected given the interannual variability in precipitation. On average, the 2019-23 Actual stormwater recharge was about the same as the 2020 SYR Projection (11,200 afy).

4.3.1.2 2024 Projection versus 2020 SYR Projection

Due to the delay of the completion of the Montclair Basin improvements and Project 23a, the 2024 Projection of stormwater recharge is less than the 2020 SYR Projection. A minor portion of Project 23a is complete as of FY 2023/24 (the construction of a new cell at RP3); however, the reduced recharge opportunity due to the project delays is uncertain due to project design and hydrologic conditions. Assuming that the lost recharge opportunity due to project delays is about 2,000 afy over three years (FY 2024-26), the 2024 Projection for stormwater recharge averages 13,400 afy, about 900 afy less than the 2020 SYR Projection (14,300 afy).

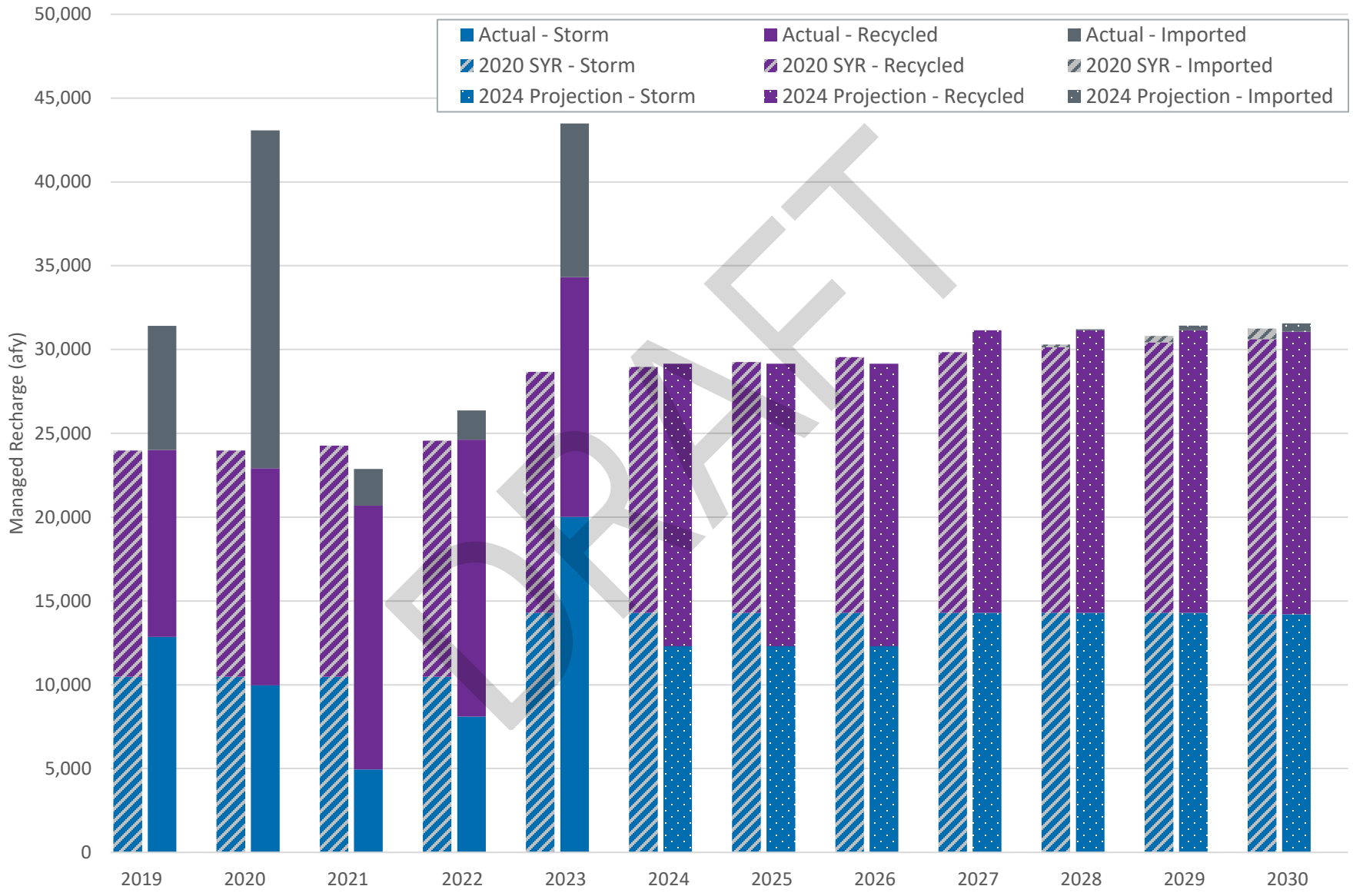
4.3.2 Recycled Water Recharge

4.3.2.1 2019-23 Actual Data versus 2020 SYR Projection

On average, the 2019-23 Actual recycled water recharge was 14,130 afy, about 280 afy greater than the 2020 SYR Projection (13,850 afy).

[6] A volume-weighted average percentage was calculated based on each Party's respective Managed Storage account balance at the end of FY 2022.

Figure 4-2. Comparison of 2019-23 Actual Data and Projected Managed Recharge in the Chino Basin, FY 2019-2030



4.3.2.2 2024 Projection versus 2020 SYR Projection

The 2024 Projection for recycled water recharge is 16,850 afy, or about 1,300 afy greater than the 2020 SYR Projection (15,550 afy).

4.3.3 Imported Water Recharge

4.3.3.1 2019-23 Actual Data versus 2020 SYR Projection

On average, the 2019-23 Actual imported water recharge was greater than the 2020 SYR Projection by about 8,100 afy. This is almost entirely due to imported water recharge for the DYYP during FY 2019, 2020, and 2023.

4.3.3.2 2024 Projection versus 2020 SYR Projection

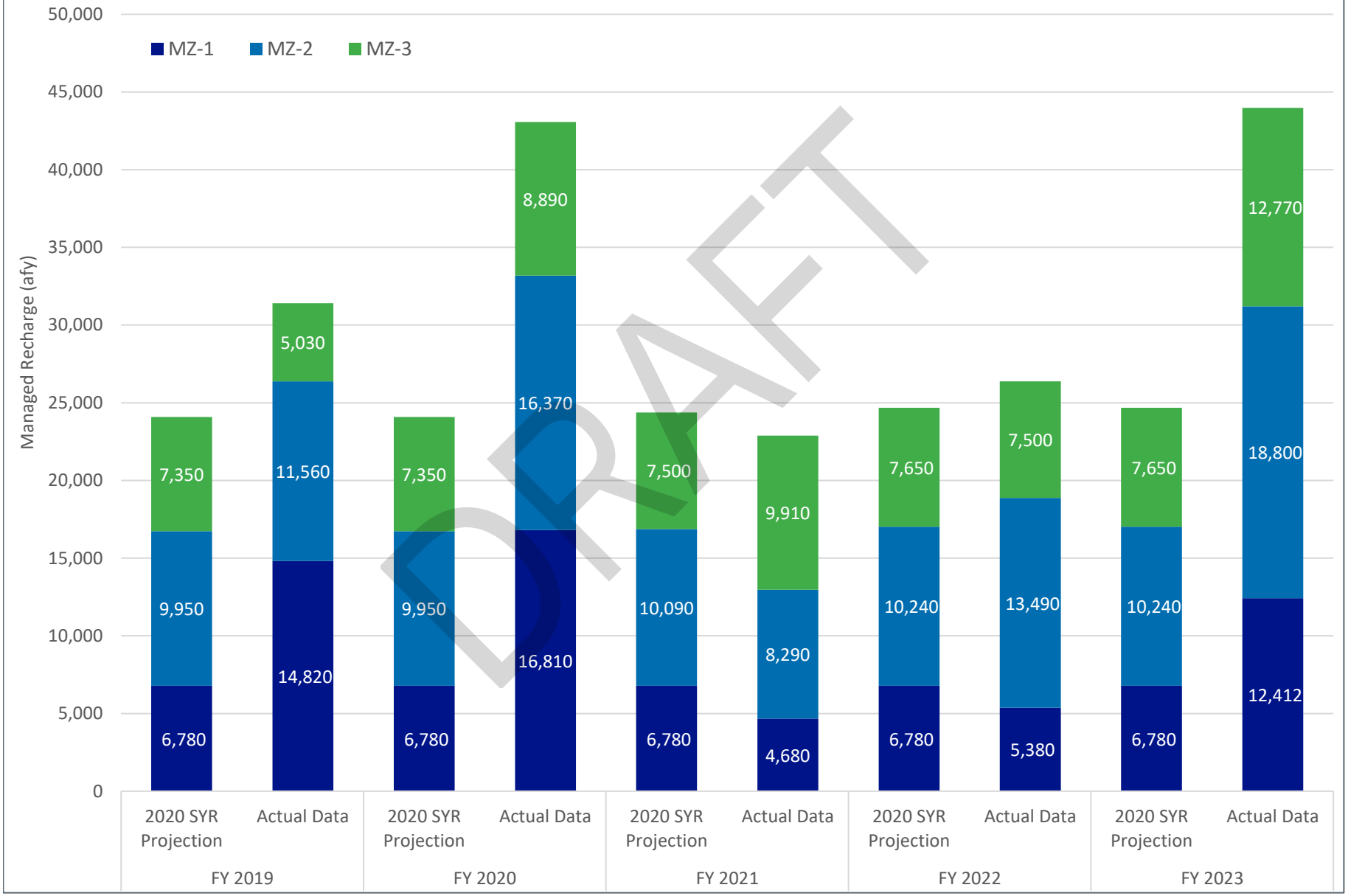
The 2024 Projection for imported water recharge during FY 2024 through 2030 is about 120 afy, slightly lower than the 2020 SYR Projection, which was about 170 afy.

4.3.4 Summary

The main observations and conclusions from this section are:

- **The 2019-23 Actual managed recharge in MZ-1 was greater than assumed in the 2020 SYR Projection.** Figure 4-3 compares the 2019-23 Actual managed recharge to the 2020 SYR Projection by MZ. The 2019-23 Actual managed recharge was greater than the 2020 SYR Projection by an average of about 3,000 afy, including 4,000 afy in MZ-1. This was largely due to the imported water recharged for the DYYP. The facilities for managed recharge in MZ-1 are all located in the northwest portion of MZ-1, where persistent land subsidence has been occurring for decades and the Watermaster is currently developing a subsidence management plan. The greater volumes of managed recharge in MZ-1 can help support groundwater levels in this area and help mitigate the occurrence of land subsidence.
- **The 2019-23 Actual stormwater recharge was about the same as the 2020 SYR Projection.** The 2019-23 Actual stormwater recharge in the Chino Basin and the 2020 SYR Projection both averaged about 11,200 afy. Differences between actual and projected stormwater recharge are to be expected because (i) precipitation and runoff are highly variable and (ii) the projections are based on long-term expected average hydrology adjusted for climate change. Over longer time periods, Actual stormwater recharge should become approximately equal to the projections assuming stationary climate conditions. The greater-than-average stormwater recharge during the wet years of FY 2019 and FY 2023 offset the less-than-average stormwater recharge during the dry years of FY 2020 through 2022.
- **The 2024 Projection for stormwater recharge is less than the 2020 SYR Projection.** Due to the delays in the implementation of two recharge projects identified in the 2013 RMPU, the 2024 Projection for stormwater recharge is about 13,400 afy, about 900 afy less than the 2020 SYR Projection over the period of FY 2024 through 2030.

Figure 4-3. Comparison of 2019-23 Actual Data versus 2020 SYR Projection for Managed Recharge by Management Zone, FY 2019-2023



CHAPTER 5
Conclusions and Recommendations

Chapter 5 documents conclusions of the cumulative evaluation of the data collected for this report and recommendations for further evaluation.

5.1 CONCLUSIONS

This section discusses the cumulative evaluation of the differences between the 2020 SYR Projection versus the 2019-23 Actual Data and the 2024 Projection. The evaluation considers the cumulative impacts on net recharge and the potential for Material Physical Injury. Table 5-1 summarizes the findings and conclusions described in prior chapters and this evaluation of cumulative impacts.

5.1.1 Managed Storage

Groundwater pumping (Chapter 2) and managed recharge (Chapter 4) are components of the calculation of Managed Storage. Managed Storage can affect groundwater levels and the net recharge in the Chino Basin. For example, higher Managed Storage can result in higher groundwater levels, and hence, lower net recharge because of the groundwater/surface-water interactions in the southern Chino Basin.

Table 5-2 shows: (i) 2019-23 Actual Data for Managed Storage which was derived from Watermaster Assessment Packages and (ii) the calculation of the 2024 Projection for Managed Storage. Figure 5-1 is a time-series chart that compares the 2020 SYR Projection to the 2019-23 Actual and 2024 Projection for Managed Storage through FY 2030. Figure 5-1 shows that the 2019-23 Actual Data and the 2024 Projection is sometimes less than and sometimes greater than the 2020 SYR Projection. By the end of FY 2030, the 2024 Projection is about 14,000 af less than the 2020 SYR Projection for Managed Storage. Based on the current understanding of the relationship between Managed Storage and basin conditions, a difference of 14,000 af in Managed Storage is unlikely to have a significant effect on net recharge or groundwater levels by FY 2030.[1]

5.1.2 Potential Deviation from Current Safe Yield

This report analyzed four potential factors that can affect the net recharge to the Chino Basin, and hence, can cause a deviation from the current 2020 Safe Yield that has been set for the period 2021-2030. These factors included: groundwater pumping, urban outdoor water use, managed recharge, and Managed Storage. The analysis indicated that actual (FY 2019-23) and projected (FY 2024-30) urban outdoor water use is substantially less than was projected in the 2020 SYR, which may materially impact the DIPAW to the saturated zone, and hence, may result in average net recharge to decline below the current Safe Yield over the Safe Yield period FY 2021-2030.

Specifically, the DIPAW to the vadose zone over FY 2019-23 was estimated to be on the order of 4,000 to 8,000 afy less than that simulated in the 2020 SYR. If this current trend continues, or if urban outdoor water use continues to decline relative to the 2020 SYR Projection, an annual difference of DIPAW to the

[1] See Table 4-1 in the *2023 Storage Framework Investigation* (WY, 2023). Based on these results, the estimated impact of a 14,000 af difference in Managed Storage may result in net recharge increasing by less than 200 afy, or less than 0.2 percent of the Safe Yield.

vadose zone of 4,000 afy or more from FY 2019-30 could result in a reduction in DIPAW to the saturated zone[2] of more than 3,300 afy, which is greater than 2.5 percent of the current Safe Yield (131,000 afy).

In addition, the analysis found that the 2024 Projection for stormwater recharge is about 900 afy less than the 2020 SYR Projection. Over the Safe Yield period of FY 2021 through 2030, this could result in about 600 afy less stormwater recharge than projected, which directly impacts net recharge.

5.1.3 Potential Material Physical Injury

The 2019-23 Actual Data and 2024 Projection for groundwater pumping indicate the potential for undesirable results related to increased risk of new land subsidence in Northwest MZ-1 that were not identified in the 2020 SYR.

5.2 RECOMMENDATIONS

As discussed in section 1, if this report concludes that (1) "there has been or will be a material change from existing and projected conditions" or (2) where there has been or will be "threatened undesirable results," Watermaster must conduct "more significant evaluation, including modeling, as described in the Reset Technical Memorandum." (2017 Court Order, p. 17.) Accordingly, the recommendations resulting from this FY 2022/23 Annual Report are as follows:

1. **Through Watermaster's existing programs, address the potential for new undesirable results resulting from the 2024 Projection for groundwater pumping exceeding the 2020 SYR Projection.** The comparison of the 2020 SYR Projection to the 2024 Projection for groundwater pumping indicated the increased risk for new land subsidence in MZ-1. To address this, we recommend that Watermaster and the parties complete and implement a subsidence management plan for MZ-1. This process is already underway as part of Watermaster's Ground-Level Monitoring Program. The continued development of a subsidence management plan should include a more precise evaluation of the potential impacts of future pumping and recharge to inform groundwater management strategies that would allow continued pumping from MZ-1 without increasing the risk of land subsidence.
2. **Reevaluate the current Safe Yield consistent with the 2017 Court Order.** This report supports the necessity to conduct additional evaluation through the 2025 Safe Yield Reevaluation (2025 SYR), due to two primary findings:
   - The results from this report have improved our understanding of the relationship between hydrologic and cultural conditions. The five years of historical data evaluated herein include two wet years of greater-than-average precipitation (FY 2019 and FY 2023) and three dry years of less-than-average precipitation (FY 2020 through 2022). As demonstrated in the FY 2019-23 Actual Data, hydrology has a measurable impact on pumping, recharge, and urban outdoor water use.
   - Based on the findings regarding the differences in urban outdoor water use and projected stormwater recharge, there is a reasonable likelihood that the cumulative impact of these differences would result in the actual Safe Yield being less than the current Safe Yield by

[2] DIPAW to the saturated zone accounts for the lag time of DIPAW through the vadose zone and is one of the primary recharge components of the Chino Basin.

more than 2.5 percent, suggesting the possibility for "a material change from existing and projected conditions" (2017 Court Order, p. 17).

The current Safe Yield Reset methodology, which will be executed for the first time during the 2025 SYR, involves developing multiple projection scenarios to quantify the uncertainty in future hydrology and cultural conditions (such as the implementation of Conservation Regulations and their impact on DIPAW). This data collection and evaluation process has provided valuable insight to assist in the development of the projection scenarios. Ultimately, the projection scenarios will be evaluated with the CVM to: (i) estimate the net recharge to the Chino Basin; (ii) characterize the associated uncertainty in the net recharge estimates; and (iii) provide information to the Watermaster parties on whether it is necessary or advisable to revise the Safe Yield.

Table 5-1. Summary of Observations and Conclusions

Cultural Condition (Chapter)	Main Findings	Main Conclusions
Groundwater Pumping (2)	The 2019-23 Actual Data was greater than the 2020 SYR Projection of groundwater pumping by about 5,400 afy.	The greater pumping in the 2019-23 Actual Data is not expected to result in a significantly different net recharge compared to the 2020 SYR Projection.
	The 2024 Projection for pumping is less than the 2020 SYR Projection by 1,400 afy in FY 2025 and greater than the 2020 SYR Projection by 3,900 afy in FY 2030.	The differences between the 2024 Projection and the 2020 SYR Projection for groundwater pumping are not expected to result in a significantly different net recharge compared to the 2020 SYR Projection.
	Some of the areas where the 2024 Projection for groundwater pumping is greater than the 2020 SYR Projection overlie the Northwest MZ-1 Area of Subsidence Concern where Watermaster is currently developing a subsidence management plan.	The differences between the 2024 Projection for groundwater pumping and the 2020 SYR Projection in the Northwest MZ-1 Area of Subsidence Concern indicate the potential for an increased risk of future land subsidence.
Urban Outdoor Water Use (3)	The 2020 SYR Projection exceeds the 2019-23 Actual Data for urban outdoor water use by 21,100 afy.	The differences between the 2019-23 Actual Data and the 2020 SYR Projection suggest that DIPAW to the vadose zone may be about 4,000 to 8,000 afy less than the 2020 SYR Projection over this period. The cumulative impact of these differences and likely future patterns may materially impact the DIPAW to the saturated zone, potentially resulting in average net recharge over the current decade falling below the current Safe Yield.
	Based on the available information on future patterns of urban outdoor water use and the 2019-23 Actual Data, it is likely that future patterns of urban outdoor water use will be less than the 2020 SYR Projection.	
Managed Recharge (4)	2019-23 Actual Data was greater than the 2020 SYR Projection for managed recharge in MZ-1 by about 4,000 afy.	The greater volumes of managed recharge in the 2019-23 Actual Data compared to the 2020 SYR Projection in MZ-1 can help support groundwater levels in this area and help mitigate the occurrence of land subsidence.
	2019-23 Actual Data was about the same as the 2020 SYR Projection for stormwater recharge in the Chino Basin, averaging about 11,200 afy.	Differences in stormwater recharge between the 2019-23 Actual Data and the 2020 SYR Projection are to be expected because (i) precipitation and runoff are highly variable and (ii) the projections are based on long-term expected average hydrology adjusted for climate change. Over longer time periods, actual stormwater recharge should become approximately equal to the projections. The greater-than-average stormwater recharge during the wet years of FY 2019 and FY 2023 offset the less-than-average stormwater recharge during the dry years of FY 2020 through 2022.
	The 2024 Projection for stormwater recharge is less than the 2020 SYR Projection by about 900 afy.	Due to the delays in the implementation of two recharge projects identified in the 2013 RMPU, the 2024 Projection for stormwater recharge is about 13,400 afy, about 900 afy less than the 2020 SYR Projection over the period of FY 2024 through 2030.
Cumulative Impact	**Based on 2019-23 Actual Data and the 2024 Projection for groundwater production and managed recharge, the 2024 Projection for Managed Storage is 14,000 af less than the 2020 SYR Projection for Managed Storage at the end of FY 2030.**	**The 2019-23 Actual Data and 2024 Projection for Managed Storage do not indicate the potential for net recharge to be significantly different than the current Safe Yield.**
		The cumulative impact of differences between the 2020 SYR Projection and the 2019-23 Actual Data/2024 Projection may materially impact the DIPAW and stormwater recharge to the saturated zone, potentially resulting in average net recharge over the current decade falling below the current Safe Yield by more than 2.5 percent.
		The 2024 Projection for groundwater pumping indicates the potential for undesirable results related to increased risk of new land subsidence in Northwest MZ-1 that was not identified in the 2020 SYR.

Table 5-2. Projected Groundwater Pumping, Pumping Rights, Replenishment and End-of-Year Volume in Managed Storage – 2019-23 Actual Data and 2024 Projection

FY	2024 Projection Groundwater Production[a]	Pumping Rights				Net Replenishment Obligation[c]	Replenishment from Storage[d]	Replenishment with Wet-Water Recharge	Net Change in DYYP Storage Account Balance	End-of-Year Managed Storage[e]
		Safe Yield[b]	Reoperation Water Use to Offset the Desalter Replenishment Obligation	Recycled Water Recharge	Total					
(1)	(2)	(3)	(4)	(5)	(6) = (3)+(4)+(5)	(7) = (2)-(6)	(8)	(9)	(10)	$(11)_t = (11)_{t-1} - (7)_t + (9)_t + (10)_t$
2019									-	549,243
2020									(8)	587,806
2021									(23,032)	589,875
2022									(22,929)	586,310
2023									7,939	626,752
2024	141,546	131,000	12,500	16,420	159,920	(18,374)	0	0	0	645,126
2025	148,891	131,000	12,500	16,420	159,920	(11,029)	0	0	0	656,155
2026	150,929	131,000	5,000	16,420	152,420	(1,491)	0	0	0	657,645
2027	153,036	131,000	5,000	16,420	152,420	616	555	62	0	657,091
2028	155,207	131,000	5,000	16,420	152,420	2,787	2,508	279	0	654,582
2029	157,431	131,000	5,000	16,420	152,420	5,011	4,510	501	0	650,072
2030	159,703	131,000	5,000	16,420	152,420	7,283	6,555	728	0	643,517

(a) -- Equals projected groundwater pumping plus projected Voluntary Agreements for Pool 1 producers.

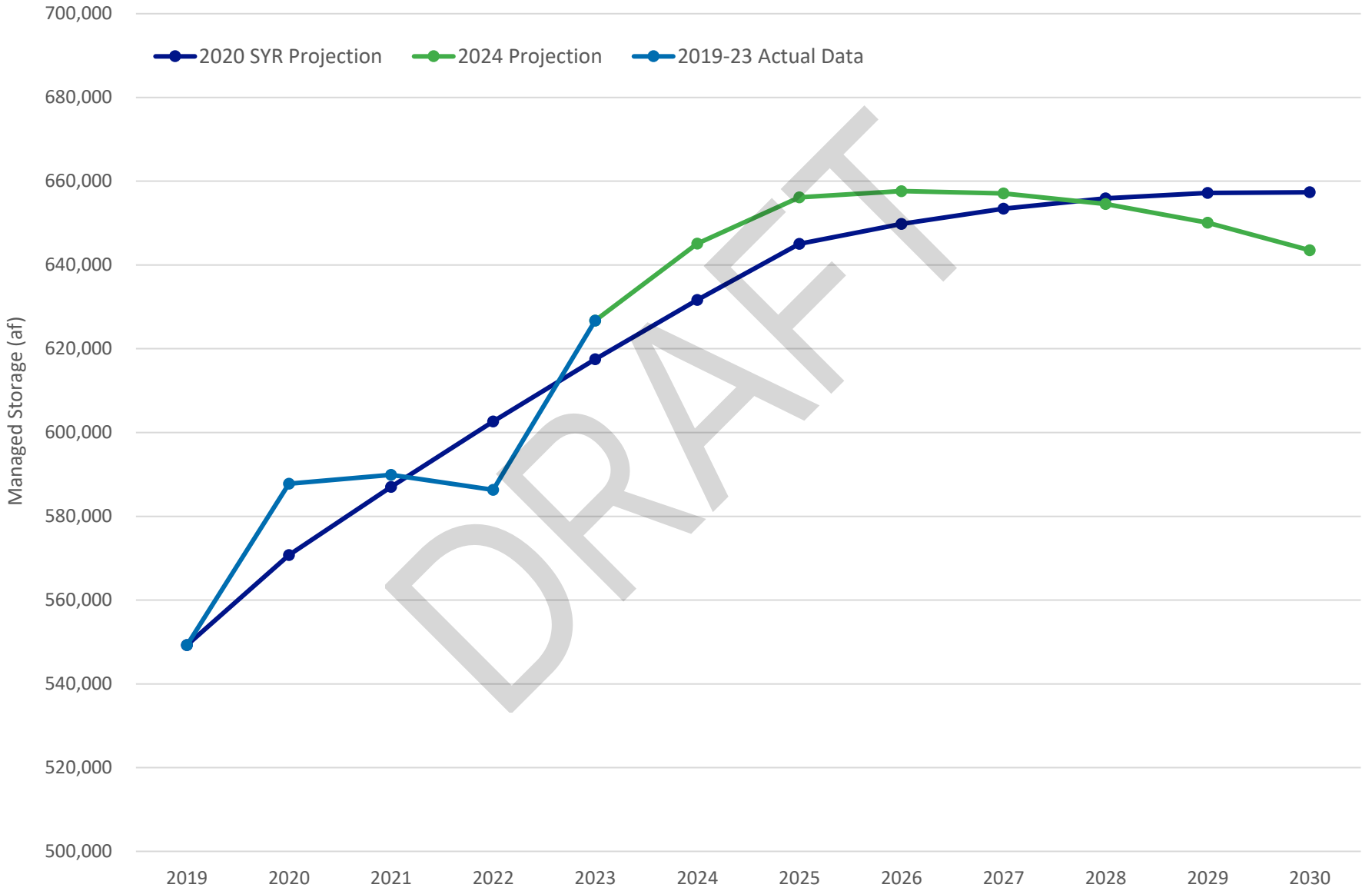
(b) -- Safe yield estimate from net recharge estimated in the 2020 SYR Report.

(c) -- Negative values mean aggregate underproduction and an increase in stored water accounts.

(d) -- 90 percent of a positive replenishment obligation is satisfied from storage and 10 percent is satisfied by wet-water recharge.

(e) -- Includes the DYYP storage account balance. Values through FY 2023 are actual values based on Watermaster's Assessment Packages.

Figure 5-1. Comparison of 2019-23 Actual Data and Projected Managed Storage in the Chino Basin, FY 2019-2030



Appendix A

Metering and Reporting of Groundwater Pumping for FY 2023

Appendix A responds to the requirement of the 2017 Court Order that Watermaster must "[e]nsure that, unless a Party to the Judgment is excluded from reporting, all production by all Parties to the Judgment is metered, reported, and reflected in Watermaster's approved Assessment Packages." (2017 Court Order, p. 16). This chapter characterizes the wells in the Chino Basin for FY 2023, including descriptions of wells that were added or went out of service in the reporting year and information on wells that are not metered.

Chino Basin Production Wells in FY 2023

Watermaster staff maintains a database of wells and groundwater pumping data, which is updated on a quarterly basis. Metered pumping data are collected from most Chino Basin Parties who pump more than 10 afy (a Minimal Producer as defined in the Judgment pumps less than 10 afy[1]). In some cases, metered pumping data are unavailable due to lack of access to the meter, a broken meter, or for other reasons. For wells where no metered data are available, Watermaster staff applies a water duty method to estimate the quarterly pumping. The water duty method is based on such factors as: irrigated area; crop type; irrigation efficiency; livestock populations; number of domestic users; or other factors. The water duty method is currently being documented and will be included in a future report.

Figure A-1 shows all active pumping wells in the Chino Basin during FY 2023. These wells are symbolized by meter status, wells owned by Minimal Producers, and FY 2023 Production. There were 458 wells that were active during FY 2023, as summarized below in Table A-1.

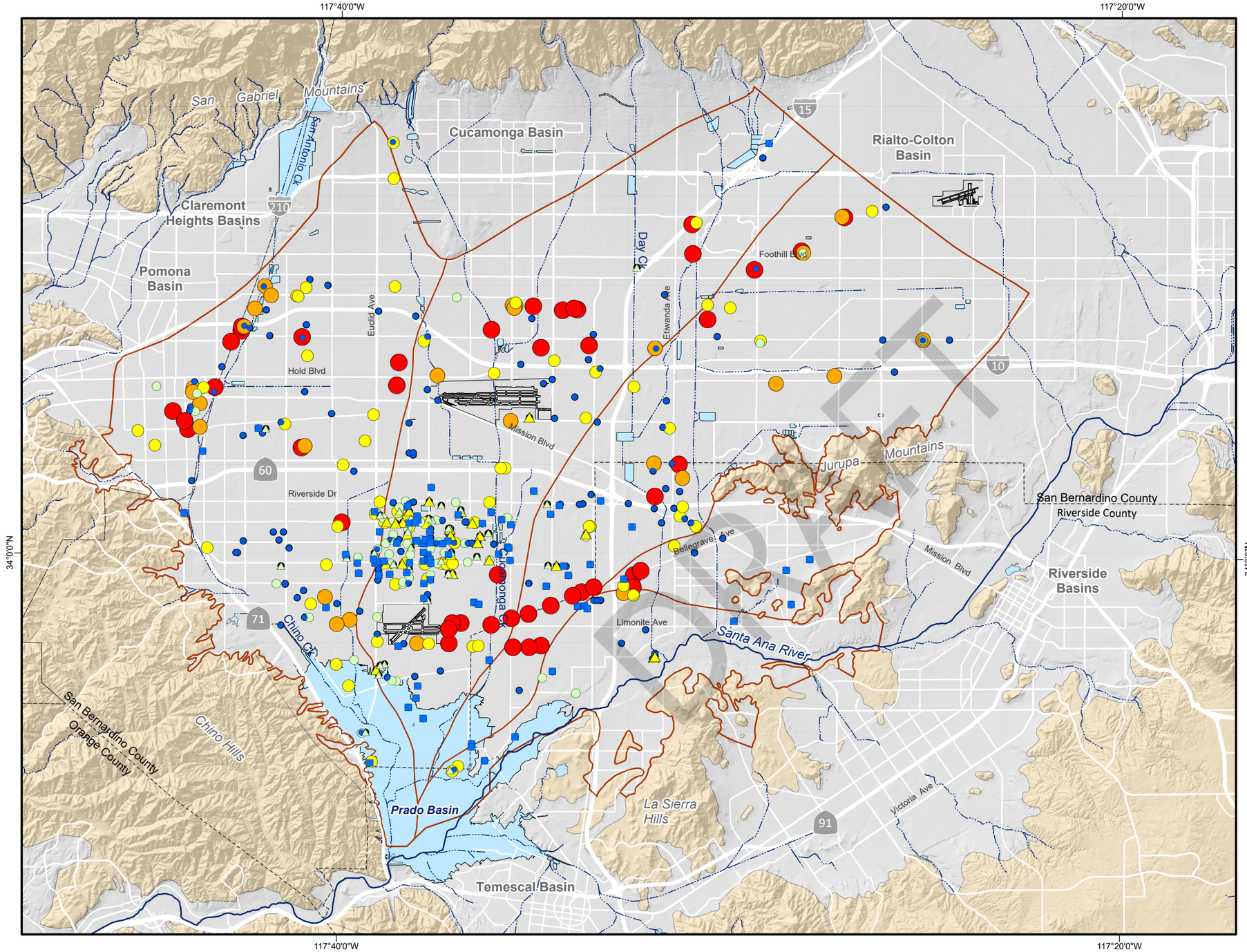
Table A-1. Summary of Pumping Wells in the Chino Basin in FY 2023

Well Category	Number of Wells Meeting Criteria in FY 2023	Total FY 2023 Production[(a)]
Well Status		
Active for entire year	440	122,321
Brought online in FY 2023	2	5,281
Decommissioned in FY 2023	16	34
Meter Status		
Metered	316	123,822
Unmetered, Non-Minimal Producer	57	3,564
Minimal Producer	85	250
Total	**458**	**127,636**

(a) Includes pumping from General Electric's wells, not accounting for injection.

Table A-2 includes a comprehensive list of the active wells in Watermaster's database for FY 2023.

[1] Chino Basin Judgment Section I.4.j



Active Groundwater Pumping Wells in FY 2023

Measurement Method
Symbolized by shape

- Metered
- Unmetered, Non-Minimal Producer
- Unmetered, Minimal Producer

Groundwater Production in FY 2023 (af)
Symbolized by size and color

- 0 - 10
- 10 - 50
- 50 - 500
- 500 - 1,000
- > 1,000

Geology

Water-Bearing Sediments

- Quaternary Alluvium

Consolidated Bedrock

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

Hydrology

- Streams & Flood Control Channels
- Flood Control & Conservation Basins

- OBMP Management Zones

Prepared by:

WEST YOST
Water. Engineered.

Author: LS

Date: 5/3/2024

File Name: Appendix_A_GWPumpingWells.mxd

0 3 6 Miles

0 4 8 Km

Prepared for:

Chino Basin Watermaster
Data Collection and Evaluation
FY 2022/23

Active Pumping Wells in the Chino Basin by Measurement Method
FY 2023

Figure A-1

Table A-2. Pumping Wells in the Chino Basin in FY 2023

CBWM Well ID	Name	Owner[(a)]	Pool	Latitude	Longitude	New in FY 2023	Abandoned/ Destroyed in FY 2023	Metered/ Estimated	Minimal Producer (if estimated)	FY 2023 Production
0600496	Well 1	BlueTriton Brands, Inc.	3	34.04610	-117.52873	N	N	Metered	-	0.0
0600923	Well 2	BlueTriton Brands, Inc.	3	34.04583	-117.52581	N	N	Metered	-	276.6
0600487	01B	Chino Hills, City Of	3	33.98964	-117.68942	N	N	Metered	-	0.0
0600488	15B	Chino Hills, City Of	3	33.98977	-117.69319	N	N	Metered	-	25.0
0600489	16	Chino Hills, City Of	3	34.00489	-117.70742	N	N	Metered	-	0.0
0600499	17	Chino Hills, City Of	3	34.00528	-117.69218	N	N	Metered	-	0.0
0600500	19	Chino Hills, City Of	3	34.00249	-117.68788	N	N	Metered	-	0.0
0600689	05	Chino Hills, City Of	3	33.97513	-117.69114	N	N	Metered	-	0.0
3601911	01A	Chino Hills, City Of	3	33.98984	-117.68945	N	N	Metered	-	0.0
3601916	07A	Chino Hills, City Of	3	34.00071	-117.70984	N	N	Metered	-	0.0
3601917	07B	Chino Hills, City Of	3	34.00075	-117.71050	N	N	Metered	-	0.0
0600417	11	Chino, City Of	3	34.02990	-117.66045	N	N	Metered	-	0.0
0600467	12	Chino, City Of	3	34.04712	-117.69159	N	N	Metered	-	0.0
0600478	13	Chino, City Of	3	34.01168	-117.66540	N	N	Metered	-	1948.7
0600482	14	Chino, City Of	3	34.05802	-117.68165	N	N	Metered	-	0.0
0601026	16	Chino, City Of	3	34.00153	-117.64018	N	N	Metered	-	0.0
0601183	18	Chino, City Of	3	34.01473	-117.65118	N	N	Metered	-	249.1
0601194	19	Chino, City Of	3	34.01027	-117.66711	N	N	Metered	-	231.5
3601618	04	Chino, City Of	3	34.00815	-117.69029	N	N	Metered	-	0.0
3601752	05	Chino, City Of	3	34.03868	-117.68144	N	N	Metered	-	674.4
3602105	06	Chino, City Of	3	34.00812	-117.69461	N	N	Metered	-	0.0
3602666	09	Chino, City Of	3	34.03823	-117.68287	N	N	Metered	-	2317.5
3602680	10	Chino, City Of	3	34.04650	-117.68991	N	N	Metered	-	147.6
0600598	07A	City Of Upland	3	34.09555	-117.64335	N	N	Metered	-	170.6
0600659	20	City Of Upland	3	34.13393	-117.64412	N	N	Metered	-	340.2
0601070	21A	City Of Upland	3	34.09586	-117.67202	N	N	Metered	-	0.0
3600180	03	City Of Upland	3	34.09789	-117.67977	N	N	Metered	-	0.0
3600359	08	City Of Upland	3	34.09501	-117.68130	N	N	Metered	-	297.1
0600479	30	Cucamonga Valley Water District	3	34.08913	-117.59315	N	N	Metered	-	896.2
0600680	38	Cucamonga Valley Water District	3	34.08908	-117.59183	N	N	Metered	-	997.2
0600905	39	Cucamonga Valley Water District	3	34.11819	-117.51669	N	N	Metered	-	1007.7
0600906	40	Cucamonga Valley Water District	3	34.11882	-117.51485	N	N	Metered	-	462.4
0600907	41	Cucamonga Valley Water District	3	34.08814	-117.56687	N	N	Metered	-	1077.9
0600908	42	Cucamonga Valley Water District	3	34.08775	-117.56541	N	N	Metered	-	1294.0
0601033	43	Cucamonga Valley Water District	3	34.10775	-117.51630	N	N	Metered	-	2784.9
0601143	46	Cucamonga Valley Water District	3	34.08749	-117.57181	N	N	Metered	-	2111.2
3600475	04	Cucamonga Valley Water District	3	34.09005	-117.59178	N	N	Metered	-	130.1
3601174	01	Cucamonga Valley Water District	3	34.08816	-117.59241	N	N	Metered	-	674.7
3601373	03	Cucamonga Valley Water District	3	34.08448	-117.58492	N	N	Metered	-	0.0
3602000	05	Cucamonga Valley Water District	3	34.08881	-117.58426	N	N	Metered	-	2067.6
0300258	Chino I #06	Desalter Authority	3	33.96790	-117.60924	N	N	Metered	-	422.5
0300259	Chino I #07	Desalter Authority	3	33.96823	-117.60689	N	N	Metered	-	146.5
0300454	Chino I #13	Desalter Authority	3	33.96769	-117.59213	N	N	Metered	-	1268.4
0300455	Chino I #14	Desalter Authority	3	33.96773	-117.58522	N	N	Metered	-	2579.3
0300456	Chino I #15	Desalter Authority	3	33.96839	-117.58024	N	N	Metered	-	2726.2
0300457	Chino II #01	Desalter Authority	3	33.98256	-117.57614	N	N	Metered	-	2650.1
0300458	Chino II #04	Desalter Authority	3	33.98917	-117.55785	N	N	Metered	-	2575.2
0300460	Chino II #06	Desalter Authority	3	33.99355	-117.54086	N	N	Metered	-	1995.4
0300461	Chino II #07	Desalter Authority	3	33.98931	-117.54111	N	N	Metered	-	1402.8
0300462	Chino II #08	Desalter Authority	3	33.98639	-117.54091	N	N	Metered	-	455.6
0300463	Chino II #09A	Desalter Authority	3	33.99515	-117.53782	N	N	Metered	-	1860.9
0300590	Chino II #10	Desalter Authority	3	33.97958	-117.58559	N	N	Metered	-	2479.2

Table A-2. Pumping Wells in the Chino Basin in FY 2023

CBWM Well ID	Name	Owner[(a)]	Pool	Latitude	Longitude	New in FY 2023	Abandoned/ Destroyed in FY 2023	Metered/ Estimated	Minimal Producer (if estimated)	FY 2023 Production
0600648	Chino I #01	Desalter Authority	3	33.97821	-117.65016	N	N	Metered	-	10.7
0600649	Chino I #02	Desalter Authority	3	33.97209	-117.65005	N	N	Metered	-	0.0
0600650	Chino I #03	Desalter Authority	3	33.96940	-117.65003	N	N	Metered	-	117.4
0600651	Chino I #04	Desalter Authority	3	33.96877	-117.63872	N	N	Metered	-	0.0
0600652	Chino I #05	Desalter Authority	3	33.96894	-117.61948	N	N	Metered	-	1453.8
0600653	Chino I #08	Desalter Authority	3	33.97392	-117.61962	N	N	Metered	-	1138.6
0600654	Chino I #09	Desalter Authority	3	33.97621	-117.61804	N	N	Metered	-	1381.1
0600655	Chino I #10	Desalter Authority	3	33.97624	-117.61441	N	N	Metered	-	1635.0
0600656	Chino I #11	Desalter Authority	3	33.97557	-117.60145	N	N	Metered	-	1153.3
0600925	Chino II #02	Desalter Authority	3	33.98616	-117.56675	N	N	Metered	-	2316.3
0600926	Chino II #03	Desalter Authority	3	33.98738	-117.56299	N	N	Metered	-	2963.5
0601108	Chino I #16	Desalter Authority	3	33.96121	-117.66746	N	N	Metered	-	244.6
0601121	Chino I #17	Desalter Authority	3	33.96285	-117.65982	N	N	Metered	-	43.9
0601145	Chino I #20	Desalter Authority	3	33.96889	-117.63306	N	N	Metered	-	625.8
0601146	Chino I #21	Desalter Authority	3	33.96889	-117.62806	N	N	Metered	-	304.4
0601197	Chino II #11	Desalter Authority	3	33.97792	-117.59291	N	N	Metered	-	2782.8
0601202	Chino II #12	Desalter Authority	3	33.99344	-117.59881	Y	N	Metered	-	3063.3
0600486	F17B	Fontana Water Company	3	34.07699	-117.48725	N	N	Metered	-	110.1
0600490	F07A	Fontana Water Company	3	34.10260	-117.48924	N	N	Metered	-	4.7
0600492	F23A	Fontana Water Company	3	34.06468	-117.45567	N	N	Metered	-	754.5
0600502	F24A	Fontana Water Company	3	34.12319	-117.43991	N	N	Metered	-	368.2
0600504	F26A	Fontana Water Company	3	34.12465	-117.43399	N	N	Metered	-	7.4
0600562	F17C	Fontana Water Company	3	34.07616	-117.48746	N	N	Metered	-	18.1
0600696	F44A	Fontana Water Company	3	34.10828	-117.46915	N	N	Metered	-	671.4
0600697	F44B	Fontana Water Company	3	34.10816	-117.46922	N	N	Metered	-	11.7
0600698	F44C	Fontana Water Company	3	34.10883	-117.46989	N	N	Metered	-	1705.9
0601035	F07B	Fontana Water Company	3	34.10219	-117.48997	N	N	Metered	-	1581.7
0601181	F21B	Fontana Water Company	3	34.06179	-117.48052	N	N	Metered	-	756.0
0601203	F31B	Fontana Water Company	3	34.12095	-117.45166	Y	N	Metered	-	2217.6
3600584	F31A	Fontana Water Company	3	34.12111	-117.45265	N	N	Metered	-	513.8
0601182	2	Golden State Water Company	3	34.08100	-117.70764	N	N	Metered	-	921.7
3601764	1	Golden State Water Company	3	34.08138	-117.70753	N	N	Metered	-	0.0
0300114	HighSchool	Jurupa Community Services District	3	34.00392	-117.52367	N	N	Metered	-	91.7
0300188	W11	Jurupa Community Services District	3	34.01214	-117.51647	N	N	Metered	-	0.0
0300190	W12	Jurupa Community Services District	3	34.01372	-117.51934	N	N	Metered	-	0.0
0300200	W13	Jurupa Community Services District	3	34.03299	-117.52184	N	N	Metered	-	1356.9
0300202	W15	Jurupa Community Services District	3	34.01785	-117.52005	N	N	Metered	-	154.0
0300204	W14	Jurupa Community Services District	3	34.01740	-117.52386	N	N	Metered	-	6.1
0300205	W16	Jurupa Community Services District	3	34.01454	-117.52128	N	N	Metered	-	476.3
0300206	W24 (GA 6)	Jurupa Community Services District	3	34.00682	-117.50299	N	N	Metered	-	0.0
0300207	W17	Jurupa Community Services District	3	34.02814	-117.52025	N	N	Metered	-	991.1
0300208	W18	Jurupa Community Services District	3	34.02334	-117.52146	N	N	Metered	-	0.0
0300262	W40	Jurupa Community Services District	3	33.95696	-117.57962	N	N	Metered	-	37.9
0300263	W41	Jurupa Community Services District	3	33.95245	-117.58939	N	N	Metered	-	4.7
0300264	W22	Jurupa Community Services District	3	34.02435	-117.52742	N	N	Metered	-	0.5
0300267	W23	Jurupa Community Services District	3	34.01221	-117.52910	N	N	Metered	-	0.0
0300268	W25	Jurupa Community Services District	3	34.02153	-117.53196	N	N	Metered	-	3605.2
0300269	W42	Jurupa Community Services District	3	33.96936	-117.54593	N	N	Metered	-	0.0
0300582	W27	Jurupa Community Services District	3	34.01725	-117.53225	N	N	Metered	-	0.0
0300583	W28	Jurupa Community Services District	3	34.01898	-117.54329	N	N	Metered	-	0.0
3301743	W06	Jurupa Community Services District	3	34.03321	-117.52472	N	N	Metered	-	0.0
3301895	W08	Jurupa Community Services District	3	34.01097	-117.51439	N	N	Metered	-	202.3

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CBWM Well ID	Name	Owner[(a)]	Pool	Latitude	Longitude	New in FY 2023	Abandoned/ Destroyed in FY 2023	Metered/ Estimated	Minimal Producer (if estimated)	FY 2023 Production
3302030	W19	Jurupa Community Services District	3	34.03322	-117.53251	N	N	Metered	-	594.9
3302031	W20	Jurupa Community Services District	3	34.03060	-117.53283	N	N	Metered	-	0.0
0601091	6	Marygold Mutual Water Company	3	34.07743	-117.41788	N	N	Metered	-	540.8
0601092	7	Marygold Mutual Water Company	3	34.07734	-117.41792	N	N	Metered	-	19.0
3600194	3	Marygold Mutual Water Company	3	34.07748	-117.41796	N	N	Metered	-	0.0
3600195	2	Marygold Mutual Water Company	3	34.07746	-117.43509	N	N	Metered	-	0.0
3600196	4	Marygold Mutual Water Company	3	34.07754	-117.40667	N	N	Metered	-	0.0
0600415	19	Monte Vista Water District	3	34.07947	-117.70883	N	N	Metered	-	1611.3
0600674	27 (MVWD/CH)	Monte Vista Water District	3	34.09203	-117.68536	N	N	Metered	-	470.0
0600675	26 (MVWD/CH)	Monte Vista Water District	3	34.08751	-117.70307	N	N	Metered	-	885.4
0600684	28 (MVWD/CH)	Monte Vista Water District	3	34.08101	-117.70866	N	N	Metered	-	1535.5
0601029	30 (MVWD/CH)	Monte Vista Water District	3	34.07740	-117.68286	N	N	Metered	-	1024.4
0601068	32 (MVWD/CH)	Monte Vista Water District	3	34.07082	-117.68053	N	N	Metered	-	238.1
0601071	31	Monte Vista Water District	3	34.09534	-117.69883	N	N	Metered	-	909.0
0601072	33 (MVWD/CH)	Monte Vista Water District	3	34.08178	-117.68112	N	N	Metered	-	0.0
0601104	34 (MVWD/CH)	Monte Vista Water District	3	34.08047	-117.70530	N	N	Metered	-	0.0
3601357	04 (MVWD/CH)	Monte Vista Water District	3	34.09192	-117.68471	N	N	Metered	-	271.0
3601358	05	Monte Vista Water District	3	34.09214	-117.69618	N	N	Metered	-	541.5
3601359	06	Monte Vista Water District	3	34.08698	-117.69828	N	N	Metered	-	0.0
3601362	09	Monte Vista Water District	3	34.07719	-117.68274	N	N	Metered	-	0.0
3601363	10	Monte Vista Water District	3	34.07781	-117.69670	N	N	Metered	-	0.0
0600683	Concours #1	Niagara Bottling, LLC	3	34.07409	-117.53185	N	N	Metered	-	0.0
0600909	Concours #2	Niagara Bottling, LLC	3	34.07410	-117.53225	N	N	Metered	-	530.5
0600910	Philadelphia #1	Niagara Bottling, LLC	3	34.03126	-117.59779	N	N	Metered	-	433.1
0601034	Philadelphia #2	Niagara Bottling, LLC	3	34.03132	-117.59588	N	N	Metered	-	437.7
0600420	ELEC/IRR	No Longer Ag Owner	3	34.01880	-117.56272	N	N	Metered	-	0.0
0300172	09 W	Norco, City Of	3	33.98458	-117.55773	N	N	Metered	-	0.0
0300173	10 E	Norco, City Of	3	33.98460	-117.55490	N	N	Metered	-	0.0
0300199	11 M	Norco, City Of	3	33.98459	-117.55629	N	N	Metered	-	0.0
0600453	29	Ontario, City Of	3	34.06498	-117.60088	N	N	Metered	-	377.5
0600454	30	Ontario, City Of	3	34.06047	-117.54113	N	N	Metered	-	344.6
0600455	31	Ontario, City Of	3	34.05553	-117.52732	N	N	Metered	-	0.6
0600476	34	Ontario, City Of	3	34.04714	-117.63707	N	N	Metered	-	0.0
0600493	35	Ontario, City Of	3	34.06049	-117.64231	N	N	Metered	-	4121.5
0600494	36	Ontario, City Of	3	34.04808	-117.59369	N	N	Metered	-	706.6
0600551	37	Ontario, City Of	3	34.06563	-117.55756	N	N	Metered	-	139.3
0600585	38	Ontario, City Of	3	34.07412	-117.58091	N	N	Metered	-	1002.8
0600690	39	Ontario, City Of	3	34.06678	-117.55580	N	N	Metered	-	0.0
0600920	41	Ontario, City Of	3	34.08042	-117.60208	N	N	Metered	-	2624.8
0600922	40	Ontario, City Of	3	34.06408	-117.62501	N	N	Metered	-	646.6
0600956	50	Ontario, City Of	3	34.01861	-117.56416	N	N	Metered	-	0.0
0601011	42	Ontario, City Of	3	34.07001	-117.56065	N	N	Metered	-	0.0
0601012	43	Ontario, City Of	3	34.06140	-117.57978	N	N	Metered	-	0.0
0601013	44	Ontario, City Of	3	34.07620	-117.63090	N	N	Metered	-	109.8
0601014	45	Ontario, City Of	3	34.06861	-117.64156	N	N	Metered	-	2897.3
0601015	46	Ontario, City Of	3	34.09188	-117.61700	N	N	Metered	-	19.8
0601016	47	Ontario, City Of	3	34.07502	-117.56038	N	N	Metered	-	3545.1
0601017	48	Ontario, City Of	3	34.04907	-117.57501	N	N	Metered	-	0.0
0601018	49	Ontario, City Of	3	34.04928	-117.56161	N	N	Metered	-	200.6
0601019	51	Ontario, City Of	3	34.05670	-117.56641	N	N	Metered	-	0.0
0601099	52	Ontario, City Of	3	34.07776	-117.62941	N	N	Metered	-	0.2
3600010	25	Ontario, City Of	3	34.06819	-117.58953	N	N	Metered	-	0.0

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CBWM Well ID	Name	Owner[(a)]	Pool	Latitude	Longitude	New in FY 2023	Abandoned/ Destroyed in FY 2023	Metered/ Estimated	Minimal Producer (if estimated)	FY 2023 Production
3600012	26	Ontario, City Of	3	34.06290	-117.57604	N	Y	Metered	-	0.0
3601777	09	Ontario, City Of	3	34.08678	-117.65033	N	N	Metered	-	0.0
3601778	11	Ontario, City Of	3	34.05527	-117.62481	N	Y	Metered	-	0.0
3601952	27	Ontario, City Of	3	34.04786	-117.55677	N	N	Metered	-	0.0
3602051	15	Ontario, City Of	3	34.05028	-117.67009	N	Y	Metered	-	0.0
3602107	17	Ontario, City Of	3	34.05902	-117.62932	N	Y	Metered	-	0.0
3602267	20	Ontario, City Of	3	34.07894	-117.55863	N	N	Metered	-	0.0
3602457	24	Ontario, City Of	3	34.06951	-117.57521	N	N	Metered	-	196.3
1901715	06	Pomona, City Of	3	34.05767	-117.72935	N	N	Metered	-	778.4
1901719	10	Pomona, City Of	3	34.05938	-117.71993	N	N	Metered	-	1399.3
1901722	14	Pomona, City Of	3	34.05093	-117.73063	N	N	Metered	-	0.0
1901723	15	Pomona, City Of	3	34.05081	-117.72825	N	N	Metered	-	27.5
1901724	16	Pomona, City Of	3	34.05707	-117.72751	N	N	Metered	-	20.9
1901725	17	Pomona, City Of	3	34.05364	-117.72629	N	N	Metered	-	842.6
1901726	18	Pomona, City Of	3	34.05227	-117.73018	N	N	Metered	-	0.0
1902804	21	Pomona, City Of	3	34.04384	-117.75269	N	N	Metered	-	389.4
1902875	23	Pomona, City Of	3	34.04742	-117.73269	N	N	Metered	-	1100.6
1903016	02	Pomona, City Of	3	34.05926	-117.72471	N	N	Metered	-	425.2
1903063	25	Pomona, City Of	3	34.04444	-117.73130	N	N	Metered	-	1397.6
1903079	26	Pomona, City Of	3	34.04525	-117.72620	N	N	Metered	-	580.4
1903113	27	Pomona, City Of	3	34.07560	-117.71319	N	N	Metered	-	1122.3
1903126	29	Pomona, City Of	3	34.02615	-117.72956	N	N	Metered	-	0.0
1903156	30	Pomona, City Of	3	34.06670	-117.71703	N	N	Metered	-	0.0
1904001	34	Pomona, City Of	3	34.05784	-117.72029	N	N	Metered	-	0.0
1904002	35	Pomona, City Of	3	34.06122	-117.72865	N	N	Metered	-	0.0
1904003	36	Pomona, City Of	3	34.05075	-117.73778	N	N	Metered	-	1152.9
1904004	05B	Pomona, City Of	3	34.05903	-117.72909	N	N	Metered	-	960.3
0600589	San Antonio 16	San Antonio Water Company	3	34.14668	-117.64440	N	N	Metered	-	458.6
3601561	12	San Antonio Water Company	3	34.08508	-117.63447	N	N	Metered	-	0.0
3601563	15	San Antonio Water Company	3	34.14681	-117.64465	N	N	Metered	-	0.3
0600468	SS2	San Bernardino, County of (Shooting Park)	3	33.93701	-117.65645	N	N	Metered	-	17.6
0600469	SS1	San Bernardino, County of (Shooting Park)	3	33.93714	-117.65644	N	N	Metered	-	0.0
3300973	03	Santa Ana River Water Company	3	34.00181	-117.51507	N	N	Metered	-	0.0
3301945	01A	Santa Ana River Water Company	3	33.97421	-117.53566	N	N	Metered	-	0.0
3302078	03A	Santa Ana River Water Company	3	34.00160	-117.51502	N	N	Metered	-	0.0
0600524	#37	West Valley Water District	3	34.06611	-117.43007	N	N	Metered	-	0.0
1902353	Alt 2	ANG II (Multi) LLC	2	34.05960	-117.74483	N	N	Metered	-	25.8
0600660	INFIELD WELL	California Speedway Corporation	2	34.08862	-117.50017	N	N	Metered	-	175.0
3601364	1-Race track Use	California Speedway Corporation	2	34.08967	-117.50989	N	N	Metered	-	99.2
3601365	2	California Speedway Corporation	2	34.08448	-117.50985	N	N	Metered	-	1057.5
3601159	Deep Well No. 3	California Steel Industries, Inc.	2	34.07843	-117.50580	N	N	Metered	-	0.0
3601719		CalMat Co.	2	34.09534	-117.69936	N	N	Metered	-	0.0
0600677	EW-2	General Electric Company	2	34.05003	-117.65214	N	N	Metered	-	376.4
0600931	EW-1	General Electric Company	2	34.04059	-117.65573	N	N	Metered	-	421.6
0601093	IW-01	General Electric Company	2	34.03650	-117.63689	N	N	Metered	-	3.6
0601101	IW-02	General Electric Company	2	34.03655	-117.63518	N	N	Metered	-	3.2
0601103	IW-03	General Electric Company	2	34.03579	-117.63519	N	N	Metered	-	3.8
0601021	DOM	Riboli Family and San Antonio Winery, Inc.	2	34.02211	-117.55919	N	N	Metered	-	1.8
3600555	1	TAMCO	2	34.09322	-117.52832	N	N	Metered	-	0.0
0300021		ABG Group LLC	1	33.93598	-117.59102	N	N	Estimated	Y	3.6
0300053	offc/Indscp	Ag Pool Misc	1	33.93339	-117.60954	N	N	Estimated	Y	1.8
0300154		Ag Pool Misc	1	33.98339	-117.47364	N	N	Estimated	Y	1.8

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0300240		Ag Pool Misc	1	33.96307	-117.60223	N	N	Estimated	Y	1.8
0600029		Ag Pool Misc	1	34.00433	-117.63028	N	N	Estimated	Y	3.6
0600042	1 home/Indscp	Ag Pool Misc	1	34.01456	-117.61581	N	N	Estimated	Y	5.4
0600106	dom/5 horses	Ag Pool Misc	1	34.01160	-117.63675	N	N	Estimated	Y	3.6
0600107	Dom/Sm Nursery	Ag Pool Misc	1	34.01550	-117.65150	N	N	Estimated	Y	3.6
0600110	DOM	Ag Pool Misc	1	34.00846	-117.62788	N	N	Estimated	Y	1.8
0600114	Dom	Ag Pool Misc	1	34.01554	-117.60173	N	N	Estimated	Y	8.5
0600120		Ag Pool Misc	1	33.99373	-117.65811	N	N	Estimated	Y	5.4
0600152	MILK PROCESSING	Ag Pool Misc	1	34.03662	-117.72499	N	N	Estimated	Y	0.0
0600191	Dairy/Dom	Ag Pool Misc	1	33.99919	-117.66324	N	N	Estimated	N	28.8
0600330		Ag Pool Misc	1	33.99402	-117.63753	N	N	Estimated	Y	4.3
0600392	20-30K Chickens	Ag Pool Misc	1	34.00037	-117.62872	N	N	Estimated	Y	4.7
0600614		Ag Pool Misc	1	33.95760	-117.64926	N	N	Estimated	N	49.7
0601030		Ag Pool Misc	1	34.02320	-117.58368	N	N	Estimated	Y	2.9
0601150		Ag Pool Misc	1	33.99301	-117.64950	N	N	Estimated	Y	2.9
0601201	0	Ag Pool Misc	1	34.01463	-117.73263	N	N	Estimated	Y	7.0
0810009		Ag Pool Misc	1	34.01750	-117.63745	N	N	Estimated	Y	3.6
3600821	DAIRY	Ag Pool Misc	1	34.00453	-117.63126	N	N	Estimated	Y	2.5
3602605		Ag Pool Misc	1	34.00837	-117.64927	N	N	Estimated	Y	3.5
0600580	IRR	Ambrosia Farms	1	34.04500	-117.70130	N	N	Estimated	Y	1.8
0600618	Dom	Archibald Ranch Community Church	1	34.01124	-117.59338	N	N	Estimated	Y	4.6
0600134	IRR	Bishop Of San Bernardino Corp. Sole	1	34.02430	-117.62738	N	N	Estimated	Y	2.8
0600366		Bohlander & Holmes	1	34.00029	-117.66365	N	N	Estimated	Y	9.8
0810004	Dom	C & N Cattle	1	34.01270	-117.63299	N	N	Estimated	Y	3.6
0600528	Dairy/Dom	Central Eleven	1	34.01417	-117.63334	N	N	Estimated	Y	1.4
0600016		Crossroads Auto Dismantlers	1	34.01983	-117.55517	N	N	Estimated	Y	1.4
0300161	DOM	Galleano Winery Inc	1	34.01069	-117.54168	N	N	Estimated	Y	5.4
0600530	DOM	Grooman's Pump	1	33.95377	-117.63268	N	N	Estimated	Y	0.7
0601097	0	JLC Markets, Inc.	1	34.01303	-117.59730	N	N	Estimated	Y	3.2
0600639	Dom 300 heifers	JRJ Investments LP	1	34.00537	-117.63383	N	N	Estimated	Y	1.8
0600570		Louisa Thorsheim	1	33.99722	-117.65113	N	N	Estimated	Y	1.8
0300033		No Longer Ag Owner	1	33.95916	-117.57527	N	N	Estimated	Y	3.6
3600064	DAIRY	No Longer Ag Owner	1	33.99801	-117.64734	N	N	Estimated	Y	4.3
3602209	1 hse 11 ac nursery	No Longer Ag Owner	1	33.99813	-117.63050	N	N	Estimated	Y	1.8
0300011	PED5071	None	1	33.99555	-117.47585	N	N	Estimated	Y	1.8
0300229	DOM	None	1	33.97746	-117.49800	N	N	Estimated	Y	1.9
0600004	DOM	None	1	34.00072	-117.59846	N	N	Estimated	Y	9.8
0600011	DI	None	1	33.99868	-117.62846	N	N	Estimated	Y	5.4
0600119	Dom	None	1	33.99786	-117.65026	N	N	Estimated	Y	1.8
0600402	Dom/1 house	None	1	34.00574	-117.62974	N	N	Estimated	Y	1.8
3601097		None	1	33.99872	-117.65175	N	N	Estimated	Y	2.1
0600217	DOM	Paul A. Briano Separate Property Trust	1	34.01337	-117.62844	N	N	Estimated	N	36.0
0600222		Prologis L.P.	1	33.98357	-117.60887	N	N	Estimated	Y	0.0
0600367	Nursery	Robinson Calf Ranch	1	33.99820	-117.62290	N	N	Estimated	N	19.6
3602086	Crawford Cyn	Unitex Corporation	1	34.14701	-117.48397	N	N	Estimated	Y	0.0
0600606	DOM	Victory Baptist Church	1	33.99724	-117.65877	N	N	Estimated	Y	3.6
0300052	IRR	Goose Creek Golf Club	1	33.96426	-117.53215	N	N	Estimated	N	467.0
0300169	STN4800	Skyline Construction Services	1	33.99938	-117.46579	N	N	Estimated	Y	6.8
0300211	DOM	No Longer Ag Owner	1	33.99215	-117.54503	N	N	Estimated	Y	4.0
0300231	CMG/PTI/J&A	Orange County Flood Control District	1	33.93227	-117.60962	N	N	Estimated	Y	0.0
0300249	DOM-New	Goose Creek Golf Club	1	33.96387	-117.53263	N	N	Metered	-	2.0
0300250	#2-IRR	Goose Creek Golf Club	1	33.96577	-117.53173	N	N	Metered	-	0.0

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CBWM Well ID	Name	Owner[(a)]	Pool	Latitude	Longitude	New in FY 2023	Abandoned/ Destroyed in FY 2023	Metered/ Estimated	Minimal Producer (if estimated)	FY 2023 Production
0300571		Leal Ranches	1	33.98230	-117.56468	N	N	Estimated	Y	3.4
0300581		Goose Creek Golf Club	1	33.96474	-117.53158	N	N	Estimated	N	137.4
0300591	Raahauge	OCWD	1	33.92400	-117.61868	N	N	Estimated	N	15.0
0600002	Dom TV3	American Superior Land LLC	1	34.01193	-117.60876	N	N	Metered	-	50.6
0600003	Dairy	Ag Pool Misc	1	33.99878	-117.62773	N	N	Estimated	Y	3.6
0600006		DM Thousand Oaks	1	33.99854	-117.59360	N	N	Estimated	Y	4.9
0600010	Calves	None	1	34.00562	-117.64453	N	N	Metered	-	0.8
0600013	Dairy	LMF Development LLC	1	34.00051	-117.64513	N	N	Metered	-	29.8
0600019	Dairy/Barn	Ontario Ranch Venture LLC	1	33.99718	-117.62061	N	N	Metered	-	100.5
0600022	Domestic	Trustor Resources	1	34.00530	-117.63329	N	N	Estimated	Y	4.4
0600026	DOM	Ontario Ranch Venture LLC	1	33.99737	-117.62271	N	N	Metered	-	119.8
0600027	Dry-Dom	Ag Pool Misc	1	33.99724	-117.62476	N	N	Metered	-	47.5
0600033	Dairy	Ontario Ranch Venture LLC	1	33.99330	-117.62748	N	N	Metered	-	12.4
0600036	Dom	Legend Dairy Farms #2	1	33.99072	-117.63921	N	N	Metered	-	15.1
0600049	IRR/Dom	Ontario Christian School	1	34.03202	-117.66508	N	N	Metered	-	64.6
0600067	BACKUP	Basque American Dairy	1	34.00535	-117.62013	N	N	Estimated	Y	7.4
0600102	Dairy/Dom	Ag Pool Misc	1	34.00455	-117.61169	N	N	Metered	-	6.7
0600103	Dom	Bangma Brothers Dairy	1	34.00455	-117.61298	N	N	Metered	-	17.6
0600104	DOM	Ag Pool Misc	1	34.00552	-117.63118	N	N	Metered	-	10.9
0600115	DOM	Ag Pool Misc	1	33.99483	-117.64966	N	N	Metered	-	0.0
0600116	IRR	Ag Pool Misc	1	33.99652	-117.64952	N	N	Metered	-	7.7
0600129	DAIRY-640C	Ag Pool Misc	1	33.99375	-117.61808	N	N	Estimated	N	62.5
0600136	Dairy/Dom	Henry De Haan Dairy	1	34.00478	-117.60749	N	N	Estimated	N	54.8
0600147	DOM	G H Dairy	1	33.99713	-117.62991	N	N	Metered	-	103.3
0600148	DOM	Costa View Farmer	1	33.99228	-117.63658	N	N	Metered	-	17.2
0600150	IRR	Ag Pool Misc	1	34.00127	-117.62157	N	N	Metered	-	10.3
0600151	Dairy	Ag Pool Misc	1	34.00053	-117.61990	N	Y	Estimated	Y	0.0
0600154	DOM	Ontario, City Of	1	33.99045	-117.58558	N	N	Metered	-	0.0
0600158	Fire Logs	The Davenport Group	1	34.01261	-117.62267	N	N	Metered	-	6.1
0600171	main well	Ag Pool Misc	1	33.95942	-117.65040	N	N	Estimated	N	62.6
0600176	DAIRY-640C	Ag Pool Misc	1	34.01161	-117.64251	N	N	Estimated	N	88.1
0600179	DOM	Via Chianti Holdings LLC	1	33.99992	-117.60776	N	N	Estimated	N	34.6
0600183	DOM	No Longer Ag Owner	1	34.00444	-117.64189	N	N	Estimated	Y	1.4
0600188	Dairy/Dom	R & V Dairy	1	34.01171	-117.62990	N	N	Metered	-	97.6
0600192	Dairy/Dom	Whitegold Ventures	1	33.99197	-117.62862	N	N	Metered	-	82.7
0600193	DOM	Costa View Farmer	1	33.99543	-117.63662	N	N	Estimated	N	27.9
0600194	irr/3 ac misc plnts	Paul A. Briano Separate Property Trust	1	34.01185	-117.63941	N	N	Estimated	N	102.9
0600200	Dairy/Dom	County Of San Bernardino	1	33.98981	-117.63923	N	N	Metered	-	17.6
0600201	Dom/Irr	Hogg Brothers	1	34.01264	-117.62503	N	N	Metered	-	18.0
0600202	IRR	Ag Pool Misc	1	34.00444	-117.62227	N	N	Metered	-	0.0
0600203	DAIRY/DOM	Legend Dairy Farms #2	1	34.01149	-117.60549	N	N	Estimated	Y	7.3
0600208	DOM	Veenendaal Dairy	1	34.00774	-117.63742	N	N	Estimated	N	57.2
0600209	IRR-SCH/VYD	Link Real Estate Inc	1	34.01583	-117.61473	N	N	Estimated	N	70.7
0600212	IRR	H & R Barthelemy Dairy	1	33.95545	-117.64182	N	N	Metered	-	28.4
0600214	Dairy/IRR	H & R Barthelemy Dairy	1	33.95719	-117.63394	N	N	Metered	-	5.1
0600216	Irr/Dy	Ag Pool Misc	1	34.00964	-117.62760	N	N	Metered	-	3.0
0600223	Dairy	County Of San Bernardino	1	34.00033	-117.63619	N	N	Metered	-	23.0
0600225	DAIRY	Ag Pool Misc	1	34.00458	-117.60993	N	N	Metered	-	0.0
0600226	Dairy/Dom	Ag Pool Misc	1	33.98623	-117.62873	N	Y	Metered	-	8.8
0600228	Dairy/Dom	Costello Investment LLC	1	34.01571	-117.64091	N	N	Estimated	N	19.4
0600229	Dairy/Dom	Ag Pool Misc	1	33.96110	-117.64869	N	N	Estimated	N	10.6
0600230	Dairy	Basque American Dairy	1	34.00792	-117.61989	N	N	Metered	-	1.4

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CBWM Well ID	Name	Owner[(a)]	Pool	Latitude	Longitude	New in FY 2023	Abandoned/ Destroyed in FY 2023	Metered/ Estimated	Minimal Producer (if estimated)	FY 2023 Production
0600232	Dairy-in shed	Golden Ontario Holdings LLC	1	33.99698	-117.64429	N	N	Metered	-	12.2
0600233	Dairy	Golden Ontario Holdings LLC	1	33.99687	-117.64338	N	N	Estimated	N	25.5
0600245	Dairy/Dom	Ag Pool Misc	1	34.00472	-117.62765	N	N	Estimated	Y	6.2
0600246	IRR - 2	Calvary Church	1	33.99925	-117.65847	N	N	Metered	-	37.9
0600247	Dairy - 3	Calvary Church	1	34.00097	-117.65149	N	N	Estimated	N	28.4
0600263	Dairy	Eagle Livestock, Inc.	1	34.00823	-117.62769	N	N	Metered	-	6.6
0600272	Dairy/Dom	Ag Pool Misc	1	34.01639	-117.61471	N	N	Estimated	N	17.6
0600275	Irr	Pete Vanderham Dairy Inc	1	34.00951	-117.61930	N	N	Estimated	N	78.7
0600276	Dairy/Dom	Pete Vanderham Dairy Inc	1	34.00730	-117.61895	N	N	Estimated	N	69.8
0600284	Dairy/Dom	Whitegold Ventures	1	34.01169	-117.63404	N	N	Estimated	Y	2.5
0600301	Dairy/Dom	Ag Pool Misc	1	34.00430	-117.60060	N	N	Metered	-	4.5
0600327		Manalisco Growers	1	34.01720	-117.64094	N	N	Metered	-	12.9
0600337	Dairy/Dom	No Longer Ag Owner	1	33.99661	-117.56970	N	N	Metered	-	6.8
0600341	IRR	Bollema Dairy	1	34.00492	-117.62396	N	N	Metered	-	23.7
0600342	Dairy/Dom	Bollema Dairy	1	34.00449	-117.62491	N	N	Metered	-	0.0
0600345	DOM	Ag Pool Misc	1	34.00413	-117.63743	N	N	Metered	-	35.5
0600358	DOM	Ag Pool Misc	1	34.00244	-117.62753	N	N	Metered	-	10.7
0600370	Dairy/IRR	Ag Pool Misc	1	33.99868	-117.60246	N	N	Estimated	N	122.5
0600372	Dairy/Dom	Roseville Investments LLC	1	33.99685	-117.57739	N	N	Estimated	N	19.0
0600391	Lake Dischg	El Prado Golf Course	1	33.95373	-117.66208	N	N	Metered	-	209.9
0600397	Dairy	Dunnigan Ranch LLC	1	33.99672	-117.57382	N	N	Estimated	N	136.7
0600400	GAS/ BCKUP	No Longer Ag Owner	1	34.01859	-117.57237	N	N	Metered	-	0.0
0600404	DOM	Legend Dairy Farms #2	1	34.01914	-117.60251	N	N	Metered	-	194.1
0600418	IRR-25P	Ag Pool Misc	1	34.01190	-117.64391	N	N	Metered	-	10.3
0600419	1500C	No Longer Ag Owner	1	34.01811	-117.57267	N	N	Estimated	Y	5.4
0600422	GH #2	Joseph A. Borba Trust	1	33.98991	-117.64244	N	N	Metered	-	120.6
0600429	DAIRY-400C	Haringa Farms	1	33.98421	-117.62865	N	Y	Estimated	N	18.4
0600432	Dairy/Dom	Bas Van Dam & Sons Dairy	1	33.98947	-117.57807	N	Y	Estimated	Y	0.0
0600438	Dairy/Dom	Legend Dairy Farms #2	1	34.01446	-117.64947	N	N	Metered	-	0.0
0600444	DOM	Ag Pool Misc	1	34.00975	-117.61904	N	N	Metered	-	0.0
0600446	Dairy/Dom	Falloncrest Farms	1	34.00531	-117.64330	N	N	Estimated	N	44.4
0600447	Dairy	Basque American Dairy	1	34.00530	-117.62009	N	N	Metered	-	0.0
0600459	Dairy - 1	Coelho Dairy	1	34.00050	-117.61896	N	N	Estimated	N	83.8
0600460	IRR - 2	Coelho Dairy	1	34.00130	-117.61863	N	N	Estimated	N	31.9
0600461	Dairy/Dom-North	Heims Pride Dairy	1	34.00980	-117.61986	N	N	Estimated	N	34.4
0600462	Office Bldg	Unitex Corporation	1	34.14195	-117.48666	N	N	Metered	-	0.1
0600470	PARKS DEPT 2	San Bernardino County Regional Parks	1	33.93725	-117.65477	N	N	Estimated	N	30.7
0600472	DOM-2 homes	No Longer Ag Owner	1	33.99730	-117.55943	N	N	Estimated	Y	1.5
0600481	DOM	No Longer Ag Owner	1	33.99144	-117.62752	N	N	Estimated	Y	3.6
0600503	DOM-#1 West	Ag Pool Misc	1	34.00481	-117.61742	N	N	Metered	-	0.0
0600508	Dairy-#2	Ag Pool Misc	1	34.00726	-117.60653	N	N	Estimated	N	90.9
0600519	DAIRY	SD Farms II	1	34.01171	-117.64714	N	N	Metered	-	229.1
0600531	HOUSE	Ag Pool Misc	1	34.00536	-117.64376	N	N	Metered	-	0.0
0600532		Ag Pool Misc	1	33.99868	-117.60222	N	N	Metered	-	10.9
0600540	DAIRY/DOM	None	1	34.00571	-117.64100	N	N	Metered	-	6.8
0600542	DOM	Lizze Custom Processing	1	33.95676	-117.64558	N	N	Metered	-	7.6
0600544	DAIRY/DOM	Marquez Dairy	1	33.95562	-117.64363	N	N	Metered	-	10.7
0600559	Nursery/crops	Ag Pool Misc	1	34.01265	-117.62690	N	N	Estimated	N	37.6
0600575		Ag Pool Misc	1	34.01333	-117.64775	N	N	Metered	-	30.3
0600608	4	State Of CA/CIW	1	33.94618	-117.63661	N	Y	Estimated	Y	0.0
0600616	Dairy/Dom	Basque American Dairy	1	34.00654	-117.62755	N	N	Metered	-	7.2
0600620		No Longer Ag Owner	1	33.99664	-117.57073	N	N	Estimated	Y	0.7

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0600622	Dairy/Dom	Ag Pool Misc	1	34.01208	-117.61227	N	N	Metered	-	0.0
0600623	Dom	None	1	33.94223	-117.63020	N	N	Estimated	Y	1.4
0600632	IRR	Barth Farms	1	34.01379	-117.59471	N	N	Metered	-	15.8
0600634	8Ac/Nursery	Falloncrest Farms	1	33.99128	-117.64996	N	N	Metered	-	6.9
0600661	DAIRY	Ag Pool Misc	1	34.00435	-117.62235	N	N	Estimated	Y	2.5
0600664	DOM	OCWD	1	33.92411	-117.61697	N	N	Metered	-	0.0
0600679		No Longer Ag Owner	1	33.96781	-117.64105	N	Y	Estimated	Y	0.0
0600691	CIM 14	State Of CA CIM	1	33.97792	-117.68103	N	N	Metered	-	0.0
0600692	CIM 15	State Of CA CIM	1	33.97791	-117.67903	N	N	Metered	-	40.4
0600694	CIM 16	State Of CA CIM	1	33.98511	-117.67242	N	N	Metered	-	596.7
0600695		De Groot Family Trust	1	33.99712	-117.63948	N	N	Estimated	N	107.5
0600921		G H Dairy	1	33.92539	-117.61528	N	N	Metered	-	399.2
0600924	0	Kellogg Supply	1	34.00477	-117.61726	N	N	Metered	-	59.4
0601022	Bldg A East	Fuji Natural Foods	1	34.01081	-117.55938	N	N	Metered	-	197.9
0601023	Bldg A West	Fuji Natural Foods	1	34.01079	-117.55999	N	N	Metered	-	195.3
0601024	Bldg B North	Fuji Natural Foods	1	34.00804	-117.56133	N	N	Estimated	N	104.6
0601025	Bldg B South	Fuji Natural Foods	1	34.00719	-117.56133	N	N	Metered	-	48.5
0601031		Manalisco Growers	1	34.00117	-117.63051	N	Y	Estimated	Y	0.0
0601032		None	1	34.04329	-117.69954	N	N	Metered	-	0.0
0601067	0	None	1	34.04236	-117.70779	N	N	Metered	-	7.8
0601094		None	1	34.04481	-117.69812	N	N	Estimated	N	19.6
0601102	0	The Root 66 Garden	1	34.10281	-117.54016	N	N	Estimated	N	17.5
0601112		Ag Pool Misc	1	34.01580	-117.63673	N	N	Estimated	N	57.1
0601114		None	1	33.98290	-117.60676	N	N	Estimated	Y	1.8
0601122	PT IRR	Hogg Brothers	1	34.01397	-117.61535	N	N	Estimated	N	40.5
0601126	0	TDN Land Company	1	33.99615	-117.69125	N	N	Estimated	N	21.4
0601127		San Bernardino County Regional Parks	1	33.92635	-117.65288	N	N	Estimated	Y	1.9
0601128		San Bernardino County Regional Parks	1	33.92688	-117.65204	N	N	Metered	-	102.6
0601149		None	1	34.01495	-117.57642	N	Y	Estimated	Y	0.0
0601170	West Irr	Artesia Sawdust Products Inc.	1	34.00813	-117.60302	N	N	Estimated	N	13.6
0601171	East Irr	Artesia Sawdust Products Inc.	1	34.00814	-117.60280	N	N	Estimated	N	13.6
1902981	IRR	Pomona Cemetery Association	1	34.03870	-117.74535	N	N	Metered	-	135.0
3300195	D-1	Ag Pool Misc	1	33.95155	-117.56524	N	N	Metered	-	22.3
3300749	E/IRR-road	Leal Ranches	1	33.98251	-117.56181	N	N	Estimated	Y	0.0
3300833	BEHIND OFFICE	Chris McCabe/Bellatera Inv PA 13	1	33.98982	-117.54508	N	N	Metered	-	223.0
3300834	#3-WINEVILLE	Ag Pool Misc	1	33.98707	-117.54510	N	N	Metered	-	629.8
3300863	IRR-50AC/ALF	OCWD	1	33.92349	-117.61777	N	N	Metered	-	306.9
3301443	E/Dairy-submersible	Leal Ranches	1	33.98157	-117.56055	N	N	Estimated	Y	0.0
3301536	IRR-150HP-Gas Pwr	Riverside Cnty Reg Park & Open Sp Dist	1	33.92734	-117.60402	N	N	Estimated	Y	1.5
3600050	IRR-5P	Haringa Farms	1	33.98485	-117.63019	N	Y	Estimated	Y	0.0
3600127	Dom TV3	American Superior Land LLC	1	34.01170	-117.60979	N	N	Estimated	N	75.1
3600162	Dairy/Dom - 6	Ag Pool Misc	1	33.99781	-117.61169	N	N	Metered	-	11.3
3600239	IRR	Artevel of California LLC	1	34.00217	-117.65034	N	N	Metered	-	0.0
3600318	DAIRY-ESIDE-650C	Ontario New Colony Holdings LLC	1	33.99703	-117.64647	N	N	Estimated	N	98.0
3600324	IRR 2	De Groot Family Trust	1	33.99749	-117.63792	N	N	Metered	-	101.4
3600339	01	State Of CA CIM	1	33.98745	-117.68155	N	N	Metered	-	0.0
3600340	03	State Of CA CIM	1	33.99667	-117.67191	N	N	Metered	-	246.9
3600345	10--Field 14	State Of CA CIM	1	33.98290	-117.66732	N	N	Metered	-	0.0
3600346	09	State Of CA CIM	1	33.97561	-117.66728	N	N	Metered	-	522.5
3600348	07--Field 11	State Of CA CIM	1	33.98136	-117.67194	N	N	Estimated	Y	0.0
3600406	Dairy/Dom	G H Dairy	1	33.99750	-117.63653	N	N	Estimated	Y	3.6
3600421	Dairy/Dom	Ag Pool Misc	1	34.00326	-117.59462	N	N	Estimated	Y	1.7

Table A-2. Pumping Wells in the Chino Basin in FY 2023

CBWM Well ID	Name	Owner[(a)]	Pool	Latitude	Longitude	New in FY 2023	Abandoned/ Destroyed in FY 2023	Metered/ Estimated	Minimal Producer (if estimated)	FY 2023 Production
3600423	Dairy-in shed	Ag Pool Misc	1	33.99018	-117.63026	N	Y	Estimated	Y	6.7
3600432	DAIRY-640C	Ag Pool Misc	1	33.99736	-117.61810	N	N	Metered	-	50.8
3600433	#7 - IRR	J.G.J. Joint Venture	1	34.01795	-117.62308	N	N	Estimated	N	40.5
3600434	1-IRR	J.G.J. Joint Venture	1	34.01935	-117.62820	N	N	Estimated	N	242.0
3600437	3-IRR	J.G.J. Joint Venture	1	34.01913	-117.64924	N	N	Metered	-	126.0
3600446	Dom	Maclin Markets Inc	1	34.01883	-117.64360	N	N	Metered	-	4.9
3600460	IRR - 50 HP	County Of San Bernardino	1	33.99030	-117.63699	N	N	Metered	-	0.0
3600502	BARN #2	Loyola Properties I	1	33.95917	-117.62304	N	N	Metered	-	9.8
3600629	Dom/IRR	Ag Pool Misc	1	34.01924	-117.63835	N	N	Metered	-	15.1
3600811	IRR	Legend Dairy Farms #2	1	34.01436	-117.64904	N	N	Estimated	N	11.7
3600858	Dairy/Dom	Ontario Ranch Venture LLC	1	33.99377	-117.61982	N	N	Estimated	N	34.1
3600900	Alf-Jun-Sep	Bidart Family Trust	1	34.01350	-117.63713	N	N	Metered	-	70.4
3600975	CWW	Knudsen Brothers	1	34.01897	-117.61687	N	N	Metered	-	33.9
3601111	Dairy/Dom	No Longer Ag Owner	1	34.00289	-117.59416	N	N	Estimated	Y	0.0
3601212	Irr-400' E/Bon View	Ag Pool Misc	1	34.01907	-117.63495	N	N	Metered	-	0.0
3601246	1	State Of CA/CIW	1	33.94945	-117.63338	N	Y	Estimated	Y	0.0
3601399	IRR	Falloncrest Farms	1	34.01201	-117.63191	N	N	Metered	-	20.2
3601400	Dairy	Dou Family Trust	1	34.01019	-117.63677	N	N	Metered	-	115.1
3601625	Dairy/Dom	Artevel of California LLC	1	34.00220	-117.65013	N	N	Metered	-	32.6
3601698	IRR/Dom	Hofer Ranch	1	34.04938	-117.58570	N	N	Estimated	N	175.5
3601824	IRR - 2	Boys Republic	1	34.00244	-117.72279	N	N	Metered	-	98.9
3601827	01A	State Of CA CIM	1	33.98271	-117.67845	N	N	Metered	-	426.2
3602043	Dairy/Dom	Ag Pool Misc	1	34.01567	-117.64163	N	N	Metered	-	88.4
3602077	Backup	Ag Pool Misc	1	34.01209	-117.61284	N	N	Metered	-	0.0
3602078	IRR	Ag Pool Misc	1	34.01854	-117.63684	N	N	Metered	-	0.0
3602214	IRR	County Of San Bernardino	1	33.99339	-117.64492	N	N	Estimated	Y	3.6
3602332	S IRR-1	Heman G Stark Youth Correctional Facilit	1	33.98023	-117.65759	N	N	Metered	-	0.0
3602461	11A	State Of CA CIM	1	33.98484	-117.68427	N	N	Metered	-	1.1
3602480	DAIRY	Artevel of California LLC	1	34.00442	-117.64667	N	N	Metered	-	20.3
3602532	ANIMALS	Ag Pool Misc	1	34.00749	-117.64344	N	N	Metered	-	14.4
3602534	IRR-in shed	Ag Pool Misc	1	34.00854	-117.63721	N	N	Estimated	N	31.6
3602535	Dairy-in garage	Ag Pool Misc	1	34.00989	-117.63734	N	N	Metered	-	18.4
3602540	Dairy/Dom	No Longer Ag Owner	1	33.99726	-117.62735	N	N	Estimated	Y	3.6
3602584	Irr	Premier Investment Enterprises Inc	1	34.01864	-117.57791	N	N	Estimated	N	47.8
3602590	Chickens/Nursery	Hohberg Nursery	1	34.01317	-117.63604	N	N	Estimated	N	37.0
3602597	Dairy/Dom	Ag Pool Misc	1	33.96151	-117.64685	N	N	Estimated	N	11.8
3602602	Dairy	County Of San Bernardino	1	34.00449	-117.63318	N	N	Estimated	N	20.1
3602603	IRR/DOM	County Of San Bernardino	1	34.00304	-117.63587	N	N	Estimated	N	38.7
3602604	IRR	SD Farms II	1	34.01192	-117.64628	N	N	Estimated	N	90.0
3602608	Dairy #2	Loyola Properties I	1	33.99330	-117.56867	N	N	Estimated	Y	9.7
3602609	out of svs	No Longer Ag Owner	1	33.96783	-117.64093	N	Y	Estimated	Y	0.0
3602691	13--Field 24	State Of CA CIM	1	33.97715	-117.66183	N	N	Metered	-	543.2

(a) Well owners are current as of the end of FY 2023. A well whose owner is listed as "No Longer Ag Owner" indicates a well in a developing area where the property ownership, well ownership, and water use can change multiple times within a year. In cases where a developer, investor, or other buyer purchases agricultural land with the intent on eventually developing the land, the new owner will allow for continued use of the land, including groundwater production, until the property is developed.

Appendix B

Responses to Party Comments

STATE OF CALIFORNIA/WSP (RICHARD REES, PG, CHG)

Comment 1

We found the report to be well organized and effective in presenting and evaluating the annual data.

Response:
No response required.

Comment 2

Chapter 1 is titled "Background and Objectives." Although this section contains sufficient information that will allow the reader to infer the objectives from the text, they are not explicitly identified. We suggest that the objectives be clearly identified in this section to eliminate any uncertainty as to the report's objectives.

Response:
Section 1.3 was updated to address this comment. The following text was added: "The objectives of this report are to document the data collection and evaluation for the period through FY 2022/23 and document the associated peer review."

Comment 3

Section 2.1 indicates a calibration period of July 1, 1977 through June 30, 2018 for the Chino Valley Model. While this is correct for the current version of the CVM, an updated version of the CVM is being developed, has been the topic of a recent Watermaster Workshop, and has a shorter and more recent calibration period. Please add a note to the text of the Report to clarify this.

Response:
The text and footnote were updated to address this comment.

Comment 4

Table A-2 is incorrectly titled Table A-1. Please correct.

Response:
The table was updated to address this comment.

Comment 5

As suggested in our previous comment regarding Table C-2 of the Fiscal Year 2021/2022 annual report, a note has been included in Table A-2 (mistitled Table A-1) to define "Owner" and to explain wells listed as "No Longer Ag Owner." We appreciate inclusion of this note. However, it appears that some wells listed as "No Longer Ag Owner" in the Fiscal Year 2021/2022 annual report remain listed as such in this Report and, in some cases, have notable metered production (e.g., well 0600002 with 50.6 acre feet, well 0600019 with 100.5 acre feet, and well 0600026 with 119.8 acre feet). We suggest that the ownership and status of such wells be clarified if it appears that they may be continuing to be used for production.

Response:
We have revised Table A-2 in response to your comment, including updating the well owners for the non-minimal producing wells listed as "No Longer Ag Owner." Watermaster has indicated that most of these wells are on lands that have been purchased by developers or other businesses that intend to develop the land. Prior to land conversion, the new landowners will allow the prior owners to use the well and land until the entity is ready to move forward with development.

CUCAMONGA VALLEY WATER DISTRICT (AMANDA COKER, PE)

Comment 1

Section 3.3.3 states that the cumulative impacts of differences in outdoor urban water use may result in reduced net recharge compared to the current Safe Yield, and that the differences "will likely result in less DIPAW to the vadose zone that what was simulated in the 2020 SYR." The outdoor water use analysis included in Section 3 leading to this conclusion primarily focuses on the "applied water" component of DIPAW and does not seem to take into consideration above average precipitation which may have reduced outdoor water use but resulted in the same amount of infiltration. While reduced outdoor irrigation is likely to occur in the future due to the Urban Water Use Objective state regulation, at this point the regulation is still under development and has not yet been implemented by water retailers and it is unlikely that improved irrigation efficiency is a major cause of reduced outdoor irrigation over the past several years. It would be helpful to include an analysis of additional factors which may have led to reduced outdoor water use such as increased precipitation (2019 and 2023) and the imported water restrictions and associated outdoor watering restrictions implemented by retailers in 2022. Additionally, assumptions of average irrigation efficiency equal to 80% does not reflect the current condition of landscapes within the CVWD service area, local landscape professionals estimate a much lower irrigation efficiency of about 45% for existing landscapes within the Chino Basin.

Response:
The scope of the data collection and evaluation is limited to evaluating the impacts of cultural conditions on the basin, which includes applied water and excludes precipitation. However, the patterns in cultural conditions should be evaluated in context of the historical hydrology. We describe the impacts of hydrologic conditions on urban outdoor water use qualitatively in the report. A more detailed, quantitative analysis of the impact of the factors that impact urban outdoor water use is beyond the scope of the analysis. The responses of outdoor water use to hydrologic conditions will be considered in the 2025 Safe Yield Reevaluation.

The historical period includes three dry years (2020 through 2022) and two wet years (2019 and 2023). While the annual differences between the actual data and the 2020 SYR Projection vary, the 2020 SYR Projection for urban outdoor water use is greater than the actual data in each of the five years. The cumulative differences indicate that less applied water is reaching the vadose zone, which may have a significant impact of net recharge.

We appreciate your input on the irrigation efficiency. Through subsequent discussions to clarify your comments, you recommended that we reach out to the Chino Basin Water Conservation District (CBWCD) to understand their work regarding irrigation surveys across the Basin. CBWCD has indicated that their property surveys show that many residential irrigation systems have an efficiency of around 40 to 50

percent, with commercial irrigation approaching 65 to 70 percent. These irrigation efficiencies consider water losses to runoff, which are not simulated in the R4 model and are removed from the calculations of actual urban outdoor water use (see Step 5 in Section 3.2.1). Therefore, the observed differences between actual urban outdoor water use and the 2020 SYR Projection include only water consumed by vegetation and water resulting in deep infiltration to the vadose zone.

We have clarified the language regarding irrigation efficiency in the report and have revised our evaluation of impacts assuming that about 20 to 40 percent of the differences in urban outdoor water use would have resulted to DIPAW to the vadose zone. This would result in differences in DIPAW ranging from about 4,000 to 8,000 afy compared to the 2020 SYR Projection. These findings, combined with the expectation of future reductions in urban outdoor water use, may result in significant differences between the average net recharge and the current Safe Yield over the Safe Yield period FY 2021-2030.

Comment 2 – Urban Outdoor Water Use

Section 5.1.2 describes the potential deviation from safe yield of greater than 2.5% primarily due to a DIPAW calculation which combines the assumption of reduced outdoor applied water along with the increased irrigation efficiency to arrive at the loss of infiltration on the order of 4,000 AFY. We ask that this be reevaluated to consider the impacts of increased precipitation offsetting the reduced outdoor applied water and to reconsider the 80% irrigation efficiency factor based on appropriator feedback.

Response:
See response to Comment 1 above.

MONTE VISTA WATER DISTRICT (JUSTIN SCOTT-COE, PHD)

Comment 1 – Background

As quoted in Section 1.1 of the Report, Paragraph 4.4 of the 2017 Court Order establishes the Safe Yield Reset Methodology, which states in part: "The reset will rely upon long-term hydrology and will include data from 1921 to the date of the reset evaluation. The long-term hydrology will be continuously expanded to account for new data from each year, through July 2030, as it becomes available. This methodology will thereby account for short-term climatic variations, wet and dry." The "new data from each year," which is collected as part of the Annual Data Collection and Evaluation process governed by Paragraph 4.5 of the Court Order, is collected "In support of [Watermaster's] obligations to undertake the reset…" An Interim Correction to Safe Yield, as governed by Paragraph 4.3, may take place "in the event that, with the recommendation and advice of the Pools and Advisory Committee and in the exercise of prudent management discretion described in Paragraph 4.5(c), below, Watermaster recommends to the court that the Safe Yield must be changed by an amount greater (more or less) than 2.5 percent of the then-effective Safe Yield." Paragraph 4.5(c) calls for Watermaster, as part of the Annual Data Collection and Evaluation process, to "Evaluate the potential need for prudent management discretion to avoid or mitigate undesirable results including, but not limited to, subsidence, water quality degradation, and unreasonable pump lifts," and to conduct further modeling if "the evaluation of available data suggests that there has been or will be a material change from existing and projected conditions or threatened undesirable results…" In 2022, as allowed for under Paragraph 4.4, the Safe Yield Reset Methodology was supplemented to include an uncertainty analysis and to consider projected future climate conditions.

The Report makes the following Recommendations (pgs. 5-2 and 5-3):

1. **Through Watermaster's existing programs, address the potential for new undesirable results resulting from the 2024 Projection for groundwater pumping exceeding the 2020 SYR Projection.** The comparison of the 2020 SYR Projection to the 2024 Projection for groundwater pumping indicated the increased risk for new land subsidence in MZ-1. To address this, we recommend that Watermaster and the parties complete and implement a subsidence management plan for MZ-1. This process is already underway as part of Watermaster's Ground-Level Monitoring Program. The continued development of a subsidence management plan should include a more precise evaluation of the potential impacts of future pumping and recharge to inform groundwater management strategies that would allow continued pumping from MZ-1 without increasing the risk of land subsidence.
2. **Reevaluate the current Safe Yield consistent with the 2017 Court Order.** This report supports the necessity to conduct additional evaluation through the 2025 Safe Yield Reevaluation (2025 SYR), due to two primary findings:
    - The results from this report have improved our understanding of the relationship between hydrologic and cultural conditions. The five years of historical data evaluated herein include two wet years of greater-than-average precipitation (FY 2019 and FY 2023) and three dry years of less-than-average precipitation (FY 2020 through 2022). As demonstrated in the FY 2019-23 Actual Data, hydrology has a significant impact on pumping, recharge, and urban outdoor water use.
    - Based on the findings regarding the differences in urban outdoor water use and projected stormwater recharge, there is a reasonable likelihood that the cumulative impact of these differences would result in the actual Safe Yield being less than the current Safe Yield by more than 2.5 percent, suggesting the possibility for "a material change from existing and projected conditions" (2017 Court Order, p. 17).

Response:
This was provided as background and does not require a response.

Comment 2 – Recommendations to address potential for new undesirable results resulting from the 2024 Projection for groundwater pumping exceeding the 2020 SYR Projection

Regarding Recommendation 1, please see the attached letter from MVWD to Watermaster dated April 7, 2023. In it, MVWD explains that its projected groundwater production requirements include two components: ~6,500 AFY for MVWD, and ~2,100 AFY for the City of Chino Hills. The first component is consistent with the projections included in the 2020 Safe Yield Recalculation Final Report (Table 7-1). The second component is comprised of MVWD's production of Chino Hills's production rights, at Chino Hills's request, for which they are separately assessed by Watermaster. We do not know if this production component is included in Chino Hills's historical and/or projected production in either the 2020 SYR Projection and/or in the 2024 Projection included in this Report. Please note: MVWD does not expect in the future to increase its groundwater production above historical levels. As referenced in the attached letter and other communications to Watermaster, MVWD continues to raise questions concerning Watermaster's findings regarding subsidence, including those included in this Report. At this point, we do

not believe the threshold for "prudent management discretion to avoid or mitigate undesirable results including, but not limited to, subsidence…" has been reached for an Interim Correction to Safe Yield.

Response:
The demand and water supply plan projections that MVWD provided in February 2024 as part of the data collection and evaluation effort indicated that groundwater pumping is projected to increase from about 10,700 af in 2025 (including about 3,300 af to Chino Hills) to 12,400 af in 2045 (including about 3,500 af to Chino Hills). The projected transfers to Chino Hills are consistent with Chino Hills' provided water supply plan. If these water supply plan projections should be revised, please send us your revised water supply plans at your earliest convenience.

Our findings regarding subsidence in the report have been clarified as follows:

"Some of the areas where the 2024 Projection for groundwater pumping is greater than the 2020 SYR Projection overlie the Northwest MZ-1 Area of Subsidence Concern where Watermaster is currently developing a subsidence management plan. Recent aquifer compaction modeling of this area in response to the 2020 SYR Projection of groundwater pumping and recharge indicates that inelastic subsidence is expected to occur through 2050. These findings also demonstrate that the compaction is occurring primarily in the deeper aquifer layers, where some pumping occurs. The increase in managed recharge in surface spreading basins over the historical period (see Chapter 4) may have only a limited effect in mitigating subsidence.

Therefore, the differences between the 2024 Projection and the 2020 SYR Projection for groundwater pumping indicate the potential for an increased risk of future land subsidence. It should be noted that Watermaster currently conducts monitoring and management to address potential land subsidence through the implementation of the OBMP."

We do not recommend any management actions beyond the current work at this time.

Comment 3 – Findings related to and recommendation to continue with the 2025 Safe Yield Reevaluation (2025 SYR)[1]

Regarding Recommendation 2, while a model evaluation of Safe Yield is already in process consistent with Paragraph 4.6, we believe the above findings may incorrectly apply the requirements under Paragraphs 4.3, 4.4, and 4.5:

Comment 3a

Under Paragraph 4.4, the annual data collected is to be added to the long-term hydrological data, so that the total and growing long-term dataset can "thereby account for short-term climatic variations, wet and dry." The Report's finding relies only on the most recent five years to represent such variability. Reliance here on short-term ("FY 2019-23 Actual Data") hydrology appears inconsistent with the Safe Yield Reset Methodology, which instead requires reliance "upon long-term hydrology and will include data from 1921 to the date of the reset evaluation," here through FY 2023.

Response:

[1] These comments are segmented for clarity.

Paragraph 4.4 on page 16 of the 2017 Court Order applies to the Safe Yield resets, not data collection and evaluation. The scope of the data collection and evaluation report is defined by Paragraph 4.5 on pages 16 and 17 of the 2017 Court Order, which requires the evaluation of data regarding cultural conditions for "a material change from existing and projected conditions or threatened undesirable results." The report's findings are based on evaluating data regarding cultural conditions for "existing and projected conditions" as they may impact the current Safe Yield; this confines our analysis to the beginning of the period of the most recent Safe Yield Recalculation (FY 2019) through the end of the current Safe Yield period (FY 2030). The projections developed for the 2020 Safe Yield Recalculation (2020 SYR) were based on the expected responses of cultural conditions to an average hydrology based on the long-term hydrology to which you refer. Our report considers the impacts of hydrology on cultural conditions, and this consideration informs our recommendations.

Comment 3b

Paragraph 4.5(c), which establishes the criteria for "prudent management discretion" for consideration of an Interim Correction under Paragraph 4.3, does not define "material change from existing and projected conditions." However, a reasonable definition would be the identification of near-term and projected conditions that are materially different to the conditions reflected in the long-term hydrology used to develop Safe Yield. A near-term delay in completion of recharge projects should not materially change projected stormwater recharge under long-term hydrologic conditions. Similarly, unless tied to a long-term change in projected conditions, the near-term reductions in outdoor use should not materially change projections of applied water infiltration based on long-term hydrologic conditions. The reductions in outdoor use reflected in the FY 2019-23 Actual Data are due to our customers' response to either emergency conservation regulations or wet-year precipitation, both of which are near-term conditions. A long-term change in projected conditions might result from our customers' response to a permanent conservation regulation, such as the one adopted by the State Water Resources Control Board last week (July 3, 2024). Obviously, we do not yet know how our agencies – let alone our customers – will respond to this non-emergency, permanent, long-term conservation regulation. However, it is clear that the answer does not lie in the FY 2019-23 Actual Data, which, again, reflects our customers' response to near-term conditions (rainfall, or response to emergency calls to conserve). Therefore, our customers' near-term reductions in outdoor water use, as reflected in the FY 2019-23 Actual Data, should not be considered a material change from existing and projected conditions necessitating further modeling. Instead, Watermaster should work with the Chino Basin's urban water agencies to better understand how we and our customers may respond to the State's permanent regulations that were adopted last week; a full understanding of the material change to existing and projected conditions due to this new regulation is needed, but does not yet exist.

Response:

As our data collection and evaluation effort focuses on cultural conditions, the analysis leads us to identify material differences in the historical ("existing") and projected cultural conditions than those used assumed in the 2020 SYR. Our conclusion on the likelihood of a significant difference in the Safe Yield compared to the current Safe Yield is based on a cumulative assessment of the "material change from existing and projected conditions," mainly driven by the differences in historical and projected urban outdoor water use.

The delay in the construction of stormwater recharge projects would not result in a material difference in existing and projected conditions in isolation.

Both the "near-term" (historical) patterns in urban outdoor water use and the current understanding of the projected impacts of the Conservation Regulation on urban outdoor water use indicate a material difference in urban outdoor water use compared to what was projected in the 2020 SYR. Acute conditions can contribute to material differences if the impact is significant enough to influence the Safe Yield or threaten MPI or undesirable results.

We understand and appreciate the uncertainty in the Chino Basin agencies' responses to the Conservation Regulation. The development of this report took place as the draft Conservation Regulation was being revised; input from Chino Basin agencies indicated a high degree of uncertainty in responses and the inability to precisely project urban outdoor water use. Therefore, we did not quantify projected urban outdoor water use, but we understand from the Conservation Regulation and discussions with agencies that the future urban outdoor water use is highly likely to be less than what was projected in the 2020 SYR.

Watermaster has been working with the agencies to understand how the agencies and their customers may respond to the Conservation Regulation and will continue to do so as part of the data collection and evaluation and the 2025 Safe Yield Reevaluation (2025 SYR) efforts. Starting in the development of the FY 2021/22 report, Watermaster has requested both quantitative and qualitative information from agencies subject to the Conservation Regulation on their projected responses. During the scenario design process for the 2025 SYR, Watermaster has solicited input from the agencies on planned responses to the Conservation Regulation and has proposed multiple projection scenarios[2] for the 2025 SYR to simulate a range of potential responses. We continue to invite your feedback on these scenarios that will assist Watermaster in completing the Court-ordered 2025 SYR and quantifying the uncertainty of agencies' responses and their impact on the Chino Basin.

Comment 3c

Finally, while the Report evaluates FY 2019-23 Actual Data related to outdoor water use (applied irrigation water) and managed stormwater recharge, it neither presents nor evaluates data related to deep infiltration of precipitation outside of managed recharge (the "P" in DIPAW, or Deep Infiltration of Precipitation and Applied Water). As mentioned above, some of the reductions in outdoor use during this period are due to our customers' near-term response to wet-year precipitation (i.e., turning off their irrigation when it rains). The reason they do so is because the rainfall takes the place of the irrigation. Therefore, a full understanding of the net effect of reductions in outdoor water use during these wet years should also include the offsetting increase in precipitation.

Response:
As noted above, the scope of the data collection and evaluation is to collect and evaluate data regarding cultural conditions. See our response to Comment 1 from Cucamonga Valley Water District.

[2] 6/25/2024 Draft Scenario Design TM #3

CITY OF CHINO (DAVE CROSLEY, PE)

Comment 1

Section 5.1.3 Potential Material Physical Injury. This section indicates there is potential for MPI in MZ-1 due to actual and projected groundwater pumping that may result in land subsidence. The presented data indicates within MZ-1 the actual managed recharge was approximately 20,000 acre-feet more than projected and the actual pumping was approximately 4,000 acre-feet less than projected for the period of 2019 – 2023. Actual pumping in MZ-1 during the period ranged from 36,220 acre-feet to 41,520 acre-feet. MZ-1 pumping projections for 2025 and 2030 indicate an increase of approximately 9,000 acre-feet on average (MZ-1 recharge projections are not provided). It is not clear how the provided information supports the conclusion for a potential MPI due to subsidence in MZ-1.

Response:
We have added additional text in Chapter 2 to clarify and support this conclusion:

"Some of the areas where the 2024 Projection for groundwater pumping is greater than the 2020 SYR Projection overlie the Northwest MZ-1 Area of Subsidence Concern where Watermaster is currently developing a subsidence management plan. Recent aquifer compaction modeling of this area in response to the 2020 SYR Projection of groundwater pumping and recharge indicates that inelastic subsidence is expected to occur through 2050. These findings also demonstrate that the compaction is occurring primarily in the deeper aquifer layers, where some pumping occurs. The increase in managed recharge in surface spreading basins over the historical period (see Chapter 4) may have only a limited effect in mitigating subsidence.

Therefore, the differences between the 2024 Projection and the 2020 SYR Projection for groundwater pumping indicate the potential for an increased risk of future land subsidence. It should be noted that Watermaster currently conducts monitoring and management to address potential land subsidence through the implementation of the OBMP."

Comment 2

General Comment. Please provide a table that breaks down by Management Zone the actual and projected pumping, outdoor urban water use, and managed groundwater recharge.

Response:
After subsequent discussions to clarify this comment, Watermaster will prepare exhibits that depict this information in a future report.