CHINO BASIN WATERMASTER

NOTICE OF MEETING

Thursday, May 23, 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. – May 23, 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

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 April 25, 2024 *(Page 1)*

B. FINANCIAL REPORTS
Receive and file as presented:
Monthly Financial Report for the Period Ended March 31, 2024 *(Page 5)*

C. APPLICATION FOR RECHARGE – FONTANA WATER COMPANY (MAR)
Approve Fontana Water Company's Application for Recharge and direct Watermaster staff to account for this supplemental water recharge in Fontana Water Company's existing Local Supplemental account. *(Page 23)*

II. BUSINESS ITEMS

A. THIRD AMENDMENT TO TASK ORDER NO. 9 UNDER THE MASTER AGREEMENT FOR COLLABORATIVE RECHARGE PROJECTS (PROJECT 23A)
Approve of the Third Amendment to Task Order No.9 to increase the total budgeted cost as presented. *(Page 43)*

B. WATERMASTER FISCAL YEAR 2024/25 APPROVED BUDGET
Adopt the Watermaster Fiscal Year 2024/25 Approved Budget as presented. *(Page 65)*

C. PSMJ STUDY OF ENGINEERING SERVICES BILLING RATES (INFORMATION ONLY) *(Page 185)*

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 Case No. E079052 (City of Chino, MVIC, MVWD, City of Ontario appeal re OAP Expenses and Attorney Fees)
3. Court of Appeal Consolidated Cases No. E080457 and E082127 (City of Ontario appeal re 2021- 22 and 2022-23 Assessment Packages)
4. Court of Appeal Case No. E080533 (Cities of Chino, Ontario appeal re 2022-23 Watermaster budget expenses to support CEQA analysis)
5. Kaiser Permanente Lawsuit

B. ENGINEER

1. 2025 Safe Yield Reevaluation
2. Data Collection and Evaluation

C. GENERAL MANAGER

1. June 26, 2024 Board Tour (Interest List)
2. Chino Basin Day
3. Other

IV. BOARD MEMBER COMMENTS

V. OTHER BUSINESS

VI. CONFIDENTIAL SESSION - POSSIBLE ACTION

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

1. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION: Initiation of litigation: one case

VII. FUTURE MEETINGS AT WATERMASTER

05/23/24	Thu	9:30 a.m.	Watermaster Orientation*
05/23/24	Thu	11:00 a.m.	Watermaster Board
05/28/24	Tue	9:00 a.m.	Groundwater Recharge Coordinating Committee (GRCC) (Held at IEUA offices)
05/29/24	Wed	2:00 p.m.	2025 Safe Yield Reevaluation Calibration # 1
06/13/24	Thu	9:00 a.m.	Appropriative Pool Committee
06/13/24	Thu	11:00 a.m.	Non-Agricultural Pool Committee
06/13/24	Thu	1:30 p.m.	Agricultural Pool Committee
06/20/24	Thu	9:00 a.m.	Advisory Committee
06/27/24	Thu	9:30 a.m.	Watermaster Orientation*
06/27/24	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
April 25, 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 April 25, 2024.

WATERMASTER BOARD MEMBERS PRESENT AT WATERMASTER

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

WATERMASTER STAFF PRESENT

Todd Corbin	General Manager
Edgar Tellez Foster	Water Resources Mgmt. & Planning Dir.
Anna Nelson	Director of Administration
Justin Nakano	Water Resources Technical Manager
Frank Yoo	Data Services and Judgment Reporting Mgr.
Daniela Uriarte	Senior Accountant
Alexandria Moore	Executive Assistant I/Board Clerk
Alonso Jurado	Water Resources Associate
Ruby Favela	Administrative Assistant
Jordan Garcia	Senior Field Operations Specialist
Erik Vides	Field Operations Specialist
Rudy Nunez	Office Specialist/Receptionist

WATERMASTER CONSULTANTS PRESENT AT WATERMASTER

Scott Slater	Brownstein Hyatt Farber Schreck, LLP
Andy Malone	West Yost

WATERMASTER CONSULTANTS PRESENT ON ZOOM

Brad Herrema	Brownstein Hyatt Farber Schreck, LLP
Garrett Rapp	West Yost

OTHERS PRESENT AT WATERMASTER

Gino Filippi	Agricultural Pool – Crops
Bob Feenstra	Agricultural Pool – Dairy
Tariq Awan	Agricultural Pool – State of CA
Lewis Callahan	Agricultural Pool – State of CA
Hye Jin Lee	City of Chino
Ron Craig	City of Chino Hills
Nicole deMoet	City of Upland
John Bosler	Cucamonga Valley Water District
Amanda Coker	Cucamonga Valley Water District
Jimmie Moffatt	Cucamonga Valley Water District
Jiwon Seung	Cucamonga Valley Water District
Joel Ignacio	Inland Empire Utilities Agency
Eddie Lin	Inland Empire Utilities Agency
John Russ	Inland Empire Utilities Agency
Jamal Zughbi	Inland Empire Utilities Agency

Chris Berch	Jurupa Community Services District
Bryan Smith	Jurupa Community Services District
Justin Scott-Coe	Monte Vista Irrigation Company
Justin Scott-Coe	Monte Vista Water District
Alyssa Coronado	Santa Ana River Water Company
David De Jesus	Three Valleys Municipal Water District

OTHERS PRESENT ON ZOOM

Diana Frederick	Agricultural Pool – State of CA
Marylin Levin	Agricultural Pool – State of CA
Brian Geye	California Speedway Corporation
Dave Crosley	City of Chino
Eduardo Espinoza	Cucamonga Valley Water District
Mark Gibboney	Cucamonga Valley Water District
Rob Hills	Cucamonga Valley Water District
Derek Hoffman	Fennemore Law
Christiana Daisy	Inland Empire Utilities Agency
Jesse Pompa	Jurupa Community Services District
Michael Mayer	San Bernardino County
Mallory O'Conner	Western Water
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
(00:00:52) Ms. Moore conducted the roll call and announced that a quorum was present.

PUBLIC COMMENTS
None

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 Special Meeting held on March 28, 2024

B. FINANCIAL REPORTS

Receive and file as presented:
Monthly Financial Report for the Period Ended February 29, 2024

(00:02:48)
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

FISCAL YEAR 2024/25 BUDGET PRESENTATION (INFORMATION ONLY)

(00:03:21) Mr. Corbin introduced the item and invited Ms. Uriarte to give a presentation with supporting reports also provided by Messrs. Tellez Foster, Malone, and Herrema. A discussion ensued.

III. REPORTS/UPDATES

A. WATERMASTER LEGAL COUNSEL

1. May 31, 2024 Court Hearing (Watermaster 46th Annual Report)
2. Court of Appeal Case No. E079052 (City of Chino, MVIC, MVWD, City of Ontario appeal re OAP Expenses and Attorney Fees)
3. Court of Appeal Consolidated Cases No. E080457 and E082127 (City of Ontario appeal re 2021- 22 and 2022-23 Assessment Packages)
4. Court of Appeal Case No. E080533 (Cities of Chino, Ontario appeal re 2022-23 Watermaster budget expenses to support CEQA analysis)
5. Kaiser Permanente Lawsuit

(00:47:46) Mr. Slater gave a report.

B. ENGINEER

1. Data Collection and Evaluation
2. 2025 Safe Yield Reevaluation
3. Maximum Benefit Annual Report

(00:50:23) Mr. Malone introduced Mr. Rapp to give a report. A discussion ensued.

C. GENERAL MANAGER

1. SWP Allocation
2. DYY Deliveries
3. Project 23a Update
4. Other

(00:57:56) Mr. Corbin gave a report on item 1, indicating that the State Water Project allocation has been increased to 40%. On item 2, he invited Mr. Tellez Foster to report on the Dry Year Yield Program. Mr. Tellez Foster reported that Watermaster received a letter on April 16, 2024 from MWD, stating its intent to restart DYY deliveries and is anticipating to recharge ~26 KAF before December 31, 2024. On Item 3, Mr. Ignacio, Sr. Engineer of IEUA gave a presentation on Project 23a RMPU project. A discussion ensued.

IV. INFORMATION

1. Chino Airport and South Archibald Plumes Semi-Annual Status Reports

V. BOARD MEMBER COMMENTS

(01:19:30) The Board welcomed Mr. Corbin in his official capacity as the Watermaster General Manager.

VI. OTHER BUSINESS

None

VII. 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.

None

ADJOURNMENT

Chair Curatalo adjourned the Watermaster Board meeting at 12:21 p.m.

Secretary: _____

Approved: _____

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: May 2024

TO: Watermaster Committees & Board

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

SUMMARY

Issue: Record of Monthly Financial Reports for the reporting period ended March 31, 2024) [Normal Course of Business]

Recommendation: Receive and file Monthly Financials Reports for the reporting period ended March 31, 2024) as presented.

Financial Impact: None.

Future Consideration
Watermaster Board – May 23, 2024: Receive and File

ACTIONS:
Appropriative Pool – May 9, 2024: Received and Filed
Non-Agricultural Pool – May 9, 2024: Received and Filed
Agricultural Pool – May 9, 2024: Received and Filed
Advisory Committee – May 16, 2024: Received and Filed
Watermaster Board – May 23, 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 (March 31, 2024)

Chino Basin Watermaster
Cash Disbursements
March 2024

Date	Number	Vendor Name	Description	Amount
03/07/2024	24655	APPLIED COMPUTER TECHNOLOGIES	February database consulting services	$ (4,250.00)
03/07/2024	24656	CALIFORNIA BANK & TRUST	Account ending 6198 - See detail attached	(2,986.82)
03/07/2024	24657	COSTCO MEMBERSHIP	Costco membership renewal	(120.00)
03/07/2024	24658	CUCAMONGA VALLEY WATER DISTRICT - UTILITY	Utilities: Water	(248.36)
03/07/2024	24659	CURATALO, JAMES		(1,875.00)
03/07/2024	24660	DE BOOM, NATHAN		(125.00)
03/07/2024	24661	EIDE BAILLY LLP	January accounting consulting services	(11,894.88)
03/07/2024	24662	ELIE, STEVEN		(250.00)
03/07/2024	24663	EMPOWER LAB	February coaching services	(500.00)
03/07/2024	24664	FEENSTRA, BOB		(1,375.00)
03/07/2024	24665	FILIPPI, GINO		(375.00)
03/07/2024	24666	FIRST LEGAL NETWORK LLC	Court filing services	(98.29)
03/07/2024	24667	FRONTIER COMMUNICATIONS	Office alarm services	(152.44)
03/07/2024	24668	GEYE, BRIAN		(625.00)
03/07/2024	24669	HARMONY PRESS	Annual report printing services	(2,235.78)
03/07/2024	24670	PIERSON, JEFFREY		(4,250.00)
03/07/2024	24671	R&D PEST SERVICES	March pest control services	(100.00)
03/07/2024	24672	SPECTRUM ENTERPRISE	March internet services	(1,105.40)
03/07/2024	24673	STATE COMPENSATION INSURANCE FUND	FY 24 Worker's compensation insurance	(2,768.91)
03/07/2024	24674	ULTIMATE STAFFING SERVICES	Temporary employment services	(1,223.65)
03/07/2024	24675	UNION 76	February fuel purchases	(130.30)
03/07/2024	24676	USAFACT, INC.	Pre-employment background check	(81.72)
03/07/2024	24677	VANGUARD CLEANING SYSTEMS	March janitorial service	(1,220.00)
03/07/2024	24678	VELTO, BILL		(250.00)
03/07/2024	24679	WAVE HR SOLUTIONS	February human resources services	(4,582.50)
03/08/2024	24680	TELLEZ-FOSTER, EDGAR	Toll road fee reimbursement	(31.14)
03/08/2024	24681	WATER UX, INC	Deposit for Data Portal Discovery & Launch MVP	(5,000.00)
03/11/2024	ACH3/11/24	CALPERS	March Medical Insurance Premiums	(12,224.18)
03/13/2024	24682	BROWNSTEIN HYATT FARBER SCHRECK	Independent counsel review services	(30,493.24)
03/13/2024	24683	CUCAMONGA VALLEY WATER DISTRICT	April lease	(11,727.00)
03/13/2024	24684	EGOSCUE LAW GROUP, INC.	February OAP legal services	(14,350.00)
03/14/2024	24685	ACWA JOINT POWERS INSURANCE AUTHORITY	April life insurance	(183.39)
03/14/2024	24686	BOWCOCK, ROBERT		(875.00)
03/14/2024	24687	CORELOGIC INFORMATION SOLUTIONS	February geographic package services	(125.00)
03/14/2024	24688	KAVOUNAS, PETER	Health and dental premium reimbursements	(1,722.48)
03/14/2024	24689	KUHN, BOB		(750.00)
03/14/2024	24690	LAW OFFICE OF ALLEN W. HUBSCH	March ONAP legal services	(3,213.00)
03/14/2024	24691	SOUTHERN CA EDISON	Utilities: Electric	(1,183.98)
03/14/2024	24692	ULTIMATE STAFFING SERVICES	Temporary employment services	(1,475.60)
03/14/2024	24693	WESTERN MUNICIPAL WATER DISTRICT		(500.00)
03/14/2024	24694	THRIVING EMPLOYER	Legal personnel matter services	(18,585.00)
03/14/2024	24695	BROWNSTEIN HYATT FARBER SCHRECK	February legal services	(101,185.65)
03/14/2024	24696	FEENSTRA, BOB		(1,000.00)
03/25/2024	ACH3/25/24	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Annual Unfunded Accrued Liability-Plan 3299	(9,902.00)
03/26/2024	24697	BAY ALARM COMPANY	Security alarm monitoring service	(177.87)
03/26/2024	24698	GREAT AMERICA LEASING CORP.	February copy machine lease	(1,464.61)
03/26/2024	24699	LEGAL SHIELD	March employee paid legal insurance	(145.45)
03/26/2024	24700	NAKANO, JUSTIN	RMPU lunch meeting reimbursement	(57.80)
03/26/2024	24701	PIERSON, JEFFREY		(3,500.00)
03/26/2024	24702	READY REFRESH	Office water dispenser lease	(190.46)
03/26/2024	24703	RUBEN LLAMAS		(125.00)
03/26/2024	24704	SANTA FE COFFEE ROASTER, INC	Coffee machine maintenance and descaling	(480.00)
03/26/2024	24705	SOCALGAS	Utilities: Gas	(192.76)
03/26/2024	24706	STANDARD INSURANCE CO.	February life and disability services	(824.97)
03/26/2024	24707	TOM DODSON & ASSOCIATES	February services - OBMP Update	(8,731.25)
03/26/2024	24708	ULTIMATE STAFFING SERVICES	Temporary employment services	(1,475.60)
03/26/2024	24709	UNITED HEALTHCARE	April dental insurance coverage	(706.83)
03/26/2024	24710	VC3, INC.	February IT services	(6,771.40)
03/26/2024	24711	VERIZON WIRELESS	Internet services and mobile broadband unlimited	(276.47)
03/29/2024	24712	CUCAMONGA VALLEY WATER DISTRICT - UTILITY	Utilities: Water	(236.59)
03/29/2024	24713	INLAND EMPIRE UTILITIES AGENCY	FY 23/24 Recharge water program debt service	(583,281.00)
03/29/2024	24714	SAN BERNARDINO COUNTY - DEPT. AIRPORTS	April rent for extensometer site	(172.00)

Chino Basin Watermaster
Cash Disbursements
March 2024

Date	Number	Vendor Name	Description	Amount
03/29/2024	24715	SOUTHERN CALIFORNIA EDISON	Utilities: Electric	(146.87)
03/29/2024	24716	STAPLES BUSINESS ADVANTAGE	Copy paper	(172.36)
03/29/2024	24717	ULTIMATE STAFFING SERVICES	Temporary employment services	(1,475.60)
03/29/2024	24718	VC3, INC.	Annual subscription - microsoft copilot	(1,056.39)
03/29/2024	24719	VERIZON WIRELESS	Mobile broadband unlimited	(38.01)
03/29/2024	24720	VISION SERVICE PLAN	April vision insurance coverage	(77.57)
			Total for Month $	**(869,127.57)**

Chino Basin Watermaster
Credit Card Expense Detail
March 2024

Date	Number	Description	Expense Account	Amount
03/07/2024	24656	**CALIFORNIA BANK & TRUST**		
		Breakfast Meeting - Ops - E. Tellez Foster, J.Nakano, A. Jurado, F. Yoo, J. Garcia, E. Vides	6141.3 · Admin Meetings	(73.84)
		Cancellation for cost saving- ACWA Conference Hotel - E. Tellez Foster	6191 · Conferences - General	1,067.40
		Lunch meeting - E. Tellez Foster and Marty Zvirbulis	8312 · Meeting Expenses	(38.40)
		Breakfast meeting- E. Tellez Foster and Chris Diggs	8312 · Meeting Expenses	(40.00)
		REV Subscription - Transcription Services	6112 · Subscriptions/Publications	(29.99)
		Staff lunch - Results through Relationships Training	6141.3 · Admin Meetings	(217.35)
		Cancelled Order - Staff Lunch Results through Relationships Training	6141.3 · Admin Meetings	217.35
		Rubio's Staff Lunch - Results through Relationships Training	6141.3 · Admin Meetings	(242.59)
		1099 Filings	6147 · Other Admin Expenses	(65.00)
		1099 Filings	6147 · Other Admin Expenses	(48.01)
		Staff Lunch - DEI Training	6141.3 · Admin Meetings	(199.39)
		LinkedIn Job Posting: General Manager Position	6112 · Subscriptions/Publications	(504.00)
		American Ground Water Trust Registration - A. Jurado, J. Nakano, E. Vides, J. Garcia	6191 · Conferences - General	(720.00)
		LinkedIn Job Posting: General Manager Position	6112 · Subscriptions/Publications	(15.43)
		Misc. Office Supplies	6031.7 · General Office Supplies	(14.86)
		Misc. Office Supplies	6031.7 · General Office Supplies	(186.94)
		Misc. Office Supplies	6031.7 · General Office Supplies	(267.94)
		Defribrillator Replacement Pads	6031.7 · General Office Supplies	(76.62)
		HRIS and Timekeeping System	6061.2 · HRIS System	(227.59)
		Misc. Office Supplies	6031.7 · General Office Supplies	(62.09)
		Misc. Office Supplies	6031.7 · General Office Supplies	(37.52)
		Misc. Office Supplies	6031.7 · General Office Supplies	(254.18)
		Misc. Office Supplies	6031.7 · General Office Supplies	(164.66)
		Standing Desk - D. Uriarte	6038 · Other Office Equipment	(172.38)
		LinkedIn - Premium Monthly Subscription	6112 · Subscriptions/Publications	(39.99)
		Misc. Office Supplies	6031.7 · General Office Supplies	(56.45)
		Board Orientation Meeting	6312 · Meeting Expenses	(25.99)
		Shipping of Guidance Document binder - Lewis Callahan	6042 · Postage - General	(19.90)
		Standing Desks - R. Favela Quintero, A. Moore	6038 · Other Office Equipment	(317.31)
		Board Meeting Package - Steve Elie, Jeff Pierson	6042 · Postage - General	(85.44)
		Misc. Office Supplies	6031.7 · General Office Supplies	(67.71)
			Total for Month	**$ (2,986.82)**

Chino Basin Watermaster

Combining Schedule of Revenues, Expenses & Changes in Net Assets

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

	JUDGMENT ADMIN.	OPTIMUM BASIN MGMT.	TOTAL JUDGMENT ADMIN & OBMP	POOL ADMINISTRATION & SPECIAL PROJECTS			GROUND WATER REPLENISH.	GRAND TOTALS	ADOPTED BUDGET 2023-2024
				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	-	349,026	349,026	11,920	42,488	2,057	33,433	438,924	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**	**4,027,712**	**9,850,835**	**657,920**	**42,488**	**33,057**	**383,258**	**10,967,558**	**9,813,827**
Administrative & Project Expenditures:									
Watermaster Administration	3,022,058	-	3,022,058	-	-	-	-	3,022,058	2,993,430
Watermaster Board-Advisory Committee	217,020	-	217,020	-	-	-	-	217,020	366,923
Optimum Basin Mgmt Administration	-	730,781	730,781	-	-	-	-	730,781	1,215,309
OBMP Project Costs	-	2,914,565	2,914,565	-	-	-	-	2,914,565	5,409,723
Pool Legal Services	-	-	-	-	105,911	17,448	-	123,358	241,578
Pool Meeting Compensation	-	-	-	-	35,500	5,000	-	40,500	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]	-	-	-	150,768	(150,768)	-	-	-	-
Total Administrative Expenses	**3,239,078**	**4,228,627**	**7,467,705**	**150,768**	**-**	**22,448**	**-**	**7,640,920**	**12,265,312**
Net Ordinary Income	**2,584,045**	**(200,915)**	**2,383,130**	**507,152**	**42,488**	**10,609**	**383,258**	**3,326,638**	**(2,451,485)**
Other Income/(Expense)									
Replenishment Water Assessments	-	-	-	-	-	-	(1,920,791)	(1,920,791)	-
Refund-Basin O&M Expenses	(1,542,183)	-	(1,542,183)	-	-	-		(1,542,183)	-
Refund-Recharge Debt Service	-	-	-	-	-	-	-	-	-
Net Other Income/(Expense)	**(1,542,183)**	**-**	**(1,542,183)**	**-**	**-**	**-**	**(1,920,791)**	**(3,462,973)**	**-**
Net Transfers To/(From) Reserves	**$ 1,041,863**	**$ (200,915)**	**$ 840,947**	**$ 507,152**	**$ 42,488**	**$ 10,609**	**$ (1,537,533)**	**$ (136,336)**	**$ (2,451,485)**
Net Assets, July 1, 2023			9,768,099	41,205	1,343,226	57,841	1,715,286	12,925,657	
Net Assets, End of Period			**10,609,046**	**548,357**	**1,385,714**	**68,450**	**177,753**	**12,789,321**	
Pool Assessments Outstanding [2]				(238,028)	(731,123)	-			
Pool Fund Balance				**$ 310,330**	**$ 654,592**	**$ 68,450**			

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

[2] Outstanding balance of Pool Special Assessments

Chino Basin Watermaster

Treasurer's Report

March 2024

	Type	Monthly Yield	Cost	Market	% Total
Cash & Investments					
Local Agency Investment Fund (LAIF) *	Investment	4.23%	$ 625,025	$ 621,394	4.4%
CA CLASS Prime Fund **	Investment	5.42%	12,649,785	$ 12,648,084	88.7%
Bank of America	Checking		994,987	994,987	7.0%
Bank of America	Payroll		-	-	0.0%
Total Cash & Investments			**$ 14,269,796**	**$ 14,264,465**	**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 March 31, 2024

		March 2024	YTD Actual	FY 24 Adopted Budget	$ 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	60,582	438,924	312,500	126,424	140%
10	Miscellaneous Income	-	-	-	-	N/A
11	**Total Other Revenue**	**60,582**	**788,749**	**312,500**	**476,249**	**252%**
12	**Total Revenue**	**60,582**	**10,967,558**	**9,813,827**	**1,153,731**	**112%**
13	**Judgment Administration Expense**					
14	Judgment Administration	22,605	290,618	721,698	(431,080)	40%
15	Admin. Salary/Benefit Costs	72,758	1,488,470	1,413,610	74,860	105%
16	Office Building Expense	18,266	158,564	208,510	(49,946)	76%
17	Office Supplies & Equip.	1,614	36,694	49,438	(12,744)	74%
18	Postage & Printing Costs	2,069	21,756	33,806	(12,050)	64%
19	Information Services	17,623	116,333	199,818	(83,485)	58%
20	Contract Services	18,658	132,828	60,200	72,628	221%
21	Watermaster Legal Services	102,247	714,984	565,964	149,020	126%
22	Insurance	-	46,256	50,468	(4,212)	92%
23	Dues and Subscriptions	1,246	37,408	40,027	(2,619)	93%
24	Watermaster Administrative Expenses	411	6,742	7,550	(808)	89%
25	Field Supplies	748	1,331	3,200	(1,869)	42%
26	Travel & Transportation	2,323	18,224	29,570	(11,346)	62%
27	Training, Conferences, Seminars	1,254	39,280	50,400	(11,120)	78%
28	Advisory Committee Expenses	1,514	31,402	105,823	(74,421)	30%
29	Watermaster Board Expenses	34,945	185,618	261,100	(75,482)	71%
30	ONAP - WM & Administration	4,074	24,472	106,194	(81,722)	23%
31	OAP - WM & Administration	3,815	32,322	108,700	(76,378)	30%
32	Appropriative Pool- WM & Administration	3,784	56,079	112,173	(56,094)	50%
33	Allocated G&A Expenditures	(22,545)	(200,303)	(440,829)	240,526	45%
34	**Total Judgment Administration Expense**	**287,408**	**3,239,078**	**3,687,420**	**(448,342)**	**88%**
35	**Optimum Basin Management Plan (OBMP)**					
36	Optimum Basin Management Plan	59,133	730,781	1,215,309	(484,528)	60%
37	Groundwater Level Monitoring	37,791	282,278	459,625	(177,347)	61%
38	Program Element (PE)2- Comp Recharge	313,308	1,173,073	1,672,577	(499,504)	70%
39	PE3&5-Water Supply/Desalte	11,906	37,978	105,677	(67,699)	36%
40	PE4- Management Plan	37,004	278,288	817,643	(539,355)	34%
41	PE6&7-CoopEfforts/SaltMgmt	50,715	414,753	1,117,623	(702,870)	37%
42	PE8&9-StorageMgmt/Conj Use	40,148	518,892	795,750	(276,858)	65%
43	Recharge Improvements	583,281	583,281	1,665,475	(1,082,194)	35%
44	Administration Expenses Allocated-OBMP	13,173	104,334	222,160	(117,826)	47%
45	Administration Expenses Allocated-PE 1-9	9,373	104,969	218,669	(113,700)	48%
46	**Total OBMP Expense**	**1,155,831**	**4,228,627**	**8,290,508**	**(4,061,880)**	**51%**
47	**Pool Administration**					
48	Appropriative Pool-Legal Services	-	-	-	-	N/A
49	OAP Legal & Technical Services	14,350	105,911	186,612	(80,701)	57%
50	OAP Meeting Compensation	7,875	35,500	40,932	(5,432)	87%
51	OAP Expense - Special Projects	-	9,357	-	9,357	N/A
52	ONAP - Legal Services	3,213	17,448	54,966	(37,518)	32%
52	ONAP - Meeting Compensation	875	5,000	4,875	125	103%
53	**Total Pool Administration**	**26,313**	**173,215**	**287,384**	**(114,169)**	**60%**
55	**Other Expense**					
56	Groundwater Replenishment	-	1,920,791	-	1,920,791	N/A
57	Reserve Refunds	-	1,542,183	-	1,542,183	N/A
58	**Total Other Expense**	**-**	**3,462,973**	**-**	**3,462,973**	**N/A**
59	**Total Expenses**	**1,469,552**	**11,103,894**	**12,265,312**	**(1,161,418)**	**91%**
60	**Increase / (Decrease) to Reserves**	**$ (1,408,970)**	**$ (136,336)**	**$ (2,451,485)**	**$ 2,315,149**	

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 March 31st, the target budget percentage is generally 75%.

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 6-11 Other Revenue – Includes pool replenishment assessments, interest income and other miscellaneous income.

Expenses

Lines 13-34 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 15 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 20 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 22 Insurance includes general liability insurance, directors' and officers' liability, municipalities coverage, environmental pollution liability and other various insurance policies. YTD is at 92% of budget due to the timing of annual renewals for the directors' and officers' policy and municipalities coverage.
- Line 23 Dues and Subscriptions is at 93% of budget due to the timing of annual dues for ACWA, SHRM, and CA Groundwater Coalition.
- Line 24 Watermaster Administrative Expenses include meeting expenses and supplies for admin, committee, and other meetings. YTD is at 89% due to increased meeting activity.
- Line 27 Training, Conferences, Seminars is at 78% of budget due to the timing of conferences and increased employee training expenses not anticipated in the budget.

Lines 35-46 Optimum Basin Management Plan (OBMP) Expense – Includes legal, engineering, groundwater level monitoring, allocated administrative expenses, and other expenses.

Lines 47-53 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 55-58 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 have 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 an 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 March 31, 2024 (continued next page):

Fund Balance For Non-Agricultural Pool Account 8567 - Legal Services			**Fund Balance For Appropriative Pool Account 8367 - Legal Services**		
Beginning Balance July 1, 2023:	$	56,965.90	Beginning Balance July 1, 2023:	$	(12,415.36)
Additions:			Additions:		
Interest Earnings		2,056.68	Interest Earnings		11,919.93
Payments received on ONAP Assessment invoices issued 11/18/23		25,000.00	Payments received on AP Pool Assessment invoices issued 10/30/23		178,107.17
Subtotal Additions:		27,056.68	Subtotal Additions:		190,027.10
Reductions:			Reductions:		
Invoices paid July 2023 - March 2024		(17,447.50)	Invoices paid July 2023 - March 2024		-
Budget Transfers		(2,000.00)	Subtotal Reductions:		-
Subtotal Reductions:		(19,447.50)			
			Available Fund Balance as of March 31, 2024	**$**	**177,611.74**
Available Fund Balance as of March 31, 2024	**$**	**64,575.08**			

Fund Balance For Non-Agricultural Pool Account 8511 - Meeting Compensation			**Fund Balance For Appropriative Pool Account 8368 - Tom Harder Contract**		
Beginning Balance July 1, 2020:	$	875.00	Beginning Balance July 1, 2023:	$	-
Additions:			Additions:		
Payments received on ONAP Assessment invoices issued 11/18/23		6,000.00			
Budget Transfers		2,000.00	Interest Earnings		-
Subtotal Additions:		8,000.00	Payments received on AP Pool Assessment invoices issued 10/30/23		20,577.61
			Subtotal Additions:		20,577.61
Reductions:					
Compensation paid July 2023 - March 2024		(5,000.00)	Reductions:		
Subtotal Reductions:		(5,000.00)	Invoices paid July 2023 - March 2024		-
			Subtotal Reductions:		-
Available Fund Balance as of March 31, 2024	**$**	**3,875.00**	**Available Fund Balance as of March 31, 2024**	**$**	**20,577.61**

Pool Services Fund Accounting – Cont.

Fund Balance for Agricultural Pool Account 8467 - Legal Services		**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	42,488.25
Total Additions:	144,935.99	Transfer of Funds from AP to Special Fund for Legal Service Invoices	105,910.50
		Total Additions:	148,398.75
Reductions:		Reductions:	
Invoices paid July 2023 - March 2024	(105,910.50)	Legal service invoices paid July 2023 - March 2024	(105,910.50)
Subtotal Reductions:	(105,910.50)	Total Reductions	(105,910.50)
Available Fund Balance as of March 31, 2024	**$ 80,701.12**	**Agricultural Pool Reserve Funds Balance as of Mar. 31, 2024:**	**$ 654,591.57**

Fund Balance For Agricultural Pool Account 8470 - Meeting Compensation		**Fund Balance For Agricultural Pool Account 8471 - Special Projects**	
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 - March 2024	(9,357.00)
Compensation paid July 2023 - March 2024	(35,500.00)	Budget Transfers[1]	(10,993.67)
Subtotal Reductions:	(35,500.00)	Subtotal Reductions:	(20,350.67)
Available Fund Balance as of March 31, 2024	**$ 5,431.85**	**Available Fund Balance as of March 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 March 31st, the target budget percentage is generally 75%.

	Year to Date Actual	FY 23-24 Budget	$ Over / (Under) Budget	% of Budget
WM Salary Expense				
5901.1 · Judgment Admin - Doc. Review	26,429	82,794	(56,365)	31.9%
5901.3 · Judgment Admin - Field Work	2,314	7,760	(5,446)	29.8%
5901.5 · Judgment Admin - General	50,594	60,129	(9,535)	84.1%
5901.7 · Judgment Admin - Meeting	9,718	2,633	7,085	369.1%
5901.9 · Judgment Admin - Reporting	1,324	31,033	(29,709)	4.3%
5910 · Judgment Admin - Court Coord./Attendar	8,774	19,098	(10,324)	45.9%
5911 · Judgment Admin - Exhibit G	1,592	2,370	(778)	67.2%
5921 · Judgment Admin - Production Monitorin	2,892	11,322	(8,430)	25.5%
5931 · Judgment Admin - Recharge Applicatior	-	4,634	(4,634)	0.0%
5941 · Judgment Admin - Reporting	530	1,316	(786)	40.3%
5951 · Judgment Admin - Rules & Regs	-	12,726	(12,726)	0.0%
5961 · Judgment Admin - Safe Yield	1,049	26,330	(25,281)	4.0%
5971 · Judgment Admin - Storage Agreements	2,081	4,739	(2,658)	43.9%
5981 · Judgment Admin - Water Accounting/Da	86,300	109,793	(23,493)	78.6%
5991 · Judgment Admin - Water Transactions	3,550	8,688	(5,138)	40.9%
6011.11 · WM Staff - Overtime	8,805	15,000	(6,195)	58.7%
6011.4 · 457(f) NQDC Plan	18,494	55,467	(36,973)	33.3%
6011.10 · Admin - Accounting	154,277	367,685	(213,408)	42.0%
6011.15 · Admin - Building Admin	3,900	18,359	(14,459)	21.2%
6011.20 · Admin - Conference/Seminars	23,071	57,083	(34,012)	40.4%
6011.25 · Admin - Document Review	659	6,846	(6,187)	9.6%
6011.50 · Admin - General	340,557	569,850	(229,293)	59.8%
6011.60 · Admin - HR	70,035	43,489	26,546	161.0%
6011.70 · Admin - IT	36,597	53,975	(17,378)	67.8%
6011.80 · Admin - Meeting	33,352	90,440	(57,088)	36.9%
6011.90 · Admin - Team Building	7,612	41,304	(33,692)	18.4%
6011.95 · Admin - Training (Give/Receive)	20,437	34,312	(13,875)	59.6%
6017· Temporary Services	28,757	24,000	4,757	119.8%
6201 · Advisory Committee	21,895	55,149	(33,254)	39.7%
6301 · Watermaster Board	69,765	61,818	7,947	112.9%
8301 · Appropriative Pool	31,620	53,761	(22,141)	58.8%
8401 · Agricultural Pool	10,403	51,549	(41,146)	20.2%
8501 · Non-Agricultural Pool	6,888	50,443	(43,555)	13.7%
6901.1 · OBMP - Document Review	25,652	89,136	(63,484)	28.8%
6901.3 · OBMP - Field Work	1,858	7,003	(5,145)	26.5%
6901.5 · OBMP - General	82,618	124,049	(41,431)	66.6%
6901.7 · OBMP - Meeting	24,777	57,589	(32,812)	43.0%
6901.9 · OBMP - Reporting	5,443	2,370	3,073	229.7%
7104.1 · PE1 - Monitoring Program	112,844	171,515	(58,671)	65.8%
7201 · PE2 - Comprehensive Recharge	32,147	57,925	(25,778)	55.5%
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.	4,450	8,027	(3,577)	55.4%
7501.1 · PE 7 - Salt Nutrient Mgmt. Plan	1,114	6,582	(5,468)	16.9%
7601 · PE8&9 - Storage Mgmt./Recovery	3,342	11,217	(7,875)	29.8%
Subtotal WM Staff Costs	**1,379,317**	**2,591,787**	**(1,212,470)**	**53%**
60184.1 · Administrative Leave	15,428	6,799	8,629	226.9%
60185 · Vacation	149,950	119,130	30,820	125.9%
60185.1 · Comp Time	1,194	-	1,194	100.0%
60186 · Sick Leave	-	-	-	0.0%
60187 · Holidays	-	-	-	0.0%
Subtotal WM Paid Leaves	**166,572**	**125,929**	**40,643**	**132%**
Total WM Salary Costs	**1,545,889**	**2,717,716**	**(1,171,827)**	**56.9%**

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 March 31st, the target budget percentage is generally 75%.

	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	43,971	126,204	(82,234)	34.8%
5906.72 · Judgment Admin - Data Requests-Non-CBWM Staff	6,276	42,832	(36,556)	14.7%
5925 · Judgment Admin - Ag Production & Estimation	22,928	34,376	(11,449)	66.7%
5935 · Judgment Admin - Mat'l Physical Injury Requests	3,131	36,072	(32,941)	8.7%
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	5,686	23,466	(17,780)	24.2%
6306 · Watermaster Board Meetings-WY Staff	20,699	23,466	(2,767)	88.2%
8306 · Appropriative Pool Meetings-WY Staff	16,549	23,467	(6,918)	70.5%
8406 · Agricultural Pool Meetings-WY Staff	14,187	23,466	(9,279)	60.5%
8506 · Non-Agricultural Pool Meetings-WY Staff	9,852	23,466	(13,614)	42.0%
6901.8 · OBMP - Meetings-WY Staff	37,692	45,096	(7,404)	83.6%
6901.95 · OBMP - Reporting-WY Staff	53,194	57,316	(4,123)	92.8%
6906 · OBMP Engineering Services - Other	27,295	46,992	(19,697)	58.1%
6906.26 · 2020 OBMP Update	4,508	24,016	(19,508)	18.8%
7104.3 · Grdwtr Level-Engineering	167,424	256,445	(89,021)	65.3%
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	6,092	29,084	(22,992)	20.9%
7202.2 · PE2-Comp Recharge-Engineering Services	36,314	202,362	(166,048)	17.9%
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	36,063	69,121	(33,058)	52.2%
7303 · PE3&5-Engineering - Other	-	-	-	0.0%
7306 · PE3&5-Engineering - Outside Professionals	1,280	6,500	(5,220)	19.7%
7402 · PE4-Engineering	150,439	262,544	(112,105)	57.3%
7402.10 · PE4-Northwest MZ1 Area Project	85,080	271,703	(186,623)	31.3%
7403 · PE4-Eng. Services-Contracted Services-InSar	21,365	175,000	(153,635)	12.2%
7406 · PE4-Engineering Services-Outside Professionals	15,126	76,552	(61,426)	19.8%
7408 · PE4-Engineering Services-Network Equipment	5,171	14,081	(8,910)	36.7%
7502 · PE6&7-Engineering	-	-	-	0.0%
7505 · PE6&7-Laboratory Services	31,066	49,164	(18,098)	63.2%
7508 · HC Mitigation Plan-50% IEUA (TO #6)	7,990	10,703	(2,713)	74.7%
7510 · PE6&7-IEUA Salinity Mgmt. Plan	16,073	34,631	(18,558)	46.4%
7511 · PE6&7-SAWBMP Task Force-50% IEUA	9,667	24,610	(14,944)	39.3%
7517 · Surface Water Monitoring Plan-Chino Creek - 50% IEUA	31,510	69,821	(38,311)	45.1%
7520 · Preparation of Water Quality Mgmt. Plan	76,394	157,692	(81,298)	48.4%
7610 · PE8&9-Support 2020 Mgmt. Plan	13,687	69,306	(55,618)	19.7%
7614 · PE8&9-Support Imp. Safe Yield Court Order	492,354	663,747	(171,393)	74.2%
7620 · OBMP - Evaluation of Extreme Future Planning Scenarios	9,510	51,130	(41,621)	18.6%
Total Engineering Services Costs	**$ 1,523,994**	**$ 3,355,387**	**$ (1,821,884)**	**45.4%**

* 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 March 31st, the target budget percentage is generally 75%.

	Year to Date Actual	FY 23-24 Budget	$ Over / (Under) Budget	% of Budget
6070 · Watermaster Legal Services				
6071 · BHFS Legal - Court Coordination	$ 278,904	$ 171,260	$ 107,644	162.9%
6072 · BHFS Legal - Rules & Regulations	-	92,900	(92,900)	0.0%
6073 · BHFS Legal - Personnel Matters	285,176	10,820	274,356	2635.6%
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)	-	-	-	0.0%
Total 6070 · Watermaster Legal Services	**565,286**	**332,414**	**232,872**	**170.1%**
6275 · BHFS Legal - Advisory Committee	3,821	26,708	(22,887)	14.3%
6375 · BHFS Legal - Board Meeting	58,184	85,272	(27,088)	68.2%
6375.1 · BHFS Legal - Board Workshop(s)	-	18,499	(18,499)	0.0%
8375 · BHFS Legal - Appropriative Pool	7,733	33,385	(25,652)	23.2%
8475 · BHFS Legal - Agricultural Pool	7,733	33,385	(25,652)	23.2%
8575 · BHFS Legal - Non-Ag Pool	-	-	-	0.0%
Total BHFS Legal Services	**77,471**	**197,249**	**(119,778)**	**39.3%**
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	3,037	20,595	(17,558)	14.7%
6907.36 · Santa Ana River Habitat	-	30,090	(30,090)	0.0%
6907.38 · Reg. Water Quality Cntrl Board	2,484	30,090	(27,606)	8.3%
6907.39 · Recharge Master Plan	38,876	30,495	8,381	127.5%
6907.40 · Storage Agreements	-	16,960	(16,960)	0.0%
6907.41 · Prado Basin Habitat Sustainability	-	9,900	(9,900)	0.0%
6907.44 · SGMA Compliance	-	9,900	(9,900)	0.0%
6907.45 · OBMP Update	195,930	172,880	23,050	113.3%
6907.47 · 2020 Safe Yield Reset	15,625	33,920	(18,295)	46.1%
6907.48 · Ely Basin Investigation	86,869	126,040	(39,171)	68.9%
6907.90 · WM Legal Counsel - Unanticipated	-	37,395	(37,395)	0.0%
Total 6907 · WM Legal Counsel	**344,899**	**579,635**	**(234,736)**	**59.5%**
Total Brownstein, Hyatt, Farber, Schreck Costs	**$ 987,656**	**$ 1,109,298**	**$ (121,642)**	**89.0%**

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 March 31st, the target budget percentage is generally 75%.

	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	$ 25,652	$ 89,136	$ (63,484)	28.8%
6901.3 · OBMP - Field Work-WM Staff	1,858	7,003	(5,145)	26.5%
6901.5 · OBMP - General-WM Staff	82,618	124,049	(41,431)	66.6%
6901.7 · OBMP - Meeting-WM Staff	24,777	57,589	(32,812)	43.0%
6901.8 · OBMP - Meeting-West Yost	37,692	45,096	(7,404)	83.6%
6901.9 · OBMP - Reporting-WM Staff	5,443	2,370	3,073	229.7%
6901.95 · OBMP - Reporting-West Yost	53,194	57,316	(4,123)	92.8%
Total 6901 · OBMP WM and West Yost Staff	**231,233**	**382,559**	**(151,326)**	**60.4%**
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	27,295	46,992	(19,697)	58.1%
Total 6906 · OBMP Engineering Services	**50,692**	**112,243**	**(61,551)**	**45.2%**
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	3,037	20,595	(17,558)	14.7%
6907.36 · Santa Ana River Habitat	-	30,090	(30,090)	0.0%
6907.38 · Reg. Water Quality Cntrl Board	2,484	30,090	(27,606)	8.3%
6907.39 · Recharge Master Plan	38,876	30,495	8,381	127.5%
6907.40 · Storage Agreements	-	16,960	(16,960)	0.0%
6907.41 · Prado Basin Habitat Sustainability	-	9,900	(9,900)	0.0%
6907.44 · SGMA Compliance	-	9,900	(9,900)	0.0%
6907.45 · OBMP Update	195,930	172,880	23,050	113.3%
6907.47 · 2020 Safe Yield Reset	15,625	33,920	(18,295)	46.1%
6907.48 · Ely Basin Investigation	86,869	126,040	(39,171)	68.9%
6907.90 · WM Legal Counsel - Unanticipated	-	37,395	(37,395)	0.0%
Total 6907 · OBMP Legal Fees	**344,899**	**579,635**	**(234,736)**	**59.5%**
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	**$ 730,781**	**$ 1,215,309**	**$ (484,528)**	**60.1%**

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 March 31st, the target budget percentage is generally 75%.

	Year to Date Actual	FY 23-24 Budget	$ Over / (Under) Budget	% of Budget
5901 · Admin-WM Staff				
5901.1 · Admin-Doc. Review-WM Staff	$ 26,429	$ 82,794	$ (56,365)	31.9%
5901.3 · Admin-Field Work-WM Staff	2,314	7,760	(5,446)	29.8%
5901.5 · Admin-General-WM Staff	50,594	60,129	(9,535)	84.1%
5901.7 · Admin-Meeting-WM Staff	9,718	2,633	7,085	369.1%
5901.8 · Admin-Meeting - West Yost	-	45,097	(45,097)	0.0%
5901.9 · Admin-Reporting-WM Staff	1,324	31,033	(29,709)	4.3%
Total 5901 · Admin-WM Staff	**90,378**	**229,446**	**(139,068)**	**39.4%**
5900 · Judgment Admin Other Expenses				
5906.71 · Admin-Data Req-CBWM Staff	43,971	126,204	(82,234)	34.8%
5906.72 · Admin-Data Req-Non CBWM Staff	6,276	42,832	(36,556)	14.7%
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	2,892	11,322	(8,430)	25.5%
5925 · Ag Prod & Estimation-West Yost	22,928	34,376	(11,449)	66.7%
5931 · Recharge Applications-WM Staff	-	4,634	(4,634)	0.0%
5935 · Admin-Mat'l Phy Inj Requests	3,131	36,072	(32,941)	8.7%
5941 · Reporting-WM Staff	530	1,316	(786)	40.3%
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	1,049	26,330	(25,281)	4.0%
5965 · Support Data Collect-West Yost	5,496	36,336	(30,841)	15.1%
5971 · Storage Agreements-WM Staff	2,081	4,739	(2,658)	43.9%
5981 · Water Acct/Database-WM Staff	86,300	109,793	(23,493)	78.6%
5991 · Water Transactions-WM Staff	3,550	8,688	(5,138)	40.9%
Total 5900 · Judgment Admin Other Expenses	**200,239**	**492,252**	**(292,013)**	**40.7%**
Total 5900 · Judgment Administration	**$ 290,618**	**$ 721,698**	**$ (431,080)**	**40.3%**

"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: May 23, 2024

TO: Board Members

SUBJECT: Application for Recharge – Fontana Water Company (MAR) (Consent Calendar Item I.C.)

SUMMARY:

Issue: On March 27, 2024, Fontana Water Company submitted an Application for Recharge for up to 250 acre-feet per year from September 2021 until September 2027 to be recharged to a pilot project located at a vineyard south of Beech Avenue and east of Cherry Avenue in the City of Fontana. [Within WM Duties and Powers]

Recommendation: Approve Fontana Water Company's Application for Recharge and direct Watermaster staff to account for this supplemental water recharge in Fontana Water Company's existing Local Supplemental account.

Financial Impact: None

Future Consideration
Watermaster Board – May 23, 2024: Approval

ACTIONS:
Appropriative Pool – April 11, 2024: Unanimously recommended Advisory Committee to recommend Watermaster Board to approve.
Non-Agricultural Pool – April 11, 2024: Unanimously recommended its representatives to support at Advisory Committee and Watermaster Board subject to changes they deem appropriate.
Agricultural Pool – April 11, 2024: Unanimously recommended Advisory Committee to recommend Watermaster Board to approve.
Advisory Committee – May 16, 2024: Unanimously recommended to Watermaster Board to approve.
Watermaster Board – May 23, 2024:

BACKGROUND

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

Where there is no Material Physical Injury (MPI), Watermaster must approve the application. Where the request for Watermaster approval is submitted by a Party to the Judgment, there is a rebuttable presumption that most of the proposed activities 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).

DISCUSSION

On March 27, 2024, Fontana Water Company (FWC) submitted an application for recharge for up to 250 acre-feet per year from September 2021 until September 2027. The application states that the method of recharge will be surface spreading into a vineyard located along the south side of Beech Avenue and east of Cherry Avenue in the City of Fontana. The Application identifies the source water to be treated Lytle Creek surface water. Recharge by injection is not subject to evaporative losses.

FWC currently has an approved Recharge Application for 100 acre-feet per year until September 2026. However, the recharge at the vineyard has performed well enough that FWC would like to increase the amount of recharge per year to 250 acre-feet. Approval of this March 27, 2024 Application will cause it to supersede and terminate the previous application.

West Yost, Watermaster's Engineer, completed an MPI analysis on April 3, 2024, declaring no negative impacts to the Basin from this proposed recharge event (see Attachment 2).

Once approved, FWC must complete Form 2b *Request to Recharge Supplemental Water by a Person to Watermaster* for each recharge event during the application's proposed period. During the recharge event, Watermaster will collect data to ensure the water is properly accounted for. Upon completion of the recharge event, FWC will be required to submit Form 2c *Report of Supplemental Water Recharge by a Person* to Watermaster for final review and accounting.

On April 18, 2024, the item was considered by the three Pool Committees and was unanimously recommended for Board Approval. At the May 16, 2024 Advisory Committee meeting, the item was unanimously recommended for Board approval.

ATTACHMENTS

1. Fontana Water Company Recharge Application (MAR) Dated March 27, 2024
2. April 3, 2024 letter from West Yost to Watermaster: *Analysis of Material Physical Injury for the Fontana Water Company (FWC) Recharge Application, Submitted to the Chino Basin Watermaster on March 27, 2024*
3. Summit Treatment Plant Title 22 Samples 2023
4. Notice Forms

Form 2a - Application for Supplemental Water Recharge

Applicant Information and Recharge Request			
Person	Fontana Water Company (FWC)	Date Requested	3/25/2024
Contact (individual)	Oscar Ramos	Date Approved	
Street Address	15966 Arrow Route	Proposed Period of Time Covered by Recharge Application (mm/yyyy to mm/yyyy)	09/2021 to 09/2027
City	Fontana Water Company		
State	CA		
Zip Code	92335	Requested Total Amount of Recharge Over the Application Period (AF)	Increase from 100 to 250 per year
Telephone	909-822-2201		
Fax	909-823-5046	Approved Total Amount of Recharge Over the Application Period (AF)	
Email	omramos@sgvwater.com		

Source(s) of Supply (check box and provide supporting information)		
( )	State Water Project	
( )	Colorado River Aqueduct	
(✔)	Local Supplemental (identify source and attach source water quality characterization including TDS and TN; use as many sheets as necessary)	Treated Lytle Creek Water from Summit Treatment Plant (F14)
( )	Recycled Water (identify source and attach source water quality characterization including TDS and TN; use as many sheets as necessary)	
( )	Other (identify source and attach source water quality characterization including TDS and TN; use as many sheets as necessary)	

Method of Recharge (check box and provide supporting information)		
(✔)	Surface Spreading	
	Recharge Basin Name(s)	Vineyard Pilot - S/Beech Ave & E/Cherry Ave
	Expected Period of Recharge (mm/dd to mm/dd)	Varies
	Depth to Water in Recharge Area (ft-bgs)	Unknown
	Water Quality in Recharge Area (attach characterization)	Treated to Potable Standards.
( )	Injection	
	Well Names and Locations (attach well completion report if not on file with the Watermaster)	
	Expected Period of Recharge (mm/dd to mm/dd)	
	Depth to Water in Recharge Area (ft-bgs)	
	Water Quality in Recharge Area (attach characterization)	
( )	In-Lieu Exchange	
	Treatment Plant and Turnout	
	Share of Safe Yield (percent and AFY)	
	Carryover Right, if Applicable (AF)	
	Water in Storage (AF)	
	Pumping Capacity (mgd or AFM)	
	Expected Period of Recharge (mm/dd to mm/dd)	
	Depth to Water in Area Impacted by In-Lieu Recharge (ft-bgs)	
	Water Quality in Area Impacted by In-Lieu Recharge (attach characterization)	

Form 2a - Application for Supplemental Water Recharge

Material Physical Injury

Is the applicant aware of any potential material physical injury to a Party to the Judgment or the Basin that may be caused by the action covered by the Application? ☐ YES ☒ NO

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 or the Basin (provide list of mitigation measures and rational either below or attach one to this application)

BY: _____ Applicant

3/27/2024 Date

To Be Completed by Watermaster

Is the Person a Party to the Judgment that has:

Previously contributed to the implementation of the OBMP? ☐ YES ☐ NO

Is in compliance with their continuing covenants under the Peace Agreement? ☐ YES ☐ NO

(If answer to previous question is NO)

Paid or delivered to Watermaster "financial equivalent" consideration to offset the past performance prior to the OBMP implementation? ☐ YES ☐ NO

Promised continued future compliance with Watermaster Rules and Regulations? ☐ YES ☐ NO

Date of Approval from Appropriative Pool (mm/dd/yyyy) _____

Date of Approval from Overlying Non-Ag Pool (mm/dd/yyyy) _____

Date of Approval from Overlying Ag Pool (mm/dd/yyyy) _____

Hearing Date (if any) (mm/dd/yyyy) _____

Date of Approval by Advisory Committee (mm/dd/yyyy) _____

Date of Approval from Board (mm/dd/yyyy) _____

Recharge Agreement Number _____

WEST YOST
Water. Engineered.

23692 Birtcher Drive
Lake Forest CA 92630

949.420.3030 phone
530.756.5991 fax
westyost.com

April 3, 2024

Project No.: 941-80-23-03
SENT VIA: EMAIL

Chino Basin Watermaster
Attention: Mr. Edgar Tellez Foster, Acting General Manager
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

SUBJECT: Analysis of Material Physical Injury for the Fontana Water Company (FWC) Recharge Application, Submitted to the Chino Basin Watermaster on March 27, 2024 (hereafter March 27, 2024 recharge application)

Mr. Tellez Foster:

Pursuant to your direction, West Yost Associates, Inc. (West Yost) conducted a material physical injury (MPI) analysis on a Recharge Application submitted by the Fontana Water Company (FWC) to the Chino Basin Watermaster on March 27, 2024 (hereafter, March 27, 2024, recharge application). This MPI analysis was completed pursuant to the Watermaster Rules and Regulations and the Peace Agreement.

In 2016, Watermaster approved a procedure for the recharge of supplemental water. This procedure includes three main steps:

1. Apply for and obtain Watermaster approval to recharge Supplemental Water;
2. Plan, schedule, coordinate, and execute a Supplemental Water recharge event; and
3. Provide the monitoring and accounting necessary to enable the applicant and Watermaster to determine how much water was actually recharged during a recharge event and to account for the recharged water

Under Step 1, Any Person seeking to recharge Supplemental Water is required to complete Watermaster Form No. 2a *Application for Recharge*.[1] Watermaster staff reviews the completed application and conducts an analysis to determine if the proposed recharge as described in the recharge application will cause potential MPI.

Pursuant to the Peace Agreement (page 8), MPI is defined as:

> *"[…] material injury that is attributable to Recharge, Transfer, storage and recovery, management, movement or Production of water or implementation of the OBMP, including, but not limited to, degradation of water quality, liquefaction, land*

[1] https://www.cbwm.org/pages/forms/

> *subsidence, increases in pump lift and adverse impacts associated with rising groundwater."*

Article 10 of the Watermaster Rules and Regulations (paragraph 10.10) requires that:

> *"[…] Watermaster prepare a written summary and analysis (which will include an analysis of the potential for material physical injury) of the Application and provide the Parties with a copy of the written summary and advanced notice of the date of Watermaster's scheduled consideration and possible action on any pending Applications."*

The MPI analysis presented herein is based on our professional experience and judgment in the Chino Basin, including the past analyses of monitoring data, past evaluations of Chino Basin storage programs, past groundwater modeling of various groundwater management alternatives in the Chino Basin, and prior MPI analyses.

FWC'S RECHARGE APPLICATION OF MARCH 27, 2024

In June 2021, FWC submitted, and the Watemaster Board approved, a recharge application to recharge up to 100 af per year (afy) of Lytle Creek water at a working vineyard located south of Beech Avenue and east of Cherry Avenue, east of the San Sevaine basins (the vineyard) during the five-year period of September 2021 through September 2026. The March 27, 2024 recharge application proposes to increase the rate of recharge from 100 to 250 afy and to extend the recharge period through September 2027. The recharge water would be treated to potable standards at FWC's Summit Water Treatment Plant, formally known as the Sandhill Treatment Plant, and diverted into the vineyard from the FWC distribution system. Watermaster classifies the water proposed to be recharged by the FWC as supplemental water.

West Yost evaluated for the following to determine the potential for MPI from the proposed recharge:

- Impacts to groundwater levels that could result in liquefaction, land subsidence, and/or increases in pump lifts at wells.
- Impacts to the balance of recharge and discharge in every area and subarea of the Chino Basin.
- Impacts to groundwater quality.

Potential Impacts to Groundwater Level

The proposed project will produce a localized increase in groundwater levels in the vicinity of the vineyard where the recharge occurs. The temporary increase in groundwater levels will be followed by a return to the groundwater levels that would occur had the water not been recharged. The impacts of these localized changes in groundwater levels are described below:

- *Liquefaction*. As of March 2024, the depth to groundwater is about 628 feet below ground surface (bgs) beneath vineyard; groundwater-level data at Inland Empire Utilities Agency's (IEUA) San Sevaine 1-1 monitoring well, located southeast of the vineyard, suggests that there is perched groundwater near the vineyard with at a depth to groundwater of about 192 feet bgs. Provided that the FWC conducts recharge at the vineyard such that groundwater levels remain

below 50 feet bgs,[2] there will be no threat of liquefaction due to the localized increases in groundwater levels.

- *Land subsidence*. Land subsidence due to changes in groundwater levels typically occurs with declining groundwater levels. Thus, there will be no threat of aquifer-system compaction and land subsidence due to the localized increases in groundwater levels caused by the recharge.
- *Pumping lifts*. Because of the temporary increases in groundwater levels, pumping lifts and pumping costs may be slightly reduced for wells in the vicinity of the recharge.

Balance of Recharge and Discharge in Every Area and Subarea

Per the March 27, 2024, recharge application for the vineyard, the FWC intends to use the proposed recharge to partially offset its replenishment obligation. The vineyard is located in MZ2 and the FWC's pumping wells are located in MZ3. Figure 7-11d from the 2020 Safe Yield Recalculation Final Report (WEI, 2020)[3] shows the projected change in groundwater levels from 2018 through 2050. Review of this map indicates that for the period 2018 through 2050, groundwater levels are projected to decline more in the northern part of MZ2 (more than 20 feet) than the northern part of MZ3 (between 10 and 20 feet). The proposed recharge will contribute to improving the balance of recharge and discharge in MZ2.

Water Quality Impacts

The source of the supplemental water in the FWC's March 27, 2024, recharge application is Lytle Creek water treated to potable standards. West Yost obtained water quality data of the source water from the FWC and the Watemaster's database for the period 2016-2023. These data indicate no exceedances of primary California Title 22 maximum contaminant levels (MCLs).

Impacts to Receiving Waters

The proposed recharge water is of equal or better quality than current groundwater in the area of recharge; hence, recharge of this water will likely improve the general water quality in the vicinity of the vineyard.

Additionally, Watermaster recently conducted a groundwater modeling study to evaluate a 100,000 af storage and recovery program in the Chino Basin, which included recharge in the San Sevaine Basins. The study concluded that the "displacements [of contaminant plumes due to the storage and recovery program] are negligible and are not potential MPI."[4] Based on these results and the location and magnitude of the proposed recharge, our professional opinion is that the proposed recharge will not change the direction and/or speed of movement of known contaminant plumes in the Chino Basin.

Basin Plan Compliance

The proposed recharge will occur in the Chino North Groundwater Management Zone (GMZ). The 2004 Regional Water Quality Control Plan for the Santa Ana Basin (Basin Plan) has maximum benefit-based TDS

[2] Per the County of Riverside's 2003 Riverside County Integrated Project (RCIP) Environmental Impact Report (EIR), areas with depth to groundwater of greater than 50 feet are considered low risk for liquefaction.
[3] https://cbwm.syncedtool.com/shares/folder/e83081106c3072/?folder_id=2512
[4] West Yost (2021). *Evaluation of the Local Storage Limitation Solution*. February 2021.

and nitrate (expressed as nitrogen) concentration objectives in the Chino-North GMZ of 420 milligrams per liter (mg/L) and 5 mg/L, respectively. Pursuant to the Basin Plan, Watermaster and the IEUA are required to manage artificial recharge in Chino North GMZ such that the five-year, volume-weighted average TDS and nitrate concentrations of the recycled water, imported water, and new stormwater recharged across all recharge facilities does not exceed the maximum benefit-based Basin Plan objectives.

Based on the water quality data from the FWC and the Watemaster's database for the period 2016-2023, the TDS and nitrate concentrations of the water proposed to be recharged are generally less than 320 mgl and 1 mgl, respectively. The current ambient TDS and nitrate concentrations in the Chino-North GMZ (covering the 20-year period from 2001 to 2021) are 360 mg/L and 10.8 mg/L,[5] respectively. Thus, the proposed recharge will not encroach on the current assimilative capacity or interfere with Watermaster and the IEUA's regulatory obligations.

Conclusion

Based on the information available at this time, our professional opinion is that there will be no MPI due to FWC's proposed recharge as described in its March 27, 2024, recharge application.

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

Sincerely,
WEST YOST

Carolina Sanchez

Carolina Sanchez, PE
Senior Engineer
RCE #85598

cc: Justin Nakano

[5] West Yost (2023). *2021 Ambient Water Quality Pilot Study*. Prepared for the Santa Ana Watershed Project Authority Basin Monitoring Program Task Force. October 2023.

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 3D19140

Project: Summit - Treated Title 22 Monitoring

Attn: Cris I. Fealy

Client: San Gabriel Valley Water Company - Fontana
P. O. Box 6010
El Monte, CA 91734

Report Date: 6/05/2023
Received Date: 4/19/2023
Turnaround Time: Normal
Phones: (626) 448-6183
Fax: (626) 582-1571
P.O. #:
Billing Code:

Dear Cris I. Fealy :

Enclosed are the results of analyses for samples received 4/19/2023 with the Chain-of-Custody document. The samples were received in good condition, at 2.5 °C and on ice. All analysis met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample: 3076 - Summit - Treated, RegID: CA3610041_076_076
3D19140-01 (Water)

Sampled: 04/19/23 10:45 by Ben Wilkins

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: _Various			**Instr:** [CALC]				
Batch ID: [CALC] **Preparation:** [CALC]			**Prepared:** 04/26/23 11:56				**Analyst:** RJR
Total Anions	**3.2**		0.13	meq/l	1	04/27/23	
Total Cations	**3.0**		0.12	meq/l	1	04/28/23	
Total hardness as CaCO3	**133**		3.31	mg/l	1	04/28/23	
Method: AWWA			**Instr:** [CALC]				
Batch ID: W3E0333 **Preparation:** _NONE (METALS)			**Prepared:** 05/03/23 12:08				**Analyst:** ntl
Aggressive Index	**12.0**			AGI	1	05/03/23	
Method: EPA 140.1			**Instr:** _ANALYST				
Batch ID: W3D1790 **Preparation:** _NONE (WETCHEM)			**Prepared:** 04/19/23 17:11				**Analyst:** heq
Threshold Odor Number	ND		1.0	T.O.N.	1	04/19/23 19:08	
Method: EPA 1613B			**Instr:** GCMS15				
Batch ID: W3D2507 **Preparation:** EPA 3510C			**Prepared:** 04/28/23 07:34				**Analyst:** EFC
2,3,7,8-TCDD (Dioxin)	ND		5.00	pg/l	1	05/03/23	
Method: EPA 180.1			**Instr:** TURB01				
Batch ID: W3D1789 **Preparation:** _NONE (WETCHEM)			**Prepared:** 04/19/23 17:08				**Analyst:** CPT
Turbidity	**0.25**		0.10	NTU	1	04/19/23 18:21	
Method: EPA 200.7			**Instr:** ICP03				
Batch ID: W3D2331 **Preparation:** EPA 200.2			**Prepared:** 04/26/23 11:56				**Analyst:** kvm
Boron, Total	**12**		10	ug/l	1	04/28/23	
Calcium, Total	**42.7**		0.500	mg/l	1	04/28/23	
Iron, Total	ND		30	ug/l	1	04/28/23	

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Sample Results

(Continued)

Sample: 3076 - Summit - Treated, RegID: CA3610041_076_076
3D19140-01 (Water)

Sampled: 04/19/23 10:45 by Ben Wilkins
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7			**Instr:** ICP03				
Batch ID: W3D2331 **Preparation:** EPA 200.2			**Prepared:** 04/26/23 11:56				**Analyst:** kvm
Magnesium, Total	**6.39**		0.500	mg/l	1	04/28/23	
Potassium, Total	**2.0**		0.50	mg/l	1	04/28/23	
Sodium, Total	**7.2**		1.0	mg/l	1	04/28/23	
Method: EPA 200.8			**Instr:** ICPMS04				
Batch ID: W3D2332 **Preparation:** EPA 200.2			**Prepared:** 04/26/23 16:00				**Analyst:** tyc
Aluminum, Total	**120**		20	ug/l	1	04/27/23	
Antimony, Total	ND		0.50	ug/l	1	04/27/23	
Arsenic, Total	**1.1**		0.50	ug/l	1	04/27/23	
Barium, Total	**15**		1.0	ug/l	1	04/27/23	
Beryllium, Total	ND		0.10	ug/l	1	04/27/23	
Cadmium, Total	ND		0.50	ug/l	1	04/27/23	
Chromium, Total	ND		2.0	ug/l	1	04/27/23	
Copper, Total	ND		1.0	ug/l	1	04/27/23	
Lead, Total	ND		0.20	ug/l	1	04/27/23	
Manganese, Total	ND		1.0	ug/l	1	04/27/23	
Nickel, Total	ND		2.0	ug/l	1	04/27/23	
Selenium, Total	ND		0.50	ug/l	1	04/27/23	
Silver, Total	ND		0.20	ug/l	1	04/27/23	
Thallium, Total	ND		0.20	ug/l	1	04/27/23	
Zinc, Total	ND		10	ug/l	1	04/27/23	
Method: EPA 245.1			**Instr:** HG03				
Batch ID: W3D2398 **Preparation:** EPA 245.1			**Prepared:** 04/27/23 08:57				**Analyst:** KVM
Mercury, Total	ND		0.050	ug/l	1	04/27/23	
Method: EPA 300.0			**Instr:** LC12				
Batch ID: W3D2293 **Preparation:** _NONE (LC)			**Prepared:** 04/26/23 10:16				**Analyst:** RJR
Chloride, Total	**4.6**		0.50	mg/l	1	04/27/23	
Fluoride, Total	**0.29**		0.10	mg/l	1	04/27/23	
Sulfate as SO4	**18**		0.50	mg/l	1	04/27/23	
Method: EPA 314.0			**Instr:** LC08_Channel1				
Batch ID: W3D1868 **Preparation:** _NONE (LC)			**Prepared:** 04/20/23 10:07				**Analyst:** JAN
Perchlorate	ND	0.39	2.0	ug/l	1	04/20/23	
Method: EPA 335.4			**Instr:** AA01				
Batch ID: W3D2256 **Preparation:** _NONE (WETCHEM)			**Prepared:** 04/25/23 17:03				**Analyst:** ISM
Cyanide, Total	ND		5.0	ug/l	1	04/27/23	
Method: EPA 353.2			**Instr:** AA01				
Batch ID: W3D1792 **Preparation:** _NONE (WETCHEM)			**Prepared:** 04/19/23 17:25				**Analyst:** ism
Nitrate as N	**0.40**		0.20	mg/l	1	04/19/23 18:40	
Nitrite as N	ND		100	ug/l	1	04/19/23 18:40	
NO2+NO3 as N	**400**		200	ug/l	1	04/19/23	

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Sample Results

(Continued)

Sample: 3076 - Summit - Treated, RegID: CA3610041_076_076
3D19140-01 (Water)

Sampled: 04/19/23 10:45 by Ben Wilkins
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 508.1			**Instr:** GC08				
Batch ID: W3E0107 **Preparation:** EPA 508.1/SPE			**Prepared:** 05/02/23 08:13			**Analyst:** rjg	
4,4´-DDD	ND		0.010	ug/l	1	05/10/23	
4,4´-DDE	ND		0.010	ug/l	1	05/10/23	
4,4´-DDT	ND		0.010	ug/l	1	05/10/23	
Aldrin	ND		0.010	ug/l	1	05/10/23	
alpha-BHC	ND		0.010	ug/l	1	05/10/23	
Aroclor 1016	ND		0.10	ug/l	1	05/10/23	
Aroclor 1221	ND		0.10	ug/l	1	05/10/23	
Aroclor 1232	ND		0.10	ug/l	1	05/10/23	
Aroclor 1242	ND		0.10	ug/l	1	05/10/23	
Aroclor 1248	ND		0.10	ug/l	1	05/10/23	
Aroclor 1254	ND		0.10	ug/l	1	05/10/23	
Aroclor 1260	ND		0.10	ug/l	1	05/10/23	
beta-BHC	ND		0.010	ug/l	1	05/10/23	
Chlordane (tech)	ND		0.10	ug/l	1	05/10/23	
Chlorothalonil	ND		0.050	ug/l	1	05/10/23	
delta-BHC	ND		0.010	ug/l	1	05/10/23	
Dieldrin	ND		0.010	ug/l	1	05/10/23	
Endosulfan I	ND		0.010	ug/l	1	05/10/23	
Endosulfan II	ND		0.010	ug/l	1	05/10/23	
Endosulfan sulfate	ND		0.010	ug/l	1	05/10/23	
Endrin	ND		0.010	ug/l	1	05/10/23	
Endrin aldehyde	ND		0.010	ug/l	1	05/10/23	
gamma-BHC (Lindane)	ND		0.010	ug/l	1	05/10/23	
Heptachlor	ND		0.010	ug/l	1	05/10/23	
Heptachlor epoxide	ND		0.010	ug/l	1	05/10/23	
Hexachlorobenzene	ND		0.050	ug/l	1	05/10/23	
Hexachlorocyclopentadiene	ND		0.050	ug/l	1	05/10/23	
Methoxychlor	ND		0.010	ug/l	1	05/10/23	
PCBs, Total	ND		0.50	ug/l	1	05/10/23	
Propachlor	ND		0.050	ug/l	1	05/10/23	
Toxaphene	ND		1.0	ug/l	1	05/10/23	
Trifluralin	ND		0.010	ug/l	1	05/10/23	
Surrogate(s)							
4,4-Dibromobiphenyl	*115%*		*70-130*	*Conc: 0.109*		*05/10/23*	
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W3D2392 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 04/27/23 08:14			**Analyst:** rjg	
2,4,5-T	ND		0.20	ug/l	1	05/06/23	
2,4,5-TP (Silvex)	ND		0.20	ug/l	1	05/06/23	
2,4-D	ND		0.40	ug/l	1	05/06/23	
2,4-DB	ND		2.0	ug/l	1	05/06/23	

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Sample Results

(Continued)

Sample: 3076 - Summit - Treated, RegID: CA3610041_076_076
3D19140-01 (Water)

Sampled: 04/19/23 10:45 by Ben Wilkins
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W3D2392 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 04/27/23 08:14				**Analyst:** rjg
3,5-Dichlorobenzoic acid	ND		1.0	ug/l	1	05/06/23	
Acifluorfen	ND		0.40	ug/l	1	05/06/23	
Bentazon	ND		2.0	ug/l	1	05/06/23	
Dalapon	ND		0.40	ug/l	1	05/06/23	
DCPA	ND		0.10	ug/l	1	05/06/23	
Dicamba	ND		0.60	ug/l	1	05/06/23	
Dichloroprop	ND		0.30	ug/l	1	05/06/23	
Dinoseb	ND		0.40	ug/l	1	05/06/23	
Pentachlorophenol	ND		0.20	ug/l	1	05/06/23	
Picloram	ND		0.60	ug/l	1	05/06/23	
Surrogate(s)							
2,4-DCAA	*96%*		*70-130*	*Conc: 9.61*		*05/06/23*	
Method: EPA 524.2			**Instr:** GCMS08				
Batch ID: W3D1819 **Preparation:** EPA 5030B			**Prepared:** 04/20/23 06:25				**Analyst:** cam
1,1,1,2-Tetrachloroethane	ND		0.50	ug/l	1	04/21/23	
1,1,1-Trichloroethane	ND		0.50	ug/l	1	04/21/23	
1,1,2,2-Tetrachloroethane	ND		0.50	ug/l	1	04/21/23	
1,1,2-Trichloroethane	ND		0.50	ug/l	1	04/21/23	
1,1-Dichloroethane	ND		0.50	ug/l	1	04/21/23	
1,1-Dichloroethene	ND		0.50	ug/l	1	04/21/23	
1,1-Dichloropropene	ND		0.50	ug/l	1	04/21/23	
1,2,3-Trichlorobenzene	ND		0.50	ug/l	1	04/21/23	
1,2,4-Trichlorobenzene	ND		0.50	ug/l	1	04/21/23	
1,2,4-Trimethylbenzene	ND		0.50	ug/l	1	04/21/23	
1,2-Dichloroethane	ND		0.50	ug/l	1	04/21/23	
1,2-Dichloropropane	ND		0.50	ug/l	1	04/21/23	
1,3,5-Trimethylbenzene	ND		0.50	ug/l	1	04/21/23	
1,3-Dichloropropane	ND		0.50	ug/l	1	04/21/23	
1,3-Dichloropropene, Total	ND		0.50	ug/l	1	04/21/23	
2,2-Dichloropropane	ND		0.50	ug/l	1	04/21/23	
2-Butanone	ND		5.0	ug/l	1	04/21/23	
2-Chlorotoluene	ND		0.50	ug/l	1	04/21/23	
2-Hexanone	ND		5.0	ug/l	1	04/21/23	
4-Chlorotoluene	ND		0.50	ug/l	1	04/21/23	
4-Methyl-2-pentanone	ND		5.0	ug/l	1	04/21/23	
Benzene	ND		0.50	ug/l	1	04/21/23	
Bromobenzene	ND		0.50	ug/l	1	04/21/23	
Bromochloromethane	ND		0.50	ug/l	1	04/21/23	
Bromodichloromethane	**0.81**		0.50	ug/l	1	04/21/23	
Bromoform	ND		0.50	ug/l	1	04/21/23	

Sample Results

(Continued)

Sample: 3076 - Summit - Treated, RegID: CA3610041_076_076
3D19140-01 (Water)

Sampled: 04/19/23 10:45 by Ben Wilkins
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 524.2			**Instr:** GCMS08				
Batch ID: W3D1819 **Preparation:** EPA 5030B			**Prepared:** 04/20/23 06:25				**Analyst:** cam
Bromomethane	ND		0.50	ug/l	1	04/21/23	
Carbon tetrachloride	ND		0.50	ug/l	1	04/21/23	
Chlorobenzene	ND		0.50	ug/l	1	04/21/23	
Chloroethane	ND		0.50	ug/l	1	04/21/23	
Chloroform	**3.4**		0.50	ug/l	1	04/21/23	
Chloromethane	ND		0.50	ug/l	1	04/21/23	
cis-1,2-Dichloroethene	ND		0.50	ug/l	1	04/21/23	
cis-1,3-Dichloropropene	ND		0.50	ug/l	1	04/21/23	
Dibromochloromethane	ND		0.50	ug/l	1	04/21/23	
Dibromomethane	ND		0.50	ug/l	1	04/21/23	
Dichlorodifluoromethane (Freon 12)	ND		0.50	ug/l	1	04/21/23	
Di-isopropyl ether	ND		2.0	ug/l	1	04/21/23	
Ethyl tert-butyl ether	ND		2.0	ug/l	1	04/21/23	
Ethylbenzene	ND		0.50	ug/l	1	04/21/23	
Freon 113	ND		5.0	ug/l	1	04/21/23	
Hexachlorobutadiene	ND		0.50	ug/l	1	04/21/23	
Isopropylbenzene	ND		0.50	ug/l	1	04/21/23	
m,p-Xylene	ND		0.50	ug/l	1	04/21/23	
m-Dichlorobenzene	ND		0.50	ug/l	1	04/21/23	
Methyl tert-butyl ether (MTBE)	ND		2.0	ug/l	1	04/21/23	
Methylene chloride	ND		0.50	ug/l	1	04/21/23	
Naphthalene	ND		0.50	ug/l	1	04/21/23	
n-Butylbenzene	ND		0.50	ug/l	1	04/21/23	
n-Propylbenzene	ND		0.50	ug/l	1	04/21/23	
o-Dichlorobenzene	ND		0.50	ug/l	1	04/21/23	
o-Xylene	ND		0.50	ug/l	1	04/21/23	
p-Dichlorobenzene	ND		0.50	ug/l	1	04/21/23	
p-Isopropyltoluene	ND		0.50	ug/l	1	04/21/23	
sec-Butylbenzene	ND		0.50	ug/l	1	04/21/23	
Styrene	ND		0.50	ug/l	1	04/21/23	
Tert-amyl methyl ether	ND		2.0	ug/l	1	04/21/23	
tert-Butylbenzene	ND		0.50	ug/l	1	04/21/23	
Tetrachloroethene	ND		0.50	ug/l	1	04/21/23	
THMs, Total	**4.2**		0.50	ug/l	1	04/21/23	
Toluene	ND		0.50	ug/l	1	04/21/23	
trans-1,2-Dichloroethene	ND		0.50	ug/l	1	04/21/23	
trans-1,3-Dichloropropene	ND		0.50	ug/l	1	04/21/23	
Trichloroethene	ND		0.50	ug/l	1	04/21/23	
Trichlorofluoromethane	ND		0.50	ug/l	1	04/21/23	

Sample Results

(Continued)

Sample: 3076 - Summit - Treated, RegID: CA3610041_076_076
3D19140-01 (Water)

Sampled: 04/19/23 10:45 by Ben Wilkins
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 524.2			**Instr:** GCMS08				
Batch ID: W3D1819 **Preparation:** EPA 5030B			**Prepared:** 04/20/23 06:25				**Analyst:** cam
Vinyl chloride	ND		0.50	ug/l	1	04/21/23	
Xylenes, Total	ND		0.50	ug/l	1	04/21/23	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*99%*		*70-130*	*Conc: 49.6*		*04/21/23*	
4-Bromofluorobenzene	*101%*		*70-130*	*Conc: 50.4*		*04/21/23*	
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W3D2410 **Preparation:** EPA 525.2/SPE			**Prepared:** 04/27/23 09:28				**Analyst:** rmr
Alachlor	ND		0.10	ug/l	1	05/04/23	
Atrazine	ND		0.10	ug/l	1	05/04/23	
Benzo (a) pyrene	ND		0.10	ug/l	1	05/04/23	
Bis(2-ethylhexyl)adipate	ND		5.0	ug/l	1	05/04/23	
Bis(2-ethylhexyl)phthalate	ND		3.0	ug/l	1	05/04/23	
Bromacil	ND		0.50	ug/l	1	05/04/23	
Butachlor	ND		0.10	ug/l	1	05/04/23	
Captan	ND		1.0	ug/l	1	05/04/23	
Chlorpropham	ND		0.10	ug/l	1	05/04/23	
Diazinon	ND		0.10	ug/l	1	05/04/23	
Dimethoate	ND		0.20	ug/l	1	05/04/23	
Diphenamid	ND		0.10	ug/l	1	05/04/23	
Disulfoton	ND		0.10	ug/l	1	05/04/23	
EPTC	ND		0.10	ug/l	1	05/04/23	
Hexachlorocyclopentadiene	ND		1.0	ug/l	1	05/04/23	
Metolachlor	ND		0.10	ug/l	1	05/04/23	
Metribuzin	ND		0.10	ug/l	1	05/04/23	
Molinate	ND		0.10	ug/l	1	05/04/23	
Prometryn	ND		0.10	ug/l	1	05/04/23	
Simazine	ND		0.10	ug/l	1	05/04/23	
Terbacil	ND		2.0	ug/l	1	05/04/23	
Thiobencarb	ND		0.10	ug/l	1	05/04/23	
Trithion	ND		0.10	ug/l	1	05/04/23	
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*100%*		*70-130*	*Conc: 4.73*		*05/04/23*	
Perylene-d12	*97%*		*50-120*	*Conc: 4.55*		*05/04/23*	
Triphenyl phosphate	*102%*		*70-130*	*Conc: 4.79*		*05/04/23*	
Method: EPA 547			**Instr:** LC11				
Batch ID: W3E0040 **Preparation:** _NONE (LC)			**Prepared:** 05/01/23 12:03				**Analyst:** PJS
Glyphosate	ND		5.0	ug/l	1	05/01/23	
Method: EPA 548.1			**Instr:** GCMS06				
Batch ID: W3D1823 **Preparation:** EPA 548.1/SPE			**Prepared:** 04/20/23 07:55				**Analyst:** rmr
Endothall	ND		45	ug/l	1	04/22/23	

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Sample Results

(Continued)

Sample: 3076 - Summit - Treated, RegID: CA3610041_076_076
3D19140-01 (Water)

Sampled: 04/19/23 10:45 by Ben Wilkins
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 548.1			**Instr:** GCMS06				
Batch ID: W3D1823 **Preparation:** EPA 548.1/SPE			**Prepared:** 04/20/23 07:55				**Analyst:** rmr
Method: EPA 549.2			**Instr:** LC10				
Batch ID: W3D2047 **Preparation:** EPA 549.2/SPE			**Prepared:** 04/24/23 08:13				**Analyst:** pjs
Diquat	ND		4.0	ug/l	1	05/09/23	
Method: Field			**Instr:** _FIELD				
Batch ID: W3D1787 **Preparation:** *** DEFAULT PREP ***			**Prepared:** 04/19/23 10:45				**Analyst:** _clnt
pH, Field	**8.00**			pH Units	1	04/19/23 10:45	
Temperature, Degrees C	**14.0**			°C	1	04/19/23	
Method: SM 2120B			**Instr:** _ANALYST				
Batch ID: W3D1791 **Preparation:** _NONE (WETCHEM)			**Prepared:** 04/19/23 17:23				**Analyst:** mes
Color	ND		3.0	Color Units	1	04/19/23 18:22	
Method: SM 2320B			**Instr:** AA02				
Batch ID: W3D1797 **Preparation:** _NONE (WETCHEM)			**Prepared:** 04/19/23 17:58				**Analyst:** vat
Alkalinity as CaCO3	**140**		5.0	mg/l	1	04/19/23	
Bicarbonate Alkalinity as HCO3	**170**		6.1	mg/l	1	04/19/23	
Carbonate Alkalinity as CaCO3	ND		5.0	mg/l	1	04/19/23	
Hydroxide Alkalinity as CaCO3	ND		5.0	mg/l	1	04/19/23	
Method: SM 2330B			**Instr:** [CALC]				
Batch ID: W3E0327 **Preparation:** _NONE (METALS)			**Prepared:** 05/03/23 11:50				**Analyst:** ntl
Langelier Index @ 60 C	**0.778**		-10.0	LSI	1	05/03/23	
Langelier Index @ Source Temp	**0.165**		-10.0	LSI	1	05/03/23	
Method: SM 2510B			**Instr:** AA02				
Batch ID: W3D2535 **Preparation:** _NONE (WETCHEM)			**Prepared:** 04/28/23 10:50				**Analyst:** vat
Specific Conductance (EC)	**320**		2.0	umhos/cm	1	04/29/23	
Method: SM 2540C			**Instr:** OVEN17				
Batch ID: W3D1983 **Preparation:** _NONE (WETCHEM)			**Prepared:** 04/21/23 11:39				**Analyst:** bel
Total Dissolved Solids	**160**		10	mg/l	1	04/21/23	
Method: SM 4500H+-B			**Instr:** AA02				
Batch ID: W3D1794 **Preparation:** _NONE (WETCHEM)			**Prepared:** 04/19/23 17:42				**Analyst:** vat
pH	**7.85**		0.10	pH Units	1	04/19/23 22:05	*
Method: SM 5540C			**Instr:** UVVIS04				
Batch ID: W3D1897 **Preparation:** _NONE (WETCHEM)			**Prepared:** 04/20/23 13:05				**Analyst:** ZZZ
MBAS	ND		0.050	mg/l	1	04/20/23 19:01	
Method: SM 7110C			**Instr:** RAD01				
Batch ID: W3D2040 **Preparation:** _NONE (RADIOCHEM)			**Prepared:** 04/23/23 16:20				**Analyst:** ela
Gross Alpha	**3.19**			pCi/L	1	05/01/23	
Counting Uncertainty: 0.295		**MDA:** 0.054					

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Sample Results (Continued)

Sample: 3076 - Summit - Treated, RegID: CA3610041_076_076
3D19140-01RE1 (Water)
Sampled: 04/19/23 10:45 by Ben Wilkins

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 524.3			**Instr:** GCMS04				
Batch ID: W3D2196 **Preparation:** Method (P+T)			**Prepared:** 04/25/23 10:27				**Analyst:** ADM
1,2-Dibromo-3-chloropropane	ND		0.010	ug/l	1	04/26/23	
1,2-Dibromoethane (EDB)	ND		0.020	ug/l	1	04/26/23	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*		*70-130*	*Conc: 0.400*		*04/26/23*	
4-Bromofluorobenzene	*98%*		*70-130*	*Conc: 0.391*		*04/26/23*	
Method: EPA 531.2			**Instr:** LC11				
Batch ID: W3D2481 **Preparation:** _NONE (LC)			**Prepared:** 04/27/23 16:20				**Analyst:** PJS
3-Hydroxycarbofuran	ND		2.0	ug/l	1	05/02/23	
Aldicarb	ND		2.0	ug/l	1	05/02/23	
Aldicarb sulfone	ND		2.0	ug/l	1	05/02/23	
Aldicarb sulfoxide	ND		2.0	ug/l	1	05/02/23	
Carbaryl	ND		2.0	ug/l	1	05/02/23	
Carbofuran	ND		2.0	ug/l	1	05/02/23	
Methiocarb	ND		2.0	ug/l	1	05/02/23	
Methomyl	ND		2.0	ug/l	1	05/02/23	
Oxamyl	ND		2.0	ug/l	1	05/02/23	
Propoxur (Baygon)	ND		2.0	ug/l	1	05/02/23	
Surrogate(s)							
BDMC	*107%*		*70-130*	*Conc: 10.7*		*05/02/23*	

Sample Results GEL Laboratories, LLC

Sample: 3076 - Summit - Treated
3D19140-01 (Water)
Sampled: 04/19/23 10:45 by Ben Wilkins

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Calculation							
Method: Calculation **Batch ID:** 2434931			**Prepared:** 06/01/23 00:00				**Analyst:** NXL1
Radium-226+228 Sum	**0.788**			pCi/L	1	06/01/23	
Uncertainty: 0.465 **MDA:**							
EPA 903.1							
Method: EPA 903.1 **Batch ID:** 2423880			**Prepared:** 05/31/23 00:00				**Analyst:** LXP1
Radium-226	**0.0483**			pCi/L	1	05/31/23	U
Uncertainty: 0.106 **MDA:** 0.210							
EPA 904.0/ EPA 9320							
Method: EPA 904.0/ EPA 9320 **Batch ID:** 2423906			**Prepared:** 05/26/23 00:00				**Analyst:** JE1
Radium-228	**0.740**			pCi/L	1	05/26/23	
Uncertainty: 0.453 **MDA:** 0.664							
Surrogate(s)							
Barium Carrier	*89%*		*25-125*			*05/26/23*	
Yttrium Carrier	*74.2%*		*25-125*			*05/26/23*	

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Sample Results LA Testing - EMSL Analytical, Inc. CA-ELAP #2283, Non-NELAP (Continued)

Sample: 3076 - Summit - Treated
3D19140-01 (Water)

Sampled: 04/19/23 10:45 by Ben Wilkins

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
EPA 100.2							
Method: EPA 100.2	**Batch ID:** 322310318		**Prepared:** 04/20/23 12:35				**Analyst:** _SUB
Asbestos	ND		0.20	MFL	1	04/29/23	
Fibers:	**Area:** 0.2159	**Confidence:** 0.00-0.73					

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Notes and Definitions

Item	Definition
*	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
U	Result not detected above the detection limit
%REC	Percent Recovery
Dil	Dilution
MDA	Minimum Detectable Activity
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	A result of ND for odor corresponds to No Odor Observed
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
AWWA in Water			
Aggressive Index		✓	
Field in Water			
pH, Field	PH	✓	
Temperature, Degrees C	TEMPC	✓	

Reviewed by:

Valerie I. Ayo
Project Manager

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

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CHINO BASIN WATERMASTER

NOTICE

OF

APPLICATION(S)

RECEIVED FOR

RECHARGE

Date of Notice:

April 5, 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 RECHARGE

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: **March 27, 2024** Date of this notice: **April 05, 2024**

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

- Notice of Application for Recharge – On March 27, 2024, Fontana Water Company submitted an Application for Recharge for up to 250 acre-feet per year from September 2021 until September 2027 to be recharged to a pilot project located at a vineyard south of Beech Avenue and east of Cherry Avenue in the City of Fontana.

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

Appropriative Pool:	April 11, 2024
Non-Agricultural Pool:	April 11, 2024
Agricultural Pool:	April 11, 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
recharge_storage@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: May 23, 2024

TO: Board Members

SUBJECT: Third Amendment to Task Order No. 9 Under the Master Agreement for Collaborative Recharge Projects (Project 23a) (Business Item II.A.)

SUMMARY:

Issue: Task Order No. 9, under the Master Agreement for Collaborative Recharge Projects with Inland Empire Utilities Agency, needs to be amended to reflect an increase in construction costs due to delays and scope changes to complete the project. [Advisory Committee Approval Required]

Recommendation: Approve of the Third Amendment to Task Order No.9 to increase the total budgeted cost.

Financial Impact: None for this fiscal year. The total cost of the project is anticipated to increase from $25,296,340 to $28,846,016 which is projected to have a budget impact during Fiscal Year 2025/26.

Future Consideration
Watermaster Board – May 23, 2024: Approval

ACTIONS:
Appropriative Pool – May 9, 2024: Unanimously recommended Advisory Committee to recommend Watermaster Board approval.
Non-Agricultural Pool – May 9, 2024: Unanimously recommended its representatives to support at Advisory Committee and Watermaster Board subject to changes they deem appropriate.
Agricultural Pool – May 9, 2024: Unanimously recommended Advisory Committee to recommend Watermaster Board approval.
Advisory Committee – May 16, 2024: Unanimously approved
Watermaster Board – May 23, 2024:

BACKGROUND

Section 6 of the 2013 Amendment to the 2010 Recharge Master Plan Update (RMPU), which was approved on November 12, 2013, listed potential projects that could increase recharge to Chino Basin. To manage costs associated with the projects, Chino Basin Watermaster and Inland Empire Utilities Agency (IEUA) agreed to a Master Cost Sharing Agreement on July 24, 2014. Under the Master Cost Sharing Agreement, Task Order No. 9 (RMPU Improvement Project 23a) (Attachment 1) was created to manage the proposed Stormwater Distribution System, Wineville Basin Improvements, Jurupa Basin Improvements, and RP-3 Basin Improvements, collectively known as Project 23a. When completed, this important project in the southern portion of the Basin will divert and recharge an additional 2,921 AFY of stormwater and dry-weather runoff from the area and 2,905 AFY of recycled water from IEUA's distribution system. The following is an overview of the four components of Project 23a:

1. Stormwater Distribution System - Hydraulically connects Wineville, Jurupa, and RP3 Basins to effectively capture and store stormwater. Add a new pump station at Wineville, provide an additional pump at Jurupa, and lay over 2-miles of new conveyance pipe to provide stormwater conveyance from Wineville Basin to Jurupa Basin.

2. Wineville Basin Improvements - Convert an existing flood control basin into a multipurpose use where new basin activities will include groundwater recharge of stormwater and dry-weather runoff. The conversion will include adding spillway gate structure to raise storage volume; gating existing outlet with motorized actuators, and re-grade basin floor to effectively manage silts.

3. Jurupa Basin Improvements - Improve Jurupa Basin's stormwater capture by replacing the existing diversion with a higher capacity diversion.

4. RP-3 Basin Improvements - Increase conservation storage with added new RP3 Cell, and new pipes and gate to connect the new cell to stormwater.

On June 16, 2021, an amendment to Task Order No. 9 was approved by Watermaster and IEUA. This was the first amendment to change the Project's total budget from $16.48 million to $22.04 million, to reflect additional awarded grant funds for the Project, and to adjust the reimbursement schedule under which Watermaster provides its share of the costs to IEUA. (Attachment 2)

The Second Amendment to Task Order No. 9 was entered into by Watermaster and IEUA on August 25 2022, effective September 21, 2022, which increased the available funds for the Wineville/Jurupa/Force Main Conveyance from $22,040,252 to $25,296,340. This raised the construction contingencies budget from $1,548,088 to $4,804,176, a $3,256,088 increase, to address unforeseen conditions, changes in scope, and extended delays. (Attachment 3)

DISCUSSION

On June 16, 2021, IEUA awarded the construction contract for the Stormwater Distribution System, Wineville Basin and Jurupa Basin improvements (a portion of the 23a Project) to MNR Construction Inc. in the amount of $15,480,880. While, separately, the 23a recharge improvements at RP3 Basin were awarded to multiple contractors. On May 19, 2021, IEUA approved a construction contract for the new groundwater diversion structure at RP3 Basin to Metro Builders & Engineers Group, Ltd. for the amount of $634,881. On June 20, 2018 IEUA awarded the excavation of a new groundwater recharge basin at RP3 to James McMinn, Inc. in the amount of $677,805.

The construction efforts at the RP3 Basin are completed while the construction for the Stormwater Distribution System, Wineville Basin and Jurupa Basin improvements is 85-percent complete.
Currently, unforeseen Project modifications, and adjustments to MNR's scope of work near Project completion have caused construction costs to increase and a delay in project completion. The explanation of the circumstances that resulted in the aforementioned are the following:

- Delays with electrical utility provider on the new service connection
- Contractor's inability to provide specified pumps
- Additional time and cost to modify the rubber dam design

During the design phase of the project, the Engineering Consultant prepared electrical construction plans to show the approximate location where Southern California Edison (SCE), the electrical provider in the area, would tie into the new improvements at Wineville and Jurupa Basins. These plans were based on earlier discussions and coordination with SCE. When construction began, IEUA received notice from SCE that detailed plans for SCE's service connections were to be received by February 11, 2022. Unfortunately, this initial deadline was not met and was postponed multiple times by SCE due to limited staffing and continued impacts from the COVID-19 pandemic. IEUA communicated the urgency to SCE to provide requested electrical plans. Unfortunately, SCE was non-responsive to IEUA's continued requests. This delay prevented the Contractor from scheduling the critical electrical work at Wineville Basin and Jurupa Basin.

With SCE's full responses received by November 7, 2023, IEUA and the Contractor negotiated the extended time and compensation to implement and complete the electrical improvements at Wineville Basin which included additional construction requirements and cost escalation. The new date for the completion of the electrical is anticipated to be September 2024.

Since July 13, 2021, the Contractor failed to meet the requirements in providing a complete pump station for the Project. The Contractor has submitted 10 revisions to their proposed pump and motors at the Wineville Basin and Jurupa Basin. Within these revisions came multiple changes and clarifications by the Contractor which delayed and prolonged the pump submittal approval. On August 8, 2023, the Contractor issued a deviation which requested a price increase to pumps and a revised timeline to order and receive the new pumps. The initial price increase was $264,599 but later increased to $585,050 due to the market's higher material cost. After several meetings and discussions, it was mutually agreed that the pumps would be removed from the contract. IEUA had no confidence the Contractor's pump supplier could meet requirement and maintain pump performance. Instead, IEUA decided to rebid the new pumps with another qualified Contractor to purchase, install, and test. Under this approach, the current Contractor would only continue work on the remaining tasks less the pumps.

Due to these changes in the acquisition, installation and testing of the new pumps, the Project will require additional cost due to cost escalation and the cost to manage the pump completion to July 2025.

Lastly, during the submittal review in construction IEUA requested an urgent change to the mechanical design on the new Rubber Dam to eliminate a confined space condition when operating the dam. Unfortunately, the Project's detailed requirement for the new rubber dam did not prohibit any confined space conditions with the new equipment. To correct this safety concern, IEUA requested an immediate redesign of the auto-deflate system. This effort delayed the Contractor for 223 calendar days in order to research and resubmit for different rubber dam mechanical components. This was further extended to allow the manufacturer to re-create new controls and programing for the system. Due to these changes the Project costs will increase given the extended schedule and escalation in material cost.

IEUA has been giving regular updates to the Recharge Investigations and Projects Committee (RIPComm), which meets quarterly. At the January 18th, 2024 RIPComm meeting, IEUA gave a detailed status report and gave notice of the increase in cost and project delays. After IEUA concluded contract negotiations with the Contractor, IEUA reported to RIPComm on April 18, 2024 the proposed steps resulting in an increase to the overall project cost.

With the delays, unforeseen Project modifications, and adjustments to MNR's scope of work near Project completion, the proposed increase for the project budget is $3,549,676, bringing the total to $28,846,016. With this increased cost for the Project, the updated melded unit cost for all stormwater improvements under the 2013 RMPU project is estimated to rise from $514 to $557 per acre-feet annually which remains

below the threshold unit cost of $612 per acre-feet per year as established by the 2013 RMPU Steering Committee. The unit cost remains under this threshold due to the grants of $10,833,381 secured from state and federal funds.

The final cost share from IEUA and Watermaster (less grants) with the Project increase is $803,255 and $17,209,380, respectively. With $26,200,809 available in grants and SRF loans ($10.8 in grants and $15.4 in SRF), $2,645,207 is not within the available grant or loans. Based on the current estimated construction completion date of July 2025, repayment for this cost not covered by grants and SRF loan is expected in the Fiscal Year 2025/26 where Watermaster and IEUA's projected pay-go share is $2,397,090 and $248,117 respectively.

IEUA staff continues to seek extension of existing funding sources or identification of new grant opportunities to mitigate the fiscal impacts the requested project amendment.

At the Pool Committee meetings held on May 9, 2024, the Appropriative and Overlying (Agricultural) Pools unanimously recommended Advisory Committee to recommend to the Watermaster Board to approve the amendment; the Overlying (Non-Agricultural) Pool unanimously recommended its representatives to support at Advisory Committee and Watermaster Board subject to changes they deem appropriate.

The Amendment was presented to the Advisory Committee on May 16, 2024 where it was unanimously approved.

ATTACHMENTS

1. Master Agreement Between CBWM and IEUA regarding Management of Collaborative Recharge Projects: Task Order No. 9
2. First Amendment to Task Order No. 9 RMPU Improvement Project 23a
3. Second Amendment to Task Order No. 9 RMPU Improvement Project 23a
4. Third Amendment to Task Order No. 9 RMPU Improvement Project 23a (Draft)

MASTER AGREEMENT BETWEEN CHINO BASIN WATERMASTER AND INLAND EMPIRE UTILITIES AGENCY REGARDING THE MANAGEMENT OF COLLABORATIVE RECHARGE PROJECTS

TASK ORDER NO. 9
RMPU IMPROVEMENT PROJECT 23a

This Task Order is made and entered into as of the 25th day of May, 2017 by and between the Chino Basin Watermaster, hereinafter referred to as "Watermaster," and the Inland Empire Utilities Agency, hereinafter referred to as "IEUA" (each a "Party" and collectively, the "Parties").

In consideration of the mutual promises, covenants, and conditions as addressed in the Master Agreement dated July 24, 2014, as amended thereafter, and as specifically hereinafter set forth, the Parties do hereby agree as follows:

1. PURPOSE

The purpose of this Task Order is to govern the project management, planning, permitting, bid/award of construction, design and construction of the 2013 RMPU Proposed Wineville PS to Jurupa, Expanded Jurupa PS to RP3 Basin, and 2013 Proposed RP3 Improvements Project (RMPU Improvements Project ID 23a) ("Project").

The Project consists of four major recharge improvement components and, when completed, will divert and recharge an additional 2,921 acre-feet per year ("AFY") of stormwater and dry-weather runoff from the area and 2,905 AFY of recycled water from IEUA's distribution system. The following is an overview of the Project's four components:

1. Stormwater Distribution System – Hydraulically connect the Wineville, Jurupa, and RP3 basins to effectively capture and store stormwater. Add a new pump station at Wineville, provide an additional pump at Jurupa, and lay over two miles of new conveyance pipe to provide stormwater conveyance from Wineville Basin to Jurupa Basin.

2. Wineville Basin Improvements – Convert an existing flood control basin into a multipurpose recharge basin where new activities will include groundwater recharge of stormwater and dry-weather runoff. The conversion will include adding a spillway gate structure to raise storage volume, gating an existing outlet with motorized actuators, and re-grading the basin floor to effectively manage silts.

3. Jurupa Basin Improvements – Improve Jurupa Basin's stormwater capture by replacing the existing diversion with a higher capacity diversion.

4. RP-3 Basin Improvements – Increase conservation storage by adding a new RP3 Cell, and new pipes and a gate to connect the new cell to stormwater. The project assumes the reduction of hauling costs by 90% by working with local contractors/haulers to remove soil at no or low cost.

On November 17, 2016, the Watermaster Board approved the "Post 2014 Stormwater Recharge Program" as part of the results and findings presented from the completed preliminary design report on the agreed upon 2013 RMPU projects. Under the "Post 2014 Stormwater Recharge Program," the Project was recommended for final design, bidding, and construction.

2. SCOPE

The activities to be undertaken pursuant to this Task Order include project development to properly establish the Project's scope and schedule, preliminary design evaluation to define the extent of the upgrades of each site, design for the preparation of the construction plans and specifications for the upgrades, permitting and California Environmental Quality Act ("CEQA") review for each site proposed for upgrades, bid/award of the construction contract to the lowest responsible/responsive bidder, and the construction of the basin upgrades. The following is the projected cost breakdown and schedule for each of the Project phases:

Phase	Start	Finish	Projected Cost
Project Development	07/01/14	12/17/14	$14,600
Pre-Design	12/18/14	11/16/16	$407,900
Environmental Impact	12/18/14	04/20/16	$179,500
Permits	12/18/14	01/08/18	$52,400
Design	06/22/17	03/12/18	$1,372,500
Bid and Award	03/13/18	06/20/18	15,000
Construction	03/22/18	06/28/19	$14,441,000
		Total	$16,482,900

As of the date upon which the Parties enter into this Task Order, the Project development, pre-design and environmental impact phases of the Project have been completed and the Parties acknowledge that all funds for these phases have been expended and reimbursed, as applicable. The Task Order does not create any further rights or responsibilities for either of the Parties with respect to these phases of the Project.

3. IEUA RESPONSIBILITIES

IEUA agrees to provide Project management and contract administration services that include, but are not limited to:

- Engagement of consulting services as needed for:
  - Preliminary design and design engineering services;
  - CEQA compliance and permitting;
  - Bid and award efforts; and,
  - Engineering support during construction
- Management of consultants for the above;
- Approval of progress payments for consultants;
- Recommendations as to change orders for consultants; and,
- Payment of consultant invoices

During construction, IEUA agrees to provide construction management and contract administration services that include, but are not limited to:

- Engagement of construction contract services for:
  - Construction work to implement the upgrades
- Management of contractors for the above;
- Approval of progress payments for contractors;
- Recommendations as to change orders for contractors; and,
- Payment of contractor invoices

IEUA will supply all personnel and equipment required to perform the assigned services.

4. WATERMASTER RESPONSIBILITIES

Watermaster agrees that it and its employees and consultants will cooperate with IEUA and its contractors in the performance of services under this Task Order and will provide any necessary documentation and information in Watermaster's possession.

5. BUDGET AND COST ALLOCATION

Unless the scope of work is changed and an increase is authorized by the Parties, the budget for the activities to be undertaken pursuant to this Task Order is sixteen million

four hundred eighty-two thousand nine hundred dollars ($16,482,900) ("Budget"), of which $8,541,450 is available in grant funds. The grant funds available for each phase of the Project are as follows:

Available Grants	Stormwater Distribution System	Wineville Basin	Jurupa Basin	RP-3 Basin	Total
State Water Resources Control Board - Storm Water Grant Program	$5,192,120	$1,895,530	$741,730	$412,070	$8,241,450
United States Department of Interior Bureau of Reclamation – Drought Resiliency	-	-	-	$300,000	$300,000
Total	**$5,192,120**	**$1,895,530**	**$741,730**	**$712,070**	**$8,541,450**

The Parties agree that the Budget less the grant funds is shared consistent with the methodology described in Peace II Agreement Section 8.1(b), and that IEUA's share of the costs is based on a 50% allocation of the costs of those portions of the project for which there is a recycled water component. The Budget includes IEUA capital, administrative, and overhead expenses associated with IEUA's provision of the services described in Section 3 above. The total budget allocation by Party and project component is as follows:

Project	Stormwater Distribution System	Wineville Basin	Jurupa Basin	RP-3 Basin	Total
Watermaster	$4,792,080	$1,692,470	$682,270	$387,315	$7,554,135
IEUA	-	-	-	$387,315	$387,315
Grants	$5,192,120	$1,895,530	$741,730	$712,070	$8,541,450
Total	**$9,984,200**	**$3,588,000**	**$1,424,000**	**$1,486,700**	**$16,482,900**

The Parties shall budget, pursuant to their own budget mechanism, such that each is able to expend the amounts shown in the Fiscal Years shown in the table below.

PID 23a	Prior Fiscal Years (FY)	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Total
Watermaster	$903,553	$953,803	$1,663,701	$3,968,249	$64,829	$7,554,135
IEUA	$250,250	$100,000	$37,065	-	-	$387,315
SWRCB Grant	$0	-	$7,000,000	$1,141,450	$100,000	$8,241,450
USBR Grant	$0	$100,000	$200,000	-	-	$300,000
Total	$1,153,803	$1,153,803	$8,900,766	$5,109,699	$164,829	$16,482,900

6. TOTAL BUDGETED COST

The Parties agree to pay their respective portion of the Budget, less the available grant funding. The Parties shall not be required to pay more than $7,941,450 ("Total Budgeted Cost").

7. MAXIMUM COSTS TO WATERMASTER

The costs to be required of Watermaster shall not exceed its share of the Total Budgeted Cost, as shown in Section 5 above, or $7,554,135.

8. MAXIMUM COSTS TO IEUA

The costs to be required of IEUA shall not exceed its share of the Total Budgeted Cost, as shown in Section 5 above, or $387,315.

9. TERM

The Project has been underway since FY 14-15. This Task Order shall not create any new responsibilities or obligations for either Party for phases of the Project completed prior to the entrance into this Task Order. The terms of this Task Order shall remain effective until IEUA's receipt of Watermaster's share of costs expended pursuant to the Budget shown above, so that IEUA may close out the activities.

10. REIMBURSEMENT

Watermaster's reimbursement of IEUA for work performed under this Task Order shall be as provided in Article 3 of the July 24, 2014 Master Agreement and as amended thereafter.

11. EFFECTIVE DATE

This Task Order No. 9 will be deemed effective as of August 28, 2014. The Task Order will apply retroactively and govern all work undertaken on the Project from August 28, 2014 until the Project is completed and this Task Order expires.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the day and year and at the place first above written.

CHINO BASIN WATERMASTER

By _____
PETER KAVOUNAS
General Manager

INLAND EMPIRE UTILITIES AGENCY

By _____
P. JOSEPH GRINDSTAFF
General Manager

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FIRST AMENDMENT
to
TASK ORDER NO. 9
RMPU IMPROVEMENT PROJECT 23a
under the
MASTER AGREEMENT REGARDING THE
MANAGEMENT OF COLLABORATIVE RECHARGE PROJECTS
between
INLAND EMPIRE UTILITIES AGENCY
and
CHINO BASIN WATERMASTER

This First Amendment to Task Order No. 9 is made and entered into as of the 16 day of June, 2021 by and between the Inland Empire Utilities Agency (IEUA) and the Chino Basin Watermaster (Watermaster) (each a "Party" and collectively, the "Parties").

RECITALS

A. Task Order No. 9 for the RMPU IMPROVEMENT PROJECT 23a (the "Task Order") was approved by IEUA and Watermaster on May 25th, 2017.

B. The recently received, higher bid prices for the construction of the RMPU IMPROVEMENT under PROJECT ID 23a, the proposed Wineville Pumps Station to Jurupa, the expansion of the Jurupa's Pumps stations to RP-3, and the approved recharge improvements at Wineville, Jurupa and RP3 Basins (collectively, the "Project") necessitates a change to the Project's total budget from $16.48 million to $22.04 million.

C. United States Department of Interior's Bureau of Reclamation awarded the proposed Wineville Pumps Station to Jurupa, the expansion of the Jurupa's Pumps stations to RP-3, and the recharge improvements at Wineville and Jurupa with a grant of $740,000 through Section 9504(a) of the Secure Water Act, Public Law 111-11 (Agreement Number R18AP000777).

C. IEUA and Watermaster wish to amend that Task Order to reflect the necessary budget increase and the grant award, and to adjust the reimbursement schedule under which Watermaster provides its share of the costs to IEUA.

NOW THEREFORE IT IS AGREED TO AMEND THE TASK ORDER AS FOLLOWS:

1. Section 2 of the Task Order titled SCOPE shall be amended to read:

   The activities to be undertaken pursuant to this Task Order include project development to properly establish project's scope and schedule, preliminary design evaluation to define the extent of the upgrades of each site, design for the preparation of the construction plans and specifications for the upgrades, permitting and CEQA review for each site proposed for

upgrades, bid/award of the construction contract to the lowest responsible/responsive bidder, and the construction of the improvements. The following is projected cost breakdown and schedule for each of the project phases:

Phase	Start	Finish	Projected Cost
Project Development	7/1/2014	12/17/2014	$14,600
Pre-Design	12/18/2014	11/16/2016	$407,900
Environmental Impact	12/18/2014	4/20/2016	$179,500
Permits	12/18/2014	1/8/2018	$52,400
Design	6/22/2017	12/31/2020	$1,372,500
Bid and Award	1/1/2021	6/15/2021	$15,000
Construction	6/22/2021	8/21/2022	$19,998,352
		Total	$22,040,252

As of the date upon which the Parties enter into this Task Order, the project development, pre-design and environmental impact phases of the Project have been completed and the Parties acknowledge that all funds for these phases have been expended and reimbursed, as applicable. The Task Order does not create any further rights or responsibilities for either of the Parties with respect to these phases of the Project.

2. Section 5 of the Task Order titled BUDGET AND COST ALLOCATION shall be amended to read:

Unless the scope of work is changed and an increase is authorized by the Parties, the budget for the activities to be undertaken pursuant to this Task Order is twenty-two million forty thousand two hundred fifty-two dollars ($22,040,252) ("Budget"), of which $10,833,381 is available in grant funds. The grant funds available for each phase of the Project are as follows:

Available Grants	Stormwater Distribution System/Winevill e Basin/Jurupa Basin	RP-3 Basin	Total
State Water Resources Control Board - Storm Water Grant Program	$8,994,167	$809,214	$9,803,381
United States Department of Interior Bureau of Reclamation - Drought Resiliency	-	$290,000	$290,000
United States Department of Interior Bureau of Reclamation - Secure Water Act	$740,000	-	$740,000
Total	$9,734,167	$1,099,214	$10,833,381

The Parties agree that the Budget less the grant funds is shared consistent with the methodology described in Peace II Agreement Section 8.l(b), and that IEUA's share of the costs is based on a 50% allocation of the costs of those portions of the project for which there is a recycled water component. The Budget includes IEUA capital, administrative, and overhead expenses associated with IEUA's provision of the services described in Section 3 above. The total budget allocation by Party and project component is as follows:

CBWM/IEUA/Grant	Stormwater Distribution System/Wineville Basin/Jurupa Basin	RP-3 Basin	Total
Watermaster	$10,486,785	$360,043	$10,846,828
IEUA	-	$360,043	$360,043
Grants	$9,734,167	$1,099,214	$10,833,381
Total	$20,220,952	$1,819,300	$22,040,252

The Parties shall budget, pursuant to their own budget mechanism and in accordance with the May 26th, 2016 First Amendment to the Master Agreement Regarding the Management of Collaborative Recharge Projects between IEUA and Watermaster.

3. Section 6 of the Task Order titled TOTAL BUDGETED COST shall be amended to read:

   The Parties agree to pay their respective portion of the Budget, less the available grant funding. The parties shall not be required to pay more than $11,206,871 ("Total Budgeted Cost").

4. Section 7 of the Task Order titled MAXIMUM COSTS TO WATERMASTER shall be amended to read:

   The costs to be required of Watermaster shall not exceed its share of the Total Budgeted Cost, as shown in Section 5 above, or $10,846,828.

5. Section 8 of the Task Order titled MAXIMUM COSTS TO IEUA shall be amended to read:

   The costs to be required of IEUA shall not exceed its share of the Total Budgeted Cost, as shown in Section 5 above, or $360,043.

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ALL OTHER PROVISIONS SHALL REMAIN UNCHANGED.

IN WITNESS WHEREOF, the parties hereby have caused this Amendment to be entered into as of the day and year written above.

CHINO BASIN WATERMASTER:	INLAND EMPIRE UTILITIES AGENCY:
Peter Kavounas, P.E. General Manager	DocuSigned by: Shivaji Deshmukh #1458 EAD8C0E4F0B34DA... General Manager

SECOND AMENDMENT
to
TASK ORDER NO. 9
RMPU IMPROVEMENT PROJECT 23a
under the
MASTER AGREEMENT REGARDING THE
MANAGEMENT OF COLLABORATIVE RECHARGE PROJECTS
between
INLAND EMPIRE UTILITIES AGENCY
and
CHINO BASIN WATERMASTER

This Second Amendment to Task Order No. 9 is made and entered into as of the ____ day of September 2022 by and between the Inland Empire Utilities Agency (IEUA) and the Chino Basin Watermaster (Watermaster) (each a "Party" and collectively, the "Parties").

RECITALS

A. Task Order No. 9 for the RMPU IMPROVEMENT PROJECT 23a (the "Task Order") was approved by IEUA and Watermaster on May 25, 2017, to govern the project management, planning, permitting, bid/award of construction, design and construction of the 2013 RMPU Proposed Wineville PS to Jurupa, Expanded Jurupa PS to RP3 Basin, and 2013 Proposed RP3 Improvements Project (RMPU Improvements Project ID 23a) ("Project").

B. The First Amendment to Task Order No. 9 was entered into by Watermaster and IEUA, effective June 16, 2021, which changed the total budget for the Project's total budget from $16.48 million to $22.04 million due to higher than anticipated bid prices for the Project and additional awarded grant funds for the Project. The First Amendment to Task Order No. 9 adjusted the reimbursement schedule under which Watermaster provides its share of the costs to IEUA accordingly.

C. On June 16, 2021, IEUA awarded a $15,480,480 construction contract for a portion of the Project, the Wineville/Jurupa/Force Main Conveyance, to MNR Construction, Inc (MNR).

D. The budget for the Project includes $1,548,088 for contingencies during the construction of the Wineville/Jurupa/Force Main Conveyance to address unforeseen conditions, changes in scope, and delays. However, current project field conditions, extended delays, and ongoing market concerns require additional contingency funds. IEUA and Watermaster staff are recommending increasing the available contingency funds for the Wineville/Jurupa/Force Main Conveyance to $4,804,176, a $3,256,088 increase.

E. IEUA and Watermaster wish to amend Task Order No. 9 to reflect the necessary budget increase for the recommended increase of the available continency funds for the construction of the Wineville/Jurupa/Force Main Conveyance and adjustment of the reimbursement schedule under which Watermaster provides its share of the costs to IEUA.

NOW THEREFORE IT IS AGREED TO AMEND THE TASK ORDER AS FOLLOWS:

1. Section 2 of the Task Order titled SCOPE shall be amended to read:

   The activities to be undertaken pursuant to this Task Order include project development to properly establish project's scope and schedule, preliminary design evaluation to define the extent of the upgrades of each site, design for the preparation of the construction plans and specifications for the upgrades, permitting and CEQA review for each site proposed for upgrades, bid/award of the construction contract to the lowest responsible/responsive bidder, and the construction of the improvements. The following is projected cost breakdown and schedule for each of the project phases:

Phase	Start	Finish	Projected Cost
Project Development	7/1/2014	12/17/2014	$14,600
Pre-Design	12/18/2014	11/16/2016	$407,900
Environmental Impact	12/18/2014	4/20/2016	$179,500
Permits	12/18/2014	1/8/2018	$52,400
Design	6/22/2017	12/31/2020	$1,372,500
Bid and Award	1/1/2021	6/15/2021	$15,000
Construction	6/22/2021	12/31/2023	$23,254,440
		Total	$25,296,340

   As of the date upon which the Parties enter into this Task Order, the project development, pre-design and environmental impact phases of the Project have been completed and the Parties acknowledge that all funds for these phases have been expended and reimbursed, as applicable. The Task Order does not create any further rights or responsibilities for either of the Parties with respect to these phases of the Project.

2. Section 5 of the Task Order titled BUDGET AND COST ALLOCATION shall be amended to read:

   Unless the scope of work is changed and an increase is authorized by the Parties, the budget for the activities to be undertaken pursuant to this Task Order is twenty-five million two hundred ninety-six thousand three hundred forty dollars ($25,296,340) ("Budget"), of which $10,833,381 is available in grant funds. The grant funds available for each phase of the Project are as follows:

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Available Grants	Stormwater Distribution System/Winevill e Basin/Jurupa Basin	RP-3 Basin	Total
State Water Resources Control Board - Storm Water Grant Program	$8,994,167	$809,214	$9,803,381
United States Department of Interior Bureau of Reclamation - Drought Resiliency	-	$290,000	$290,000
United States Department of Interior Bureau of Reclamation - Secure Water Act	$740,000	-	$740,000
Total	$9,734,167	$1,099,214	$10,833,381

The Parties agree that the Budget less the grant funds is shared consistent with the methodology described in Peace II Agreement Section 8.l(b), and that IEUA's share of the costs is based on a 50% allocation of the costs of those portions of the project for which there is a recycled water component. The Budget includes IEUA capital, administrative, and overhead expenses associated with IEUA's provision of the services described in Section 3 above. The total budget allocation by Party and project component is as follows:

CBWM/IEUA/Grant	Stormwater Distribution System/Wineville Basin/Jurupa Basin	RP-3 Basin	Total
Watermaster	$13,742,873	$360,043	$14,102,916
IEUA	-	$360,043	$360,043
Grants	$9,734,167	$1,099,214	$10,833,381
Total	$23,477,040	$1,819,300	$25,296,340

The Parties shall budget, pursuant to their own budget mechanism and in accordance with the May 26th, 2016, First Amendment to the Master Agreement Regarding the Management of Collaborative Recharge Projects between IEUA and Watermaster.

3. Section 6 of the Task Order titled TOTAL BUDGETED COST shall be amended to read:

The Parties agree to pay their respective portion of the Budget, less the available grant funding. The parties shall not be required to pay more than $14,462,959 ("Total Budgeted Cost").

4. Section 7 of the Task Order titled MAXIMUM COSTS TO WATERMASTER shall be amended to read:

   The costs to be required of Watermaster shall not exceed its share of the Total Budgeted Cost, as shown in Section 5 above, or $14,102,916.

ALL OTHER PROVISIONS SHALL REMAIN UNCHANGED.

IN WITNESS WHEREOF, the parties hereby have caused this Amendment to be entered into as of the day and year written above.

CHINO BASIN WATERMASTER:	INLAND EMPIRE UTILITIES AGENCY:
Peter Kavounas, P.E. General Manager	Shivaji Deshmukh, P.E. General Manager

THIRD AMENDMENT
to
TASK ORDER NO. 9
RMPU IMPROVEMENT PROJECT 23a
under the
MASTER AGREEMENT REGARDING THE
MANAGEMENT OF COLLABORATIVE RECHARGE PROJECTS
between
INLAND EMPIRE UTILITIES AGENCY
and
CHINO BASIN WATERMASTER

This Third Amendment to Task Order No. 9 is made and entered into as of the ____ day of May 2024 by and between the Inland Empire Utilities Agency ("IEUA") and the Chino Basin Watermaster ("Watermaster") (each a "Party" and collectively, the "Parties").

RECITALS

A. Task Order No. 9 for the RMPU IMPROVEMENT PROJECT 23a (the "Task Order") was approved by IEUA and Watermaster on May 25, 2017, to govern the project management, planning, permitting, bid/award of construction, design and construction of the 2013 RMPU Proposed Wineville PS to Jurupa, Expanded Jurupa PS to RP3 Basin, and 2013 Proposed RP3 Improvements Project (RMPU Improvements Project ID 23a) ("Project").

B. The First Amendment to Task Order No. 9 was entered into by Watermaster and IEUA, effective June 16, 2021, which changed the total budget for the Project's total budget from $16,482,900 to $22,040,252 due to higher than anticipated bid prices for the Project and additional awarded grant funds for the Project. The First Amendment to Task Order No. 9 adjusted the reimbursement schedule under which Watermaster provides its share of the costs to IEUA accordingly.

C. On June 16, 2021, IEUA awarded a $15,480,480 construction contract for a portion of Project, the Wineville/Jurupa/Force Main Conveyance, to MNR Construction, Inc (MNR).

D. The Second Amendment to Task Order No. 9 was made effective September 21, 2022, which increased the available funds for the Wineville/Jurupa/Force Main Conveyance from $22,040,252 to $25,296,340. This raised the construction contingencies budget from $1,548,088 to $4,804,176, a $3,256,088 increase, to address unforeseen conditions, changes in scope, and extended delays.

E. Further unusual delays, unforeseen Project modifications, and adjustments to MNR's scope of work near Project completion have caused construction costs to increase. Therefore, IEUA and Watermaster staff are recommending increasing the funds available for the Wineville/Jurupa/Force Main Conveyance from and RP3 from $25,296,340 to $28,846,016, a $3,549,676 increase.

F. IEUA and Watermaster wish to amend Task Order No. 9 to increase the budget to cover higher than expected construction costs of the Project and to revise the reimbursement schedule under which Watermaster and IEUA provide its share of the costs.

NOW THEREFORE IT IS AGREED TO AMEND THE TASK ORDER AS FOLLOWS:

1. Section 2 of the Task Order titled SCOPE shall be amended to read:

   The activities to be undertaken pursuant to this Task Order include project development to properly establish project's scope and schedule, preliminary design evaluation to define the extent of the upgrades of each site, design for the preparation of the construction plans and specifications for the upgrades, permitting and CEQA review for each site proposed for upgrades, bid/award of the construction contract to the lowest responsible/responsive bidder, and the construction of the improvements. The following is projected cost breakdown and schedule for each of the project phases:

Phase	Start	Finish	Projected Cost
Project Development	7/1/2014	12/17/2014	$14,600
Pre-Design	12/18/2014	11/16/2016	$407,900
Environmental Impact	12/18/2014	4/20/2016	$179,500
Permits	12/18/2014	1/8/2018	$52,400
Design	6/22/2017	12/31/2020	$1,372,500
Bid and Award	1/1/2021	6/15/2021	$15,000
Construction	6/22/2021	12/31/2025	$26,804,116
		Total	$28,846,016

   As of the date upon which the Parties enter into this Task Order, the project development, pre-design and environmental impact phases of the Project have been completed and the Parties acknowledge that all funds for these phases have been expended and reimbursed, as applicable. The Task Order does not create any further rights or responsibilities for either of the Parties with respect to these phases of the Project.

2. Section 5 of the Task Order titled BUDGET AND COST ALLOCATION shall be amended to read:

   Unless the scope of work is changed and an increase is authorized by the Parties, the budget for the activities to be undertaken pursuant to this Task Order is twenty-eight million eight hundred forty-six thousand sixteen dollars ($28,846,016) ("Budget"), of which $10,833,381 is available in grant funds. The grant funds available for each phase of the Project are as follows:

Available Grants	Stormwater Distribution System/Wineville Basin/Jurupa Basin	RP-3 Basin	Total
State Water Resources Control Board - Storm Water Grant Program	$8,994,167	$809,214	$9,803,381
United States Department of Interior Bureau of Reclamation - Drought Resiliency	-	$290,000	$290,000
United States Department of Interior Bureau of Reclamation - Secure Water Act	$740,000	-	$740,000
Total	$9,734,167	$1,099,214	$10,833,381

The Parties agree that the Budget less the grant funds is shared consistent with the methodology described in Peace II Agreement Section 8.l(b), and that IEUA's share of the costs is based on a 50% allocation of the costs of those portions of the project for which there is a recycled water component. The Budget includes IEUA capital, administrative, and overhead expenses associated with IEUA's provision of the services described in Section 3 above. The total budget allocation by Party and project component is as follows:

CBWM/IEUA/Grant	Stormwater Distribution System/Wineville Basin/Jurupa Basin	RP-3 Basin	Total
Watermaster	$16,406,125	$803,255	$17,209,380
IEUA	-	$803,255	$803,255
Grants	$9,734,167	$1,099,214	$10,833,381
Total	$26,140,292	$2,705,724	$28,846,016

The Parties shall budget, pursuant to their own budget mechanism and in accordance with the May 26th, 2016, First Amendment to the Master Agreement Regarding the Management of Collaborative Recharge Projects between IEUA and Watermaster.

3. Section 6 of the Task Order titled TOTAL BUDGETED COST shall be amended to read:

   The Parties agree to pay their respective portion of the Budget, less the available grant funding. The parties shall not be required to pay more than $18,012,635 (“Total Budgeted Cost”).

4. Section 7 of the Task Order titled MAXIMUM COSTS TO WATERMASTER shall be amended to read:

   The costs to be required of Watermaster shall not exceed its share of the Total Budgeted Cost, as shown in Section 5 above, or $17,209,380.

5. Section 8 of the Task Order titled MAXIMUM COSTS TO IEUA shall be amended to read:

   The costs to be required of IEUA shall not exceed its share of the Total Budgeted Cost, as shown in Section 5 above, or $803,255.

ALL OTHER PROVISIONS SHALL REMAIN UNCHANGED.

IN WITNESS WHEREOF, the parties hereby have caused this Amendment to be entered into as of the day and year written above.

CHINO BASIN WATERMASTER:	INLAND EMPIRE UTILITIES AGENCY:
Todd Corbin, General Manager	Shivaji Deshmukh, P.E. General Manager

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: May 23, 2024

TO: Board Members

SUBJECT: Watermaster Fiscal Year 2024/25 Approved Budget (Business Item II.B.)

SUMMARY:

Issue: Fiscal Year 2024/25 Budget adoption [Advisory Committee Approval Required]

Recommendation: Adopt the Watermaster Fiscal Year 2024/25 Approved Budget as presented.

Financial Impact: The Fiscal Year 2024/25 Approved Budget is $10,503,350 (excluding any Carryover Funds).

Future Consideration
Watermaster Board – May 23, 2024: Adoption

ACTIONS:
Appropriative Pool – May 9, 2024: Unanimously recommended Advisory Committee approval of the budget as presented.
Non-Agricultural Pool – May 9, 2024: Unanimously recommended Advisory Committee approval of the budget as presented subject to changes which they deem appropriate.
Agricultural Pool – May 9, 2024: Unanimously recommended Advisory Committee approval of the budget as presented.
Advisory Committee – May 16, 2024: Unanimously approved the FY 2024/25 budget as presented.
Watermaster Board – May 23, 2024:

BACKGROUND

To prepare a budget of anticipated expenses each year, Watermaster conducts meetings with internal staff and consultants to discuss upcoming projects and anticipated work. As the budget is developed, the related budgeted expenses are continually refined based on feedback of the stakeholders. The following budget-related meetings were held during the past few months:

- Watermaster staff met with the West Yost staff on February 16, 2024 for an Engineering Services budget overview to discuss the ongoing engineering-related activities required by the Judgment, the Peace Agreements, Court orders, the Basin Plan, as well as other upcoming engineering activities.
- During the period of February through April 2024, Watermaster staff held numerous additional meetings and discussions with staff from West Yost to discuss questions and feedback regarding the Engineering Services budget and expected engineering activities for FY 2024/25.
- Watermaster staff has also had numerous meetings and discussions with staff from Brownstein Hyatt Farber Schreck regarding the Legal Services budget and expected legal activities for FY 2024/25 during the period of March through April 2024.
- In March 2024, the Treasurer of Inland Empire Utilities Agency, Mr. Alex Lopez, provided Watermaster's share of the Debt Service figures to be included in the budget for FY 2024/25.
- The Groundwater Recharge Coordinating Committee has met on a quarterly basis to review the anticipated costs of operations and maintenance activities and develop the scope of activities for the upcoming FY 2024/25 budget as recommended by IEUA. The last meeting was held on February 27, 2024.
- The Ground-Level Monitoring Committee met on March 7, 2024 to review and recommend a scope and budget for the Ground-Level Monitoring Program for FY 2024/25. The Technical Memorandum regarding the proposed recommendation for the scope and budget for the Ground-Level Monitoring Committee for FY 2024/25 was issued on April 22, 2024.
- The Prado Basin Habitat Sustainability Committee met on March 21, 2024 to review and recommend a scope and budget for the Prado Basin Habitat Sustainability Program for FY 2024/25. The Technical Memorandum regarding the proposed recommendation for the scope and budget for the Prado Basin Habitat Sustainability Program for FY 2024/25 was issued on March 7, 2024.
- The Recharge Investigations and Projects Committee meets quarterly and the most recent meeting was held on April 18, 2024. The purpose of these meetings is to review ongoing capital projects and future years' capital expense projections, and SRF loan and other financing activities.

Based on the above-mentioned activities of the various committees, along with other input from staff and consultants, Watermaster developed the Proposed FY 2024/25 Budget version dated May 3, 2024 in the amount of $10,503,350. Attachment 1 provides the Proposed FY 2024/25 Budget Detail and can be accessed at the following link:

Attachment 1: https://cbwm.syncedtool.com/shares/file/DLu20g3cJ8O/

DISCUSSION

On Tuesday, March 26, 2024, Watermaster conducted the Budget Release meeting and provided an overview of the Proposed FY 2024/25 Budget of $10,587,620 and provided information on the highlights of the proposed budget. The presentation provided the budget drivers and how those drivers become expenses, additional commitments, how the budget is developed, various budget comparison tables, the estimated assessment calculation, and future actions required. Representatives from West Yost and Brownstein Hyatt Farber Schreck presented their own proposed budgets and provided information on new

efforts, projects with narrowed and reduced budgets, and/or projects that are being completely removed for FY 2024/25.

Attendees at the meeting were requested to submit their budget-related questions using the FY 2024/25 Budget Questions portal located on the home page of Watermaster's website. By April 9, 2024, there were 20 questions submitted to the portal, and all responses were posted to the portal by April 23, 2024.

The Watermaster Budget Workshop #1 was held on Tuesday, April 16, 2024. Representatives from West Yost, Brownstein Hyatt Farber Schreck, and IEUA were available during the meeting to answer questions related to their specific areas of focus as contained within the proposed budget.

The majority of the workshop focused on addressing the questions submitted through the portal, specifically on the following topics: (1) Administrative expenses (meetings, office building, office supplies and equipment, accounting consulting services, travel expenses, conferences and seminars, board briefings/workshops, and rules and regulations rewrite); (2) Legal services for Archibald South Plume, Chino Airport Plume, and Santa Ana River Habitat Conservation Plan – accounts 6907.31, 6907.32, and 6907.36; (3) OBMP Update – account 6907.45; (4) Water Quality Management Program (WQMP) and Emerging Contaminants Monitoring Plan (EMCP) – accounts 7505 and 7520; (5) Safe Yield Court Order – accounts 6907.47 and 7614; (6) Ag Production Estimation – account 5925; (7) Storage and Recovery Master Plan – account 7610; (8) Salaries and Benefits – accounts 5901.7, 6901.3, 6901.9, 7301.1, and 60182.4; (9) Legal fees for OBMP update – account 6907.45; and (10) Recharge Water Program Debt Service and O&M – accounts 7690.1 and 7206. The West Yost team then presented additional information pertaining to the engineering budget, focusing on the major engineering tasks for FY 2024/25: (1) Water Quality Management Program, (2) Support Implementation of the Safe Yield Court Order, and (3) Develop 2025 Storage Management Plan.

An opportunity was provided at the end of the workshop for attendees to ask any questions. Parties were instructed on how to navigate to the Watermaster website portal to submit their questions, and the workshop was concluded with future required actions and next steps.

The Watermaster Budget Workshop #2 was held on Tuesday, April 23, 2024. Representatives from West Yost and Brownstein Hyatt Farber Schreck were available during the meeting to answer any questions related to their specific areas of focus within the proposed budget. The workshop focused on addressing the remaining questions submitted pertaining to carryover budget. In addition, supplemental schedules were provided to the parties: (1) Proposed Detail Budget of $10,550,970; (2) Carryover Budget Detail as of June 30, 2023; and (3) Updated Engineering Budget Tables with corresponding footnotes. An opportunity was provided for those in attendance to ask questions and/or obtain clarification on any item within the FY 2024/25 budget. There were no new topics raised for discussion, and the meeting was concluded with future required actions and next steps.

The Watermaster Budget Workshop #3 was held on Tuesday, April 30, 2024. Representatives from West Yost and Brownstein Hyatt Farber Schreck were available during the meeting to answer any questions related to their specific areas of focus within the proposed budget. The workshop focused on introducing updated documents: (1) Proposed Detail Budget of $10,481,920; (2) Carryover Budget Detail as of June 30, 2023; (3) Updated Engineering Budget Tables; (4) Updated Engineering Budget Summary. In addition, the workshop provided information pertaining to the Operating Reserves and the following documents were also provided to the parties: (5) Draft Calculation of Operating Cash Reserves, and (6) Cash Reserve Policy 4.17. An opportunity was provided for those in attendance to ask questions and/or obtain clarification on any item within the FY 2024/25 budget. There were no new topics raised for discussion, and the meeting was concluded with future required actions and next steps.

In addition to the budget workshops described above, Watermaster provided presentations at the three Pool Committee meetings on April 11, 2024, and gathered further advice and assistance from members of the three Pools.

Watermaster presented the proposed budget at the regular Advisory Committee meeting on April 18, 2024. The Advisory Committee took unanimous action to receive the budget consistent with the Advisory Committee recommendation for budget process adopted in 2021.

The Watermaster presented the proposed budget to the Watermaster Board at the regular meeting of April 25, 2024.

Since the budget release, the following changes have occurred:

- The budget for conferences (account 6191) was decreased by $36,650 due to a formula error that was allocating a level of funding not originally intended. This miscalculation was identified thanks to the feedback submitted by parties.
- Brownstein Hyatt Farber Schreck reduced the miscellaneous legal services (account 6078) budget by $81,946.
- West Yost reduced the ECMP monitoring budget (account 7505) by $61,257 and added $25,000 of estimated carryover to the Storage and Recovery Master Plan task (account 7610), reducing the proposed Watermaster engineering budget.
- Watermaster reduced the budget for building interior renovations (account 6025) by $1,360.
- Watermaster increased the budget for database services (account 6052.2) by $40,000.

The budget total at the budget release was $10,587,620 and the total amount at the time of this report is at $10,503,350, a total reduction of $84,270.

The carryover budget detail as of June 30,2023 is located below in Attachment 2 as follows:

Attachment 2: https://cbwm.syncedtool.com/shares/file/7QP7NLfKQ8L/

The expense sections below highlight the Proposed Fiscal Year 2024/25 budget.

	FY 2023/24 Approved Budget	FY 2024/25 Proposed Budget	Budget Variance ($)	Budget Variance (%)
Expenses				
Watermaster Expenses & Salaries	$ 3,601,520	$ 3,578,186	$ (23,334)	(1)%
Engineering Services	2,884,954	3,215,108	330,154	11%
Legal Services	1,385,829	1,349,679	(36,150)	(3)%
Debt Service and Recharge Basin O&M	1,941,521	2,360,377	418,856	22%
Total Expenses	**$ 9,813,825**	**$ 10,503,350**	**$ 689,525**	**7%**

WATERMASTER EXPENSES AND SALARIES - #1

The first section of the Proposed FY 2024/25 budget relates to Watermaster Expenses, Labor, and Burden. The Watermaster expenses for FY 2024/25 are $753,038 or 5% below the previous year's Approved Budget of $791,243. Labor and Burden for FY 2024/25 are $2,760,860 which is $49,417 or 2% below the previous year's Approved Budget of $2,810,277. The Full Time Equivalent (FTE) number of Watermaster employees for the Proposed FY 2024/25 Budget is currently at 12 FTE.

	FY 2023/24 Approved Budget	FY 2024/25 Proposed Budget	Budget Variance ($)	Budget Variance (%)
Watermaster Expenses				
Total Expenses	$ 791,243	$ 753,038	$ (38,205)	(5)%
Total Payroll	1,801,007	1,721,950	(79,057)	(4)%
Total Payroll Burden	1,009,270	1,038,910	29,640	3%
Total Watermaster Expenses	**$ 3,601,520**	**$ 3,513,898**	**$ (87,622)**	**(2)%**

All proposed adjustments to the Labor and Burden expense category are routine and follow past Watermaster practices and policy. Watermaster is using the approved Salary Schedule from FY 2023/24 with a 3.0% Cost of Living adjustment included. There are no new employee benefits being proposed that create additional costs for Watermaster. The FY 2024/25 Proposed Pay Schedule is located below in Attachment 3 as follows:

Attachment 3: https://cbwm.syncedtool.com/shares/file/MQBMZKYiC2c/

ENGINEERING SERVICES - #2

The second section of the Proposed FY 2024/25 budget relates to Watermaster Engineering Services. The Engineering Services budget is proposed at $3,215,108 which is $330,154 or 11% above the Approved FY 2023/24 Budget of $2,884,954 (which excludes Carry-Over funding for ongoing projects).

The Engineering Services documents are provided below in Attachment 4, Tables 1 through 4 and Attachment 5, a 61-page detailed narrative including Rationale, Scope of Work, and Deliverables for each budget category.

Attachment 4: https://cbwm.syncedtool.com/shares/file/UO9fWjFcX42/

Attachment 5: https://cbwm.syncedtool.com/shares/file/ygVjBH7HUF1/

Incorporated within the Engineering Services budget of $3,215,108 is the Ground-Level Monitoring Committee recommendations for FY 2024/25. The GLMC recommended a proposed budget of $393,647 less anticipated “Carry-Over” funding of $0 for a budget amount of $393,647 for FY 2024/25. Based on the discussions at meetings held by the Ground-Level Monitoring Committee, the recommendations and associated budget are shown below in Attachment 6.

Attachment 6: https://cbwm.syncedtool.com/shares/file/WHO1h0HCxjx/

The following chart details the proposed Engineering Services budget for FY 2024/25 categorized by Watermaster account number. The comparison is between the FY 2024/25 Proposed Budget of $3,215,108 and the FY 2023/24 Amended Budget of $2,884,954.

	FY 2023/24 Approved Budget	FY 2024/25 Proposed Budget	Budget Variance ($)	Budget Variance (%)
WY Engineering Services				
Engineering Services				
5901.8 · Admin-Meeting - West Yost	45,097	37,066	$ (8,031)	-18%
5906.1 · Admin-Watermaster Model Update	7,028	-	(7,028)	-100%
5906.71 · Admin-Data Req-CBWM Staff	126,204	101,048	(25,156)	-20%
5906.72 · Admin-Data Req-Non CBWM Staff	42,832	37,008	(5,824)	-14%
5925 · Ag Prod & Estimation-West Yost	34,376	31,096	(3,280)	-10%
5935 · Admin-Mat'l Phy Inj Requests	36,072	39,452	3,380	9%
5945 · WM Annual Report Prep-West Yost	15,416	16,924	1,508	10%
5965 · Support Data Collect-West Yost	36,336	39,659	3,323	9%
6206 · West Yost-Eng. Serv.-Advisory	23,466	23,510	44	0%
6306 · West Yost-Eng. Services-Board	23,466	23,510	44	0%
6901.8 · OBMP - Meeting - West Yost	45,096	37,066	(8,030)	-18%
6901.95 · OBMP - Reporting - West Yost	57,316	62,606	5,290	9%
6906 · OBMP Engineering Services - Other	46,992	51,440	4,448	9%
6906.1 · OBMP-Watermaster Model Update	-	67,596	67,596	
6906.21 · State of the Basin Report	-	195,188	195,188	
6906.26 · 2020 OBMP Update	24,016	-	(24,016)	-100%
7104.3 · Grdwtr Level-Engineering	253,745	254,627	882	0%
7104.8 · Grdwtr Level-Contracted Serv	10,000	26,174	16,174	162%
7104.9 · Grdwtr Level-Capital Equip	9,915	17,000	7,085	71%
7202 · Comp Recharge-Engineering - Other	29,084	23,496	(5,588)	-19%
7202.2 · Engineering Svc	83,188	75,944	(7,244)	-9%
7210 · OBMP - 2023 RMPU	34,328	-	(34,328)	-100%
7220 · Model Mtgs/Tech Review-50% IEUA	-	-	0	
7302 · PBHSP Monitoring Prog-Eng. Serv	48,121	73,305	25,184	52%
7303 · PE3&5-Engineering	15,632	16,180	548	4%
7306 · PE3&5-Outside Professionals	6,500	6,500	0	0%
7402 · PE4-Engineering	197,335	281,239	83,904	43%
7402.10 · PE4 - Northwest MZ1 Area Proj.	121,703	16,656	(105,047)	-86%
7403 · PE4-Contract Svcs-InSar	90,000	39,600	(50,400)	-56%
7406 · PE4 - Outside Professionals	76,552	38,600	(37,952)	-50%
7408 · PE4 - Network Equipment	9,081	17,553	8,472	93%
7502 · PE6&7-Engineering	329,661	398,309	68,648	21%
7505 · PE6&7-Lab Services	47,470	61,242	13,772	29%
7508 · HC Mitigation Plan-50% IEUA	-	-	0	
7510 · PE6&7-IEUA Salinity Mgmt. Plan	14,879	-	(14,879)	-100%
7511 · PE6&7-SAWBMPTask Force	24,610	27,067	2,457	10%
7517 · Surface Water-Chino Creek-IEUA	69,821	33,574	(36,247)	-52%
7520 · Prep Water Quality Mgmt Plan	157,692	130,164	(27,528)	-17%
7610 · PE8&9-Support 2020 Mgmt. Plan	26,648	32,584	5,936	22%
7614 · PE8&9-Develop S&R Master Plan	543,747	768,963	225,216	41%
7615 · PE8&9-Develop 2025 Storage Plan	-	42,632	42,632	
7620 · Extreme Future Plan Scenarios	51,130	-	(51,130)	-100%
8306 · West Yost-Eng. Services-AP	23,467	23,510	43	0%
8406 · West Yost-Eng. Services-OAP	23,466	23,510	44	0%
8506 · West Yost-Eng. Services-ONAP	23,466	23,510	44	0%
Total WY Engineering Services to be Assessed	**$ 2,884,954**	**$ 3,215,108**	**$ 330,154**	**11%**

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

LEGAL SERVICES - #3

The third section of the Proposed FY 2024/25 budget relates to Watermaster Legal Services. The Proposed FY 2024/25 Brownstein Hyatt Farber Schreck budget is $1,349,679 which is $36,150 or 3% lower than the FY 2023/24 Approved Budget of $1,385,829.

The following chart details the proposed Legal Services budget for FY 2024/25 categorized by Watermaster's account numbers. The comparison is between the FY 2024/25 Proposed Budget of $1,349,679 and the FY 2023/24 Approved Budget of $1,385,829.

	FY 2023/24 Approved Budget	FY 2024/25 Proposed Budget	Budget Variance ($)	Budget Variance (%)
BHFS Legal Services				
Administrative (6070s)				
6071 · BHFS Legal - Court Coordination	171,260	144,040	(27,220)	(16)%
6072 · BHFS Legal - Rules & Regs	92,900	10,495	(82,405)	(89)%
6073 · BHFS Legal - Personnel Matters	10,820	28,150	17,330	160%
6074 · BHFS Legal - Interagency Issues	43,704	40,536	(3,168)	(7)%
6077 · BHFS Legal - Party Status Maint	13,730	13,590	(140)	(1)%
6078 · BHFS Legal - Miscellaneous - Other	233,550	177,240	(56,310)	(24)%
Administrative (6070s)	$ 565,964	$ 414,051	$ (151,913)	(27)%
Meetings (62, 63, 83, 84, 85)				
6275 · BHFS Legal - Advisory Committee	26,708	27,764	1,056	4%
6375 · BHFS Legal - Board Meeting	85,272	88,704	3,432	4%
6375.1 · BHFS Legal - Board Workshop(s)	28,095	29,215	1,120	4%
8375 · BHFS Legal - Appropriative Pool	33,385	34,705	1,320	4%
8475 · BHFS Legal - Agricultural Pool	33,385	34,705	1,320	4%
8575 · BHFS Legal - Non-Ag Pool	33,385	34,705	1,320	4%
Meetings (62, 63, 83, 84, 85)	240,230	249,798	9,568	4%
OBMP (6900s)				
6907.31 · Archibald South Plume	12,085	12,565	480	4%
6907.32 · Chino Airport Plume	12,085	12,565	480	4%
6907.33 · Desalter/Hydraulic Control	37,200	38,680	1,480	4%
6907.34 · Santa Ana River Water Rights	20,595	21,405	810	4%
6907.36 · Santa Ana River Habitat	30,090	31,280	1,190	4%
6907.38 · Reg. Water Quality Cntrl Board	30,090	63,200	33,110	110%
6907.39 · Recharge Master Plan	30,495	14,270	(16,225)	(53)%
6907.40 · Storage Agreements	16,960	-	(16,960)	(100)%
6907.41 · Prado Basin Habitat Sustain	9,900	10,290	390	4%
6907.44 · SGMA Compliance	9,900	10,290	390	4%
6907.45 · OBMP Update	172,880	177,240	4,360	3%
6907.47 · 2020 Safe Yield Reset	33,920	80,190	46,270	136%
6907.48 · Ely Basin Investigation	126,040	64,890	(61,150)	(49)%
6907.49 · San Sevaine Basin Discharge	-	110,080	110,080	
6907.9 · WM Legal Counsel-Unanticipated	37,395	38,885	1,490	4%
OBMP (6900s)	579,635	685,830	106,195	18%
Total BHFS Legal Services to be Assessed	**$ 1,385,829**	**$ 1,349,679**	**$ (36,150)**	**(3)%**

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

As with the past practice for the last ten plus years, the Brownstein Hyatt Farber Schreck Legal Services budget has been developed using a formula of assumed hours to complete a specific task multiplied by the hourly rate. Brownstein Hyatt Farber Schreck hourly rates for some staff did slightly increase for the FY 2024/25 period. Brownstein has provided a detailed memorandum and worksheet which is provided below in Attachment 7 dated March 25, 2024.

Attachment 7: https://cbwm.syncedtool.com/shares/file/xJfbk2jtMvf/

DEBT SERVICE AND RECHARGE BASIN O&M COSTS - #4

The fourth section of the Proposed FY 2024/25 budget relates to Watermaster's Debt Service and Recharge Basin O&M. The Debt Service is based upon principal and interest on the (1) 2020A Refunding (2008B Variable Revenue Rate Bonds) totaling $5.7M for 11 years @ 0.849% and matures in 2032; (2) San Sevaine Improvement (SRF Loan) totaling $1.5M for 30 years @1.8% and matures in December 2049; (3) Lower Day Improvement (SRF Loan) totaling $2.9M for 20 years @ .55% and matures in January 2044; (4) Montclair Basin Improvement (SRF Loan) totaling $2.06M for 20 years @ .55% and matures in February 2044; and (5) FY 2021 $933,000 and FY 2022 $7.0M Inter-Fund Loan to Recharge Water. IEUA and Watermaster share the principal and interest expenses on a 50/50 basis.

The Proposed FY 2024/25 Debt Service budget is $772,770. The FY 2023/24 budget for this category was $746,765. Due to a requested revision at the time of the posting of the budget to the Pools, an adjustment of $101,723 will be integrated into the budget with no change to the total expenses presented.

Summary Debt Service

Debt Type	FY 2024/25 Budget	Funding from CBWM	Funding from IEUA
2020A Refunding Bonds (2008B Variable)	$759,649	$379,825	$379,824
San Sevaine Improvement (SRF loan)	$101,947	$50,973	$50,974
Lower Day Basin Improvement (SRF Loan)	$54,550	$54,550	$0
Montclair Basin Improvement (SRF Loan)	$97,446	$97,446	$0
Interfund loan supporting RMPU projects (interest only)**	$202,100	$189,974	$12,126
Total Debt service	**$1,215,692**	**$772,768**	**$442,924**

The current budget details regarding the Debt Service are shown below in Attachment 8.

Attachment 8: https://cbwm.syncedtool.com/shares/file/zLLcdkSakf3/

The Recharge Basin O&M expenses are shared costs between IEUA and Watermaster and are based upon the Agreement for Operations and Maintenance of Facilities to Implement the Chino Basin Recharge Master Plan. The pro-rata cost-sharing methodology is based on the relative proportion of recycled water to the total water recharged in the basins.

The total FY 2024/25 budget for the Watermaster's portion of the shared costs for Recharge Basin O&M expenses is $1,587,607. The 2023/24 budget for this category was $1,194,756.

The detailed worksheets provided by IEUA for the FY 2024/25 budget are shown below in Attachment 9.

Attachment 9: https://cbwm.syncedtool.com/shares/file/LLP18wKKZnz/

At the Pool Committee meetings held on May 9, 2024, the Appropriative and Overlying (Agricultural) Pools unanimously recommended Advisory Committee to approve the Watermaster Fiscal Year 2024/25 Proposed Budget as presented; the Overlying (Non-Agricultural) Pool unanimously recommended its representatives to support at Advisory Committee and Watermaster Board subject to changes they deem appropriate.

The Fiscal Year 2024/25 Budget was presented to the Advisory Committee on May 16, 2024, where it was unanimously approved.

ATTACHMENTS

1. 20240503 – FY 2024-25 Proposed Budget Detail_$10,503,350
   https://cbwm.syncedtool.com/shares/file/DLu20g3cJ8O/

2. 20240503 – Carryover Budget Breakdown
   https://cbwm.syncedtool.com/shares/file/7QP7NLfKQ8L/

3. 20240503 – FY 2024-25 Pay Schedule_$2,760,860
   https://cbwm.syncedtool.com/shares/file/MQBMZKYiC2c/

4. 20240503 – FY 2024-25 Engineering Services Budget_Tables_$3,215,108
   https://cbwm.syncedtool.com/shares/file/UO9fWjFcX42/

5. 20240503 – FY 2024-25 Engineering Services Budget – Narratives
   https://cbwm.syncedtool.com/shares/file/ygVjBH7HUF1/

6. 20240503 - FY 2024-25 GLMC Technical Memorandum dated April 22, 2024_$393,647
   https://cbwm.syncedtool.com/shares/file/WHO1h0HCxjx/

7. 20240503 – FY 2024-25 BHFS Legal Services_$1,349,679
   https://cbwm.syncedtool.com/shares/file/xJfbk2jtMvf/

8. 20240503 – FY 2024-25 Debt Service and Recharge Basin O&M PPT
   https://cbwm.syncedtool.com/shares/file/zLLcdkSakf3/

9. 20240503 – FY 2024-25 O&M Budget_$1,587,607
   https://cbwm.syncedtool.com/shares/file/LLP18wKKZnz/

CHINO BASIN WATERMASTER
PROPOSED BUDGET - DETAIL
FISCAL YEAR 2024-2025

ATTACHMENT 1

	Schedule A *Proposed Annual Budget - Detail*	A FY 2023/24 Approved Budget	YTD Actual	B FY 2023/24 Projected Ending	C FY 2024/25 Proposed Budget	D = C-A Budget Variance ($)	E = D/A Budget Variance (%)
1	**Revenue**						
2	**Administration Revenue**						
3	***4000 Mutual Agency Revenue***						
4	4040 · Cooperative Agreement	186,412	186,412	186,412	191,070	4,658	2%
5	Local Agency Subsidies	186,412	186,412	186,412	191,070	4,658	2%
6	***4110 Appropriative Pool Assessments***						
7	4111 · Gross Administration	2,803,245	2,831,145	2,831,145	2,593,450	(209,795)	-7%
8	4111.2 · OBMP - Adm Assessment	3,654,835	3,678,686	3,678,686	4,481,220	826,385	23%
9	4111.3 · App Pool - Special Assessments	-	285,000	285,000	-	-	0%
10	4112 · Agric. Pool Transfer	685,532	724,055	724,055	613,510	(72,022)	-11%
11	4113 · OBMP - Ag Pool Water Reall	893,788	940,831	940,831	1,060,080	166,292	19%
12	4114 · Ag Pool Admin & Legal Services	-	361,000	361,000	-	-	0%
13	4115 · Recharge Improvement Payment	102,000	102,000	102,000	-	(102,000)	-100%
14	4116 · Recharge Debt Payment	746,765	746,765	746,765	772,770	26,005	3%
15	Admin Assessments-Appropriative Pool	8,886,164	9,669,482	9,669,482	9,521,030	634,866	7%
16	***4120 Non-Agricultural Pool Assessments***						
17	4123 · Non-Agricultural Pool	$186,107	126,955	126,955	114,650	(71,457)	-38%
18	4123.3 · Non-Ag Pool-Special Assessment	-	31,000	31,000	-	-	0%
19	4124 · OBMP Adm Assessment	242,644	164,960	164,960	198,100	(44,544)	-18%
20	Admin Assessments-Non-Ag Pool	428,750	322,914	322,914	312,750	(116,000)	-27%
21	**Total Administration Revenue**	**9,501,327**	**10,178,809**	**10,178,809**	**10,024,850**	**523,523**	**6%**
22	**Other Revenue**						
23	***4225 · Interest Income***						
24	4225 · Interest Income	-	349,026	465,368	478,550	478,550	
25	***4730 Prorated Interest Income***						
26	4731 · Interest - Agri. Pool	12,500	42,488	-	-	(12,500)	-100%
27	4732 · Interest - Approp. Pool	295,000	11,920	-	-	(295,000)	-100%
28	4733 · Interest - Non-Ag Pool	5,000	2,057	-	-	(5,000)	-100%
29	4738 · Interest - Replenishment	-	33,433	-	-	-	0%
30	Interest Income	312,500	438,924	465,368	478,500	166,000	53%
31	Miscellaneous Income	-	-	-	-	-	0%
32	**Total Other Revenue**	**312,500**	**438,924**	**465,368**	**478,500**	**166,000**	**53%**
33	**Total Revenue**	**9,813,827**	**10,617,733**	**10,644,177**	**10,503,350**	**689,523**	**7%**
34	**Expenses**						
35	**Judgment Administration Expense**						
36	***5900 Judgment Administration Costs***						
37	5901.1 · Admin-Doc. Review-WM Staff	82,794	26,429	36,707	93,860	11,066	13%
38	5901.3 · Admin-Field Work-WM Staff	7,760	2,314	3,214	11,860	4,100	53%
39	5901.5 · Admin-General-WM Staff	60,129	50,594	70,269	81,090	20,961	35%
40	5901.7 · Admin-Meeting-WM Staff	2,633	9,718	13,497	39,710	37,077	1408%
41	5901.8 · Admin-Meeting - West Yost	45,097	-	-	37,066	(8,031)	-18%
42	5901.9 · Admin-Reporting-WM Staff	31,033	1,324	1,839	13,890	(17,143)	-55%
43	5906.1 · Admin-Watermaster Model Update	7,028	-	-	-	(7,028)	-100%
44	5906.71 · Admin-Data Req-CBWM Staff	126,204	43,971	61,070	101,048	(25,156)	-20%
45	5906.72 · Admin-Data Req-Non CBWM Staff	42,832	6,276	8,716	37,008	(5,824)	-14%
46	5910 · Court Coordination/Attend-WM	19,098	8,774	12,186	16,970	(2,128)	-11%
47	5911 · Exhibit G-WM Staff	2,370	1,592	2,211	6,400	4,030	170%
48	5921 · Production Monitoring-WM Staff	11,322	2,892	4,016	5,440	(5,882)	-52%
49	5925 · Ag Prod & Estimation-West Yost	34,376	22,928	31,844	31,096	(3,280)	-10%
50	5931 · Recharge Applications-WM Staff	4,634	-	-	-	(4,634)	-100%
51	5935 · Admin-Mat'l Phy Inj Requests	36,072	3,131	4,348	39,452	3,380	9%
52	5941 · Reporting-WM Staff	1,316	530	737	2,140	824	63%
53	5945 · WM Annual Report Prep-West Yost	15,416	11,671	16,210	16,924	1,508	10%
54	5951 · Rules & Regs-WM Staff	12,726	-	-	11,260	(1,466)	-12%
55	5961 · Safe Yield-WM Staff	26,330	1,049	1,457	9,510	(16,820)	-64%

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56	5965 · Support Data Collect-West Yost	36,336	5,496	7,633	39,659	3,323	9%	
57	5971 · Storage Agreements-WM Staff	4,739	2,081	2,891	13,000	8,261	174%	
58	5981 · Water Acct/Database-WM Staff	109,793	86,300	119,861	108,290	(1,503)	-1%	
59	5991 · Water Transactions-WM Staff	8,688	3,550	4,931	5,330	(3,358)	-39%	
60	Judgment Administration Costs	728,726	290,618	403,636	721,010	(7,716)	-1%	
61	***6010 Administration Salary Costs***							
62	6010.01 · Payroll Severance	-	447,861	447,861	-	-		
63	6011.11 · WM Staff - Overtime	15,000	8,805	13,883	18,000	3,000	20%	
64	6011.12 · WM Staff - Doubletime	-	67	67	-	-	0%	
65	6011.4 · 457(f) NQDC Plan	55,467	18,494	18,494	-	(55,467)	-100%	
66	6011.10 · Accounting-WM Staff	367,685	154,277	214,273	278,330	(89,355)	-24%	
67	6011.15 · Building Admin-WM Staff	18,359	3,900	5,416	31,200	12,841	70%	
68	6011.20 · Conference/Seminar-WM Staff	57,083	23,071	32,043	58,530	1,447	3%	
69	6011.25 · Document Review-WM Staff	6,846	659	916	2,620	(4,226)	-62%	
70	6011.50 · General-WM Staff	569,850	340,557	472,995	362,560	(207,290)	-36%	
71	6011.55 · Flex Monday-WM Staff	-	32,100	44,583	-	-	0%	
72	6011.60 · HR-WM Staff	43,489	70,035	97,271	50,450	6,961	16%	
73	6011.70 · IT-WM Staff	53,975	36,597	50,829	34,070	(19,905)	-37%	
74	6011.80 · Meeting-WM Staff	90,440	33,352	46,322	39,760	(50,680)	-56%	
75	6011.90 · Team Building-WM Staff	41,304	7,612	10,572	41,550	246	1%	
76	6011.95 · Training-Give/Receive-WM Staff	34,312	20,437	28,385	64,160	29,848	87%	
77	6012 · Payroll Services	4,800	5,175	6,175	6,640	1,840	38%	*
78	6013 · Human Resources Services	30,000	32,157	38,607	15,000	(15,000)	-50%	
79	6015.5 · Retention Bonus Payment - GM	-	60,000	60,000	-	-	0%	
80	6016 · New Employee Search Costs	1,000	2,730	2,961	3,210	2,210	221%	*
81	6017 · Temporary Services	24,000	28,757	49,613	26,040	2,040	9%	*
82	6018 Fringe Benefits	1,009,270	712,824	997,226	1,039,610	30,340	3%	*
83	60199 · Payroll Burden Allocated	(1,009,270)	(552,038)	(766,720)	(1,039,610)	(30,340)	3%	
84	Administration Salary Costs	1,413,610	1,487,911	1,872,453	1,032,120	(381,490)	-27%	
85	***6020 Office Building Expense***							
86	6021 · Office Lease	166,438	108,953	144,134	140,720	(25,718)	-15%	
87	6022 · Telephone	16,296	9,559	13,015	17,680	1,384	8%	*
88	6023 · Office Utilities	-	13,539	23,354	24,740	24,740		
89	6024 · Building Repair & Maintenance	23,276	26,512	31,532	34,400	11,124	48%	*
90	6025 Building Interior Renovations	-	-	-	15,930	15,930		*
91	6027 · Other Building Expense	2,500	-	-	1,000	(1,500)	-60%	
92	Office Building Expense	208,510	158,564	212,035	234,470	25,960	12%	
93	***6030 Office Supplies & Equip.***							
94	6031.1 · Copy Paper	1,500	320	674	750	(750)	-50%	
95	6031.7 · General Office Supplies	21,000	16,919	22,369	24,610	3,610	17%	*
96	6036 · Minor Office Furniture	2,500	3,652	3,652	5,000	2,500	100%	*
97	6038 · Other Office Equipment	-	7,551	10,068	2,000	2,000		*
98	6039.1 · Banking Service Charges	14,400	7,725	11,265	14,400	-	0%	
99	6141 · Meeting Expenses - Other	-	-	571	-	-	0%	
100	6141.1 · Meeting Supplies	450	-	-	8,970	8,520	1893%	*
101	6141.2 · Committee Meetings	600	-	-	-	(600)	-100%	
102	6141.3 · Admin Meetings	5,800	6,204	6,861	-	(5,800)	-100%	
103	6147 · Other Admin Expenses	700	538	605	660	(40)	-6%	*
104	Office Supplies & Equip.	46,950	42,909	56,066	56,390	9,440	20%	
105	***6040 Postage & Printing Costs***							
106	6042 · Postage - General	-	1,620	2,120	4,780	4,780		*
107	6043 · Copy Machine Lease	4,000	-	-	24,190	20,190	505%	*
108	6043.1 · Ricoh Lease Fee	18,136	12,976	17,174	-	(18,136)	-100%	
109	6043.2 · Ricoh Usage & Maintenance Fee	1,600	1,309	1,399	-	(1,600)	-100%	
110	6043.3 · Ricoh Property Tax Fees	450	255	255	-	(450)	-100%	
111	6044 · Postage Meter Lease	1,820	2,419	2,873	-	(1,820)	-100%	

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112	6045 · Printing	3,000	2,236	2,236	3,000	-	0%	
113	6046 · Legal Publications/Services	4,800	895	895	980	(3,820)	-80%	*
114	Postage and Printing Costs	33,806	21,709	26,953	32,950	(856)	-3%	
115	***6050 Information Services***							
116	6052.2 · Database Services	51,000	34,000	45,333	91,000	40,000	78%	
117	6052.4 · IT Managed Services	66,106	41,642	55,522	59,840	(6,266)	-9%	*
118	6052.5 · IT Data Backup/Storage	21,720	16,192	21,589	23,280	1,560	7%	*
119	6052.6 · IT Services/Projects	1,920	5,000	6,667	-	(1,920)	-100%	
120	6053 · Internet Expense	13,272	8,847	11,797	12,610	(662)	-5%	*
121	6054 · Computer Software	20,000	5,042	6,723	20,000	-	0%	
122	6055 · Computer Hardware	20,000	5,610	7,480	20,000	-	0%	
123	6056 · Website Services	4,800	-	-	4,800	-	0%	
124	6057 · Computer Maintenance	1,000	-	-	1,000	-	0%	
125	Information Services	199,818	116,333	155,111	232,530	32,712	16%	
126	***6060 WM Special Contract Services***							
127	6061.1 · Accounting Services Consultant	-	91,604	100,745	50,000	50,000		
128	6061.2 · HRIS System	-	2,037	2,885	2,890	2,890		*
129	6061.3 · Rauch	24,000	19,548	19,548	25,200	1,200	5%	
130	6061.5 · Court Filing Services	7,200	2,281	2,961	2,000	(5,200)	-72%	*
131	6062 · Audit Services - Other	16,750	16,009	16,009	18,750	2,000	12%	*
132	6062.5 · Audit Support Services	4,250	1,350	1,350	4,620	370	9%	*
133	6068 · Hearing Officer	8,000	-	-	8,000	-	0%	
134	WM Special Contract Services	60,200	132,828	143,497	111,460	51,260	85%	
135	***6070 Watermaster Legal Services***							
136	6071 · BHFS Legal - Court Coordination	171,260	278,904	360,101	144,040	(27,220)	-16%	
137	6072 · BHFS Legal - Rules & Regs	92,900	-	-	10,495	(82,405)	-89%	
138	6073 · BHFS Legal - Personnel Matters	10,820	285,176	353,122	28,150	17,330	160%	
139	6074 · BHFS Legal - Interagency Issues	43,704	-	-	40,536	(3,168)	-7%	
140	6077 · BHFS Legal - Party Status Maint	13,730	1,205	11,655	13,590	(140)	-1%	
141	6078 · BHFS Legal - Miscellaneous - Other	233,550	149,698	200,830	177,240	(56,310)	-24%	
142	6078.25 · Ely 3 Basin Investigation	-	2,394	6,864	-	-	0%	
143	Watermaster Legal Services	565,964	717,378	932,572	414,060	(151,904)	-27%	
144	***6080 Insurance Expense***							
145	6085 · Business Insurance Package	50,212	46,256	46,718	50,690	478	1%	*
146	6086 · Position Bond Insurance	256	-	-	260	4	2%	*
147	Insurance Expense	50,468	46,256	46,718	50,950	482	1%	
148	***6110 Dues and Subscriptions***							
149	6111 · Membership Dues	39,127	34,394	34,579	25,000	(14,127)	-36%	
150	6112 · Subscriptions/Publications	900	3,014	3,066	900	-	0%	
151	Dues and Subscriptions	40,027	37,408	37,645	25,900	(14,127)	-35%	
152	***6150 Field Supplies & Equipment***							
153	6151 · Small Tools & Equipment	450	-	-	450	-	0%	
154	6152 · Safety Shoes	800	-	345	800	-	0%	
155	6154 · Uniforms	1,950	1,331	1,907	1,950	-	0%	
156	Field Supplies & Equipment	3,200	1,331	2,252	3,200	-	0%	
157	***6170 Travel & Transportation***							
158	6171.1 · Vehicle Allowance	8,400	6,634	8,134	20,400	12,000	143%	
159	6171.2 · Watermaster Mgmt Staff	14,400	4,500	7,500	-	(14,400)	-100%	
160	6172 · Rental Vehicle	-	916	916	1,000	1,000		*
161	6173 · Airfare/Mileage	1,450	1,779	2,443	5,000	3,550	245%	
162	6174 · Public Transportation	120	-	-	120	-	0%	
163	6175 · Vehicle Fuel	2,700	2,489	3,302	3,320	620	23%	*
164	6177 · Vehicle Repairs & Maintenance	2,500	1,906	1,906	5,120	2,620	105%	*
165	6179 -New Vehicle	-	-	-	70,000	70,000		
165	Travel and Transportation	29,570	18,224	24,201	104,960	75,390	255%	

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167	***6190 Conferences & Seminars***							
168	6191 · Conferences - General	8,500	6,623	10,583	15,000	6,500	76%	
169	6192 · Seminars - General	14,450	309	309	-	(14,450)	-100%	
170	6193 · Employee Training	20,250	29,154	31,989	34,370	14,120	70%	*
171	6193.2 · Conference - Registration Fee	7,200	3,193	3,762	-	(7,200)	-100%	
172	Conferences and Seminars	50,400	39,280	46,643	49,370	(1,030)	-2%	
173	***6200 Advisory Committee Expenses***							
174	6201 · WM Staff Salaries	55,149	21,895	30,410	82,850	27,701	50%	
175	6206 · West Yost-Eng. Serv.-Advisory	23,466	5,686	7,581	23,510	44	0%	
176	6212 · Meeting Expense	500	-	-	-	(500)	-100%	
177	6275 · BHFS Legal - Advisory Committee	26,708	3,821	5,095	27,764	1,056	4%	
178	Advisory Committee Expenses	105,823	31,402	43,086	134,130	28,307	27%	
179	***6300 Watermaster Board Expenses***							
180	6301 · WM Staff Salaries	61,818	69,765	96,896	83,910	22,092	36%	
181	6306 · West Yost-Eng. Services-Board	23,466	20,699	33,939	23,510	44	0%	
182	6311 · Board Member Compensation	35,000	32,875	41,500	40,000	5,000	14%	
183	6312 · Meeting Expenses	8,650	4,095	7,871	8,650	-	0%	
184	6313 · Board Member Expenses	300	-	-	300	-	0%	
185	6375 · BHFS Legal - Board Meeting	85,272	58,184	74,777	88,704	3,432	4%	
186	6375.1 · BHFS Legal - Board Workshop(s)	28,095	-	-	29,215	1,120	4%	
187	6375.2 · Board Workshop Expenses-Misc.	14,000	-	-	14,000	-	0%	
188	Watermaster Board Expenses	256,601	185,618	254,983	288,290	31,689	12%	
189	***8300 Appropriative Pool Administration***							
190	8301 · WM Staff Salaries	53,761	31,620	43,917	67,280	13,519	25%	
191	8306 · West Yost-Eng. Services-AP	23,467	16,549	22,376	23,510	43	0%	
192	8312 · Meeting Expenses	1,560	177	228	-	(1,560)	-100%	
193	8375 · BHFS Legal - Appropriative Pool	33,385	7,733	10,926	34,705	1,320	4%	
194	Appropriative Pool Administration	112,173	56,079	77,447	125,500	13,327	12%	
195	***8400 Agricultural Pool Administration***							
196	8401 · WM Staff	51,549	10,403	14,448	66,000	14,451	28%	
197	8406 · West Yost-Eng. Services-OAP	23,466	14,187	18,916	23,510	44	0%	
198	8412 · Meeting Expenses	300	-	-	-	(300)	-100%	
199	8467 · Ag Legal & Technical Services	-	105,911	141,214	-	-	0%	
200	8470 · Ag Meeting Attend -Special	-	35,500	47,333	-	-	0%	
201	8471 · Ag Pool Expense	-	9,357	12,476	-	-	0%	
202	8475 · BHFS Legal - Agricultural Pool	33,385	7,733	10,310	34,705	1,320	4%	
203	Agricultural Pool Administration	108,700	183,090	244,697	124,220	15,520	14%	
204	***8500 Non-Agricultural Pool Administration***							
205	8501 · WM Staff	50,443	6,888	9,567	62,710	12,267	24%	
206	8506 · West Yost-Eng. Services-ONAP	23,466	9,852	13,599	23,510	44	0%	
207	8511 · Non-Ag Pool Member Compensation	-	5,000	6,750	-	-	0%	
208	8512 · Meeting Expense	900	-	-	-	(900)	-100%	
209	8567 · Non-Ag Legal Service	-	17,448	23,367	-	-	0%	
210	8575 · BHFS Legal - Non-Ag Pool	33,385	7,733	10,926	34,705	1,320	4%	
211	Non-Agricultural Pool Administration	108,194	46,920	64,208	120,940	12,746	12%	
212	***9500 Allocated Administration Expenses***							
213	9500 · Allocated Admin Expenditures	(440,829)	(200,303)	(304,700)	(540,830)	(100,001)	23%	
214	Allocated Administration Expenses	(440,829)	(200,303)	(304,700)	(540,830)	(100,001)	23%	
215	**Total Judgment Administration Expenses**	**3,681,911**	**3,413,553**	**4,339,503**	**3,321,620**	**(360,291)**	**-10%**	
216	**OBMP Expenses & Program Elements 1-9**							
217	***6900 Optimum Basin Mgmt Program***							
218	6901.1 · OBMP - Doc. Review - WM Staff	89,136	25,652	35,627	95,290	6,154	7%	
219	6901.3 · OBMP - Field Work - WM Staff	7,003	1,858	2,580	50,870	43,867	626%	
220	6901.5 · OBMP - General - WM Staff	124,049	82,618	114,748	81,120	(42,929)	-35%	
221	6901.7 · OBMP - Meeting - WM Staff	57,589	24,777	34,413	80,360	22,771	40%	
222	6901.8 · OBMP - Meeting - West Yost	45,096	37,692	83,945	37,066	(8,030)	-18%	

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223	6901.9 · OBMP - Reporting - WM Staff	2,370	5,443	7,560	11,040	8,670	366%	
224	6901.95 · OBMP - Reporting - West Yost	57,316	53,194	53,194	62,606	5,290	9%	
225	OBMP - WM Staff Salaries	382,559	231,233	332,066	418,360	35,801	9%	
226	***6903 OBMP - SAWPA Group***							
227	6903 · OBMP SAWPA Group	24,071	24,071	24,071	15,990	(8,081)	-34%	
228	OBMP - SAWPA Group	24,071	24,071	24,071	15,990	(8,081)	-34%	
229	***6906 OBMP - Engineering Services***							
230	6906 · OBMP Engineering Services - Other	46,992	27,295	39,306	51,440	4,448	9%	
231	6906.1 · OBMP-Watermaster Model Update	-	18,889	18,889	67,596	67,596		
232	6906.21 · State of the Basin Report	-	-	-	195,188	195,188		
233	6906.26 · 2020 OBMP Update	24,016	4,508	4,508	-	(24,016)	-100%	
234	OBMP - Enginnering Services	71,008	50,692	62,703	314,230	243,222	343%	
235	***6907 OBMP - Legal***							
236	6907.31 · Archibald South Plume	12,085	-	-	12,565	480	4%	
237	6907.32 · Chino Airport Plume	12,085	720	720	12,565	480	4%	
238	6907.33 · Desalter/Hydraulic Control	37,200	1,358	1,358	38,680	1,480	4%	
239	6907.34 · Santa Ana River Water Rights	20,595	3,037	3,037	21,405	810	4%	
240	6907.36 · Santa Ana River Habitat	30,090	-	-	31,280	1,190	4%	
241	6907.38 · Reg. Water Quality Cntrl Board	30,090	2,484	2,588	63,200	33,110	110%	
242	6907.39 · Recharge Master Plan	30,495	38,876	54,532	14,270	(16,225)	-53%	
243	6907.40 · Storage Agreements	16,960	-	-	-	(16,960)	-100%	
244	6907.41 · Prado Basin Habitat Sustain	9,900	-	880	10,290	390	4%	
245	6907.44 · SGMA Compliance	9,900	-	-	10,290	390	4%	
246	6907.45 · OBMP Update	172,880	195,930	218,841	177,240	4,360	3%	
247	6907.47 · 2020 Safe Yield Reset	33,920	15,625	16,443	80,190	46,270	136%	
248	6907.48 · Ely Basin Investigation	126,040	84,476	84,476	64,890	(61,150)	-49%	
249	6907.49 · San Sevaine Basin Discharge	-	-	-	110,080		0%	
250	6907.9 · WM Legal Counsel-Unanticipated	37,395	-	-	38,885	1,490	4%	
251	OBMP - Legal Services	579,635	342,505	382,873	685,830	106,195	18%	
252	***6908.1 OBMP Update - Dodson & Associates***							
253	6908.1 · 2022 OBMP Update-Dodson & Assoc	-	76,629	109,288	-	-	0%	
254	OBMP Update - Dodson & Associates	-	76,629	109,288	-	-	0%	
255	***6909 OBMP - Miscellaneous Expenses***							
256	6909.1 · OBMP Meetings	1,500	-	-	-	(1,500)	-100%	
257	6909.3 · Other OBMP Expenses	2,724	3,258	3,258	3,540	816	30%	*
258	6909.6 · OBMP Expenses - Miscellaneous	5,000	-	-	-	(5,000)	-100%	
259	OBMP - Miscellaneous Expenses	9,224	3,258	3,258	3,540	(5,684)	-62%	
260	Optimum Basin Mgmt Program	1,066,497	728,388	914,260	1,437,940	371,443	35%	
261	***7104 Groundwater Level Monitoring***					-		
262	7104.1 · PE 1 Monitoring - WM Staff	171,515	112,844	156,728	275,490	103,975	61%	
263	7104.3 · Grdwtr Level-Engineering	253,745	167,424	224,346	254,627	882	0%	
264	7104.4 · Grdwtr Level-WM Staff-Services	500	-	-	500	-	0%	
265	7104.6 · Grdwtr Level-Supplies	2,250	2,010	4,985	2,250	-	0%	
266	7104.7 · Grdwtr Level-WM Staff-Cap Equip	9,000	-	5,214	9,000	-	0%	
267	7104.8 · Grdwtr Level-Contracted Serv	10,000	-	-	26,174	16,174	162%	
268	7104.9 · Grdwtr Level-Capital Equip	9,915	-	22,999	17,000	7,085	71%	
269	Groundwater Level Monitoring	456,925	282,278	414,271	585,050	128,125	28%	
270	***7200 OBMP Pgm Element 2 - Comp Recharge***					-		
271	7201 · PE2 Comp Recharge - WM Staff	57,925	32,147	44,648	71,750	13,825	24%	
272	7202 · Comp Recharge-Engineering - Other	29,084	6,092	10,575	23,496	(5,588)	-19%	
273	7202.2 · Engineering Svc	83,188	36,314	50,986	75,944	(7,244)	-9%	
274	7204 · Comp Recharge-Supplies	2,000	-	-	2,000	-	0%	
275	7205 · Comp Recharge-Other Expense	13,492	12,941	17,255	13,500	8	0%	
276	7206 · Comp Recharge-O&M	1,194,756	1,047,811	1,397,082	1,587,607	392,851	33%	
277	7208 · SB88 Specs to Ensure Compliance	-	-	-	-	-	0%	
278	7210 · OBMP - 2023 RMPU	34,328	37,768	71,541	-	(34,328)	-100%	

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	Schedule A Proposed Annual Budget - Detail	A FY 2023/24 Approved Budget	YTD Actual	B FY 2023/24 Projected Ending	C FY 2024/25 Proposed Budget	D = C-A Budget Variance ($)	E = D/A Budget Variance (%)
279	7220 · Model Mtgs/Tech Review-50% IEUA	-	-	111	-	-	0%
280	OBMP Pgm Element 2 - Comp Recharge	1,414,773	1,173,073	1,592,197	1,774,300	359,527	25%
281	***7300 OBMP Pgm Element 3 & 5 - Water Supply Plan-Desalter***					-	
282	7301 · PE3&5 Water Supply - WM Staff	4,791	-	-	9,510	4,719	98%
283	7301.1 · PE5 Regional Prgm - WM Staff	2,633	-	-	9,510	6,877	261%
284	7302 · PBHSP Monitoring Prog-Eng. Serv	48,121	36,063	59,235	73,305	25,184	52%
285	7303 · PE3&5-Engineering	15,632	635	846	16,180	548	4%
286	7305 · PE3&5-Supplies	7,000	-	-	7,000	-	0%
287	7306 · PE3&5-Outside Professionals	6,500	1,280	1,280	6,500	-	0%
288	OBMP Pgm Element 3 & 5 - Water Supply Plan	84,677	37,978	61,361	122,010	37,333	44%
289	***7400 OBMP Pgm Element 4 - Mgmt Zone Strategies***					-	
290	7401 · PE 4 MZ1 Mgmt Plan - WM Staff	13,055	802	1,114	14,040	985	8%
291	7402 · PE4-Engineering	197,335	150,439	200,585	281,239	83,904	43%
292	7402.10 · PE4 - Northwest MZ1 Area Proj.	121,703	85,080	113,441	16,656	(105,047)	-86%
293	7403 · PE4-Contract Svcs-InSar	90,000	21,365	28,487	39,600	(50,400)	-56%
294	7404 · PE4-Supplies	2,208	305	407	2,210	2	0%
295	7405 · PE4-Other Expense	2,500	-	-	2,500	-	0%
296	7406 · PE4 - Outside Professionals	76,552	15,126	45,919	38,600	(37,952)	-50%
297	7408 · PE4 - Network Equipment	9,081	5,171	6,894	17,553	8,472	93%
298	OBMP Pgm Element 4 - Mgmt Zone Strategies	512,434	278,288	396,846	412,400	(100,034)	-20%
299	***7500 OBMP Pgm Element 6 & 7 - Coop Efforts/Salt Mgmt***					-	
300	7501 · PE6 Coop. Prgms - WM Staff - Other	8,027	4,450	6,181	9,510	1,483	18%
301	7501.1 · PE7 Salt Mgmt. Plan - WM Staff	6,582	1,114	1,547	9,510	2,928	44%
302	7502 · PE6&7-Engineering	329,663	229,985	289,282	398,309	68,646	21%
303	7505 · PE6&7-Lab Services	47,470	31,066	41,422	61,242	13,772	29%
304	7508 · HC Mitigation Plan-50% IEUA	-	7,990	10,654	-	-	0%
305	7510 · PE6&7-IEUA Salinity Mgmt. Plan	14,879	16,073	21,430	-	(14,879)	-100%
306	7511 · PE6&7-SAWBMPTask Force	24,610	9,667	25,299	27,067	2,457	10%
307	7517 · Surface Water-Chino Creek-IEUA	69,821	31,510	42,014	33,574	(36,247)	-52%
308	7520 · Prep Water Quality Mgmt Plan	157,692	76,394	101,859	130,164	(27,528)	-17%
309	7525 · PE6&7 - Computer Services	2,880	1,695	2,260	-	(2,880)	-100%
310	7528 · PE6&7 - Meter Repair & Maint	4,400	4,808	6,411	-	(4,400)	-100%
311	7535 · PE6&7 - Supplies & Services	7,900	-	-	-	(7,900)	-100%
312	OBMP Pgm Element 6 & 7 - Coop Efforts/Salt Mgmt	673,924	414,753	548,359	669,380	(4,544)	-1%
313	***7600 OBMP Pgm Element 8 & 9 Storage Mgmt/Conj Use***						
314	7601 · PE8&9 Storage Mgmt. - WM Staff	11,217	3,342	4,641	22,520	11,303	101%
315	7604 · PE8&9-Supplies	350	-	-	350	-	0%
316	7610 · PE8&9-Support 2020 Mgmt. Plan	26,648	13,687	18,250	32,584	5,936	22%
317	7614 · PE8&9-Develop S&R Master Plan	543,747	492,354	656,471	768,963	225,216	41%
318	7615 · PE8&9-Develop 2025 Storage Plan	-	-	-	42,632	42,632	
319	7620 · Extreme Future Plan Scenarios	51,130	9,510	12,679	-	(51,130)	-100%
320	OBMP Pgm Element 8 & 9 Storage Mgmt/Conj Use	633,092	518,892	692,042	867,050	233,958	37%
321	***7690 Recharge Improvement Debt & Projects***					-	
322	7690.1 · Recharge Improvement Debt Pymts	746,765	583,281	746,765	772,770	26,005	3%
323	7690.24 · Jurupa Basin Ramp	102,000	-	-	-	(102,000)	-100%
324	Recharge Improvement Debt & Projects	848,765	583,281	746,765	772,770	(75,995)	-9%
325	***9501 Allocated Administration Expenses - OBMP***					-	
326	9501 · Admin Exp. Allocated-OBMP	222,160	104,334	147,219	232,750	10,590	5%
327	Allocated Administration Expenses - OBMP	222,160	104,334	147,219	232,750	10,590	5%
328	***9502 Allocated Administration Expenses - PE 1-9***					-	
329	9502 · Admin Exp. Allocated-PE 1-9	218,669	104,969	143,936	308,080	89,411	41%
330	Allocated Administration Expenses - PE 1-9	218,669	104,969	143,936	308,080	89,411	41%
331	**Total OBMP Program Elements 1-9**	**6,131,916**	**4,226,234**	**5,657,256**	**7,181,730**	**1,049,814**	**17%**
332	**Total Expenses**	**9,813,827**	**7,639,787**	**9,996,758**	**10,503,350**	**689,523**	**7%**
333	**Net Income/(Loss)**	**-**	**2,977,946**	**647,419**	**-**		

**Accounts impacted by inflation*

CHINO BASIN WATERMASTER
CARRYOVER BUDGET
FISCAL YEAR 2024-2025

ATTACHMENT 2

	Schedule D Carryover Budget	A FY 2023/24 Approved Budget	B FY 23 Carryover	C = A+B FY 2023/24 Approved Budget w/Carryover	YTD Actual 3/31/24	D FY 2023/24 Projected Ending	E = D-C ($) Over/(Under) Budget	F = D/C % of Budget	FY 2024/25 Project/ Program Expected Carryover
1	**Revenue**								
2	**Administration Revenue**								
3	***4000 Mutual Agency Revenue***								
4	4040 · Cooperative Agreement	186,412	-	186,412	186,412	186,412	0	100%	
5	Local Agency Subsidies	186,412	-	186,412	186,412	186,412	0	100%	
6	***4110 Appropriative Pool Assessments***								
7	4111 · Gross Administration	2,803,245	-	2,803,245	2,831,145	2,831,145	27,901	101%	
8	4111.2 · OBMP - Adm Assessment	3,654,835	-	3,654,835	3,678,686	3,678,686	23,851	101%	
9	4111.3 · App Pool - Special Assessments	-	-	-	285,000	285,000	285,000	N/A	
10	4112 · Agric. Pool Transfer	685,532	-	685,532	724,055	724,055	38,523	106%	
11	4113 · OBMP - Ag Pool Water Reall	893,788	-	893,788	940,831	940,831	47,043	105%	
12	4114 · Ag Pool Admin & Legal Services	-	-	-	361,000	361,000	361,000	N/A	
13	4115 · Recharge Improvement Payment	102,000	-	102,000	102,000	102,000	-	100%	
14	4116 · Recharge Debt Payment	746,765	-	746,765	746,765	746,765	0	100%	
15	Admin Assessments-Appropriative Pool	8,886,164	-	8,886,164	9,669,482	9,669,482	783,318	109%	
16	***4120 Non-Agricultural Pool Assessments***								
17	4123 · Non-Agricultural Pool	186,107	-	186,107	126,955	126,955	(59,152)	68%	
18	4123.3 · Non-Ag Pool-Special Assessment	-	-	-	31,000	31,000	31,000	N/A	
19	4124 · OBMP Adm Assessment	242,644	-	242,644	164,960	164,960	(77,684)	68%	
20	Admin Assessments-Non-Ag Pool	428,750	-	428,750	322,914	322,914	(105,836)	75%	
21	**Total Administration Revenue**	**9,501,327**	**-**	**9,501,327**	**10,178,809**	**10,178,809**	**677,482**	**107%**	
22	**Other Revenue**								
23	***4225 · Interest Income***								
24	4225 · Interest Income	-	-	-	349,026	465,368	465,368	N/A	
25	***4730 Prorated Interest Income***								
26	4731 · Interest - Agri. Pool	12,500	-	12,500	42,488	-	(12,500)	0%	
27	4732 · Interest - Approp. Pool	295,000	-	295,000	11,920	-	(295,000)	0%	
28	4733 · Interest - Non-Ag Pool	5,000	-	5,000	2,057	-	(5,000)	0%	
29	4738 · Interest - Replenishment	-	-	-	33,433	-	-	N/A	
30	Interest Income	312,500	-	312,500	438,924	465,368	152,868	149%	
31	Miscellaneous Income	-	-	-		-	-	N/A	
32	**Total Other Revenue**	**312,500**	**-**	**312,500**	**438,924**	**465,368**	**152,868**	**149%**	
33	**Total Revenue**	**9,813,827**	**-**	**9,813,827**	**10,617,733**	**10,644,177**	**830,350**	**108%**	
34	**Expenses**								
35	**Judgment Administration Expense**								
36	***5900 Judgment Administration Costs***								
37	5901.1 · Admin-Doc. Review-WM Staff	82,794	-	82,794	26,429	36,707	(46,087)	44%	
38	5901.3 · Admin-Field Work-WM Staff	7,760	-	7,760	2,314	3,214	(4,546)	41%	
39	5901.5 · Admin-General-WM Staff	60,129	-	60,129	50,594	70,269	10,140	117%	
40	5901.7 · Admin-Meeting-WM Staff	2,633	-	2,633	9,718	13,497	10,864	513%	
41	5901.8 · Admin-Meeting - West Yost	45,097	-	45,097	-	-	(45,097)	0%	
42	5901.9 · Admin-Reporting-WM Staff	31,033	-	31,033	1,324	1,839	(29,194)	6%	
43	5906.1 · Admin-Watermaster Model Update	7,028	34,207	41,235	-	-	(41,235)	0%	
44	5906.71 · Admin-Data Req-CBWM Staff	126,204	-	126,204	43,971	61,070	(65,134)	48%	
45	5906.72 · Admin-Data Req-Non CBWM Staff	42,832	-	42,832	6,276	8,716	(34,116)	20%	
46	5910 · Court Coordination/Attend-WM	19,098	-	19,098	8,774	12,186	(6,912)	64%	
47	5911 · Exhibit G-WM Staff	2,370	-	2,370	1,592	2,211	(159)	93%	
48	5921 · Production Monitoring-WM Staff	11,322	-	11,322	2,892	4,016	(7,306)	35%	
49	5925 · Ag Prod & Estimation-West Yost	34,376	-	34,376	22,928	31,844	(2,532)	93%	
50	5931 · Recharge Applications-WM Staff	4,634	-	4,634	-	-	(4,634)	0%	
51	5935 · Admin-Mat'l Phy Inj Requests	36,072	-	36,072	3,131	4,348	(31,724)	12%	
52	5941 · Reporting-WM Staff	1,316	-	1,316	530	737	(579)	56%	
53	5945 · WM Annual Report Prep-West Yost	15,416	-	15,416	11,671	16,210	794	105%	
54	5951 · Rules & Regs-WM Staff	12,726	-	12,726	-	-	(12,726)	0%	
55	5961 · Safe Yield-WM Staff	26,330	-	26,330	1,049	1,457	(24,873)	6%	
56	5965 · Support Data Collect-West Yost	36,336	-	36,336	5,496	7,633	(28,703)	21%	
57	5971 · Storage Agreements-WM Staff	4,739	-	4,739	2,081	2,891	(1,848)	61%	
58	5981 · Water Acct/Database-WM Staff	109,793	-	109,793	86,300	119,861	10,068	109%	
59	5991 · Water Transactions-WM Staff	8,688	-	8,688	3,550	4,931	(3,757)	57%	
60	Judgment Administration Costs	728,726	34,207	762,933	290,618	403,636	(359,297)	53%	
61	***6010 Administration Salary Costs***								
62	6010.01 · Payroll Severance	-	-	-	447,861	447,861	447,861	N/A	
63	6011.11 · WM Staff - Overtime	15,000	-	15,000	8,805	13,883	(1,117)	93%	
64	6011.12 · WM Staff - Doubletime	-	-	-	67	67	67	N/A	
65	6011.2 WM Staff - Admin. Paid Leave	-	-	-	-	-	-	N/A	

CHINO BASIN WATERMASTER
CARRYOVER BUDGET
FISCAL YEAR 2024-2025

		A	B	C = A+B		D	E = D-C	F = D/C	
	Schedule D Carryover Budget	**FY 2023/24 Approved Budget**	**FY 23 Carryover**	**FY 2023/24 Approved Budget w/Carryover**	**YTD Actual 3/31/24**	**FY 2023/24 Projected Ending**	**($) Over/(Under) Budget**	**% of Budget**	**FY 2024/25 Project/ Program Expected Carryover**
66	6011.4 · 457(f) NQDC Plan	55,467	-	55,467	18,494	18,494	(36,973)	33%	
67	6011.10 · Accounting-WM Staff	367,685	-	367,685	154,277	214,273	(153,412)	58%	
68	6011.15 · Building Admin-WM Staff	18,359	-	18,359	3,900	5,416	(12,943)	30%	
69	6011.20 · Conference/Seminar-WM Staff	57,083	-	57,083	23,071	32,043	(25,040)	56%	
70	6011.25 · Document Review-WM Staff	6,846	-	6,846	659	916	(5,930)	13%	
71	6011.50 · General-WM Staff	569,850	-	569,850	340,557	472,995	(96,855)	83%	
72	6011.55 · Flex Monday-WM Staff	-	-	-	32,100	44,583	44,583	N/A	
73	6011.60 · HR-WM Staff	43,489	-	43,489	70,035	97,271	53,782	224%	
74	6011.70 · IT-WM Staff	53,975	-	53,975	36,597	50,829	(3,146)	94%	
75	6011.80 · Meeting-WM Staff	90,440	-	90,440	33,352	46,322	(44,118)	51%	
76	6011.90 · Team Building-WM Staff	41,304	-	41,304	7,612	10,572	(30,732)	26%	
77	6011.95 · Training-Give/Receive-WM Staff	34,312	-	34,312	20,437	28,385	(5,927)	83%	
78	6012 · Payroll Services	4,800	-	4,800	5,175	6,175	1,375	129%	
79	6013 · Human Resources Services	30,000	-	30,000	32,157	38,607	8,607	129%	
80	6015.5 · Retention Bonus Payment - GM	-	-	-	60,000	60,000	60,000	N/A	
81	6016 · New Employee Search Costs	1,000	-	1,000	2,730	2,961	1,961	296%	
82	6017 · Temporary Services	24,000	-	24,000	28,757	49,613	25,613	207%	
83	6018 Fringe Benefits	1,009,270	-	1,009,270	712,824	997,226	(12,044)	99%	
84	60199 · Payroll Burden Allocated	(1,009,270)	-	(1,009,270)	(552,038)	(766,720)	242,550	76%	
85	Administration Salary Costs	1,413,610	-	1,413,610	1,487,911	1,872,453	458,843	132%	
86	***6020 Office Building Expense***								
87	6021 · Office Lease	166,438	-	166,438	108,953	144,134	(22,304)	87%	
88	6022 · Telephone	16,296	-	16,296	9,559	13,015	(3,281)	80%	
89	6023 · Office Utilities	-	-	-	13,539	23,354	23,354	N/A	
90	6024 · Building Repair & Maintenance	23,276	-	23,276	26,512	31,532	8,256	135%	
91	6025 Building Interior Renovations	-	-	-	-	-	-	N/A	
92	6027 · Other Building Expense	2,500	-	2,500	-	-	(2,500)	0%	
93	Office Building Expense	208,510	-	208,510	158,564	212,035	3,525	102%	
94	***6030 Office Supplies & Equip.***								
95	6031.1 · Copy Paper	1,500	-	1,500	320	674	(826)	45%	
96	6031.7 · General Office Supplies	21,000	-	21,000	16,919	22,369	1,369	107%	
97	6036 · Minor Office Furniture	2,500	-	2,500	3,652	3,652	1,152	146%	
98	6038 · Other Office Equipment	-	10,038	10,038	7,551	10,068	30	100%	✓
99	6039.1 · Banking Service Charges	14,400	-	14,400	7,725	11,265	(3,135)	78%	
100	6141 · Meeting Expenses - Other	-	-	-	-	571	571	N/A	
101	6141.1 · Meeting Supplies	450	-	450	-	-	(450)	0%	
102	6141.2 · Committee Meetings	600	-	600	-	-	(600)	0%	
103	6141.3 · Admin Meetings	5,800	-	5,800	6,204	6,861	1,061	118%	
104	6147 · Other Admin Expenses	700	-	700	538	605	(95)	86%	
105	Office Supplies & Equip.	46,950	10,038	56,988	42,909	56,066	(922)	98%	
106	***6040 Postage & Printing Costs***								
107	6042 · Postage - General	-	-	-	1,620	2,120	2,120	N/A	
108	6043 · Copy Machine Lease	4,000	-	4,000	-	-	(4,000)	0%	
109	6043.1 · Ricoh Lease Fee	18,136	-	18,136	12,976	17,174	(962)	95%	
110	6043.2 · Ricoh Usage & Maintenance Fee	1,600	-	1,600	1,309	1,399	(201)	87%	
111	6043.3 · Ricoh Property Tax Fees	450	-	450	255	255	(195)	57%	
112	6044 · Postage Meter Lease	1,820	-	1,820	2,419	2,873	1,053	158%	
113	6045 · Printing	3,000	-	3,000	2,236	2,236	(764)	75%	
114	6046 · Legal Publications/Services	4,800	-	4,800	895	895	(3,905)	19%	
115	Postage and Printing Costs	33,806	-	33,806	21,709	26,953	(6,853)	80%	
116	***6050 Information Services***								
117	6052.2 · Database Services	51,000	-	51,000	34,000	45,333	(5,667)	89%	
118	6052.4 · IT Managed Services	66,106	-	66,106	41,642	55,522	(10,584)	84%	
119	6052.5 · IT Data Backup/Storage	21,720	-	21,720	16,192	21,589	(131)	99%	
120	6052.6 · IT Services/Projects	1,920	-	1,920	5,000	6,667	4,747	347%	
121	6053 · Internet Expense	13,272	-	13,272	8,847	11,797	(1,475)	89%	
122	6054 · Computer Software	20,000	-	20,000	5,042	6,723	(13,277)	34%	
123	6055 · Computer Hardware	20,000	-	20,000	5,610	7,480	(12,520)	37%	
124	6056 · Website Services	4,800	-	4,800	-	-	(4,800)	0%	
125	6057 · Computer Maintenance	1,000	-	1,000	-	-	(1,000)	0%	
126	Information Services	199,818	-	199,818	116,333	155,111	(44,707)	78%	
127	***6060 WM Special Contract Services***								
128	6061.1 · Accounting Services Consultant	-	-	-	91,604	100,745	100,745	N/A	
129	6061.2 · HRIS System	-	-	-	2,037	2,885	2,885	N/A	
130	6061.3 · Rauch	24,000	-	24,000	19,548	19,548	(4,453)	81%	
131	6061.5 · Court Filing Services	7,200	-	7,200	2,281	2,961	(4,239)	41%	

CHINO BASIN WATERMASTER
CARRYOVER BUDGET
FISCAL YEAR 2024-2025

	Schedule D Carryover Budget	A FY 2023/24 Approved Budget	B FY 23 Carryover	C = A+B FY 2023/24 Approved Budget w/Carryover	YTD Actual 3/31/24	D FY 2023/24 Projected Ending	E = D-C ($) Over/(Under) Budget	F = D/C % of Budget	FY 2024/25 Project/ Program Expected Carryover
132	6062 · Audit Services - Other	16,750	-	16,750	16,009	16,009	(741)	96%	
133	6062.5 · Audit Support Services	4,250	-	4,250	1,350	1,350	(2,900)	32%	
134	6068 · Hearing Officer	8,000	-	8,000	-	-	(8,000)	0%	
135	WM Special Contract Services	60,200	-	60,200	132,828	143,497	83,297	238%	
136	***6070 Watermaster Legal Services***								
137	6071 · BHFS Legal - Court Coordination	171,260	-	171,260	278,904	360,101	188,841	210%	
138	6072 · BHFS Legal - Rules & Regs	92,900	-	92,900	-	-	(92,900)	0%	
139	6073 · BHFS Legal - Personnel Matters	10,820	-	10,820	285,176	353,122	342,302	3264%	
140	6074 · BHFS Legal - Interagency Issues	43,704	-	43,704	-	-	(43,704)	0%	
141	6077 · BHFS Legal - Party Status Maint	13,730	-	13,730	1,205	11,655	(2,075)	85%	
142	6078 · BHFS Legal - Miscellaneous - Other	233,550	-	233,550	149,698	200,830	(32,720)	86%	
143	6078.25 · Ely 3 Basin Investigation	-	-	-	2,394	6,864	6,864	N/A	
144	Watermaster Legal Services	565,964	-	565,964	717,378	932,572	366,608	165%	
145	***6080 Insurance Expense***								
146	6085 · Business Insurance Package	50,212	-	50,212	46,256	46,718	(3,493)	93%	
147	6086 · Position Bond Insurance	256	-	256	-	-	(256)	0%	
148	Insurance Expense	50,468	-	50,468	46,256	46,718	(3,749)	93%	
149	***6110 Dues and Subscriptions***								
150	6111 · Membership Dues	39,127	-	39,127	34,394	34,579	(4,548)	88%	
151	6112 · Subscriptions/Publications	900	-	900	3,014	3,066	2,166	341%	
152	Dues and Subscriptions	40,027	-	40,027	37,408	37,645	(2,382)	94%	
153	***6150 Field Supplies & Equipment***								
154	6151 · Small Tools & Equipment	450	-	450	-	-	(450)	0%	
155	6152 · Safety Shoes	800	-	800	-	345	(455)	43%	
156	6154 · Uniforms	1,950	-	1,950	1,331	1,907	(43)	98%	
157	Field Supplies & Equipment	3,200	-	3,200	1,331	2,252	(948)	70%	
158	***6170 Travel & Transportation***								
159	6171.1 · Vehicle Allowance	8,400	-	8,400	6,634	8,134	(266)	97%	
160	6171.2 · Watermaster Mgmt Staff	14,400	-	14,400	4,500	7,500	(6,900)	52%	
161	6172 · Rental Vehicle	-	-	-	916	916	916	N/A	
162	6173 · Airfare/Mileage	1,450	-	1,450	1,779	2,443	993	168%	
163	6174 · Public Transportation	120	-	120	-	-	(120)	0%	
164	6175 · Vehicle Fuel	2,700	-	2,700	2,489	3,302	602	122%	
165	6177 · Vehicle Repairs & Maintenance	2,500	-	2,500	1,906	1,906	(594)	76%	
166	6179 -New Vehicle	-	-	-	-	-	-	N/A	
166	Travel and Transportation	29,570	-	29,570	18,224	24,201	(5,369)	82%	
168	***6190 Conferences & Seminars***								
169	6191 · Conferences - General	8,500	-	8,500	6,623	10,583	2,083	125%	
170	6192 · Seminars - General	14,450	-	14,450	309	309	(14,141)	2%	
171	6193 · Employee Training	20,250	-	20,250	29,154	31,989	11,739	158%	
172	6193.2 · Conference - Registration Fee	7,200	-	7,200	3,193	3,762	(3,438)	52%	
173	Conferences and Seminars	50,400	-	50,400	39,280	46,643	(3,757)	93%	
174	***6200 Advisory Committee Expenses***								
175	6201 · WM Staff Salaries	55,149	-	55,149	21,895	30,410	(24,739)	55%	
176	6206 · West Yost-Eng. Serv.-Advisory	23,466	-	23,466	5,686	7,581	(15,885)	32%	
177	6212 · Meeting Expense	500	-	500	-	-	(500)	0%	
178	6275 · BHFS Legal - Advisory Committee	26,708	-	26,708	3,821	5,095	(21,613)	19%	
179	Advisory Committee Expenses	105,823	-	105,823	31,402	43,086	(62,737)	41%	
180	***6300 Watermaster Board Expenses***								
181	6301 · WM Staff Salaries	61,818	-	61,818	69,765	96,896	35,078	157%	
182	6306 · West Yost-Eng. Services-Board	23,466	-	23,466	20,699	33,939	10,473	145%	
183	6311 · Board Member Compensation	35,000	-	35,000	32,875	41,500	6,500	119%	
184	6312 · Meeting Expenses	8,650	-	8,650	4,095	7,871	(779)	91%	
185	6313 · Board Member Expenses	300	-	300	-	-	(300)	0%	
186	6375 · BHFS Legal - Board Meeting	85,272	-	85,272	58,184	74,777	(10,495)	88%	
187	6375.1 · BHFS Legal - Board Workshop(s)	28,095	-	28,095	-	-	(28,095)	0%	
188	6375.2 · Board Workshop Expenses-Misc.	14,000	4,499	18,499	-	-	(18,499)	0%	✓
189	Watermaster Board Expenses	256,601	4,499	261,100	185,618	254,983	(6,117)	98%	
190	***8300 Appropriative Pool Administration***								
191	8301 · WM Staff Salaries	53,761	-	53,761	31,620	43,917	(9,844)	82%	
192	8306 · West Yost-Eng. Services-AP	23,467	-	23,467	16,549	22,376	(1,091)	95%	
193	8312 · Meeting Expenses	1,560	-	1,560	177	228	(1,332)	15%	
194	8375 · BHFS Legal - Appropriative Pool	33,385	-	33,385	7,733	10,926	(22,459)	33%	
195	Appropriative Pool Administration	112,173	-	112,173	56,079	77,447	(34,726)	69%	

CHINO BASIN WATERMASTER
CARRYOVER BUDGET
FISCAL YEAR 2024-2025

	A	B	C = A+B		D	E = D-C	F = D/C	
Schedule D Carryover Budget	**FY 2023/24 Approved Budget**	**FY 23 Carryover**	**FY 2023/24 Approved Budget w/Carryover**	**YTD Actual 3/31/24**	**FY 2023/24 Projected Ending**	**($) Over/(Under) Budget**	**% of Budget**	**FY 2024/25 Project/ Program Expected Carryover**
8400 Agricultural Pool Administration								
8401 · WM Staff	51,549	-	51,549	10,403	14,448	(37,101)	28%	
8406 · West Yost-Eng. Services-OAP	23,466	-	23,466	14,187	18,916	(4,550)	81%	
8412 · Meeting Expenses	300	-	300	-	-	(300)	0%	
8467 · Ag Legal & Technical Services	-	41,676	41,676	105,911	141,214	99,538	339%	
8470 · Ag Meeting Attend -Special	-	951	951	35,500	47,333	46,382	4977%	
8471 · Ag Pool Expense	-	10,994	10,994	9,357	12,476	1,482	113%	
8475 · BHFS Legal - Agricultural Pool	33,385	-	33,385	7,733	10,310	(23,075)	31%	
Agricultural Pool Administration	108,700	53,620	162,320	183,090	244,697	82,377	151%	
8500 Non-Agricultural Pool Administration								
8501 · WM Staff	50,443	-	50,443	6,888	9,567	(40,876)	19%	
8506 · West Yost-Eng. Services-ONAP	23,466	-	23,466	9,852	13,599	(9,867)	58%	
8511 · Non-Ag Pool Member Compensation	-	875	875	5,000	6,750	5,875	771%	
8512 · Meeting Expense	900	-	900	-	-	(900)	0%	
8567 · Non-Ag Legal Service	-	56,966	56,966	17,448	23,367	(33,599)	41%	✓
8575 · BHFS Legal - Non-Ag Pool	33,385	-	33,385	7,733	10,926	(22,459)	33%	
Non-Agricultural Pool Administration	108,194	57,841	166,035	46,920	64,208	(101,827)	39%	
9500 Allocated Administration Expenses								
9500 · Allocated Admin Expenditures	(440,829)	-	(440,829)	(200,303)	(304,700)	136,128	69%	
Allocated Administration Expenses	(440,829)	-	(440,829)	(200,303)	(304,700)	136,128	69%	
Total Judgment Administration Expenses	**3,681,911**	**160,205**	**3,842,115**	**3,413,553**	**4,339,503**	**497,387**	**113%**	
OBMP Expenses & Program Elements 1-9								
6900 Optimum Basin Mgmt Program								
6901.1 · OBMP - Doc. Review - WM Staff	89,136	-	89,136	25,652	35,627	(53,509)	40%	
6901.3 · OBMP - Field Work - WM Staff	7,003	-	7,003	1,858	2,580	(4,423)	37%	
6901.5 · OBMP - General - WM Staff	124,049	-	124,049	82,618	114,748	(9,301)	93%	
6901.7 · OBMP - Meeting - WM Staff	57,589	-	57,589	24,777	34,413	(23,176)	60%	
6901.8 · OBMP - Meeting - West Yost	45,096	-	45,096	37,692	83,945	38,849	186%	
6901.9 · OBMP - Reporting - WM Staff	2,370	-	2,370	5,443	7,560	5,190	319%	
6901.95 · OBMP - Reporting - West Yost	57,316	-	57,316	53,194	53,194	(4,123)	93%	
OBMP - WM Staff Salaries	382,559	-	382,559	231,233	332,066	(50,493)	87%	
6903 OBMP - SAWPA Group								
6903 · OBMP SAWPA Group	24,071	-	24,071	24,071	24,071	0	100%	
OBMP - SAWPA Group	24,071	-	24,071	24,071	24,071	0	100%	
6906 OBMP - Engineering Services								
6906 · OBMP Engineering Services - Other	46,992	-	46,992	27,295	39,306	(7,686)	84%	
6906.1 · OBMP-Watermaster Model Update	-	-	-	18,889	18,889	18,889	N/A	
6906.26 · 2020 OBMP Update	24,016	-	24,016	4,508	4,508	(19,508)	19%	
OBMP - Enginnering Services	71,008	-	71,008	50,692	62,703	(8,305)	88%	
6907 OBMP - Legal								
6907.31 · Archibald South Plume	12,085	-	12,085	-	-	(12,085)	0%	
6907.32 · Chino Airport Plume	12,085	-	12,085	720	720	(11,365)	6%	
6907.33 · Desalter/Hydraulic Control	37,200	-	37,200	1,358	1,358	(35,842)	4%	
6907.34 · Santa Ana River Water Rights	20,595	-	20,595	3,037	3,037	(17,558)	15%	
6907.36 · Santa Ana River Habitat	30,090	-	30,090	-	-	(30,090)	0%	
6907.38 · Reg. Water Quality Cntrl Board	30,090	-	30,090	2,484	2,588	(27,503)	9%	
6907.39 · Recharge Master Plan	30,495	-	30,495	38,876	54,532	24,037	179%	
6907.40 · Storage Agreements	16,960	-	16,960	-	-	(16,960)	0%	
6907.41 · Prado Basin Habitat Sustain	9,900	-	9,900	-	880	(9,020)	9%	
6907.44 · SGMA Compliance	9,900	-	9,900	-	-	(9,900)	0%	
6907.45 · OBMP Update	172,880	-	172,880	195,930	218,841	45,961	127%	
6907.47 · 2020 Safe Yield Reset	33,920	-	33,920	15,625	16,443	(17,477)	48%	
6907.48 · Ely Basin Investigation	126,040	-	126,040	84,476	84,476	(41,565)	67%	
6907.49 · San Sevaine Basin Discharge	-	-	-	-	-	-	N/A	
6907.9 · WM Legal Counsel-Unanticipated	37,395	-	37,395	-	-	(37,395)	0%	
OBMP - Legal Services	579,635	-	579,635	342,505	382,873	(196,762)	66%	
6908.1 OBMP Update - Dodson & Associates								
6908.1 · 2022 OBMP Update-Dodson & Assoc	-	107,578	107,578	76,629	109,288	1,711	102%	
OBMP Update - Dodson & Associates	-	107,578	107,578	76,629	109,288	1,711	102%	
6909 OBMP - Miscellaneous Expenses								
6909.1 · OBMP Meetings	1,500	-	1,500	-	-	(1,500)	0%	
6909.3 · Other OBMP Expenses	2,724	-	2,724	3,258	3,258	534	120%	
6909.6 · OBMP Expenses - Miscellaneous	5,000	-	5,000	-	-	(5,000)	0%	
OBMP - Miscellaneous Expenses	9,224	-	9,224	3,258	3,258	(5,966)	35%	
Optimum Basin Mgmt Program	1,066,497	107,578	1,174,075	728,388	914,260	(259,815)	78%	

CHINO BASIN WATERMASTER
CARRYOVER BUDGET
FISCAL YEAR 2024-2025

	Schedule D Carryover Budget	A FY 2023/24 Approved Budget	B FY 23 Carryover	C = A+B FY 2023/24 Approved Budget w/Carryover	YTD Actual 3/31/24	D FY 2023/24 Projected Ending	E = D-C ($) Over/(Under) Budget	F = D/C % of Budget	FY 2024/25 Project/ Program Expected Carryover
261	***7104 Groundwater Level Monitoring***						-		
262	7104.1 · PE 1 Monitoring - WM Staff	171,515	-	171,515	112,844	156,728	(14,787)	91%	
263	7104.3 · Grdwtr Level-Engineering	253,745	2,700	256,445	167,424	224,346	(32,099)	87%	
264	7104.4 · Grdwtr Level-WM Staff-Services	500	-	500	-	-	(500)	0%	
265	7104.6 · Grdwtr Level-Supplies	2,250	-	2,250	2,010	4,985	2,735	222%	
266	7104.7 · Grdwtr Level-WM Staff-Cap Equip	9,000	-	9,000	-	5,214	(3,786)	58%	
267	7104.8 · Grdwtr Level-Contracted Serv	10,000	-	10,000	-	-	(10,000)	0%	
268	7104.9 · Grdwtr Level-Capital Equip	9,915	-	9,915	-	22,999	13,084	232%	
269	Groundwater Level Monitoring	456,925	2,700	459,625	282,278	414,271	(45,354)	90%	
270	***7200 OBMP Pgm Element 2 - Comp Recharge***								
271	7201 · PE2 Comp Recharge - WM Staff	57,925	-	57,925	32,147	44,648	(13,277)	77%	
272	7202 · Comp Recharge-Engineering - Other	29,084	-	29,084	6,092	10,575	(18,510)	36%	
273	7202.2 · Engineering Svc	83,188	119,174	202,362	36,314	50,986	(151,376)	25%	✓
274	7204 · Comp Recharge-Supplies	2,000	-	2,000	-	-	(2,000)	0%	
275	7205 · Comp Recharge-Other Expense	13,492	-	13,492	12,941	17,255	3,763	128%	
276	7206 · Comp Recharge-O&M	1,194,756	-	1,194,756	1,047,811	1,397,082	202,326	117%	
277	7208 · SB88 Specs to Ensure Compliance	-	54,012	54,012	-	-	(54,012)	0%	
278	7210 · OBMP - 2023 RMPU	34,328	60,000	94,328	37,768	71,541	(22,787)	76%	
279	7220 · Model Mtgs/Tech Review-50% IEUA	-	24,618	24,618	-	111	(24,507)	0%	
280	OBMP Pgm Element 2 - Comp Recharge	1,414,773	257,804	1,672,577	1,173,073	1,592,197	(80,380)	95%	
281	***7300 OBMP Pgm Element 3 & 5 - Water Supply Plan-Desalter***								
282	7301 · PE3&5 Water Supply - WM Staff	4,791	-	4,791	-	-	(4,791)	0%	
283	7301.1 · PE5 Regional Prgm - WM Staff	2,633	-	2,633	-	-	(2,633)	0%	
284	7302 · PBHSP Monitoring Prog-Eng. Serv	48,121	21,000	69,121	36,063	59,235	(9,886)	86%	
285	7303 · PE3&5-Engineering	15,632	-	15,632	635	846	(14,786)	5%	
286	7305 · PE3&5-Supplies	7,000	-	7,000	-	-	(7,000)	0%	
287	7306 · PE3&5-Outside Professionals	6,500	-	6,500	1,280	1,280	(5,220)	20%	
288	OBMP Pgm Element 3 & 5 - Water Supply Plan	84,677	21,000	105,677	37,978	61,361	(44,316)	58%	
289	***7400 OBMP Pgm Element 4 - Mgmt Zone Strategies***								
290	7401 · PE 4 MZ1 Mgmt Plan - WM Staff	13,055	-	13,055	802	1,114	(11,941)	9%	
291	7402 · PE4-Engineering	197,335	65,209	262,544	150,439	200,585	(61,958)	76%	
292	7402.10 · PE4 - Northwest MZ1 Area Proj.	121,703	150,000	271,703	85,080	113,441	(158,262)	42%	
293	7403 · PE4-Contract Svcs-InSar	90,000	85,000	175,000	21,365	28,487	(146,513)	16%	
294	7404 · PE4-Supplies	2,208	-	2,208	305	407	(1,801)	18%	
295	7405 · PE4-Other Expense	2,500	-	2,500	-	-	(2,500)	0%	
296	7406 · PE4 - Outside Professionals	76,552	-	76,552	15,126	45,919	(30,633)	60%	
297	7408 · PE4 - Network Equipment	9,081	5,000	14,081	5,171	6,894	(7,187)	49%	
298	OBMP Pgm Element 4 - Mgmt Zone Strategies	512,434	305,209	817,643	278,288	396,846	(420,797)	49%	
299	***7500 OBMP Pgm Element 6 & 7 - Coop Efforts/Salt Mgmt***								
300	7501 · PE6 Coop. Prgms - WM Staff - Other	8,027	-	8,027	4,450	6,181	(1,846)	77%	
301	7501.1 · PE7 Salt Mgmt. Plan - WM Staff	6,582	-	6,582	1,114	1,547	(5,035)	24%	
302	7502 · PE6&7-Engineering	329,663	40,000	369,663	229,985	289,282	(80,381)	78%	
303	7505 · PE6&7-Lab Services	47,470	16,194	63,664	31,066	41,422	(22,242)	65%	
304	7508 · HC Mitigation Plan-50% IEUA	-	10,703	10,703	7,990	10,654	(50)	100%	
305	7510 · PE6&7-IEUA Salinity Mgmt. Plan	14,879	19,752	34,631	16,073	21,430	(13,201)	62%	✓
306	7511 · PE6&7-SAWBMPTask Force	24,610	-	24,610	9,667	25,299	689	103%	
307	7517 · Surface Water-Chino Creek-IEUA	69,821	-	69,821	31,510	42,014	(27,807)	60%	
308	7520 · Prep Water Quality Mgmt Plan	157,692	-	157,692	76,394	101,859	(55,833)	65%	
309	7525 · PE6&7 - Computer Services	2,880	-	2,880	1,695	2,260	(620)	78%	
310	7528 · PE6&7 - Meter Repair & Maint	4,400	-	4,400	4,808	6,411	2,011	146%	
311	7535 · PE6&7 - Supplies & Services	7,900	-	7,900	-	-	(7,900)	0%	
312	7540 · Meter Install - New Meter	-	175,400	175,400	-	-	(175,400)	0%	✓
313	7545 · Meter Install - Calibrate/Test	-	181,650	181,650	-	-	(181,650)	0%	✓
314	OBMP Pgm Element 6 & 7 - Coop Efforts/Salt Mgmt	673,924	443,699	1,117,623	414,753	548,359	(569,264)	49%	
315	***7600 OBMP Pgm Element 8 & 9 Storage Mgmt/Conj Use***								
316	7601 · PE8&9 Storage Mgmt. - WM Staff	11,217	-	11,217	3,342	4,641	(6,576)	41%	
317	7604 · PE8&9-Supplies	350	-	350	-	-	(350)	0%	
318	7610 · PE8&9-Support 2020 Mgmt. Plan	26,648	42,658	69,306	13,687	18,250	(51,056)	26%	✓
319	7614 · PE8&9-Develop S&R Master Plan	543,747	120,000	663,747	492,354	656,471	(7,276)	99%	
320	7615 · PE8&9-Develop 2025 Storage Plan	-	-	-	-	-	-	N/A	
321	7620 · Extreme Future Plan Scenarios	51,130	-	51,130	9,510	12,679	(38,451)	25%	
322	OBMP Pgm Element 8 & 9 Storage Mgmt/Conj Use	633,092	162,658	795,750	518,892	692,042	(103,708)	87%	
323	***7690 Recharge Improvement Debt & Projects***								
324	7690.1 · Recharge Improvement Debt Pymts	746,765	-	746,765	583,281	746,765	-	100%	
325	7690.23 · Jurupa Basin Berm & Trash Boom	-	358,000	358,000	-	-	(358,000)	0%	

CHINO BASIN WATERMASTER
CARRYOVER BUDGET
FISCAL YEAR 2024-2025

	Schedule D *Carryover Budget*	A FY 2023/24 Approved Budget	B FY 23 Carryover	C = A+B FY 2023/24 Approved Budget w/Carryover	YTD Actual 3/31/24	D FY 2023/24 Projected Ending	E = D-C ($) Over/(Under) Budget	F = D/C % of Budget	FY 2024/25 Project/ Program Expected Carryover
326	7690.24 · Jurupa Basin Ramp	102,000	-	102,000	-	-	(102,000)	0%	✓
327	7690.7 · Upper SantaAnaRiver HCP (TO #7)	-	20,063	20,063	-	-	(20,063)	0%	
328	7690.8 · Lower Day Basin RMPU (TO #2)	-	238,647	238,647	-	-	(238,647)	0%	
329	7690.9 · Funds on Hold for Projects	-	200,000	200,000	-	-	(200,000)	0%	
330	Recharge Improvement Debt & Projects	848,765	816,710	1,665,475	583,281	746,765	(918,710)	45%	
331	***9501 Allocated Administration Expenses - OBMP***								
332	9501 · Admin Exp. Allocated-OBMP	222,160	-	222,160	104,334	147,219	(74,940)	66%	
333	Allocated Administration Expenses - OBMP	222,160	-	222,160	104,334	147,219	(74,940)	66%	
334	***9502 Allocated Administration Expenses - PE 1-9***								
335	9502 · Admin Exp. Allocated-PE 1-9	218,669	-	218,669	104,969	143,936	(74,733)	66%	
336	Allocated Administration Expenses - PE 1-9	218,669	-	218,669	104,969	143,936	(74,733)	66%	
337	**Total OBMP Program Elements 1-9**	**6,131,916**	**2,117,357**	**8,249,273**	**4,226,234**	**5,657,256**	**(2,592,017)**	**69%**	
338	**Total Expenses**	**9,813,827**	**2,277,562**	**12,091,389**	**7,639,787**	**9,996,758**	**(2,094,631)**	**83%**	
339	**Net Income/(Loss)**	**-**			**2,977,946**	**647,419**			

CHINO BASIN WATERMASTER
PAY SCHEDULE
Revision Date: March 26, 2024

PROPOSED - FY 2024/25
(with 3% CPI - 2024 Q1 actual of 4.8%)

Effective Date: July 1, 2024
Approved by Board:

POSITION	TYPE	HOURLY							MONTHLY						
									LOW			MEDIAN			HIGH
General Manager	1								$22,115.60	$23,221.47	$24,382.80	$25,601.33	$26,882.27	$28,225.60	$29,636.53
~~Chief Financial Officer~~	~~1~~								~~$14,159.60~~	~~$14,866.80~~	~~$15,610.40~~	~~$16,390.40~~	~~$17,210.27~~	~~$18,070.00~~	~~$18,973.07~~
		STEP A	STEP B	STEP C	STEP D	STEP E	STEP F	STEP G	STEP A	STEP B	STEP C	STEP D	STEP E	STEP F	STEP G
Water Resources Management and Planning Director	2	$81.13	$85.19	$89.45	$93.92	$98.62	$103.55	$108.73	$14,062.53	$14,766.27	$15,504.67	$16,279.47	$17,094.13	$17,948.67	$18,846.53
Director of Administration	2	$77.79	$81.68	$85.76	$90.05	$94.55	$99.28	$104.24	$13,483.60	$14,157.87	$14,865.07	$15,608.67	$16,388.67	$17,208.53	$18,068.27
~~Sr. Environmental Engineer~~	~~2~~	~~$61.18~~	~~$64.24~~	~~$67.45~~	~~$70.82~~	~~$74.36~~	~~$78.08~~	~~$81.98~~	~~$10,604.53~~	~~$11,134.93~~	~~$11,691.33~~	~~$12,275.47~~	~~$12,889.07~~	~~$13,533.87~~	~~$14,209.87~~
Water Resources Technical Manager	3	$61.82	$64.91	$68.16	$71.57	$75.15	$78.91	$82.86	$10,715.47	$11,251.07	$11,814.40	$12,405.47	$13,026.00	$13,677.73	$14,362.40
Data Services and Judgment Reporting Manager	3	$61.82	$64.91	$68.16	$71.57	$75.15	$78.91	$82.86	$10,715.47	$11,251.07	$11,814.40	$12,405.47	$13,026.00	$13,677.73	$14,362.40
Water Resources Sr. Associate	3	$47.56	$49.94	$52.44	$55.06	$57.81	$60.70	$63.74	$8,243.73	$8,656.27	$9,089.60	$9,543.73	$10,020.40	$10,521.33	$11,048.27
Water Resources Associate	3	$35.94	$37.74	$39.63	$41.61	$43.69	$45.87	$48.16	$6,229.60	$6,541.60	$6,869.20	$7,212.40	$7,572.93	$7,950.80	$8,347.73
Sr. Field Operations Specialist	3	$33.25	$34.91	$36.66	$38.50	$40.43	$42.45	$44.57	$5,763.33	$6,051.07	$6,354.40	$6,673.33	$7,007.87	$7,358.00	$7,725.47
Field Operations Specialist	3	$28.83	$30.27	$31.78	$33.37	$35.04	$36.79	$38.63	$4,997.20	$5,246.80	$5,508.53	$5,784.13	$6,073.60	$6,376.93	$6,695.87
~~Executive Services Director~~	~~3~~	~~$60.11~~	~~$63.12~~	~~$66.28~~	~~$69.59~~	~~$73.07~~	~~$76.72~~	~~$80.56~~	~~$10,419.07~~	~~$10,940.80~~	~~$11,488.53~~	~~$12,062.27~~	~~$12,665.47~~	~~$13,298.13~~	~~$13,963.73~~
Sr. Accountant	3	$47.56	$49.94	$52.44	$55.06	$57.81	$60.70	$63.74	$8,243.73	$8,656.27	$9,089.60	$9,543.73	$10,020.40	$10,521.33	$11,048.27
Executive Assistant II - Board Clerk	3	$42.10	$44.21	$46.42	$48.74	$51.18	$53.74	$56.43	$7,297.33	$7,663.07	$8,046.13	$8,448.27	$8,871.20	$9,314.93	$9,781.20
Executive Assistant I - Board Clerk	3	$32.98	$34.63	$36.36	$38.18	$40.09	$42.09	$44.19	$5,716.53	$6,002.53	$6,302.40	$6,617.87	$6,948.93	$7,295.60	$7,659.60
Sr. Administrative Analyst	3	$38.48	$40.40	$42.42	$44.54	$46.77	$49.11	$51.57	$6,669.87	$7,002.67	$7,352.80	$7,720.27	$8,106.80	$8,512.40	$8,938.80
Administrative Analyst	3	$32.06	$33.66	$35.34	$37.11	$38.97	$40.92	$42.97	$5,557.07	$5,834.40	$6,125.60	$6,432.40	$6,754.80	$7,092.80	$7,448.13
Accountant	3	$32.06	$33.66	$35.34	$37.11	$38.97	$40.92	$42.97	$5,557.07	$5,834.40	$6,125.60	$6,432.40	$6,754.80	$7,092.80	$7,448.13
Administrative Assistant	3	$28.72	$30.16	$31.67	$33.25	$34.91	$36.66	$38.49	$4,978.13	$5,227.73	$5,489.47	$5,763.33	$6,051.07	$6,354.40	$6,671.60
Office Specialist/Receptionist	3	$23.95	$25.15	$26.41	$27.73	$29.12	$30.58	$32.11	$4,151.33	$4,359.33	$4,577.73	$4,806.53	$5,047.47	$5,300.53	$5,565.73

Classifications:
Type 1: Exempt - Executive Management
Type 2: Exempt - Mid-Management/Supervisor
Type 3: Non-Exempt (Operations)
Type 3: Non-Exempt (Administration)

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Table 1: Cost Estimates for Watermaster Engineering Services -- FY 2024/25

Watermaster Account	Group	Notes	Task	Total Labor: Person Days	Total Labor: Cost Task	Total Labor: Cost Project	Total Labor: Cost Account	Other Direct Costs: Travel	Other Direct Costs: New Equip-ment	Other Direct Costs: Equip- ment Rental	Other Direct Costs: Outside Pros	Other Direct Costs: Lab	Other Direct Costs: Repro-duction	Total ODCs: Task	Total ODCs: Project	Total ODCs: Account	Total Engineering Cost Estimate 2024/25	IEUA Cost Share	Watermaster Engineering Cost Estimate 2024/25	Expected Carryover from 2023/24	Proposed Watermaster Budget for Engineering Services 2024/25: Task	Proposed Watermaster Budget for Engineering Services 2024/25: Project	Proposed Watermaster Budget for Engineering Services 2024/25: Account
General Optimum Basin Management Program/Judgment Administration							***$756,218***									***$6,727***	***$762,945***		***$762,945***				***$762,945***
General Engineering						*$756,218*		*$4,527*	*$0*	*$0*	*$0*	*$0*	*$2,200*		*$6,727*		*$762,945*		*$762,945*			***$762,945***	
8306, 8506, 8406, 6206, 6306	General	f	Pool, Advisory, Watermaster Meetings	49.0	$115,104			$2,447						$2,447			$117,551		$117,551		$117,551		
5901.8, 6901.8	General	f	Other General Meetings as Requested	30.0	$72,352			$1,780						$1,780			$74,132		$74,132		$74,132		
5935	General	abcC	Material Physical Injury Requests	19.5	$39,452												$39,452		$39,452		$39,452		
5906.71	General	f	Miscellaneous Data Requests - GM/Watermaster Staff	49.0	$100,748			$300						$300			$101,048		$101,048		$101,048		
5906.72	General	f	Miscellaneous Data Requests - Non CBWM Staff/RFI	18.0	$37,008												$37,008		$37,008		$37,008		
6901.95	General	e	Annual Streamflow Monitoring Report - Water Rights Permit 21225	12.5	$22,416												$22,416		$22,416		$22,416		
6901.95	General	e	SGMA Reporting Requirement for WC Section 10720.8 (f)	11.5	$21,926												$21,926		$21,926		$21,926		
6906	General	f	Project Management	25.5	$51,440												$51,440		$51,440		$51,440		
6906.1	General	bdC	Watermaster Model Application and Required Demonstrations	34.5	$67,596												$67,596		$67,596		$67,596		
6901.95	General	e	Compliance with SWRCB Regulations Regarding Measurement and Reporting Diversion of Water	9.5	$18,264												$18,264		$18,264		$18,264		
5945	General	eJ	Assist Watermaster in Preparing the 47th Annual Report	8.0	$16,924												$16,924		$16,924		$16,924		
6906.21	General	abC	2024 State of the Basin Report	112.0	$192,988								$2,200	$2,200			$195,188		$195,188		$195,188		
Program Element 1: Comprehensive Monitoring Program							***$849,886***									***$244,715***	***$1,094,601***		***$1,014,796***				***$1,014,796***
7502 and 7505 Groundwater and Surface Water Quality Monitoring						*$231,565*		*$2,875*	*$0*	*$7,700*	*$0*	*$68,828*	*$0*		*$79,403*		*$310,968*		*$310,968*			***$310,968***	
7502	PE1/GWQMP	abcd	GWQMP: KEY	5.3	$10,330												$10,330		$10,330		$10,330		
7502	PE1/GWQMP	abcd	GWQMP: FIELD-as needed field support	15.3	$21,302			$1,000		$1,700				$2,700			$24,002		$24,002		$24,002		
7505	PE1/GWQMP	abcd	GWQMP: LAB	0.0								$22,918		$22,918			$22,918		$22,918		$22,918		
7502	PE1/GWQMP	abcd	GWQMP: DB-Field-Lab	7.0	$11,560												$11,560		$11,560		$11,560		
7502	PE1/GWQMP	abcd	GWQMP: DB-CBDC	74.0	$120,576												$120,576		$120,576		$120,576		
7505	PE1/GWQMP	abcd	GWQMP: Monitoring for ECMP	1.6	$3,090							$15,834		$15,834			$18,924		$18,924		$18,924		
7502	PE1/HCMP	Ccd	HCMP: GWQ/SWQ - SARWC/NAWQA/SAR	15.8	$22,728			$675		$1,600				$2,275			$25,003		$25,003		$25,003		
7505	PE1/HCMP	Ccd	HCMP: GWQ/SWQ - SARWC/NAWQA/SAR - LAB	0.0								$7,000		$7,000			$7,000		$7,000		$7,000		
7502	PE1/HCMP	Ccd	HCMP: GWQ HCMP MWs	12.5	$17,909			$600		$2,100				$2,700			$20,609		$20,609		$20,609		
7505	PE1/HCMP	Ccd	HCMP: GWQ HCMP MWs - LAB	0.0								$12,400		$12,400			$12,400		$12,400		$12,400		
7502	PE1/RWGRP	ce	PBHSP: GWQMP	11.3	$16,227			$600		$2,100		$10,676		$13,376			$29,603		$29,603		$29,603		
7502	PE1/RWGRP	ce	PBHSP: SWQMP	5.0	$7,844					$200				$200			$8,044		$8,044		$8,044		
7104.3 Groundwater Level Monitoring Program						*$252,941*		*$5,070*	*$17,000*	*$2,790*	*$20,000*	*$0*	*$0*		*$44,860*		*$297,801*		*$297,801*			***$297,801***	
7104.3	PE1/GWLMP	abcd	GWLMP: HCMP/GWR/MZ1/MZ3/MWL: SCHED	3.8	$7,508												$7,508		$7,508		$7,508		
7104.3	PE1/GWLMP	abcd	GWLMP: KEY	3.0	$5,308												$5,308		$5,308		$5,308		
7104.3	PE1/GWLMP	abcd	GWLMP: HCMP/GWR/MZ1/MZ3/MWL: FIELD	45.0	$62,776			$3,100		$1,800				$4,900			$67,676		$67,676		$67,676		
7104.3	PE1/GWLMP	abcd	GWLMP: HCMP/GWR/MZ1/MZ3/MWL: DB-WL	33.0	$53,664												$53,664		$53,664		$53,664		
7104.3	PE1/GWLMP	abcd	GWLMP: DB-CBDC	32.0	$50,992												$50,992		$50,992		$50,992		
7104.3	PE1/GWLMP	e	CASGEM Reporting	5.1	$8,057												$8,057		$8,057		$8,057		
7104.8	PE1/GWLMP	abcd	GWLMP: Contract Services	4.3	$6,174						$20,000			$20,000			$26,174		$26,174		$26,174		
7104.9	PE1/GWLMP	abcd	GWLMP: Capital Equipment (Transducers)						$17,000					$17,000			$17,000		$17,000		$17,000		
7104.3	PE4/MZ-1	abC	GWLMP: Northwest MZ-1 Area: GWLMP	18.0	$27,248			$1,220		$790				$2,010			$29,258		$29,258		$29,258		
7104.3	PE1/RWGRP	ce	GWLMP: PBHSP	20.8	$31,214			$750		$200				$950			$32,164		$32,164		$32,164		
7402 MZ-1 Ground Level Monitoring Program						*$144,969*		*$1,486*	*$2,750*	*$470*	*$80,700*	*$0*	*$1,596*		*$87,002*		*$231,971*		*$231,971*			***$231,971***	
Subtask 1 - Setup and Maintenance of the Monitoring Network																	*$48,239*		*$48,239*				
7402	PE1/GLMP	abC	MZ1-GLMP: Setup and Maintenance of Monitoring Network	20.8	$29,437			$649	$250	$350				$1,249			$30,686		$30,686		$30,686		
7408	PE1/GLMP	abC	MZ1-GLMP: Setup and Maintenance of Monitoring Network - Equipment	6.0	$10,784			$173	$2,500		$2,500		$1,596	$6,769			$17,553		$17,553		$17,553		
Subtask 2 - MZ-1: Aquifer-System Monitoring and Testing																	*$33,508*		*$33,508*				
7402	PE1/GLMP	abC	MZ1-GLMP: Aquifer System Monitoring and Testing	22.0	$32,724			$664		$120				$784			$33,508		$33,508		$33,508		
Subtask 3 - Basin-Wide: InSAR																	*$104,480*		*$104,480*				
7402	PE1/GLMP	abC	BW-GLMP: InSAR	29.0	$64,880												$64,880		$64,880		$64,880		
7403	PE1/GLMP	abC	BW-GLMP: InSAR - Outside Pro								$39,600			$39,600			$39,600		$39,600		$39,600		
Subtask 4 - Ground-Level Surveys																	*$45,744*		*$45,744*				
7402	PE1/GLMP	abC	MZ1-GLMP: Ground Level Surveys	3.5	$7,144												$7,144		$7,144		$7,144		
7406	PE1/GLMP	abC	MZ1-GLMP: Ground Level Surveys - Outside Pro								$38,600			$38,600			$38,600		$38,600		$38,600		
7302 Prado Basin Habitat Monitoring, Data Analysis and Reporting - 50% IEUA Cost Share						*$146,160*		*$200*	*$0*	*$0*	*$13,250*	*$0*	*$0*		*$13,450*		*$159,610*		*$79,805*			***$79,805***	
7302	PE1/RWGRP	ce	PBHSP - Vegetation Monitoring Program	13.0	$27,648												$27,648	$13,824	$13,824		$13,824		
7306	PE1/RWGRP	ce	PBHSP - Vegetation Monitoring Program - Outside Pro								$13,000			$13,000			$13,000	$6,500	$6,500		$6,500		
7302	PE1/RWGRP	ce	PBHSP - Climate Monitoring Program	1.3	$2,596						$250			$250			$2,846	$1,423	$1,423		$1,423		
7302	PE1/RWGRP	ce	PBHSP - Prepare Annual Report	50.3	$93,954			$100						$100			$94,054	$47,027	$47,027		$47,027		
7302	PE1/RWGRP	ce	PBHSP - Meetings and Project Administration	9.8	$21,962			$100						$100			$22,062	$11,031	$11,031		$11,031		
7202 Recharge and Well Monitoring Program: Pursuant to the Groundwater Recharge Permit and Maximum Benefit						*$23,496*		*$0*	*$0*	*$0*	*$0*	*$0*	*$0*		*$0*		*$23,496*		*$23,496*			***$23,496***	
7202	PE1/RWGRP	e	RWGRP: Review Documents for Chino Basin Recycled Water GW Recharge Program	11.5	$23,496												$23,496		$23,496		$23,496		

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Table 1: Cost Estimates for Watermaster Engineering Services -- FY 2024/25

Watermaster Account	Group	Notes	Task	Total Labor: Person Days	Total Labor: Cost Task	Total Labor: Cost Project	Total Labor: Cost Account	Other Direct Costs: Travel	New Equip-ment	Equip- ment Rental	Outside Pros	Lab	Repro-duction	Total ODCs: Task	Total ODCs: Project	Total ODCs: Account	Total Engineering Cost Estimate 2024/25	IEUA Cost Share	Watermaster Engineering Cost Estimate 2024/25	Expected Carryover from 2023/24	Proposed Watermaster Budget for Engineering Services 2024/25: Task	Project	Account
5925 Agriculture Production Estimation						*$11,096*		*$0*	*$0*	*$0*	*$20,000*	*$0*	*$0*		*$20,000*		*$31,096*		*$31,096*			***$31,096***	
5925	General	J	Agriculture Production Estimation	5.5	$11,096						$20,000			$20,000			$31,096		$31,096		$31,096		
5965 Support for Implementation of Improved Data Collection and Management Process						*$39,659*		*$0*	*$0*	*$0*	*$0*	*$0*	*$0*		*$0*		*$39,659*		*$39,659*			***$39,659***	
5965	General	f	Support for Implementation of Improved Data Collection and Development of Data Visualization	23.3	$39,659												$39,659		$39,659		$39,659		
7200 Program Element 2: Comprehensive Recharge Program							***$175,344***									***$600***	***$175,944***		***$175,944***				***$75,944***
7202 Engineering Services						*$175,344*		*$600*	*$0*	*$0*	*$0*	*$0*	*$0*		*$600*		*$175,944*		*$175,944*			***$75,944***	
7202.2	PE2	abcdC	PE2: Comprehensive Recharge Program	84.0	$175,344			$600						$600			$175,944		$175,944	$100,000	$75,944		
7300 Program Elements 3 & 5: Water Supply Plan - Desalters							***$16,180***									***$0***	***$16,180***		***$16,180***				***$16,180***
7303 Engineering Services						*$16,180*		*$0*	*$0*	*$0*	*$0*	*$0*	*$0*		*$0*		*$16,180*		*$16,180*			***$16,180***	
7303	PE3-5	f	PE3-5: Engineering Support for Desalters	7.5	$16,180												$16,180		$16,180		$16,180		
7400 Program Element 4: Mgmt Zone Strategies							***$151,302***									***$10,375***	***$161,677***		***$161,677***				***$161,677***
7402 Engineering Services						*$151,302*		*$375*	*$0*	*$0*	*$0*	*$0*	*$10,000*		*$10,375*		*$161,677*		*$161,677*			***$161,677***	
Subtask 5 - Data Analyses and Reports																	*$87,084*		*$87,084*				
7402	PE4/MZ-1	abC	PE4/MZ-1: Data Analyses and Reports	41.5	$77,084								$10,000	$10,000			$87,084		$87,084		$87,084		
Subtask 6 - Develop a Subsidence Management Plan for Northwest MZ-1																	*$16,656*		*$16,656*				
7402.1	PE4/MZ-1	abC	Aquifer-System Monitoring	11.0	$16,656												$16,656		$16,656		$16,656		
7402.1	PE4/MZ-1	abC	Construct and Calibrate Additional 1D Models														$0		$0				
Subtask 7 - Meetings and Administration																	*$57,937*		*$57,937*				
7402	PE4/MZ-1	abC	PE4/MZ-1: Meetings and Administration	25.3	$57,562			$375						$375			$57,937		$57,937		$57,937		
7500 Program Elements 6 & 7: Coop Efforts/Salt Mgmt							***$384,611***									***$9,411***	***$394,022***		***$349,918***				***$339,388***
7502 Engineering Services						*$144,982*		*$3,300*	*$0*	*$0*	*$0*	*$0*	*$300*		*$3,600*		*$148,582*		*$148,582*			***$148,582***	
7502	PE6-7	abC	PE6: Analysis of Chino Basin Contaminant Plumes	30.0	$49,964			$200						$200			$50,164		$50,164		$50,164		
7502	PE6-7	Ccd	PE7: Maximum Benefit Annual Report	22.5	$40,956			$100					$300	$400			$41,356		$41,356		$41,356		
7502	PE6-7	de	PE7: Prepare Updated Groundwater and Surface Water Monitoring Work Plan	20.8	$39,920			$1,500						$1,500			$41,420		$41,420		$41,420		
7502	PE6-7	abC	As needed support for implementation of PE 6/7	6.8	$14,142			$1,500						$1,500			$15,642		$15,642		$15,642		
7510 Update IEUA's Recycled Water Permit/Maximum Benefit Salinity Management Plan						*$18,984*		*$76*	*$0*	*$0*	*$2,000*	*$0*	*$0*		*$2,076*		*$21,060*		*$10,530*			***$0***	
7510	PE6-7	df	Update IEUA's Recycled Water Permits/Maximum Benefit Salinity Management Plan for the Chino Basin - IEUA Cost Share	9.0	$18,984			$76			$2,000			$2,076			$21,060	$10,530	$10,530	$10,530			
7511 Support Watermaster in Participation and Review of Santa Ana Watershed Basin Monitoring Program Task Force						*$26,486*		*$581*	*$0*	*$0*	*$0*	*$0*	*$0*		*$581*		*$27,067*		*$27,067*			***$27,067***	
7511	PE6-7	df	As requested services to support Watermaster in its participation in and review of work performed by the Santa Ana Watershed Basin Monitoring Program Task Force	12.0	$26,486			$581						$581			$27,067		$27,067		$27,067		
7517 Prepare Monitoring Work Plan for Chino Creek						*$64,495*		*$1,454*	*$0*	*$1,200*	*$0*	*$0*	*$0*		*$2,654*		*$67,149*		*$33,574*			***$33,574***	
7517	PE6-7	de	Implementation of Chino Creek Monitoring Program - IEUA Cost Share	42.8	$64,495			$1,454		$1,200				$2,654			$67,149	$33,574	$33,574		$33,574		
7520 Preparation of Water Quality Management Plan						*$129,664*		*$500*	*$0*	*$0*	*$0*	*$0*	*$0*		*$500*		*$130,164*		*$130,164*			***$130,164***	
7520	PE6-7	a	Water Quality Management Program	59.5	$129,664			$500						$500			$130,164		$130,164		$130,164		
7600 Program Elements 8 & 9: Storage Mgmt/Conj Use							***$867,379***									***$1,800***	***$869,179***		***$869,179***				***$844,179***
7602 Engineering Services						*$867,379*		*$1,800*	*$0*	*$0*	*$0*	*$0*	*$0*		*$1,800*		*$869,179*		*$869,179*			***$844,179***	
7610	PE8-9	abJ	Develop Storage and Recovery Master Plan	29.0	$57,184			$400						$400			$57,584		$57,584	$25,000	$32,584		
7614	PE8-9	beC	Support Implementation of the Safe Yield Court Order	350.9	$767,563			$1,400						$1,400			$768,963		$768,963		$768,963		
7615	PE8-9	abJ	Develop 2025 Storage Management Plan	22.0	$42,632												$42,632		$42,632		$42,632		
Totals				**1,662**	**$3,200,920**	**$3,200,920**	**$3,200,920**	**$22,844**	**$19,750**	**$12,160**	**$135,950**	**$68,828**	**$14,096**	**$273,628**	**$273,628**	**$273,628**	**$3,474,548**	**$123,909**	**$3,350,638**	**$135,530**	**$3,215,108**	**$3,215,108**	**$3,215,108**

Notes:

Work mandated by:

a OBMP & Peace Agreement
b OBMP Implementation Plan
c Peace II
d Water Quality Control Plan for the Santa Ana River Basin (Basin Plan)
e Other Regulatory Compliance
f Watermaster staff request
g New scope item related to Watermaster Process and Testimony at Court if required
C Court Order
J Judgment

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Table 2: Comparison of Watermaster Engineering Costs

FY 2024/25 versus FY 2023/24

FY 2024/25 Account No(s).	Task	Watermaster Engineering Cost Estimate FY 24/25[1]	Watermaster Engineering Cost Estimate FY 23/24[2]	Net Change
General Optimum Basin Management Program/Judgment Administration		**$762,945**	**$622,224**	**$140,721**
8306, 8506, 8406, 6206, 6306	Pool, Advisory, Watermaster Meetings	$117,551	$117,331	$220
6901.8, 5901.8	Other General Meetings as Requested	$74,132	$90,193	($16,061)
5935	Material Physical Injury Requests	$39,452	$36,072	$3,380
5906.71	Miscellaneous Data Requests - GM/Watermaster Staff	$101,048	$126,204	($25,156)
5906.72	Miscellaneous Data Requests - Non CBWM Staff/RFI	$37,008	$42,832	($5,824)
6901.95	Annual Streamflow Monitoring Report - Water Rights Permit 21225	$22,416	$20,660	$1,756
6901.95	SGMA Reporting Requirement for WC Section 10720.8 (f)	$21,926	$19,892	$2,034
6906	Project Management	$51,440	$46,992	$4,448
6906.1	Watermaster Model Application and Required Demonstrations	$67,596	$41,235	$26,361
6901.95	Compliance with SWRCB Regulations Regarding Measurement and Reporting Diversion of Water	$18,264	$16,764	$1,500
6906.26	Support Development of 2020 OBMP CEQA Documentation, Implementation Plan, and Peace Agreement Amendment	$0	$24,016	($24,016)
5945	Assist Watermaster in Preparing the 47th Annual Report	$16,924	$15,416	$1,508
6906.21	2024 State of the Basin Report	$195,188	$0	$195,188
7220	Integrated Model Meetings and Technical Review - 50% IEUA Cost Share	$0	$24,618	($24,618)
7100 Program Element 1: Comprehensive Monitoring Program		**$1,014,796**	**$1,071,936**	**($57,141)**
7502, 7505	Groundwater Quality Monitoring Program	$310,968	$275,076	$35,893
7104.3, 7104.8, 7104.9	Groundwater Level Monitoring Program	$297,801	$276,360	$21,441
7402, 7403, 7406, 7408	Ground Level Monitoring Program	$231,971	$345,085	($113,114)
7302, 7306	PBHSP - Monitoring Program	$79,805	$75,621	$4,184
7202	Review Documents for Chino Basin Recycled Water GW Recharge Program	$23,496	$29,084	($5,588)
5925	Agriculture Production Estimation	$31,096	$34,376	($3,280)
5965	Support for Implementation of Improved Data Collection and Development of Data Visualization	$39,659	$36,336	$3,323
7200 Program Element 2: Comprehensive Recharge Program		**$175,944**	**$350,703**	**($174,759)**
7202.2	PE2: Comprehensive Recharge Program	$175,944	$202,362	($26,418)
7208	SB88 Specification to Ensure Compliance with Regulations - GRCC/IEUA Cost Share	$0	$54,013	($54,013)
7210	2023 Recharge Master Plan Update	$0	$94,328	($94,328)
7300 Program Elements 3 & 5: Water Supply Plan - Desalter		**$16,180**	**$15,632**	**$548**
7303	PE3-5: Engineering Support for Desalters	$16,180	$15,632	$548
7400 Program Element 4: Management Zone Strategies		**$161,677**	**$454,794**	**($293,117)**
7402	PE4/MZ-1: Data Analyses, Reports, Meetings, and Administration	$145,021	$183,091	($38,070)
7402.1	PE4: Subsidence Management Plan for Northwest MZ-1	$16,656	$271,703	($255,047)
7500 Program Elements 6 & 7: Cooperative Efforts/Salt Management		**$349,918**	**$455,709**	**($105,792)**
7502	PE6-7: As-needed consulting for Plumes and Maximum Benefit Annual Reporting	$148,582	$158,252	($9,670)
7510	Update IEUA's Recycled Water Permits/Maximum Benefit Salinity Management Plan for the Chino Basin - IEUA Cost Share	$10,530	$34,631	($24,101)
7511	As Requested Services to Review of Work Performed by Santa Ana Watershed BMPTF	$27,067	$24,610	$2,458
7508	Follow-on work for the mitigation plan for the temporary loss of Hydraulic Control - IEUA Cost Share	$0	$10,703	($10,703)
7517	Implementation of Chino Creek Monitoring Program - IEUA Cost Share	$33,574	$69,821	($36,247)
7520	Water Quality Management Program	$130,164	$157,692	($27,528)
7600 Program Elements 8 & 9: Storage Management/Conjunctive Use		**$869,179**	**$784,183**	**$84,996**
7610	Develop Storage and Recovery Master Plan	$57,584	$69,306	($11,722)
7614	Support Implementation of the Safe Yield Court Order	$768,963	$663,747	$105,216
7620	Evaluation of Extreme Future Planning Scenarios	$0	$51,130	($51,130)
7615	Develop 2025 Storage Management Plan	$42,632	$0	$42,632
Totals		**$3,350,638**	**$3,755,181**	**($404,543)**

Notes:

[1] Total engineering cost estimate ($3,474,548) minus estimated IEUA cost-share contribution ($123,909) from Table 1

[2] Total engineering cost estimate ($4,024,588) minus estimated IEUA cost-share contribution ($269,407)

Table 3: Variance Explanations for Engineering Costs
FY 2024/25 versus FY 2023/24

FY 2024/25 Account No(s).	Task	Change from FY 23/24	Variance Explanation
General Optimum Basin Management Program/Judgment Administration		**$140,721**	
8306, 8506, 8406, 6206, 6306	Pool, Advisory, Watermaster Meetings	$220	
6901.8, 5901.8	Other General Meetings as Requested	($16,061)	The as-requested meetings have consistently fallen below the budgeted amount over the past few years. As a result, the budget for FY 2024/25 has been reduced.
5935	Material Physical Injury Requests	$3,380	
5906.71	Miscellaneous Data Requests - GM/Watermaster Staff	($25,156)	The as-requested efforts have consistently fallen below the budgeted amount over the past few years. As a result, the budget for FY 2024/25 has been reduced.
5906.72	Miscellaneous Data Requests - Non CBWM Staff/RFI	($5,824)	
6901.95	Annual Streamflow Monitoring Report - Water Rights Permit 21225	$1,756	
6901.95	SGMA Reporting Requirement for WC Section 10720.8 (f)	$2,034	
6906	Project Management	$4,448	
6906.1	Watermaster Model Application and Required Demonstrations	$26,361	The scope in FY 2024/25 includes the balance of recharge and discharge investigation and an assessment of the cumulative impact of transfers, which was not included in FY 2023/24.
6901.95	Compliance with SWRCB Regulations Regarding Measurement and Reporting Diversion of Water	$1,500	
6906.26	Support Development of 2020 OBMP CEQA Documentation, Implementation Plan, and Peace Agreement Amendment	($24,016)	This task was completed in FY 2023/24.
5945	Assist Watermaster in Preparing the 47th Annual Report	$1,508	
6906.21	2024 State of the Basin Report	$195,188	This is a biennial task that will be completed in FY 2024/25.
7220	Integrated Model Meetings and Technical Review - 50% IEUA Cost Share	($24,618)	This task was completed in FY 2023/24.
7100 Program Element 1: Comprehensive Monitoring Program		**($57,141)**	
7502, 7505	Groundwater Quality Monitoring Program	$35,893	The scope for FY 2024/25 includes additional sampling for the Emerging Contaminants Monitoring Plan and the sampling at the PBHSP monitoring wells performed every three years
7104.3, 7104.8, 7104.9	Groundwater Level Monitoring Program	$21,441	The cost for FY 2024/25 increased due to the need to increase budget available for the purchase of replacement transducers , and for the engineering and contract services to perform various well rehabilitation and maintenance for the Watermaster monitoring wells.
7402, 7403, 7406, 7408	Ground Level Monitoring Program	($113,114)	Cost decrease compared to FY 2023/24 is due to less ground-level surveys performed in FY 2024/25.
7302, 7306	PBHSP - Monitoring Program	$4,184	
7202	Review Documents for Chino Basin Recycled Water GW Recharge Program	($5,588)	
5925	Agriculture Production Estimation	($3,280)	
5965	Support for Implementation of Improved Data Collection and Development of Data Visualization	$3,323	
7200 Program Element 2: Comprehensive Recharge Program		**($174,759)**	
7202.2	PE2: Comprehensive Recharge Program	($26,418)	The scope of work in FY 2024/25 is less than in FY 2023/24 and includes tasks recommended in the 2023 RMPU.
7208	SB88 Specification to Ensure Compliance with Regulations - GRCC/IEUA Cost Share	($54,013)	This task has been deferred indefinitely.
7210	2023 Recharge Master Plan Update	($94,328)	The 2023 RMPU was completed in September 2023.
7300 Program Elements 3 & 5: Water Supply Plan - Desalter		**$548**	
7303	PE3-5: Engineering Support for Desalters	$548	
7400 Program Element 4: Mgmt Zone Strategies		**($293,117)**	
7402	PE4/MZ-1: Data Analyses, Reports, Meetings, and Administration	($38,070)	The scope of work in FY 2024/25 is similar to FY 2023/24. The 2023/24 cost estimate included carryover from the prior year that accounts for the variance.
7402.1	PE4: Subsidence Management Plan for Northwest MZ-1	($255,047)	The scope of work in FY 2024/25 is less than in FY 2023/24.
7500 Program Elements 6 & 7: Coop Efforts/Salt Mgmt		**($105,792)**	
7502	PE6-7: As-needed consulting for Plumes and Maximum Benefit Annual Reporting	($9,670)	
7510	Update IEUA's Recycled Water Permits/Maximum Benefit Salinity Management Plan for the Chino Basin - IEUA Cost Share	($24,101)	This is a multi-year project and the level of effort in FY 2024/25 is less than prior years.

Table 3: Variance Explanations for Engineering Costs
FY 2024/25 versus FY 2023/24

FY 2024/25 Account No(s).	Task	Change from FY 23/24	Variance Explanation
7511	As Requested Services to Review of Work Performed by Santa Ana Watershed BMPTF	$2,458	
7512	Follow-on work for the mitigation plan for the temporary loss of Hydraulic Control - IEUA Cost Share	($10,703)	
7517	Implementation of Chino Creek Monitoring Program - IEUA Cost Share	($36,247)	The scope for FY 2024/25 is less than the prior year. The FY 2023/24 scope included the development of the monitoring program, including Work Plan and QAPP preparation. The scope of work for FY 2024/25 includes the implementation of the monitoring Work Plan.
7520	Water Quality Management Program	($27,528)	The scope in FY 2024/25 is less than the prior year because the concept of a water quality management plan was re-envisioned into a simpler, more adaptable WQMP led by the WQC, feedback received through the WQC, and cost have been reduced.
7600 Program Elements 8 & 9: Storage Mgmt/Conj Use		**$84,996**	
7610	Develop Storage and Recovery Master Plan	($11,722)	
7614	Support Implementation of the Safe Yield Court Order	$105,216	This is a multi-year project. The scope in FY 2024/25 is greater than the prior year to include work to complete the 2025 Safe Yield Reevaluation, including modeling and reporting.
7620	Evaluation of Extreme Future Planning Scenarios	($51,130)	This is a multi-year task that has been deferred until the completion of the 2025 Safe Yield Reevaluation.
7615	Develop 2025 Storage Management Plan	$42,632	This is a new task in FY 2024/25.
Total		**($404,543)**	

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Table 4: Engineering Cost Estimates by Expense Category*

FY 2024/25

FY 2024/25 Account No(s).	Task	Total Engineering Cost Estimates	Expense Category						
			WY Labor Expense	WY Travel Expense	Equipment Rental	Repro Expense	Equipment Purchases	Lab Expense	Outside Pros
General Optimum Basin Management Program/Judgment Administration		**$ 762,945**	**$ 756,218**	**$ 4,527**	**$ -**	**$ 2,200**	**$ -**	**$ -**	**$ -**
8306, 8506, 8406, 6206, 6306	Pool, Advisory, Watermaster Meetings	$ 117,551	115,104	2,447	-	-	-	-	-
6901.8, 5901.8	Other General Meetings as Requested	$ 74,132	72,352	1,780	-	-	-	-	-
5935	Material Physical Injury Requests, Other	$ 39,452	39,452	-	-	-	-	-	-
6906.71, 5906.71	Miscellaneous Data Requests - GM/Watermaster Staff	$ 101,048	100,748	300	-	-	-	-	-
6906.72, 5906.72	Miscellaneous Data Requests - Non CBWM Staff/RFI	$ 37,008	37,008	-	-	-	-	-	-
6901.95	Annual Streamflow Monitoring Report - Water Rights Permit 21225	$ 22,416	22,416	-	-	-	-	-	-
6901.95	SGMA Reporting Requirement for WC Section 10720.8 (f)	$ 21,926	21,926	-	-	-	-	-	-
6906	Project Management	$ 51,440	51,440	-	-	-	-	-	-
6906.1	Watermaster Model Application and Required Demonstrations	$ 67,596	67,596	-	-	-	-	-	-
6901.95	Compliance with SWRCB Regulations Regarding Measurement and Reporting Diversion of Water	$ 18,264	18,264	-	-	-	-	-	-
5945	Assist Watermaster in Preparing the 47th Annual Report	$ 16,924	16,924	-	-	-	-	-	-
6906.21	2024 State of the Basin Report	$ 195,188	192,988	-	-	2,200	-	-	-
7100 Program Element 1: Comprehensive Monitoring Program		**$ 1,094,601**	**$ 849,886**	**$ 9,631**	**$ 10,960**	**$ 1,596**	**$ 19,750**	**$ 68,828**	**$ 133,950**
7502, 7505	Groundwater Quality Monitoring Program	$ 310,968	231,565	2,875	7,700	-	-	68,828	-
7104.3, 7104.8, 7104.9	Groundwater Level Monitoring Program	$ 297,801	252,941	5,070	2,790	-	17,000	-	20,000
7402, 7403, 7406, 7408	Ground Level Monitoring Program	$ 231,971	144,969	1,486	470	1,596	2,750	-	80,700
7302, 7306	PBHSP - Monitoring Program	$ 159,610	146,160	200	-	-	-	-	13,250
7202	Review Documents for Chino Basin Recycled Water GW Recharge Program	$ 23,496	23,496	-	-	-	-	-	-
5925	Agriculture Production Estimation	$ 31,096	11,096	-	-	-	-	-	20,000
5965	Support for Implementation of Improved Data Collection and Development of Data Visualization	$ 39,659	39,659	-	-	-	-	-	-
7200 Program Element 2: Comprehensive Recharge Program		**$ 175,944**	**$ 175,344**	**$ 600**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
7202.2	PE2: Comprehensive Recharge Program	$ 175,944	175,344	600	-	-	-	-	-
7300 Program Elements 3 & 5: Water Supply Plan - Desalter		**$ 16,180**	**$ 16,180**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
7303	PE3-5: Engineering Support for Desalters	$ 16,180	16,180	-	-	-	-	-	-
7400 Program Element 4: Mgmt Zone Strategies		**$ 161,677**	**$ 151,302**	**$ 375**	**$ -**	**$ 10,000**	**$ -**	**$ -**	**$ -**
7402	PE4/MZ-1: Data Analyses, Reports, Meetings, and Administration	$ 145,021	134,646	375	-	10,000	-	-	-
7402.1	PE4: Subsidence Management Plan for Northwest MZ-1	$ 16,656	16,656	-	-	-	-	-	-
7500 Program Elements 6 & 7: Coop Efforts/Salt Mgmt		**$ 394,022**	**$ 384,611**	**$ 5,911**	**$ 1,200**	**$ 300**	**$ -**	**$ -**	**$ 2,000**
7502	PE6-7: As-needed consulting for Plumes and Maximum Benefit Annual Reporting	$ 148,582	144,982	3,300	-	300	-	-	-
7510	Update IEUA's Recycled Water Permit and Water Salinity MP - IEUA Cost Share	$ 21,060	18,984	76	-	-	-	-	2,000
7511	As requested services to support Watermaster in its participation in and review of work performed by the Santa Ana Watershed Basin Monitoring Program Task Force	$ 27,067	26,486	581	-	-	-	-	-
7517	Implementation of Chino Creek Monitoring Program - IEUA Cost Share	$ 67,149	64,495	1,454	1,200	-	-	-	-
7520	Water Quality Management Program	$ 130,164	129,664	500	-	-	-	-	-
7600 Program Elements 8 & 9: Storage Mgmt/Conj Use		**$ 869,179**	**$ 867,379**	**$ 1,800**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
7610	Develop Storage and Recovery Master Plan	$ 57,584	57,184	400	-	-	-	-	-
7614	Support Implementation of the Safe Yield Court Order	$ 768,963	767,563	1,400	-	-	-	-	-
7615	Develop 2025 Storage Management Plan	$ 42,632	42,632	-	-	-	-	-	-
Totals		**$ 3,474,548**	**$ 3,200,920**	**$ 22,844**	**$ 12,160**	**$ 14,096**	**$ 19,750**	**$ 68,828**	**$ 135,950**

Notes:

* Total engineering cost estimates include IEUA cost sharing contributions and Carryover

DRAFT | APRIL 2024

Summary of Proposed Engineering Services and Cost Estimates *Fiscal Year 2024/25*

PREPARED FOR

Chino Basin Watermaster

PREPARED BY

WEST YOST
Water. Engineered.

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Summary of Proposed Engineering Services and Cost Estimates
Fiscal Year 2024/25

EXECUTIVE SUMMARY

This document summarizes West Yost's proposed scope-of-work and cost estimate for Watermaster Engineering Services in fiscal year (FY) 2024/25. For each engineering task in this summary, the following information is provided:

Cost Estimate. This is the estimated cost to complete the task in FY 2024/25, which includes all costs for Watermaster Engineer labor, equipment rentals, laboratory analyses, travel, other subcontractors, etc. Subcontractor costs are passed through with no additional "markup." The cost estimates include costs that will be covered by cost sharing partners (e.g., IEUA) and/or carryover budget from the prior FY. Hence, the cost to the Watermaster Parties in 2024/25 will be less than the costs stated herein for those tasks with cost share and/or carryover funding.

Rationale. This is a description of why the task is being proposed for FY 2024/25, including references to associated regulatory requirements, Court Orders, CEQA requirements, or agreements.

Scope. This is a summary description of the scope of work required to complete the task.

Deliverables. This is a summary of the task deliverables.

There are two new tasks that are proposed to start in FY 2024/25 that have not been performed in past years. The new tasks are:

- Prepare Updated Groundwater and Surface Water Monitoring Work Plan
- Develop 2025 Storage Management Plan

This summary is accompanied by four tables that describe the cost estimates in more detail and compare the cost estimates to the prior year Watermaster budget:

- **Table 1.** This is a detailed line-item cost estimate for each proposed task. It includes totals for the following:
  - **Total Engineering Cost Estimate**. The total cost to complete the task in 2024/25, including Watermaster Engineer labor, equipment rentals, laboratory analyses, travel, other subcontractors, etc.
  - **IEUA Cost Share**. The amount of Total Engineering Cost Estimate covered by IEUA under cost sharing agreements.
  - **Watermaster Engineering Cost Estimate**. The Total Engineering Cost Estimate minus the IEUA Cost Share.
  - **Expected Carryover**. The estimated amount of unspent approved budget for work planned for FY 2023/24 that is now expected to be performed in FY 2024/25.
  - **Proposed Watermaster Budget for Engineering Services 2024/25**. The Watermaster Engineering Cost Estimate minus the Expected Carryover. This is the estimated costs that would be assessed to the Watermaster parties for 2024/25.

- **Table 2**. This table compares the Watermaster Engineering Cost Estimates for FY 2024/25 versus 2023/24.
- **Table 3**. This table explains the variances between the Watermaster Engineering Cost Estimates for FY 2024/25 versus 2023/24 for the tasks with variances greater than $15,000.
- **Table 4**. This table breaks down the Total Engineering Cost Estimate into the various expense categories of labor and other direct costs.

The total proposed cost estimate for engineering services in FY 2024/25 is about $3,493,119. Cost sharing contributions by IEUA (~$123,909) reduces the estimated costs for Watermaster engineering services to about $3,369,209, which is about $385,972 less than the Watermaster engineering costs for FY 2023/24. Currently, it is estimated that about $135,530 of the Watermaster engineering costs will be funded via carryover funds from the FY 2023/24 budget.

8306, 8506, 8406, 6206, 6306 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

Pool, Advisory, Watermaster Meetings

	Cost Estimate
Consultant Labor	$115,104
Other Direct Costs	$2,447
Total	**$117,551**

Rationale

The Watermaster General Manager and/or the Watermaster Board may direct West Yost to prepare for and attend the following meetings:

- Watermaster Pool meetings (Appropriative, Agricultural, and Overlying Non-Agricultural)
- Watermaster Advisory Committee meetings
- Watermaster Board meetings

Watermaster meetings are assumed to occur in all months except December.

Scope of Work

For each meeting, West Yost will prepare engineering updates with supporting maps, charts, tables, handouts, and PowerPoint presentations, as appropriate. West Yost shall also participate in conference calls with Watermaster's General Manager and staff to prepare for the meetings and may be asked by Watermaster staff to help prepare staff reports for business items.

Deliverables

West Yost will deliver the following to Watermaster:

- Maps, charts, tables, handouts, and PowerPoint presentations prepared by West Yost for the meetings.
- Other as-requested deliverables.

6901.8, 5901.8 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

Other General Meetings as Requested

	Cost Estimate
Consultant Labor	$72,352
Other Direct Costs	$1,780
Total	**$74,132**

Rationale

The Watermaster General Manager and/or the Watermaster Board may direct West Yost to prepare for and attend the following meetings:

- Other general meetings as requested by Watermaster's General Manager or Board.
- Coordination conference calls with Watermaster's General Manager and staff.

Work on this task will be performed only upon request by Watermaster's General Manager or the Board.

Scope of Work

For each meeting, West Yost will prepare supporting maps, charts, tables, handouts, and PowerPoint presentations, as appropriate, and may participate in conference calls to coordinate with Watermaster staff prior to or following the meetings.

Deliverables

West Yost will deliver the following to Watermaster:

- Maps, charts, tables, handouts, and PowerPoint presentations prepared by West Yost for the meetings.
- Other as-requested deliverables.

5935 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

Material Physical Injury Requests, Others

	Cost Estimate
Consultant Labor	$39,452
Other Direct Costs	$0
Total	**$39,452**

Rationale

At the direction of the Watermaster General Manager, West Yost will conduct a material physical injury analysis for each transfer application, storage application, and recharge application, or as otherwise directed by Watermaster and pursuant to the Peace Agreement and the Rules and Regulations. Specifically, Article 10 of the Watermaster Rules and Regulations (paragraph 10.10) requires that:

> *"[…] Watermaster prepare a written summary and analysis (which will include an analysis of the potential for material physical injury) of the Application and provide the Parties with a copy of the written summary and advanced notice of the date of Watermaster's scheduled consideration and possible action on any pending Applications."*

Per the Peace Agreement (page 8), material physical injury is defined as:

> *"[…] material injury that is attributable to Recharge, Transfer, storage and recovery, management, movement or Production of water or implementation of the OBMP, including, but not limited to, degradation of water quality, liquefaction, land subsidence, increases in pump lift and adverse impacts associated with rising groundwater."*

Scope of Work

This task provides engineering services to assist Watermaster staff in the evaluation of transfer, storage, and recharge applications. Occasionally, Watermaster staff requires engineering services in the evaluation of such transfers. Material physical injury analyses anticipated for FY 2024/25 will cover water transfers among the parties, recharge applications, and storage application, as directed by Watermaster.

Deliverables

The deliverables for this work will be defined by specific Watermaster direction for projects requiring MPI analyses.

5906.71 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

Miscellaneous General Manager and Data Requests – from Watermaster Staff

	Cost Estimate
Consultant Labor	$100,748
Other Direct Costs	$300
Total	**$101,048**

Rationale

The Watermaster General Manager and/or Watermaster staff may direct West Yost to perform specific technical analyses and/or respond to miscellaneous data requests related to Chino Basin optimum management. The recommended budget estimate is based on prior years' experience.

Scope of Work

West Yost shall perform the following tasks:

- Perform ad hoc analyses and review of documents requested by the Watermaster General Manager and/or Watermaster staff.
- Fulfill requests from the Watermaster General Manager and/or Watermaster staff, including the preparation of PowerPoint presentations, maps, charts, and technical reports.
- Fulfill requests for hydrologic data, model files, PowerPoint presentations, maps, charts, technical reports, etc., as requested by Watermaster staff.

Deliverables

West Yost shall deliver to Watermaster data-request deliverables as well as PowerPoint presentations, maps, charts, and technical reports, as requested.

5906.72 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

Miscellaneous Data Requests – from Non-Watermaster Staff, Watermaster Parties, and Non-Watermaster Entities

	Cost Estimate
Consultant Labor	$37,008
Other Direct Costs	$0
Total	**$37,008**

Rationale

The Watermaster General Manager and/or Watermaster staff may direct West Yost to perform specific technical analyses and/or respond to miscellaneous data requests from Watermaster parties, non-Watermaster staff, and non-Watermaster entities. The recommended budget estimate is based on prior years' experience.

Scope of Work

West Yost shall perform the following tasks:

- Perform ad hoc analyses requested by Watermaster parties, non-Watermaster staff, and non-Watermaster entities, as directed by the Watermaster General Manager and/or Watermaster staff.
- Fulfill requests for hydrologic data, model files, PowerPoint presentations, maps, charts, technical reports, etc. requested by Watermaster parties, non-Watermaster staff, or non-Watermaster entities, as directed by Watermaster staff.

Deliverables

West Yost shall deliver to Watermaster the data-request deliverables as well as PowerPoint presentations, maps, charts, and technical reports, as requested by the Watermaster General Manager and/or Watermaster staff.

6901.95 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

Annual Streamflow Monitoring Report for Water Rights Permit 21225

	Cost Estimate
Consultant Labor	$22,416
Other Direct Costs	$0
Total	**$22,416**

Rationale

This work is required in Watermaster's permit issued by the State Water Resources Control Board (Permit No. 21225).

Scope of Work

This task includes engineering services to prepare a specialized hydrologic assessment of the relative impacts of the diversions of storm water for recharge by Watermaster pursuant to Watermaster's Permit 21225 issued by the State Water Resources Control Board. A report summarizing the analysis is due each year by October 1st. This work involves estimating the discharge to the Santa Ana River from its tributaries that flow across the Chino Basin and where storm water is diverted for recharge. The discharge from these tributaries to the Santa Ana River is estimated with and without the Watermaster diversions for recharge, and the relative changes in discharge are computed. The latest version of the Chino Basin surface water model that was developed for the 2020 Safe Yield Recalculation will be used for this effort.

Deliverables

West Yost shall deliver the following to Watermaster:

- A letter report entitled, Annual Streamflow Monitoring Report for Water Rights Permit 21225, Fiscal 2023/24, which Watermaster and its attorney will review and forward to the State Water Resources Control Board by October 1, 2023.
- The draft report will be delivered to Watermaster and its Attorney for review and comment by September 15, 2023.
- The final report will be delivered to Watermaster and its Attorney by September 27, 2023.

6901.95 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

SGMA Reporting Requirement for April 1, 2025 WC Section 10720.8 (f).

	Cost Estimate
Consultant Labor	$21,926
Other Direct Costs	$0
Total	**$21,926**

Rationale

The Sustainable Groundwater Management Act (SGMA) has a requirement that the Watermaster or a local agency of an adjudicated basin identified in WC Section 10720.8(a) submit specific data, information, and reports for the previous water year annually to the California Department of Water Resources (DWR) by April 1 of each year. Pursuant to SGMA WC Section 10720.8(f), Watermaster is required to submit:

(A) Groundwater elevation data unless otherwise submitted pursuant to WC Section 10932

(B) Annual aggregated data identifying groundwater extraction

(C) Surface water supply used for or available for use for groundwater recharge or in-lieu use

(D) Total water use

(E) Change in groundwater storage

(F) The annual report submitted to the court

Scope of Work

The reporting period is water year 2023/24. Item (A) has already been submitted for the California Statewide Groundwater Elevation Monitoring (CASGEM) Program, so no further data will be reported pursuant to the SGMA. Items (B) through (D) and (F) will be compiled from the appropriators, the IEUA, and Watermaster. Item (E) is a result from the Chino Basin groundwater model that will be updated with data through September 30, 2024. The change in storage will be estimated from the resulting water budget table for water year 2023/24.

The DWR has implemented an Adjudicated Basin Annual Reporting System, which is an on-line submission system that consists of specialized reporting templates for entering all the required information and provides the capability to upload supporting documents and reports. A Technical Memorandum will be prepared for Watermaster, explicitly documenting the information for Items (A) through (F) that will be populated into the reporting templates for the April 1 submittal.

Deliverables

West Yost shall deliver the following to Watermaster:

- A draft memorandum that documents the information submitted to the DWR Adjudicated Basin Annual Reporting System.

- The draft Memorandum will be submitted to Watermaster in February 2025 for Watermaster review and comment.
- The final Memorandum will be submitted to Watermaster by March 6, 2025 for review and approval by the Watermaster Pools, Advisory Committee, and Board.
- The required information and documents will be submitted to the DWR using the Adjudicated Basin Annual Reporting System by April 1, 2025.

6906 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

Project Management

	Cost Estimate
Consultant Labor	$51,440
Other Direct Costs	$0
Total	**$51,440**

Rationale

This task is for routine project management and the preparation of quarterly estimated-cost-at- completion reports.

Scope of Work

West Yost shall perform routine project management services, including:

- Update the Integrated Schedule Budget Management (ISBM) system.
- Analyze staffing requirements and make assignments for various tasks.
- Review the schedules of deliverables.
- Prepare monthly budget summary tables.
- Prepare the Estimated Cost at Completion (ECAC) and Earned Value (EV) estimates.
- Attend joint Watermaster/West Yost senior staff meetings.
- Attend Watermaster budget workshops.

Deliverables

West Yost shall deliver the following to Watermaster:

- Quarterly summary of costs to date, ECACs, and estimates of progress on a task-by-task basis.
- Monthly budget summary tables.

6906.1 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

Watermaster Model Update and Required Demonstrations

	Task 1	Task 2	Total
Consultant Labor	$59,864	$7,732	$67,596
Other Direct Costs	$0	$0	$0
Total	**$59,864**	**$7,732**	**$67,596**

Rationale

Watermaster updated its groundwater models in 2007, 2013, 2020, and 2024. Watermaster applies its groundwater model to estimate net recharge and Safe Yield, to assess the state of hydraulic control, to assist with SGMA compliance, to conduct material physical injury assessments, to assist in the development of a storage framework and Storage Management Plan, and to support the development of TDS and nitrate concentration changes in the basin.

Activities historically performed in this task have included: the assessment of the adequacy of supplemental water recharge capacity pursuant to Section 7.3 of the Peace II Agreement; the evaluation of the balance of recharge and discharge; and the evaluation of the cumulative effects of transfers. Each year since 2012, a technical assessment of the adequacy of supplemental water recharge capacity was completed and reported to the Watermaster pursuant to Section 7.3 of the Peace II Agreement. The evaluation of the balance of recharge and discharge and the cumulative effects of transfers will be required in FY 2024/25.

The work anticipated for this line item in FY 2024/25 includes the evaluation of the balance of recharge and discharge and the cumulative effect of transfers and the preparation of annual finding of compliance with Section 7.3 of the Peace II Agreement.

Scope of Work

The consultant shall perform the following tasks:

- **Task 1 – Evaluate the Balance of Recharge and Discharge and the Cumulative Effects of Transfers**
  - Task 1.1—Collect, Compile, and Review Data to Update Historical Hydrology and Prepare Annual Estimate of Balance of Recharge and Discharge. The evaluation of the balance of recharge and discharge is a retrospective analysis of the water budgets in each of the five OBMP management zones (MZs) from the period of July 1, 2020 through June 30, 2024. The consultant will collect and/or compile the necessary data to replace the projection data in the 2025 Chino Valley Model (CVM) for this period,[1] including hydrologic data, pumping data, and recharge data.

[1] The 2025 CVM includes multiple calibrated realizations that represent plausible sets of parameters that characterize the Basin. Only one calibrated realization will be chosen to use for this study. The 2025 CVM is expected to contain historical hydrologic data through Water Year 2023.

- Task 1.2—Compile the Historical Transfers in the Chino Basin and Determine the Annual Avoided Wet-Water Replenishment. The consultant will use the Watermaster Assessment Packages to calculate the avoided wet-water replenishment by Party by year.
- Task 1.3—Evaluate Basin Response to the Water Replenishment That Would Have Occurred in the Absence of Transfers. In this task, the consultant will create a new scenario that will be identical to the calibration run of the 2025 CVM, with imported water recharge increased to the volume that would have occurred in the absence of transfers for the period of July 1, 2000 through June 30, 2024. This scenario will be simulated and compared to the 2025 CVM calibration run (extended through June 30, 2024 in Task 1.1) and to determine the cumulative effect of transfers on the basin.
- Task 1.4—Prepare Report. In this task, the consultant will document the work in Tasks 1.1 through 1.3.

- **Task 2 Prepare Finding of Substantial Compliance.** The work required for this task includes review and update of planning information, testing the adequacy of existing wet-water recharge capacity to meet future wet-water replenishment obligations, and preparation of a technical memorandum to document substantial compliance as required by Section 7.3 of the Peace II Agreement.

Deliverables

For Task 1, West Yost will prepare a report for Watermaster documenting the evaluation of the balance of recharge and discharge and the cumulative effects of transfers.

For Task 2, West Yost will deliver a technical memorandum to Watermaster documenting the annual finding of substantial compliance.

6901.95 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

Compliance with SWRCB Regulations Regarding Measurement and Reporting Diversion of Surface Water (Title 23 Chapters 2.7 and 2.8)

	Cost Estimate
Consultant Labor	$18,264
Other Direct Costs	$0
Total	**$18,264**

Rationale

Watermaster holds three diversion permits, issued by the SWRCB, that provide authorization to Watermaster to divert and recharge storm and dry-weather discharge. Presently, the amount of water diverted is estimated by the IEUA and reported to the Watermaster. Watermaster subsequently reports the amount of water recharged to the SWRCB pursuant to its permits and SWRCB regulations in Title 23, Chapter 2.7.

SB88 was signed into law by Governor Brown on June 24, 2015. Sections 15 through 18 of that law add new measurement and reporting requirements for a substantial number of diverters, including the Chino Basin Watermaster. Pursuant to the regulations, Watermaster must annually report the following in addition to prior reporting requirements:

- Information on the device or method used to calculate the amount of water diverted.
- Water diversion measurement, either direct diversion or diversion to storage, including the type of device(s) used, additional technology used, who installed the device(s), and any alternative method(s) used in measuring water diversion.

Pursuant to the regulations, Watermaster is required to provide a description of its measuring scheme, determine if it meets the specific accuracy requirements provided for in the regulations, and if it can't meet the accuracy requirements, to implement an improved diversion measuring scheme.

Scope of Work

West Yost shall perform the following tasks:

- Task 1.1 – Collect WY 2023 stormwater data from IEUA, including transducer information and stage measurements.
- Task 1.2 – Provide as-needed assistance to Watermaster staff to update the "Water Diversion Measurement" section of progress reports for Watermaster's water rights permits. For one of the permitted points of diversion, modeling is needed to estimate diversions. The latest version of the Chino Basin surface water model that was developed for the 2020 Safe Yield Recalculation will be used for this effort.

Deliverables

West Yost shall deliver the following to Watermaster:

- Estimates of stormwater recharge, including maximum daily diversions by month by permit.

- The "Water Diversion Measurement" section of Watermaster's annual progress reports to the SWRCB.
- Electronic data files required by SWRCB at time of filing.

5945 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

Assist Watermaster in Preparing the 47th Annual Report

	Cost Estimate
Consultant Labor	$16,924
Other Direct Costs	$0
Total	**$16,924**

Rationale

This work is required by the Chino Basin Judgment and the Sustainable Groundwater Management Act.

Scope of Work

This task includes support services to assist Watermaster staff in the preparation of the Watermaster's 47th Annual Report documenting Watermaster's activities and water accounting for FY 2023/24. West Yost will work closely with Watermaster staff and their contractor Martin Rauch to provide as-requested support to collect data and prepare content for the Annual Report.

Deliverables

West Yost's deliverables and associated schedule will be defined by Watermaster upon project kick-off in July 2024.

6906.21 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

2024 State of the Basin Report

	Cost Estimate
Consultant Labor	$192,988
Other Direct Costs	$2,200
Total	**$195,188**

Rationale

Pursuant to the November 15, 2001 Court Order, Watermaster prepares a State of the Basin report every two years. The State of the Basin reports are used to document how the state of the basin has changed since the implementation of the Peace Agreement in September 2000. The scope of the report includes a characterization of the time histories of groundwater levels and quality, storage, production, recharge (replenishment and other recharge), ground level, state of hydraulic control, desalter planning and engineering, and production meter installation.

Scope of Work

The consultant shall perform the following tasks:

- Compile and analyze production data for FY 2022/23 and FY 2023/24 and prepare exhibits showing production activities by pool and historical trends in production.
- Compile and analyze recharge and recycled water reuse data for FY 2022/23 and FY 2023/24 and prepare exhibits showing groundwater recharge trends.
- Compile and analyze surface water, climate, and land use data and prepare exhibits that show general hydraulic conditions in the Basin.
- Analyze basin-wide water quality and prepare maps that show five-year maximum concentrations for constituents of concern, and historical trends in TDS and nitrate by management zone.
- Prepare rasters depicting the current extent of the VOC plumes and prepare a series of associated exhibits with maps and text.
- Analyze basin-wide groundwater levels and prepare exhibits that show historical trends in groundwater levels by management zone.
- Analyze water-level data and create groundwater elevation contours for spring 2024 for the entire basin and the HCMP area and prepare a series of associated maps.
- Perform raster calculations and comparisons of groundwater-elevation changes that occurred between spring 2000 and spring 2024 and spring 2022 and spring 2024 and prepare maps showing these changes.
- Compile and analyze ground-level monitoring data for 2021 through 2022 and prepare exhibits showing trends in vertical ground motion in MZ1 and MZ2, and time histories of groundwater pumping, aquifer recharge, groundwater levels, and ground motion in these areas.

Deliverables

The West Yost will deliver a draft report in digital format for Watermaster's review by June 5, 2025 and a final report in digital format by June 30, 2025 for Watermaster's general use, filing for the court, and for posting on Watermaster's website. In addition, up to 20 hard copies of the final State of the Basin Report will be prepared and provided to Watermaster.

Watermaster is considering changing the format of the State of the Basin Report to a more modern format that is online and interactive. Prior to kick-off of the preparation of the report, West Yost will meet with Watermaster staff to consider and potentially develop a revised format. Depending on the new format and scope to develop the report there could be cost savings from the cost estimate scoped to develop the report for FY 2024/25.

7502, 7505 – PE1: COMPREHENSIVE MONITORING PROGRAM

Groundwater and Surface Water Quality Monitoring Program

	Cost Estimate
Consultant Labor	$231,565
Other Direct Costs	$79,403
Total	**$310,968**

Rationale

The OBMP, Peace Agreements, and Implementation Plan all call for a key-well monitoring program for groundwater quality as part of Program Element 1.[2] The data generated in Program Element 1 are used for the Biennial State of the Basin Report, the Groundwater Model update and calibration, material physical injury assessments, the evaluation of non-point source groundwater contamination and plumes associated with point-source discharge, the evaluation of emerging contaminants in groundwater[3], Hydraulic Control demonstrations, the Triennial Ambient Water Quality Recomputation[4], and evaluation of groundwater/surface water interaction near riparian habitat in the Prado Basin. The groundwater-quality and surface water monitoring programs, as currently implemented, meets the minimum requirements for all the above uses.

[2] OBMP Program Element 1—*Develop and Implement Comprehensive Monitoring Program.*

[3] The Water Quality Management Program (WQMP) that is part of Program Element 6 conducted through the Water Quality Committee (WQC) includes the development and implementation of an Emerging Contaminants Monitoring Plan (EMCP) to collect data to characterize contaminant occurrence in the Chino Basin where data is not available and inform implications of potential water quality regulations on Chino Basin groundwater operations and management. The draft ECMP was developed in February 2024. For efficiency the Watermaster portion of the ECMP sampling will be done during the routine Watermaster monitoring for FY 2024/25 at various monitoring wells and private wells.

[4] The Hydraulic Control demonstrations and the Triennial Ambient Water Quality Recomputation are salt-management requirements of the Basin Plan: http://www.swrcb.ca.gov/santaana/water_issues/programs/basin_plan/docs/chapter5.pdf

The Hydraulic Control Monitoring Program (HCMP)[5] and the Prado Basin Habitat Sustainability Program (PBHSP)[6] are regulatory monitoring programs with groundwater and surface water monitoring components. Data collected for the HCMP and PBHSP are also used for all other basin-wide uses.[7]

Scope of Work

West Yost shall perform the following tasks:

- Assist Watermaster staff in conducting annual sampling at approximately 30 private wells and 11 monitoring wells between July and October 2023. Samples are sent to Clinical Laboratories for analysis. Sub-tasks include:
  - Annual re-evaluation of wells to sample for the key-well monitoring program.
  - Perform field work to sample a portion of the wells on an as-needed basis.[8]
  - Process, perform quality assurance/quality control (QA/QC), review all field and laboratory data, and upload to HydroDaVE.
- Obtain groundwater-quality and surface water-quality data routinely for about 1,100 wells and 50 surface water sites and from all appropriators and cooperators in and immediately adjacent to the Chino Basin. This includes collecting data from about 35 open investigation clean-up sites in the Chino Basin with data available on the GeoTracker[9] and EnviroStor[10] websites and checking for any new sites on GeoTracker and EnviroStor with confirmed or

[5] The HCMP surface water and groundwater monitoring programs are maximum-benefit requirements are salt-management requirements of the Basin Plan: http://www.swrcb.ca.gov/santaana/water_issues/programs/basin_plan/docs/chapter5.pdf and are more specifically described in 2014 HCMP Work Plan.

[6] Pursuant to Mitigation Measure 4.4-3 in the Peace II CEQA SEIR, the PBHSP adaptive monitoring program includes groundwater and surface water monitoring components to ensure that Peace II Agreement activities to not adversely impact Prado Basin riparian habitat. The PBHSP is an adaptive monitoring program that is implemented under the guidance of the Prado Basin Habitat Sustainability Committee (PBHSC) with an annual process of evaluating results and interpretations of the monitoring data and adjusting the monitoring as needed. In FY 2024/25 the proposed PBHSP groundwater and surface water monitoring includes utilization of 15-minute temperature and specific conductance (EC) data measured in the transducers at the PBHSP monitoring wells, and the collection of field water quality parameters quarterly at four surface water sites along Mill and Chino Creeks. For efficiency, the work to download, process, and upload the 15-minute temperature and EC data at the wells is included with the PBHSP transducers in the Groundwater Level Monitoring Program 7104.3.

[7] Watermaster's groundwater quality monitoring program includes annual sampling at the 21 HCMP monitoring wells and triennial monitoring at the 17 PBHSP wells as part of the basin-wide monitoring program to be used for Watermaster's various purposes and characterization of water quality.

[8] An as-needed field budget is provided in the event that Watermaster staff needs assistance in completing the water quality sampling program during the target monitoring period of July 2024 through October 2024. The field work will be performed on an as-needed basis, as directed by Watermaster staff.

[9] http://geotracker.waterboards.ca.gov/

[9] http://www.envirostor.dtsc.ca.gov/public/

potential impacts to groundwater quality. All data collected are checked for reasonableness and compiled into HydroDaVE's centralized database. Subtasks include:

- Place phone calls, send emails, and attend meetings with the water quality staff of appropriators and other cooperating parties.
- Collect, process, review, and upload hardcopy, spreadsheet, database, and laboratory electronic data deliverables to HydroDaVE.

- Obtain groundwater and surface water quality data for the HCMP. West Yost shall perform the following tasks:
  - Collect and analyze annual groundwater-quality samples from the 21 HCMP monitoring wells, and quarterly groundwater-quality samples from the two USGS National Water-Quality Assessment Program (NAWQA), and two Santa Ana River Water Company (SARWC) wells. Samples are sent to Babcock Laboratories for analysis. Subtasks include:
    - Schedule field work and coordinate with analytical laboratory.
    - Perform field work. Field work follows the SOPs defined in the 2014 HCMP Work Plan.
    - Process, QA/QC, and upload field and laboratory data to HydroDaVE.
- Obtain groundwater-quality samples for the emerging contaminants in the February 2024 ECMP at about 26 monitoring wells. West Yost shall perform the following tasks[11]:
  - Schedule field work and coordinate with analytical laboratory.
  - Process, QA/QC, and upload field and laboratory data to HydroDaVE.
- Collect and analyze quarterly surface-water quality grab samples at two specified surface-water stations on the Santa Ana River. Samples are sent to Eurofins Eaton Analytical Laboratories for analysis. Subtasks include:
  - Schedule field work and coordinate with analytical laboratory.
  - Perform field work. Field work follows the SOPs defined in the 2014 HCMP Work Plan.
  - Process, QA/QC, and upload field and laboratory data to HydroDaVE.
- Collect, compile, review, and upload the following surface water data to HydroDaVE twice per year:
  - Daily discharge and water quality data from POTW discharge locations upstream of Prado Dam.
  - Surface water discharge at six USGS gaging stations along the Santa Ana River and tributaries upstream of Prado Dam.

[11] Given that the private wells and monitoring wells will already be sampled as part of the routine monitoring efforts, the additional labor cost for the ECMP sampling and data management is nominal. The primary costs for the ECMP in task 7502 is for the laboratory analysis of the samples.

  - Perform quarterly downloads of data logger at one site in Chino Creek of 15-minute measurements of level and temperature.
- As-needed support subtasks to characterize water quality, which may include:
  - Create time-history charts of water-quality constituents (e.g., total dissolved solids [TDS] and nitrate-nitrogen).
  - Create maps showing the spatial distribution of water-quality constituents from sampling or point-sources of concern.
  - Perform analysis of water-quality exceedances of Maximum Contaminate Levels (MCLs) at private wells.

Deliverables

West Yost shall deliver the following to Watermaster no later than the date or dates indicated:

- All groundwater-quality data from the key well sampling program will be uploaded to HydroDaVE by December 31, 2024.
- All available groundwater-quality data collected from Chino Basin appropriators and cooperators for the January 1, 2024 to June 30, 2024 period will be uploaded to HydroDaVE by October 31, 2024.
- All available groundwater-quality data collected from Chino Basin appropriators and cooperators for the July 1, 2024 to December 31, 2024 period will be uploaded to HydroDaVE by April 30, 2025.
- All annual groundwater-quality data collected at the 21 HCMP monitoring wells, during August 2024 will be uploaded to HydroDaVE by September 30, 2024.
- All quarterly groundwater-quality data collected at the two NAWQA and two SARWC wells during July 2024, October 2024, January 2025, and April 2025, will be uploaded to HydroDaVE by August 31, 2024, November 30, 2024, February 28, 2025, and May 31, 2025, respectively.
- All quarterly surface water-quality data collected at the two Santa Ana River sites during July 2024, October 2024, January 2025, and April 2025, will be uploaded to HydroDaVE by August 31, 2024, November 30, 2024, February 28, 2025, and May 31, 2025, respectively.
- All POTW surface water quality and discharge data for POTWs, and discharge data for the USGS gaging stations for January 2024 through September 2024 will be uploaded to HydroDaVE by November 30, 2024, and for October 2024 through December 2024 will be uploaded to HydroDaVE by February 28, 2025.

7104.3, 7104.8, 7104.9 – PE1: COMPREHENSIVE MONITORING PROGRAM

Groundwater-Level Monitoring Program

	Cost Estimate
Consultant Labor	$252,941
Other Direct Costs	$44,860
Total	**$297,801**

Rationale

The OBMP, the Peace Agreements, and the Implementation Plan all call for a key well monitoring program for groundwater levels as part of Program Element 1. The data generated in Program Element 1 are used for the Biennial State of the Basin Report, Hydraulic Control demonstrations, land-subsidence monitoring, Groundwater Model development and recalibration, material physical injury assessments, the periodic assessment of Safe Yield, the estimation of storage change, evaluating the impacts of desalter production on nearby private wells, the California Statewide Groundwater Elevation Monitoring (CASGEM) Program,[12] the Triennial Ambient Water Quality Recomputation, and the monitoring of water levels near riparian habitat in Prado Basin to evaluate potential impacts from Peace II Agreement activities.[13] Hydraulic Control demonstrations and the Triennial Ambient Water Quality Recomputation are required by the Basin Plan.[14] The groundwater-level monitoring program, as currently implemented, meets the minimum requirements for all the above uses.

Scope of Work

West Yost shall perform the following tasks:

- Collect and compile groundwater-level measurements from about 1,200 wells. Of the 1,200 wells, about 130 wells are equipped with transducers that measure water levels every 15-minutes that are visited and downloaded quarterly by West Yost and Watermaster field staff. At about 50 wells groundwater-level measurements are measured by Watermaster staff monthly. At about 1,000 wells in and immediately adjacent to the Chino Basin, groundwater-level measurements are measured by appropriators and cooperators, and the data are collected by West Yost or are provided to West Yost from the Watermaster. All data are checked for reasonableness regarding historical data at the well, converted from

[12] The California Department of Water Resources (DWR) developed the CASGEM Program in accordance with California State Senate Bill SB 6, which was passed in November 2009. CASGEM is a comprehensive groundwater-elevation monitoring program that utilizes locally implemented monitoring programs to track seasonal and long-term groundwater elevations in the state's alluvial groundwater basins and subbasins, as defined in DWR Bulletin 118. Pursuant to California Water Code Section 10927, Watermaster submitted an application to the DWR in the fall of 2010 to become the monitoring entity for the Chino and Cucamonga Groundwater Subbasins.

[13] Pursuant to Mitigation Measure 4.4-3 in the Peace II CEQA SEIR, monitoring described in the Adaptive Management Plan for the PBHSP is implemented to ensure that Peace II Agreement activities to not adversely impact Prado Basin riparian habitat.

[14] The Hydraulic Control demonstrations and the Triennial Ambient Water Quality Recomputation are salt-management requirements of the Basin Plan: http://www.swrcb.ca.gov/santaana/water_issues/programs/basin_plan/docs/chapter5.pdf

depth-to-water to groundwater-level elevation, and compiled into the centralized HydroDaVE database. Sub-tasks include:

- Schedule field work for West Yost field staff.
- Perform field work to download and maintain approximately 100 transducers for various monitoring wells in Watermaster's monitoring network. (Field work follows the Standard Operating Procedures [SOPs] defined in the 2014 HCMP Work Plan.)
- Purchase and install replacement transducers and direct-read cables as needed for all wells in the transducer monitoring programs.
- Perform field work on an as-needed basis[15] to download transducer data from 30 wells routinely downloaded by Watermaster staff.
- Review and upload manual groundwater-level measurements collected by Watermaster staff monthly to HydroDaVE.
- Process, review, and upload transducer data downloaded quarterly by West Yost staff into HydroDaVE.
- Process, review, and upload cooperator groundwater-level measurements collected by West Yost to HydroDaVE.
- Review and upload transducer data downloaded quarterly by Watermaster staff, and Appropriative pool water-level measurements collected by Watermaster staff to HydroDaVE.
- Annual re-evaluation of the key well program due to abandoned and destroyed wells.
- Submittal of groundwater-level data collected at 46 wells to the Chino and Cucamonga CASGEM program[16] on a biennial basis (fall and spring).
- Help coordinate and contract as-needed well maintenance and rehabilitation services for wells in the monitoring network.

Deliverables

West Yost shall deliver the following to Watermaster no later than the date or dates indicated:

- All available groundwater-level data collected manually in the field or downloaded from transducers for the period of July 1, 2024 through September 31, 2024 will be uploaded to HydroDaVE by October 15, 2024.

[15] An as-needed budget is provided in the event that Watermaster staff needs assistance in completing the transducer downloads during the target monitoring period for each quarterly download event. The quarterly download of all wells should be completed during the first month at the beginning of each FY quarter—July 2024; October, 2024; January 2025; and April, 2025. Field work will be performed on an as-needed basis, as directed by Watermaster staff.

[16] Watermaster is the designated Monitoring Entity for the Chino and Cucamonga Basins CASGEM program. CASGEM is a mandated statewide monitoring and reporting program for the entire State of California, per the amended California State Water Code SBx7-6 in November 2009.

- All available groundwater-level data collected manually in the field or downloaded from transducers for the period of October 1, 2024 through December 31, 2024 will be uploaded to HydroDaVE by January 15, 2025.
- All available groundwater-level data collected manually in the field or downloaded from transducers for the period of January 1, 2025 through March 31, 2025 will be uploaded into HydroDaVE by April 7, 2025.
- All available groundwater-level data collected manually in the field or downloaded from transducers for the period of April 1, 2025 through June 10, 2025 will be uploaded to HydroDaVE by June 30, 2025.
- All available groundwater-level data collected from appropriators in the Chino Basin for the April 1, 2024 through June 30, 2024 period will be uploaded to HydroDaVE by September 15, 2024.
- All available groundwater-level data collected from appropriators in the Chino Basin for the July 1, 2023 through September 30, 2023 period will be uploaded to HydroDaVE by December 15, 2023.
- All available groundwater-level data collected from appropriators in the Chino Basin for the October 1, 2024 through December 31, 2024 period will be uploaded to HydroDaVE by March 15, 2025.
- All available groundwater-level data collected from appropriators in the Chino Basin for the January 1, 2025 through March 31, 2025 period will be uploaded to HydroDaVE by May 31, 2025.
- The fall 2024 CASGEM data submittals will be provided to the DWR by December 31, 2024. The spring 2025 CASGEM data submittals will be provided to the DWR by June 30, 2025.

7402, 7403, 7406, 7408 – PE1: COMPREHENSIVE MONITORING PROGRAM

MZ-1 Ground-Level Monitoring Program

	Cost Estimate
Consultant Labor	$144,969
Other Direct Costs	$87,002
Total	**$231,971**

Rationale

Program Element 4 of the OBMP states that land subsidence and ground fissuring in MZ-1 are not acceptable and, to the extent that the cause is pumping in MZ-1, should be managed to tolerable levels. Watermaster conducts a ground-level monitoring program to support Program Element 4 per the requirements of the Peace Agreement, the subsequently developed and Court-approved Chino Basin Subsidence Management Plan, and the monitoring and mitigation requirements of the Peace II California Environmental Quality Act (CEQA) Supplemental Environmental Impact Report (SEIR).

Scope of Work

West Yost shall perform the following tasks:

- Maintain and replace (if necessary) the existing monitoring equipment at extensometer and well facilities in the MZ-1 Managed Area and the Areas of Subsidence Concern.
- Download, check, and store monitoring data from extensometers, wells, and recharge activities in the MZ-1 Managed Area and Areas of Subsidence Concern.
- Conduct ground-level surveys across:
  - Northwest MZ-1 Area. A vertical survey is recommended in FY 2024/25 because of the ongoing subsidence that is occurring in Northwest MZ-1 and will support the development of a subsidence management plan in Northwest MZ-1.
- Conduct InSAR monitoring of ground motion across western Chino Basin from March 2024 to March 2025 using information collected by the TerraSAR-X satellite.

Deliverables

West Yost shall deliver the following to Watermaster no later than the date or dates indicated:

- All ground-level monitoring data, available as of May 1, 2025, will be uploaded into Watermaster's database by June 30, 2025.

7302, 7306 – PE1: COMPREHENSIVE MONITORING PROGRAM

Prado Basin Habitat Monitoring, Data Analysis and Reporting – 50% IEUA Cost Share

	Cost Estimate[17]
Consultant Labor	$146,160
Other Direct Costs	$13,450
Total	**$159,610**

Rationale

Mitigation Measure 4.4-3 of the Peace II CEQA SEIR (Biological Resources/Land Use & Planning) calls for the IEUA, Watermaster, and the Orange County Water District to form the Prado Basin Habitat Sustainability Committee (PBHSC). The purpose of the PBHSC is to ensure that the Peace II Agreement actions will not significantly or adversely impact the Prado Basin riparian habitat. The responsibilities of the PBHSC are to develop and implement an adaptive monitoring program for the Prado Basin Habitat Sustainability Program (PBHSP) and to prepare annual reports that include recommendations for ongoing monitoring and any adaptive management actions required to mitigate any measured or prospective loss of riparian habitat that is attributable to the Peace II Agreement.

Scope of Work

The PBHSP is implemented as described in the Adaptive Management Plan and the recommendations in the 2022 Annual Report. The PBHSP includes the implementation of a monitoring program and the preparation of an annual report. The monitoring program includes monitoring of riparian habitat and all factors that can affect the riparian habitat such as changes in groundwater levels, surface water discharge, climate, and other factors.[18] This work includes the following:

- Collect, compile, and review the following riparian habitat data:
  - High-resolution air photo of the Prado Basin region in July 2024.
  - Landsat remote sensing data in the Prado Basin region over the 2024 water year.
- Collect, compile, review, and upload the 2024 climatic data to HydroDaVE.
- Analyze data and prepare a draft and final 2024 Annual Report of the PBHSC.
- Prepare a Recommended Scope and Budget of the PBHSP for FY 2025/26.
- Prepare for and participate in PBHSC meetings.

Deliverables

West Yost shall deliver the following to Watermaster no later than the date or dates indicated:

[17] IEUA cost share of $79,805 will partially fund the completion of this task.

[18] The groundwater and surface water monitoring components of the PBHSP are included with Tasks 7103.3 and 7104.3 because the data collected are also used for basin-wide monitoring efforts such as for the Biennial State of the Basin report, groundwater modeling, demonstration of Hydraulic Control, and the triennial Ambient Groundwater Quality Recomputation.

- All riparian habitat and climatic data through water year 2024 uploaded to HydroDaVE by November 30, 2024.
- A Recommended Scope and Budget memorandum for the PBHSP for FY 2025/24 by March 15, 2025
- Draft Annual Report of the PBHSC by May 10, 2025.
- Final Annual Report of the PBHSC by June 10, 2025.

7202 – PE1: COMPREHENSIVE MONITORING PROGRAM

Recharge and Well Monitoring Program: Review Documents for Chino Basin Recycled Water GW Recharge Program

	Cost Estimate
Consultant Labor	$23,496
Other Direct Costs	$0
Total	**$23,496**

Rationale

The IEUA and Watermaster are required to submit specific reports as part of the Chino Basin Recycled Water Groundwater Recharge Program (RWGRP). The RWGRP is being implemented by the IEUA and Watermaster as co-permittees. Annual reporting is performed pursuant to the requirements of the following orders:

- California Regional Water Quality Control Board, Santa Ana Region. Order No. R8-2007-0039. Water Recycling Requirements for Inland Empire Utilities Agency and Chino Basin Watermaster. Chino Basin Recycled Water Groundwater Recharge Program: Phase I and Phase II Projects, San Bernardino County, June 29, 2007.
- California Regional Water Quality Control Board, Santa Ana Region. Monitoring and Reporting Program No. R8-2007-0039 for Inland Empire Utilities Agency and Chino Basin Watermaster. Chino Basin Recycled Water Groundwater Recharge Program: Phase I and Phase II Projects, San Bernardino County, June 29, 2007.
- California Regional Water Quality Control Board, Santa Ana Region. Order No. R8-2009-0057 Amending Order No. R8-2007-0039 for Inland Empire Utilities Agency and Chino Basin Watermaster. Chino Basin Recycled Water Groundwater Recharge Program: Phase I and Phase II Projects, San Bernardino County, October 23, 2009.
- California Regional Water Quality Control Board, Santa Ana Region. Revised Monitoring and Reporting Program No. R8-2007-0039 for Inland Empire Utilities Agency and Chino Basin Watermaster. Chino Basin Recycled Water.

Watermaster prepares reports pertaining to the HCMP with IEUA review. IEUA prepares reports pertaining to the RWGRP with Watermaster review.[19]

Scope of Work

West Yost will review quarterly and annual reports prepared by the IEUA for the RWGRP as well as other reports prepared by the IEUA pursuant to the recharge permit. West Yost will also review other reports or as needed analyses prepared by IEUA per the direction of the Regional Board and the California Department of Drinking Water (DDW), such as five-year engineering reports, and additional monitoring

[19] This is a component of the "Bright-Line Agreement" between Watermaster and the IEUA.

orders or required analyses to demonstrate compliance. West Yost will provide comments and recommendations to the IEUA through the Watermaster as the co-permittee.

Deliverables

West Yost will provide comments on the aforementioned reports and analyses within ten days of their receipt.

5925 – PE1: COMPREHENSIVE MONITORING PROGRAM

Agricultural Production Estimation

	Cost Estimate
Consultant Labor	$11,096
Other Direct Costs	$20,000
Total	**$31,096**

Rationale

The Court's April 28, 2017 order regarding the 2011 Safe Yield reset (Court Order) contains a requirement to "[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 (Court Order p. 16-17).

In FY 2021/22 through FY 2022/23, West Yost worked with Watermaster staff to document Watermaster's process to comply with the Court Order. This documentation included efforts to ensure that all active wells are metered, and if wells cannot be metered, explain why, and describe the alternative methodology used to estimate pumping at these wells. This documentation includes exhibits that, for every known pumping well in the Basin, characterize its attributes (owner, location) and the pumping estimate method (metering or other methods). Annually, the document characterizes existing and new wells added during the reporting year, wells that went out of service, and a list of challenges in obtaining information on wells (access to well site for inspection and meter testing, failure by Parties to report pumping, others).[20]

With approval from Watermaster staff, West Yost hired a subconsultant (Land IQ) in FY 2021/22 to assist with crop surveys and water use estimation for the irrigated crop areas in the Chino Basin to support the development of a water duty method. In FY 2022/23, West Yost developed and documented updated water duty methods to estimate pumping in the Agricultural Pool. Watermaster staff implemented several of West Yost's recommendations in FY 2023/24, including surveying Agricultural Pool wells for power meters as an option to estimate pumping using electricity use. Watermaster staff hired Well Tec Services in FY 2023/24 to inspect, install, and calibrate meters for Agricultural Pool wells in the Chino Basin over the next two years. Watermaster staff will continue efforts to implement West Yost's recommendations and a water duty method for FY 2024/25 to apply to non-minimal producing wells for which production is not metered and reported.

Scope of Work

In FY 2024/25, West Yost will continue to assist Watermaster staff in the development of new information and collection of data from Watermaster parties, Land IQ, and other sources required to estimate Agricultural Pool parties' pumping to implement the water duty method documented in FY 2022/23. This will involve meetings, as-needed consulting, and coordination with Land IQ to implement the water duty estimating procedure, and review of Watermaster staff pumping estimates. West Yost will

[20] This documentation can be found in the annual Data Collection and Evaluation Reports.

also provide as-requested support to Watermaster staff to facilitate the installation and calibration of meters. The scope of this task does not include the data collection review meetings that will be conducted as part of Watermaster's work to implement the April 28, 2017 Court Order.

Deliverables

West Yost will provide guidance and support to Watermaster staff on implementing the water duty computing procedure, attend meetings, reviewing Watermaster staff pumping estimates and meter calibration information as they are produced, and prepare either written or oral comments as directed by Watermaster staff. West Yost's deliverables for as-need requests will be determined with each request.

5965 – PE1: COMPREHENSIVE MONITORING PROGRAM

Support for Implementation of Improved Data Collection and Development of Data Visualization

	Cost Estimate
Consultant Labor	$39,659
Other Direct Costs	$0
Total	**$39,659**

Rationale

Watermaster collects and manages multiple datasets from the Watermaster Parties (Parties) and the IEUA to support the management of the Chino Basin pursuant to the 1978 Judgement, the ongoing implementation of the OBMP, and the regulatory requirements of State and local agencies. Additionally, the IEUA requests and collects analogous datasets from some of the Parties located within IEUA's service area. As such, the Parties sometimes receive duplicate requests for data and information, and the datasets collected separately by Watermaster and the IEUA can contain discrepancies.

In FY 2019/20, Watermaster requested West Yost to develop a recommendation for an improved data collection and management process to eliminate duplicate data requests, avoid discrepancies between collected datasets, and create a centralized location for Watermaster and IEUA to access the data. The recommended process included a centralized portal and database where data are collected and managed by Watermaster monthly or annually using data templates customized for each Party. IEUA would have access to the portal and database to download and review information on its member agencies. From FY 2020/21 through 2023/24, Watermaster began development and implementation of the improved process by developing an online Data Portal for data collection and management, developing data templates for Parties to upload monthly data (production, water levels, water supply), and working with Jurupa Community Services District to beta test the Data Portal. In FY 2023/24, Watermaster and IEUA initiated collaboration with the California Data Collaborative to advance the development of the Data Portal.

For FY 2024/25, West Yost will continue to provide support to Watermaster and the California Data Collaborative in the development of the Data Portal. Additionally, West Yost will evaluate options to develop an online tool to visualize the monthly data that will be loaded into the Data Portal and/or other databases, which is also a request from Watermaster. The objective of this tool is to improve the ability of Watermaster, IEUA, and the Parties to review, verify, and analyze monitoring data.

Scope of Work

West Yost shall perform the following tasks:

- Providing as-needed support to Watermaster staff for the continued development and implementation of the Data Portal and data collection process, including development and review of data-collection templates, provide solutions to potential issues, and assist in describing the new process to the Parties.

- Develop recommendations for the online data visualization tool, refine recommendations with Watermaster staff, and initiate the recommended approach in FY 2024/25. To implement the recommendation, WY will:
  - Attend one meeting with Watermaster staff to discuss the concept for the data visualization tool
  - Develop recommendation for the visualization tool based on Watermaster's inputs
  - Attend one meeting with Watermaster staff to discuss comments on the recommendation for the data visualization
  - Implement the recommended approach

Deliverables

The deliverables and associated schedule will be defined by Watermaster staff upon task kick-off.

7202.2 – PE2: COMPREHENSIVE RECHARGE PROGRAM

General Engineering Services

	Cost Estimate[21]
Consultant Labor	$175,344
Other Direct Costs	$600
Total	**$175,944**

Rationale

Watermaster and the IEUA began implementing the 2013 Amendment to the 2010 Recharge Master Plan (RMPU) in FY 2014/15. The services anticipated in FY 2024/25 include technical support (numerical model simulations, hydraulic calculations, project refinement, conceptual integrity review, etc.) to assist Watermaster and the IEUA in the start-up of the 2013 RMPU projects and evaluate non-2013 RMPU projects, monthly meetings with IEUA and Watermaster staff to review the progress of the RMPU projects, and supporting the implementation of the 2023 RMPU. At Watermaster's request, West Yost will attend quarterly GRCC and RIPComm meetings.

Scope of Work

- Attend GRCC, RIPComm and other meetings with Watermaster and IEUA staffs.
- Support the implementation of the 2023 RMPU, including:
  - Perform as-requested technical support for the start-up of the 2013 RMPU projects
  - Continue the implementation of the Board-requested recharge project analysis
  - Collect MS4 project implementation data from the Parties
  - Annually review the time and effort involved in the collection of information on MS4 project implementation and reassess the value this effort provides
  - Develop a plan to collaborate with MS4 permittees to ensure MS4-compliance projects prioritize recharge
  - Refine and implement of the Renewal and Replacement Plan
- Complete the analysis of the San Sevaine and Etiwanda Debris berms:
  - Documentation of the operation of the two basins and the condition of the existing conservation berm in each basin.
  - Figures illustrating the range of flows/storage/water levels at the Etiwanda and San Sevaine basins.
  - Figures showing alternative cross sections for new or improved conservation berms.
  - Evaluation of the advantages and disadvantages of the alternative berm cross sections, including a no-project alternative.

[21] Carryover funds of will partially fund the completion of this task.

- Preliminary construction and life cycle costs for berm alternatives, including a no-project alternative.
- Recommendation of a preferred alternative for the conservation berms.
- Recommendation of next implementation steps.

Deliverables

Identified in rationale and scope-of-work above.

7303 – PE3/5: WATER SUPPLY PLAN – DESALTERS

Engineering Services

	Cost Estimate
Consultant Labor	$16,180
Other Direct Costs	$0
Total	**$16,180**

Rationale

The 2004 Basin Plan Amendment approved by the Regional Board and the State Water Resources Control Board established the "maximum benefit" objectives and established certain milestones that must be achieved by Watermaster and the IEUA. To demonstrate compliance with the Regional Board order, Watermaster and the IEUA agreed to achieve Hydraulic Control. The well fields of the Chino Basin Desalter Authority (CDA) are critical to the achievement and maintenance of Hydraulic Control and the demonstration of maximum benefit. The CDA periodically requests from the Watermaster technical assistance, data, information, and attendance at meetings with regulators to support desalter expansion and operations, and the development and implementation of a monitoring and reporting plan for the CDA clean-up project funded by Prop 1 Grant Agreement No. D1712507.

Scope of Work

West Yost shall perform the following tasks at the discretion of the Watermaster General Manager:

- Review and prepare comments on CDA status reports.
- Perform ad hoc analyses requested by the Watermaster General Manager or the CDA.
- Fulfill requests for hydrologic data, model files, PowerPoint presentations, maps, charts, technical reports, etc., as requested by the CDA or its consultants.
- Attend meetings and conference calls, as requested by the CDA or its consultants.

Deliverables

West Yost shall deliver the following, at the discretion of the Watermaster General Manager:

- Written comments on the CDA status reports, as requested by the Watermaster general manager.
- PowerPoint presentations, maps, charts, model files, data, technical reports, and recommendations as requested by the CDA.
- Written summaries of meetings.

7402 – PE4: MANAGEMENT ZONE STRATEGIES

MZ-1: Data Analyses, Reports, Meetings, and Administration

	Cost Estimate
Consultant Labor	$134,646
Other Direct Costs	$10,375
Total	**$145,021**

Rationale

Program Element 4 of the OBMP states that land subsidence and ground fissuring in MZ-1 are not acceptable and, to the extent that the cause is pumping, should be managed to tolerable levels. Watermaster conducts a ground-motion monitoring program to support this Program Element per the requirements of the Peace Agreement, the subsequently developed Court-approved MZ-1 Subsidence Management Plan (MZ-1 Plan) and its revisions (2015 Chino Basin Subsidence Management Plan), and the monitoring and mitigation requirements of the Peace II CEQA SEIR. The Subsidence Management Plan calls for the annual evaluation of data derived from the monitoring program and revisions to the Subsidence Management Plan and/or the monitoring program if necessary.

Scope of Work

West Yost shall perform the following tasks:

- Prepare the draft FY 2023/24 Annual Report for the Ground Level Monitoring Program (GLMP).
- Finalize the FY 2023/24 Annual Report for the GLMP based on comments received from the Ground Level Monitoring Committee (GLMC).
- Analyze all data collected during FY 2024/25 under the GLMP to support the preparation of the FY 2024/25 Annual Report for the GLMP. These data include groundwater levels, groundwater production, aquifer recharge, aquifer-system deformation, tectonic deformation, pumping test results, ground-level surveys, horizontal strain, and InSAR.
- Conduct meetings with the GLMC to review the data and analyses and develop a list of potential activities and cost estimates for FY 2025/26.

Deliverables

West Yost will deliver the following to Watermaster no later than the date or dates indicated:

- The FY 2023/24 Annual Report for the GLMP by November 1, 2024, featuring charts and maps of monitoring data, conclusions regarding the protective nature of the Subsidence Management Plan, the Watermaster-approved activities for the next fiscal year (FY 2025/26), and the revised Subsidence Management Plan, if revisions are necessary.
- Recommended scope of services and budget for the GLMP in FY 2025/26 by April 1, 2025 to support the Watermaster's budgeting process.

7402.1 – PE4: MANAGEMENT ZONE STRATEGIES

MZ-1: Develop a Subsidence Management Plan for Northwest MZ-1

	Cost Estimate
Consultant Labor	$16,656
Other Direct Costs	$0
Total	**$16,656**

Rationale

The MZ-1 Subsidence Management Plan (MZ-1 Plan) states that if data from existing monitoring efforts in the Areas of Subsidence Concern indicate the potential for adverse impacts due to subsidence, Watermaster will revise the MZ-1 Plan in an attempt to avoid adverse impacts. Land subsidence in Northwest MZ-1 was first identified as a concern in the MZ-1 Summary Report (2006) and in the MZ-1 Plan (2007). Since then, Watermaster has been monitoring subsidence in this area via InSAR, leveling surveys, and groundwater-levels with pressure transducers at selected wells. Of particular concern, subsidence in Northwest MZ-1 has occurred differentially across the San Jose Fault—the same pattern of differential subsidence that occurred in the MZ1 Managed Area during the time of ground fissuring. Watermaster, consistent with input from the Ground Level Monitoring Committee (GLMC), determined that the MZ-1 Plan needs to be updated to include a *Subsidence Management Plan for Northwest MZ-1* with the long-term objective of minimizing or abating the occurrence of the differential land subsidence.

Developing a Subsidence Management Plan for Northwest MZ-1 is a multi-year effort. The GLMC oversees a work plan[22] to execute this effort. The scope of work below describes the next year of the work plan.

Scope of Work

West Yost shall perform the following tasks to implement the work plan to develop a Subsidence Management Plan for Northwest MZ-1:

- **Monitoring**. The established monitoring program of piezometric levels and pumping at wells in Northwest MZ 1 will continue through various techniques, including: (i) SCADA based monitoring by the Monte Vista Water District; (ii) monitoring of piezometric levels via sonar; (iii) monitoring of piezometric levels via pressure transducers at City of Pomona production wells; and (iv) manual measurements of piezometric levels. These data, along with data collected from the PX, will improve the understanding of the hydrogeology in Northwest MZ 1, will be used to develop the Subsidence Management Plan for Northwest MZ 1, and in the future, will be used to adapt the Chino Basin Subsidence Management Plan, as appropriate.

[22] CBWM. 2015. Workplan to Develop a Subsidence Management Plan for the Northwest MZ-1 Area.

In this subtask, all data is collected, compiled, checked, and analyzed every three months. Charts and data graphics of pumping, piezometric levels, and aquifer system deformation will be updated to support the data collection and analysis.

- **Construct and Calibrate Additional 1D Models Across Western Chino Basin.** The ongoing 2025 SYR involves the development of multiple projection scenarios of future hydrology, pumping, managed recharge, and use of managed storage in the Chino Basin. These projection scenarios will be simulated with an updated CVM. The CVM results will be evaluated for MPI and then used to evaluate the current Safe Yield of the Chino Basin. The evaluation of MPI associated with land subsidence will be performed using the 1D Models in Northwest MZ-1 and in other Areas of Subsidence Concern. In FY 2024/25, the GLMC can provide the Watermaster with valuable advice on the following:
  - The development of the 2025 SYR scenarios to ensure a plausible range of future conditions are simulated.
  - Interpretation of the 1D Model results re: potential subsidence-related MPI associated with the Safe Yield estimates.
  - How the model results can be used to evaluate the minimum recharge quantity of supplemental water in MZ-1 as required by the Peace II Agreement.

Providing GLMC advice will be conducted in conjunction with the 2025 SYR and can be discussed at regularly scheduled GLMC meetings at no additional cost.

Deliverables

West Yost shall deliver the following to Watermaster no later than the date or dates indicated:

- All monitoring data, available as of May 1, 2025, will be uploaded into Watermaster's database by June 30, 2025.

7502 – PE6/7: COOPERATIVE EFFORTS/SALT MANAGEMENT

As-needed consulting for water quality under PE6/7

	Cost Estimate
Consultant Labor	$144,982
Other Direct Costs	$3,600
Total	**148,582**

Rationale

In the Judgment, Watermaster is provided with discretionary powers to address water quality issues in the basin: "Watermaster, with the advice of the Advisory and Pool Committees, is granted discretionary powers in order to develop an optimum basin management program for Chino Basin, including both water quantity and quality considerations." In the Implementation Plan of the Peace Agreement, Watermaster committed to certain responsibilities under Program Elements 6 and 7.

Program Element 6 - Develop and Implement Cooperative Programs with the Regional Board and Other Agencies to Improve Basin Management. Pursuant to Program Element 6, Watermaster has committed resources to managing water quality contaminants as follows:

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

Much of the work listed above was started by the Chino Basin Water Quality Committee (WQC) from 2003 through 2010. Since 2010, Watermaster has supported ongoing monitoring and analysis to ensure the efforts to manage water quality contamination under PE6 are achieving the intended outcomes and identify any outcomes that may be of concern. This primarily involves analyzing water quality data to assess the movement of identified plumes in the Basin, but also includes as-needed work to support the Regional Board or others in assessing groundwater quality conditions in and around the plumes.

Program Element 7 – Salt Management Program. Pursuant to Program Element 7, the Watermaster and IEUA implement the Chino Basin maximum-benefit salt and nutrient management plan (Maximum Benefit SNMP). Compliance with the Maximum Benefit SNMP is explicitly required by the Water Quality Control Plan for the Santa Ana River Basin[23] (Basin Plan). The Maximum Benefit SNMP was developed to enable maximum beneficial reuse of recycled water in the Chino Basin. The Basin Plan states provides

[23] http://www.swrcb.ca.gov/santaana/water_issues/programs/basin_plan/docs/chapter5.pdf

that if the Santa Ana Water Board determines that the maximum benefit commitments are not being implemented effectively in accordance with the schedule shown in Table 5-8a of the Basin Plan, then maximum benefit is not demonstrated, and the 'antidegradation' TDS and nitrate-nitrogen objectives for the Chino 1, 2, and 3 and Cucamonga Management Zones apply." In this situation, the Santa Ana Water Board would require mitigation for TDS and nitrate-nitrogen discharges to these management zones that took place in excess of the antidegradation limits, retroactively to January 2004. In other words, all salt loading to the Basin that has occurred to the Chino Basin from recycled water use and imported water recharge would have to be offset. The commitments include:

1. The implementation of a surface-water monitoring program.
2. The implementation of a groundwater monitoring program.
3. The expansion of the Chino-I Desalter to a capacity of 10 million gallons per day (mgd) and the construction of the Chino-II Desalter with a design capacity of 10 mgd.
4. The additional expansion of desalter capacity (to 40 mgd) pursuant to the OBMP and the Peace Agreement, the timing for which is tied to the IEUA's agency-wide effluent concentration)[24]
5. The completion of the groundwater recharge facilities included in the 2001 Watermaster Recharge Master Plan.
6. The management of recycled water quality to ensure that the IEUA agency-wide, 12-month running average volume-weighted effluent TDS concentration does not equal or exceed 550 mgl and the TIN concentration does not equal or exceed 8 mgl.
7. The management of basin-wide, volume-weighted TDS and nitrate concentrations in artificial recharge to less than or equal to the maximum-benefit objectives on a five-year volume-weighted basis.
8. The achievement and maintenance of the "hydraulic control" of groundwater outflow from the Chino Basin, specifically from the Chino-North GMZ, in order to protect Santa Ana River water quality and downstream beneficial uses.
9. The determination of ambient TDS and nitrate concentrations of Chino and Cucamonga GMZs every three years.

The majority of the ongoing work to comply with the nine commitments is performed under other program elements, or by IEUA and the CDA.

To demonstrate compliance, Watermaster prepares the Maximum Benefit Annual Report. The report describes the status of compliance with each of the nine maximum benefit commitments defined in the Basin Plan. The annual report is due by April 15th each year.

[24] The expansion to provide an additional 20 mgd of desalter pumping capacity was initially required to occur when the 12-month running average for the IEUA agency-wide effluent TDS concentration exceeded 545 mgl for three consecutive months. The expansion has occurred even though this water quality condition has never been triggered and has instead been driven by the implementation of the Peace II Agreement and achieving hydraulic control.

This task is utilized to prepare the Maximum Benefit Annual Report and perform annual compliance demonstrations and provide other as-needed support on Maximum Benefit SNMP implementation or compliance. In FY 2024/25, the Watermaster needs to update the monitoring program work plan. The update is required by the Regional Board to address a planned amendment to the Maximum Benefit SNMP (see below description for task 7510) and to address updated requirements of the region-wide SNMP in the Basin Plan to address data gaps. The work plan update must be completed by December 2025 to meet the regulatory deadline. The goal for FY 2024/25 is to complete the draft 2025 Maximum Benefit Workplan.

Scope of Work

For FY 2024/25, West Yost shall perform the following tasks:

- Consulting for Program Element 6 to continue efforts to track identified contaminant plumes in the Chino Basin.
  - South Archibald Plume and Chino Airport Plume. Subtasks include:
    - Prepare semi-annual plume status reports for the Watermaster Pools, Advisory Committee, and Board meetings.
    - Assist Watermaster with coordination and negotiation with the plume responsible parties and Regional Board.
    - Provide technical oversight and review of plume investigation and remediation reports.
    - Prepare as-requested technical analyses, such as analyze groundwater-elevation and quality data, develop revised VOC plume maps, and/or perform groundwater model runs to demonstrate the capture of the plume by the desalter well fields.
  - Other point sources of concern. Other point sources of concern include but are not limited to, the General Electric Flatiron Facility, General Electric Test Cell Facility, Rialto-Colton perchlorate plume, the Alumax Recycling Facility, Kaiser Steel Mill, Milliken Landfill, and the Stringfellow site. Subtasks could include:
    - Provide technical oversight and review of investigations and remediation reports.
    - Prepare annual plume status report for the Watermaster Pools, Advisory Committee, and Board meetings.
    - Prepare as-requested technical analyses, such as analyze groundwater-elevation and quality data, review potential impacts to Chino Basin water quality, and/or develop revised plume delineations.
- Support for implementation of Program Element 7
  - Prepare the 2024 Maximum Benefit Annual Report. This includes:
    - Analyze and interpret the data and compare with metrics. All data required for reporting in the 2024 Maximum Benefit Annual Report shall be analyzed by West Yost and used to support the demonstration of compliance with the Maximum-Benefit commitments contained in the Basin Plan.

- Reporting. West Yost shall prepare a draft 2024 Maximum Benefit Annual Report. This report will be submitted to Watermaster and the IEUA for review. Comments will be incorporated, and West Yost shall prepare the final 2024 Maximum Benefit Annual Report for submittal to the Regional Board. West Yost will respond to comments from the Regional Board and other stakeholders, as necessary.
- Ad-hoc meetings. Prepare for and attend meetings with Watermaster staff, IEUA staff, and/or Regional Board staff, as requested, to present the draft and final 2024 Maximum Benefit Annual Reports.

— Prepare the 2025 Maximum Benefit Monitoring Program Workplan Update, which includes:

- Review and analyze current monitoring network and data to address data gaps identified as part of 2021 Ambient Water Quality study; address data gaps identified as part of study to support the Basin Plan amendment to update the Maximum Benefit SNMP; and assess anticipated data gaps from loss of private wells in southern Chino Basin.
- Define approaches to fill data gaps
- Prepare recommendations, cost, schedule to fill data gaps
- Update monitoring work plan
- Coordinate, as needed, with the Santa Ana Water Board to ensure acceptance for the workplan.

— As-needed support for implementation of PE-6 and PE-7:

- Prepare as-requested technical analyses
- Prepare for and attend as-requested meetings with the Regional Board and others

Deliverables

West Yost will deliver the following to Watermaster:

- Semi-annual status reports for the Archibald and Chino Airport plumes in October 2024 and April 2025.
- Annual status reports for the remaining identified plumes in October 2024.
- Draft and final 2024 Maximum Benefit Annual Report by April 2025.
- Draft 2025 Maximum Benefit Workplan by June 2025
- Other as-needed deliverables

7510 – PE6/7: COOPERATIVE EFFORTS/SALT MANAGEMENT

Update IEUA's Recycled Water Permits/Maximum Benefit Salinity Management Plan for the Chino Basin – IEUA Cost Share

	Cost Estimate[25]
Consultant Labor	$18,984
Other Direct Costs	$2,076
Total	**$21,060**

Rationale

In 2004, The Regional Board amended the Basin Plan to incorporate the maximum benefit SNMP for the Chino Basin to incorporate numerically higher, maximum-benefit-based TDS and nitrate objectives for the Chino-North groundwater management zone. The maximum benefit objectives created assimilative capacity for TDS and increased the nitrate objective to enable the cost-efficient, maximum reuse of recycled water for irrigation and recharge. The SNMP includes nine maximum benefit commitments that Watermaster and the IEUA must implement to obtain continued access to the maximum-benefit objectives. Maximum benefit commitment number 6, specifies:

> "*Within 60 days after the IEUA 12-month running average effluent concentration (measured as an average for all IEUA wastewater treatment facilities) for TDS exceeds 545 mg/L for 3 consecutive months, or the 12-month running average total inorganic nitrogen (TIN) concentration (measured as an average for all IEUA wastewater treatment facilities) exceeds 8 mg/L in any month, the IEUA shall submit to the Regional Board a plan and time schedule for implementation of measures to insure that the 12-month running average agency wastewater effluent quality does not exceed 550 mg/L and 8 mg/L for TDS and TIN, respectively. The Plan and schedule are to be implemented upon Regional Board approval.*"

In 2015, the TDS concentration in recycled water produced by the IEUA approached but did not reach the regulatory limits that would require the IEUA and Watermaster to submit a plan and schedule to manage recycled water TDS concentrations. Although the TDS concentration declined from the 2015 peak before exceeding the regulatory limit, it was an important indicator that the TDS concentration of recycled water is likely to approach or exceed the discharge limitation and trigger the planning for recycled water quality improvements during the next prolonged dry period. Given the potential cost of implementing recycled water quality improvements for what might only be short-term exceedances of the 12-month running average limitation, the IEUA and Watermaster petitioned the Regional Board to modifying the recycled water permits and the Basin Plan to allow for a longer-term averaging period for TDS concentrations.

Beginning in 2017, to obtain approval from the Santa Ana Water Board for the Basin Plan modifications, and any associated permit modifications, the IEUA and Watermaster began a detailed evaluation of the TDS and nitrate concentration impacts to Chino Basin by developing the 2020 Chino Basin Water Quality Model. The Technical work was completed in December 2021 and the results were used to develop a

[25] IEUA cost share of $10,530 and Carryover funds of $10,530 will fund the completion of this task.

proposed regulatory compliance plan. A Regulatory Compliance Proposal was completed and delivered to the Santa Ana Water Board in March 2022. The Santa Ana Water Board staff approved the Regulatory Compliance Proposal in July 2022 and requested that Watermaster and IEUA partner with the Jurupa Community Services District (JCSD) who had also completed a regulatory compliance proposal in 2022 that would also require amendments to the Chino Basin Maximum Benefit SNMP in Basin Plan. The extra costs to combine the Basin Plan efforts into one amendment are being covered directly by the JCSD.

Since the approval of the Regulatory Compliance Proposal in 2022, Watermaster and IEUA have been working with the Santa Ana Water Board staff to prepare documents to support the Basin Plan amendment. The schedule to complete the Basin Plan amendment has been delayed by availability of Santa Ana Water staff to advance and complete the work, including expanded efforts to address new stakeholder outreach regulations. Based on the latest progress, West Yost anticipates that most of the work to prepare the Basin Plan amendment documents for the Santa Ana Water Board can be completed by June 2024. However, those documents will be in draft form only and will still need to go through full review by the Santa Ana Water Board staff (including their legal counsel) and the State Water Resources Control Board (State Board) peer review process. Thus, additional work will be required in FY 2024/25 to address comments from the Santa Ana Water Board and/or State Board peer reviewers, finalize and ensure that these documents are accessible to those with disabilities including those who are visually impaired (as required by the Americans with Disabilities Act [ADA]).

It is anticipated that the Santa ana water board will adopt the Basin Plan amendment between December 2024 and March 2025. Following adoption, Santa Ana Water Board staff will also request support through completion and adoption of the Basin plan amendment by the State Board and the Office of Administrative Law (OAL). Adoption by the State Board and approval by the OAL is not likely to occur until sometime December 2025, though limited is expected in FY 25/26 to support the State Board and OAL process.

Scope of Work

West Yost shall perform the following tasks in FY 2024/25:

- Update the draft Basin Plan amendment documents (Staff Report, Substitute Environmental Document, Economic Analysis, Resolution, Resolution, Peer Review Package) based on comments received from Santa Ana Water Board staff and selected State Board scientific peer reviewers.
- Ensure that all Basin Plan amendment documents are in compliance with the ADA, including selecting and coordinating with an ADA subconsultant.
- Prepare draft PowerPoint presentation for Santa Ana Water Board staff to present the Basin Plan amendment to their Board.
- Support development of the Administrative Record.
- Regular coordination with Santa Ana Water Board staff to keep the process moving forward.
- Stakeholder outreach, as needed.
- Perform monthly project management activities, including participate in progress status calls with Watermaster and IEUA staff.

Deliverables

The FY 2024/25 deliverables for this work include:

- Final Basin Plan amendment support documents, including the SED, Staff Report, Economic Analysis, and other supporting documentation. Including, ADA compliant Basin Plan amendment documents.
- PowerPoint presentations and handout materials for any project team, Santa Ana Water Board, and stakeholder meetings.

7511 – PE6/7: COOPERATIVE EFFORTS/SALT MANAGEMENT

As-needed services to support Watermaster in its participation in Santa Ana Watershed Project Authority Task Forces

	Cost Estimate
Consultant Labor	$26,486
Other Direct Costs	$581
Total	**$27,067**

Rationale

The Santa Ana Watershed Project Authority (SAWPA) administers various multi-stakeholder efforts to monitor and analyze water quality in the Santa Ana River Watershed in collaboration with the Santa Ana Regional Water Quality Control Board (Santa Ana Water Board). Two of the task forces that generate information relevant to Chino Basin OBMP efforts under PE6 and PE7 are the Basin Monitoring Program Task Force (BMPTF) and the Emerging Constituents Task Force (ECTF). The BMPTF is focused on compliance with watershed-wide the salt and nutrient plan defined in the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan), such as computing ambient water quality and performing the Wasteload Allocation analysis. These activities have the potential to impact permitting for recycled water use. The ECTF focuses on the investigation of emerging constituents, tracking regulations, and implementing collaborative approaches to compliance and water quality protection. IEUA and Watermaster are members of these Task Forces.

Some of the key activities performed by the Task Forces include:

- Collection and compilation of data used to support the management of water quality in the Santa Ana River Watershed.
- Preparation of the Annual Report of Santa Ana River water quality.
- Preparation of the Annual EC Sampling Report.
- Periodic recomputation of ambient water quality for the Santa Ana River Watershed groundwater management zones (GMZs).
- Periodic review and evaluation of the wasteload allocation for recycled water discharges to the Santa Ana River and its tributaries.
- Periodic assessment of monitoring gaps in the Watershed.
- Periodic assessment and/or review of proposed changes to the Basin Plan SNMP.
- Monthly Task Force meetings.

SAWPA contracts with technical and policy consultants to support the BMPTF and ECTF to implement various studies and activities. The technical and policy work is reviewed at monthly Task Force meetings. The outcomes of the work performed by the Task Forces have direct implications for the planning activities of the Watermaster and IEUA parties.

During FY 2024/25, the BMPTF will be performing the following activities:

- Periodic (monthly to quarterly) meetings to review and discuss current and future Basin Plan SNMP implementation activities.
- Implement groundwater and surface water monitoring plans.
- Develop tools in support of performing annual data collection.
- Collect and review 2022 through 2024 groundwater data.
- Update storage models for selected groundwater management zones.
- Other as-needed work to support the Task Force's mission and objectives.

During FY 2024/25, the ECTF will be performing the following activities:

- Quarterly meetings to review and discuss current and future Basin Plan SNMP implementation activities.
- Implementation of EC monitoring program.
- Advancing discussions on PFAS regulations, and other emerging contaminant regulations.

Scope of Work

West Yost will perform as-requested services to support the Watermaster and IEUA's participation in the Task Force activities. The budget anticipates the following as-requested services for FY 2024/25:

- Attendance at up to 12 monthly Task Force meetings.
- Preparation of Task Force meeting summaries for information relevant to Watermaster.
- Review and comment on interim and final project deliverables prepared by the Task Forces or its consultants.
- Attendance at as-needed meetings with Watermaster and IEUA staff to discuss Task Force draft project deliverables.
- As-needed coordination with Watermaster and IEUA staff on Task Force activities that arise during the year.

Deliverables

The FY 2024/25 deliverables for this work could include:

- Task Force meeting summaries.
- Draft and final review comments on interim and final deliverables prepared by the Task Force or its consultants.
- Other as-requested deliverables defined by Watermaster.

7517 – PE6/7: COOPERATIVE EFFORTS/SALT MANAGEMENT

Implement Chino Creek Monitoring Program – IEUA Cost Share

	Cost Estimate
Consultant Labor	$64,495
Other Direct Costs	$2,654
Total	**$67,149**

Rationale

Pursuant to the Federal Clean Water Act (CWA) Section 303(d) and 305(b), the Santa Ana Regional Water Quality Control Board (Santa Ana Water Board) is required to periodically assess the water quality of the surface water bodies in the Santa Ana Watershed and publish a list of surface waters that do not meet the water quality standards for beneficial uses and objectives defined in the Santa Ana River Basin Plan (Basin Plan). The current assessment and listing determinations for the Santa Ana Watershed are included in the 2024 California Integrated Report (2024 Integrated Report).

Based on the results of the assessment in the 2024 Integrated Report, the team responsible for the 2024 Integrated Report determined that there is insufficient data to determine water quality conditions within reach 1B of Chino Creek (Chino Creek 1B). Specifically, there is insufficient data to make beneficial use support determination, but the limited data indicates that beneficial uses may be potentially threatened (305[b] Category 3). Without more data, Chino Creek 1B could be listed as impaired in future Integrated Reports, which will require an extensive, multi-stakeholder effort to develop and implement a Total Maximum Daily Loads (TMDL) program and could impact recycled water permits and uses in the Chino Basin. The Santa Ana Water Board expressed that more data is needed to assess water quality conditions compared to objectives in future Integrated Reports. Recognizing the TMDL impact on IEUA and Watermaster recycled water activities, the Santa Ana Water Board requested Watermaster and IEUA to develop a surface water monitoring program to characterize conditions along Chino Creek. Watermaster and IEUA understand that it is crucial to implement a monitoring program to improve understanding of existing conditions in Chino Creek 1B and upstream reaches, and drivers of these water quality conditions.

During FY 2022/23, Watermaster and IEUA collaborated with Santa Ana Water Board staff to develop the Chino Creek Monitoring Program Work Plan and the Quality Assurance Project Plan (QAPP) that will satisfy the requirements of the California Clean Water Act Section 303 (d) List (Listing Policy) for Chino Creek. The next steps are to implement the recommended Chino Creek Monitoring Program in FY 2024/25 through FY 2026/27.

Scope of Work

In FY 2024/25, West Yost will perform the following tasks in accordance with the Chino Creek Monitoring Program Workplan:

- Perform 12 monthly surface water sampling events at the recommended surface water sites.
- Coordinate with the IEUA operation and laboratory teams on sampling.

- Perform quality assurance/quality control (QA/QC) check, compile, and process laboratory results into centralized project database.
- Review data and prepare figures to characterize surface water conditions.
- Upload surface water quality data into the California Environmental Data Exchange Network (CEDEN) annually.
- Conduct as-needed meetings with Watermaster, IEUA, Basin Monitoring Program Task Force, and the Santa Ana Regional Board on project status and sampling results.

Deliverables

- Figures characterizing surface water quality conditions

Cost Estimate for FY 2025/26 and Beyond

The Class 3 cost estimate[26] to continue this work over FY 2025/26 through 2026/27 is about $181,000 total.

[26] Class 3 cost estimates have an expected accuracy of between -20% and +30% of the actual costs.

7520 – PE6/7: COOPERATIVE EFFORTS/SALT MANAGEMENT

Water Quality Management Program

	Cost Estimate
Consultant Labor	$129,664
Other Direct Costs	$500
Total	**$130,164**

Rationale

As part of the 2020 OBMPU, the stakeholders identified several management activities necessary to achieve the goals of the 2020 OBMPU. Two of the 2020 OBMPU activities address groundwater quality:

- Develop and implement a water-quality management plan to address current and future water quality issues and protect beneficial uses."
- Develop strategic regulatory-compliance solutions that achieve multiple benefits in managing water quality.

The specific action defined to encapsulate these activities within the 2020 OBMPU was the development of a Water Quality Management Plan that addresses emerging contaminants to better prepare the parties for addressing compliance with new State and Federal drinking water regulations and provides for the long-term maximum beneficial use of the basin. It was identified that reconvening the Watermaster's Water Quality Committee (WQC) would be the ideal approach to guide the development and implementation of such a management plan to guide the activities over the next several years.

As first envisioned in the OBMPU (and presented in the FY 2023/24 Engineering Budget), developing the water quality management plan would be a multi-year effort with an initial two-year budget of $382,692, inclusive of convening and running the WQC, developing and implementing an initial Emerging Contaminants Monitoring Plan (ECMP), performing an assessment of emerging contaminants in the Chino Basin based on historical monitoring and results of the ECMP, and scoping the groundwater quality monitoring plan.

In FY 2023/24 Watermaster reconvened the WQC in October 2023. The objectives of the first WQC meeting were to educate the participants on historical water quality activities performed by Watermaster pursuant to the 2000 OBMP, review the successes of the WQC's past work, and obtain feedback from the stakeholders on the opportunity and proposed scope and objectives for developing a water quality management plan, including development of an initial ECMP for implementation in FY 2024/25. A second WQC meeting was held in January 2024 to obtain additional stakeholder feedback and review the methods to develop the initial ECMP.

Based on feedback received through the WQC, the concept of a water quality management plan was re-envisioned into a simpler, more adaptable Water Quality Management Program (WQMP) led by the WQC, following the approach used from 2003 to 2010 under Program Element 6 of the 2000 OBMP. As re-envisioned, the WQMP is an ongoing process where the focus of the work performed each year will be defined/refined based on stakeholder input received through the WQC. Under the WQMP, the WQC would meet up to four times a year to address some or all the following objectives:

- Informing stakeholders on the available data and information on water quality in the Chino Basin
- Regularly educating and sharing information on potential future water quality regulations
- Implementing an ECMP to monitor and characterize contaminant occurrence in the Chino Basin where data is not available to assess potential impacts of regulations
- Tracking available grant funding and loan opportunities to advance water quality programs and projects
- Identifying opportunities for multi-agency and/or multi-benefit projects
- Enhancing the ability to characterize potential impacts to the Chino Basin as a result of Parties' operational/management responses to water quality regulations (e.g., impacts to Safe Yield or recycled water recharge program)
- Conducting other activities of interest to the stakeholders to address water quality management or concerns.

Each year going forward the WQC will recommend a scope of work and budget for WQC activities in the subsequent year (or years) to the Watermaster Pools, Advisory Committee, and Board.

Based on the revised approach to addressing water quality challenges through a WQMP, the initial two-year cost has been reduced by about $75,000.

Scope of Work

For FY 2024/25, West Yost will support Watermaster Staff in implementing the WQMP by supporting the WQC process. The work will include:

- Prepare for and conduct up to four meetings of the WQC, including preparing supporting materials, such as agendas, handouts, meeting summaries, etc.
- Coordinate and implement the ECMP (note the ECMP labor and laboratory costs for performing the monitoring of Watermaster monitoring wells and private wells pursuant to the ECMP is captured in PE 1, under task *7505 Groundwater and Surface Water Quality Monitoring Program*).[27]
- Characterizing the emerging contaminants in the Basin after sampling for the initial ECMP is completed.
- Review and update the ECMP for FY 2025/26.
- Prepare an estimated scope of work and budget for the WQMP activities in FY 2025/26.

[27] Note that, as described in the ECMP, there are limited labor costs associated with ECMP implementation as the work will be performed at the same time that West Yost if performing routine monitoring for other OBMP and regulatory purposes. The significant additional cost is the laboratory costs for testing the water quality samples for the identified emerging contaminants. This additional cost is about $80,000. This cost was part of the initial two-year estimate for implementing a water quality management plan and was considered in the stated cost savings of the revised WQMP concept.

This proposed scope and budget allows for flexibility to address topics based on the WQC discussions and outcomes.

Deliverables

- Meeting agendas, handouts, presentations, and meeting summaries for the WQC meetings
- Maps characterizing the extent of emerging contaminants in the Basin
- Scope of work and budget for implementing the WQMP in FY 2025/26
- Other as-needed deliverables determined by the WQC to support the implementation of the WQMP

7610 – PE8/9: STORAGE MANAGEMENT/CONJUNCTIVE USE

Develop Storage and Recovery Master Plan

	Cost Estimate[28]
Consultant Labor	$57,184
Other Direct Costs	$400
Total	**$57,584**

Rationale

As part of the 2020 OBMPU, the stakeholders identified several management activities necessary to achieve the goals of the 2020 OBMPU. Activity B of the 2020 OBMPU was to "develop, implement, and optimize Storage and Recovery Programs to increase water-supply reliability, protect or enhance Safe Yield, and improve water quality." Activity B falls under Program Element 9 of the 2020 OBMPU. Exhibit 7 of the 2020 OBMPU defined a multi-year scope of work to execute this activity:

1. Convene the Storage and Recovery Program Committee (Committee), define objectives, and refine scope of work.
2. Develop conceptual alternatives for Storage and Recovery Programs at various scales.
3. Describe and evaluate reconnaissance-level facility plans and costs for Storage and Recovery Program alternatives.
4. Prepare *Storage and Recovery Master Plan.*

Watermaster staff began implementing Task 1 in FY 2023/24.

Scope of Work

The work required in FY 2024/25 is to provide as-needed support to Watermaster in conducting Committee meetings and developing information to support the execution of Tasks 1 through 3 noted above. The precise scope of work will be defined by the Committee in late FY 2023/24 and early FY 2024/25. The Storage and Recovery Master Plan is a multi-year effort that is expected to be completed in FY 2025/26. The initial meeting for Task 2 will take place in FY 2024/25, rather than FY 2023/24 as originally scoped. This meeting will be funded by carryover funds from FY 2023/24.

Deliverables

West Yost's deliverables will be determined by the Committee and Watermaster staff.

[28] About $25,000 of this task will be funded by carryover funds from FY 2023/24.

Cost Estimate for FY 2025/26

The Class 3 cost estimate[29] of the effort in FY 2025/26 is about $45,000. The actual cost estimate for FY 2025/26 will depend on the level of stakeholder involvement, the desired level of detail in the Storage and Recovery Master Plan, and the need for any additional groundwater modeling.

7614 – PE8/9: STORAGE MANAGEMENT/CONJUNCTIVE USE

Support Implementation of the Safe Yield Court Order

	Task 1	Task 2	Total
Consultant Labor	$110,108	$657,455	$767,563
Other Direct Costs	$0	$1,400	$1,400
Total	**$110,108**	**$658,855**	**$768,963**

Rationale

The Safe Yield of the Chino Basin was recalculated in May 2020 pursuant to the methodology approved by the Court on April 28, 2017. The Court adopted a Safe Yield of 131,000 acre-feet per year for the period of fiscal year 2020/21 through 2029/30. The Court-approved methodology was outlined in a Court Order from April 28, 2017 (2017 Court Order). The Court Order also included the following requirements, listed below verbatim (p. 16-17):

- *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 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 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.*

[29] Class 3 cost estimates have an expected accuracy of between -20% and +30% of the actual costs.

- *4.6 – Modeling. Watermaster shall use the Basin Model to be updated and a model evaluation of the 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.*

West Yost began the work to implement the 2017 Court Order in fiscal year 2021/22. This work included updating the Safe Yield Reset methodology, developing annual data collection and evaluation reports covering the periods through FY 2020/21, FY 2021/22, and FY 2022/23, and initiating the model update to implement the updated Safe Yield Reset methodology, including the required peer review. In FY 2023/24, West Yost completed the update of Watermaster's groundwater model, known as the 2025 Chino Valley Model (2025 CVM), and completed a recalibration and uncertainty analysis.

Scope of Work

The work required in FY 2024/25 will include completing the annual data collection and evaluation, completing the 2025 Safe Yield Reevaluation, and facilitating the associated peer review. This scope is broken down into the following tasks:

- **Task 1 – Annual data collection and evaluation.** Pursuant to pages 16 and 17 of the Court Order, Task 1 includes collecting data from the Parties and other sources and analyzing the data in the context of West Yost's groundwater modeling. Data collection will begin in July 2024 for fiscal year 2023/24. The scope of Task 1 assumes the following:
  - Existing data collection efforts (e.g., groundwater pumping measurements) will be collected via other Watermaster efforts and are not included in this scope.
  - West Yost will follow the data collection and evaluation process that was conducted in FY 2023/24, incorporating the feedback from the Parties.
  - West Yost will develop exhibits to compare the collected data to previous historical and modeling data as necessary to document the data collection in an annual report and present the data to the Peer Review committee.
  - West Yost will prepare a draft and final data collection report. The draft report will be reviewed with the Peer Review committee, comments will be incorporated, and the final report will be submitted to the Court no later than June 30, 2025.@
- **Task 2 – 2025 Safe Yield Reevaluation.** Pursuant to page 17 of the 2017 Court Order, Task 2 is the work to use the updated version of Watermaster's groundwater model (i.e., the 2025 Chino Valley Model) to reevaluate the Safe Yield by June 30, 2025. The complete scope of the model update and reevaluation of the Safe Yield through FY 2024/25 includes the following subtasks:
  - 2.1 Update Hydrogeologic Conceptual Model
  - 2.2 Update Model Input Data for Historical Period

- 2.3 Recalibrate Groundwater Model to Generate Calibrated Realizations
- 2.4 Develop Planning Scenarios
- 2.5 Conduct Planning Simulations to Update Projections of Net Recharge, Identify Undesirable Results and Associated Mitigation Measures, and Reevaluate Safe Yield
- 2.6 Prepare Safe Yield Reevaluation Report

The scope of work in FY 2024/25 includes completing subtasks 2.5 and 2.6. West Yost will conduct at least two workshops in FY 2024/25 to review the preliminary results of subtask 2.5 and 2.6.

Deliverables

West Yost's primary deliverables will be the following draft technical memoranda/reports:

- A draft and final report documenting the data collection process and the data collected for FY 2023/24.
- A draft and final report documenting the 2025 Safe Yield Reevaluation.
- West Yost will prepare other deliverables as needed to support the technical workshops and meetings in Tasks 1 and 2.

7615 – PE8/9: STORAGE MANAGEMENT/CONJUNCTIVE USE

Develop 2025 Storage Management Plan

	Cost Estimate
Consultant Labor	$42,632
Other Direct Costs	$0
Total	**$42,632**

Rationale

The Judgment established a Watermaster to administer the decree under the court's continuing jurisdiction and empowered it to manage and control available storage capacity and to enter into agreements for the storage of water. As a prerequisite to implementing the 2000 OBMP, the Parties executed the Peace Agreement, providing direction and guidance to Watermaster on how storage should be prioritized and managed. The 2000 OBMP included the original plans for storage management, including groundwater pumping, recharge, storage and recovery, and the transfer of water. The 2020 OBMPU involved the review and refinement of the original storage management planning work and included the development of the 2020 Storage Management Plan (SMP).

The 2020 SMP described the existing and projected uses of storage by parties, agencies engaged in Storage and Recovery Programs, the need for recharge capacity for replenishment obligations, the parties' storage management activities, guidance for Storage and Recovery Programs, and the Storage Agreement application process.

The SMP is required to be reviewed and updated (1) at no less than a five-year frequency, (2) when the Safe Yield is recalculated, or (3) when Watermaster determines a review and update is warranted based new information and/or the needs of the parties or the Basin. As the 2020 SMP was completed in October 2020, it must be updated no later than October 2025.

Scope of Work

The work required in FY 2024/25 is to begin developing the 2025 SMP with the latest planning information, understanding, and guidance related to the use and management of storage. As some of this work requires the use of the latest version of Watermaster's groundwater model (now the 2025 Chino Valley Model), some of this work will be initiated in FY 2025/26. The scope of work for the development of the 2025 SMP will be interrelated but not duplicative of the scope of work to develop the Storage and Recovery Master Plan.

Deliverables

West Yost's deliverables will include drafts of the sections of the SMP that document the current planning information and its uncertainty, the current guidance on storage management, and other sections for which information is available.

Cost Estimate for FY 2025/26

The Class 3 cost estimate[30] of the effort in FY 2025/26 is about $60,000. The actual cost estimate for FY 2025/26 will depend on the findings of the 2025 Safe Yield Reevaluation.

[30] Class 3 cost estimates have an expected accuracy of between -20% and +30% of the actual costs.

WEST YOST
Water. Engineered.

23692 Birtcher Drive
Lake Forest CA 92630

949.420.3030 phone
530.756.5991 fax
westyost.com

TECHNICAL MEMORANDUM

DATE: April 22, 2024 Project No.: 941-80-22-26

TO: Ground-Level Monitoring Committee

FROM: West Yost Associates

REVIEWED BY: Andy Malone, PG

SUBJECT: Recommended Scope of Work and Budget for the Ground-Level Monitoring Program for Fiscal Year 2024/25 **(FINAL)**

BACKGROUND AND PURPOSE

Pursuant to the Optimum Basin Management Program Implementation Plan and the Peace Agreement, the Chino Basin Watermaster (Watermaster) implements a Subsidence Management Plan (SMP) for the Chino Basin to minimize or stop the occurrence of land subsidence and ground fissuring. The Court approved the SMP and ordered its implementation in November 2007 (2007 SMP). The 2007 SMP was updated in 2015 (2015 SMP) and can be downloaded from the Watermaster website. The SMP outlines a program of monitoring, data analysis, and annual reporting. A key element of the SMP is its adaptive nature—Watermaster can adjust the SMP as warranted by the data.

The Watermaster Engineer, with the guidance of the Ground-Level Monitoring Committee (GLMC), prepares annual reports which include: the results of the monitoring program; interpretations of the data; recommendations for the Ground-Level Monitoring Program (GLMP) for the following fiscal year (FY); and recommendations for adjustments to the SMP, if any.

This Technical Memorandum (TM) describes the Watermaster Engineer's recommended activities for the GLMP for FY 2024/25 in the form of a proposed scope of services and budget.

Members of the GLMC were asked to:

- Review the draft TM prior to March 7, 2024.
- Attend a meeting of the GLMC at 10:00 am on March 7, 2024 to discuss the proposed scope of services and budget for FY 2024/25.
- Submit comments and suggested revisions on the proposed scope of services and budget for FY 2024/25 to the Watermaster by April 4, 2024.

This final scope of services and budget that addresses the comments and suggested revisions of the GLMC will be included in the Watermaster's proposed budget for FY 2024/25. The final scope of services, budget, and schedule for FY 2024/25 will be included in Section 4 of the *2023/24 Annual Report for the GLMP*.

RECOMMENDED SCOPE OF SERVICES AND BUDGET – FY 2024/25

A proposed scope of services for the GLMP for FY 2024/25 is shown in Table 1 as a line-item cost estimate. The proposed scope of services is summarized below.

Task 1. Setup and Maintenance of the Monitoring Network

The Chino Basin extensometer facilities are key monitoring facilities for the GLMP. They require regular and as-needed maintenance and calibration to remain in good working order and to ensure the recording of accurate measurements.

Task 1.1. Maintain Extensometer Facilities

This subtask includes performing monthly visits to the Ayala Park, Chino Creek, and Pomona extensometer (PX) facilities to ensure functionality and calibration of the monitoring equipment and data loggers. Two staff members are required for these visits due to safety concerns.

Non-routine efforts to be performed during FY 2024/25 under this subtask include:

- Monthly adjustments to the PX extensometers to improve the accuracy of the measurements of aquifer-system deformation.
- Purchase and install two metal covers for Ayala Park PA vault and PX 2 vault.
- Construct French drains around the PA vault to convey surface-water runoff away from the vault.

Task 1.2. Annual Lease Fees for the Chino Creek Extensometer Site

The County of San Bernardino (County) owns the land the Chino Creek extensometer facility is located on. As such, the Watermaster entered into a lease agreement with the County in 2012 and pays the County and annual rental payment of $1,596.

Task 2. Aquifer-System Monitoring and Testing

This task involves the collection, compilation, and checking of hydraulic head and aquifer-system deformation data from the Ayala Park, Chino Creek, and PX extensometer facilities.

Task 2.1. Conduct Quarterly Monitoring at Extensometer Facilities

This subtask involves the routine quarterly collection, processing, and checking of data from the three extensometer facilities in the Chino Basin. Quarterly data collection is necessary to ensure that the monitoring equipment is in good working order and to minimize the risk of losing data because of equipment malfunction. For this subtask, the complete extensometer and piezometer records from the Ayala Park, Chino Creek, and PX facilities are loaded to HydroDaVE^{SM} (Hydrologic Database and Visual Explanations), the annual report figures are updated, and all the new data are checked for accuracy. If the data indicated malfunctioning equipment or inaccurate measurements, then any necessary adjustments to the monitoring equipment are made. Two staff members are required for these visits due to safety concerns.

Task 3. Basin-Wide Ground-Level Monitoring Program (InSAR)

This task involves the annual collection and analysis of Synthetic Aperture Radar (SAR) scenes to estimate the vertical ground motion across the western portion of Chino Basin from March 2024 to March 2025.[1]

In this subtask, five SAR scenes that are acquired by the TerraSAR-X satellite from March 2024 to March 2025 are purchased from the German Aerospace Center. West Yost will use the SAR scenes to prepare 12 interferograms (InSAR) that describe the incremental and cumulative vertical ground motion that occurred from March 2024 to March 2025 and since 2011. The associated costs to task, acquire, purchase, and process the InSAR data is as follows:

- Task TerraSAR-X for five SAR acquisitions for the western Chino Basin ($1,000)
- Purchase TerraSAR-X data ($10,000)
- Prepare and check InSAR results, including the interferograms and GIS-generated rasters ($62,000)

In addition, West Yost purchased and maintains the GAMMA software that is necessary to process the SAR data and prepare the InSAR estimates of vertical ground motion. The one-time initial cost for the software was $44,000. Since the Watermaster is the only West Yost client that utilizes InSAR services, the Watermaster is paying for the GAMMA software over a three-year period ($11,000 in FY 2023/24, $22,000 in FY 2024/25, and $11,000 in FY 2025/26). The annual maintenance cost is $6,600. Therefore, in FY 2024/25 the Watermaster's costs for the GAMMA software is: $22,000 + $6,600 = $28,000.

Task 4. Perform Ground-Level Surveys

This task involves conducting elevation surveys at benchmark monuments across defined areas of western Chino Basin to estimate the vertical ground motion that occurred since the prior survey. Figure 1 shows the location of the benchmark monuments surveyed across the western Chino Basin. Electronic distance measurements (EDM surveys) are also performed periodically between monuments to estimate horizontal ground motion in areas where ground fissuring due to differential land subsidence is a concern. Table 2 documents the areas surveyed over the last six years as part of the GLMP.

[1] West Yost is now performing this task internally instead of subcontracting the work, as was done in the past. This was made possible by West Yost hiring the InSAR subconsultant directly and purchasing/maintaining the necessary hardware and software.

Table 2. History of Ground-Level Surveys

Ground-Level Survey Area	Ground-Level Survey Completed (Y/N)?						
	2018	2019	2020	2021	2022	2023	2024[(b)]
Managed Area	Y	N	N	N	N	N	Y
Fissure Zone Area[(a)]	Y	N	N	N	N	N	N
Central Area	N	N	N	N	N	N	N
Northwest Area	Y	Y	Y	Y	Y	Y	Y
San Jose Fault Zone Area[(a)]	Y	Y	Y	Y	Y	N	N
Southeast Area	Y	N	N	N	Y	N	N
Northeast Area	Y	Y	Y	N	N	N	N

(a) Denotes EDM survey area (measurements of horizontal strain).
(b) The 2024 ground-level surveys are scheduled to begin in March 2024.

The ground-level surveys recommended for FY 2024/25 include the following:

Task 4.1. Conduct Spring-2025 Elevation surveys in Northwest MZ-1

In this subtask, the surveyor conducts elevation and EDM surveys at the established benchmarks in Northwest MZ-1 in Spring 2025. The elevation survey will begin at the Pomona Extensometer Facility and includes benchmarks across Northwest MZ-1. The elevation survey will be referenced to the Ayala Park elevation datum at the Ayala Park Extensometer via a GPS survey performed at both Ayala Park and the Pomona Extensometers.

*The vertical elevation survey is recommended in Spring 2025 because of the recent subsidence that has occurred in Northwest MZ-1 and because the survey will support the development of a subsidence management plan in Northwest MZ-1. The EDM survey is **not** recommended to be performed across the San Jose fault zone because past surveys (2013-2021) have demonstrated that the horizontal strain measured between benchmark pairs appears to behave elastically. The EDM surveys should be conducted less frequently than annual (e.g., once every five years).*

Ground-Level Surveys Not Recommended for Spring 2025

Ground-level surveys are **not** recommended for Spring 2025 in the other Areas of Subsidence Concern (*i.e.,* Managed, Central, Southeast, and Northeast Areas). This recommendation is justified because:

- InSAR is proving to be an accurate, more efficient, higher-resolution method to monitor vertical ground motion across the western Chino Basin.
- Hydraulic heads and vertical ground motion in some of these areas are stable or increasing.

Ground-level surveys should be conducted in these areas less frequently than annual (*e.g.,* once every five years).

Task 4.5. Replace Destroyed Benchmarks (if needed)

In this subtask, the surveyor replaces benchmark monuments that have been destroyed since the last survey, if any.

Task 4.6. Process, Check, and Update Database

In this subtask, the Watermaster Engineer receives and catalogs the survey results provided by the surveyor, prepares the data for display as a GIS layer, and performs checks against InSAR and extensometer data for reasonableness and accuracy.

Task 5. Data Analysis and Reporting

Task 5.1. Prepare Draft 2023/24 Annual Report for the Ground-Level Monitoring Program

Prepare the text, tables, and figures for a draft *2023/24 Annual Report for the GLMP* and submit the report to the GLMC by September 20, 2024 for review and comment.

Task 5.2. Prepare Final 2023/24 Annual Report for the Ground-Level Monitoring Program

Update the text, tables, and figures based on the comments received from the GLMC and prepare a final *2023/24 Annual Report for the GLMP* by November 1, 2024. Responses to GLMC comments will be included as an appendix to the final report. The report will be included in the agenda packet for the November 2024 Watermaster meetings for approval.

Task 5.3. Compile and Analyze Data from the 2024/25 Ground-Level Monitoring Program

In this subtask, monitoring data generated from the GLMP during 2024/25 is checked, mapped, charted, and analyzed as the first step in the preparation of the subsequent annual report. Some of the maps, charts, and tables are shared with the GLMC at its meetings in early 2025 during the development of a recommended scope of services and budget for FY 2025/26.

Task 5.4. Conduct Whispering Lakes Subsidence Investigation of the Northeast Area

In the Northeast Area, the long-term and short-term InSAR estimates indicate that persistent downward ground motion has occurred in a concentrated area south of the Ontario International Airport between Vineyard Avenue and Archibald Avenue in the vicinity of Whispering Lakes Golf Course. The western edge of this subsiding area exhibits a steep subsidence gradient or “differential subsidence.”

In FY 2021/22, the Watermaster Engineer conducted a Reconnaissance-Level Investigation that included the review and analysis of readily-available borehole and lithologic data, historical air photos, pumping and recharge data, hydraulic head data, and InSAR estimates of vertical ground motion. Figures and charts were prepared and analyzed to derive interpretations and recommendations for future investigations and monitoring. The investigation and recommendations were included in the FY 2021/22 Annual Report of the GLMC. Plausible mechanisms for this subsidence feature include pumping-induced aquitard drainage and shallow soil consolidation associated with historical land uses. The investigation identified data gaps in available site-specific hydrogeologic data.

Potential next steps presented to the GLMC at its December 13, 2022 meeting included:

- Aquifer-system monitoring (*e.g.,* collecting existing hydrogeologic data; installing transducers at wells in the study area; constructing an aquifer-system monitoring facility within the subsidence feature)

- Further investigation of the historical land use practices in the vicinity of the Whispering Lakes Golf Course (e.g., agricultural disturbance and augmentation of soils; historical sewage disposal and spreading of solids; golf course construction and maintenance activities)
- Perform field studies of shallow soil consolidation (i.e., develop a dataset of site-specific shallow soil compaction that could be compared to the rates of subsidence estimated by InSAR).

The GLMC has recommended a stepwise, process-of-elimination approach to identify the subsidence mechanism(s). The GLMC approved a $10,000 budget for FY 2023/24 to implement the recommendations derived from the Reconnaissance-Level Investigation. This budget is being used to collect and evaluate existing data (e.g., hydrogeologic data, well information, reports, historical land use data) and install transducers at nearby pumping wells. The results of these efforts will be documented in the GLMC Annual Report for 2023/24 along with recommendations for follow-on work.

The GLMC should consider dedicating contingency budget for FY 2024/25 ($10,000) to continue the implementation of the recommendations derived Reconnaissance-Level Investigation and future recommendations based on results of work performed in 2023/24.

Task 6. Develop a Subsidence-Management Plan for Northwest MZ-1

The 2007 SMP called for ongoing monitoring and data analysis of the Managed Area; including annual reporting and adjustments to the SMP, as warranted by the data. The 2007 SMP also called for expanded monitoring of the aquifer-system and land subsidence in other areas of subsidence and ground fissuring concern. Figure 1 shows the location of these so-called Areas of Subsidence Concern: Central MZ-1, Northwest MZ-1, Northeast Area, and Southeast Area. The expanded monitoring efforts outside of the Managed Area are consistent with the requirements of OBMP Program Element 1 and its implementation plan contained in the Peace Agreement.[2]

The 2007 SMP stated that if data from existing monitoring efforts in the Areas of Subsidence Concern indicate the potential for adverse impacts due to subsidence, the Watermaster would revise the SMP to avoid those adverse impacts. The 2014 Annual Report of the GLMC recommended that the 2007 SMP be updated to better describe the Watermaster's land subsidence efforts and obligations, including areas outside of MZ-1. As such, the update included a name change to the 2015 Chino Basin Subsidence Management Plan (2015 SMP) and a recommendation to develop a subsidence management plan for Northwest MZ 1.

The Watermaster had been monitoring vertical ground motion in Northwest MZ-1 via InSAR during the development of the 2007 SMP. Land subsidence in Northwest MZ-1 was first identified as a concern in 2006 in the MZ-1 Summary Report and again in 2007 in the 2007 SMP. Of particular concern was the occurrence of concentrated differential subsidence across the San Jose Fault in Northwest MZ-1—the same spatial pattern of differential subsidence that occurred in the Managed Area during the time of ground fissuring. Ground fissuring is the main subsidence-related threat to infrastructure. The issue of differential subsidence, and the potential for ground fissuring in Northwest MZ-1, has been discussed at prior GLMC meetings, and the subsidence has been documented and described as a concern in the Watermaster's State of the Basin Reports, the annual reports of the GLMC, and in the *Initial Hydrologic*

[2] http://www.cbwm.org/docs/legaldocs/Peace_Agreement.pdf.

Conceptual Model and Monitoring and Testing Program for the Northwest MZ-1 Area (WEI, 2017). The Watermaster increased monitoring efforts in Northwest MZ-1 beginning in FY 2012/13 to include ground elevation surveys and electronic distance measurements (EDM) to monitor ground motion and the potential for fissuring.

In 2015, the Watermaster's Engineer developed the *Work Plan to Develop a Subsidence Management Plan for the Northwest MZ-1 Area* (Work Plan; WEI 2015b).[3] The Work Plan is characterized as an ongoing Watermaster effort and includes a description of a multi-year scope-of-work, a cost estimate, and an implementation schedule. The Work Plan was included in the 2015 SMP as Appendix B. Implementation of the Work Plan began in July 2015. On an annual basis, the GLMC analyzes the data and information generated by the implementation of the Work Plan. The results and interpretations generated from the analysis are documented in the annual report for the GLMP and used to prepare recommendations for future activities.

Progress to Implement Work Plan through FY 2023/24

The progress that has been made to implement the Work Plan through FY 2023/24 is described below:

- An initial hydrogeologic conceptual model of the Northwest MZ-1 Area was developed, and a report was published in 2017.[4] This report described the hydrogeology of the area, speculated on the causes of the observed land subsidence, and included a recommended monitoring program.

- A preliminary one-dimensional (1D) compaction model, based on hydrogeologic information from the MVWD-28 well site, was constructed, calibrated and used to explore the future occurrence of subsidence in Northwest MZ-1 under various basin-operation scenarios of groundwater production and artificial recharge and to identify potential subsidence mitigation strategies. A report[5] was published to document the results and interpretations of the modeling, which were: ***the deep aquifer system is most susceptible to future compaction and associated land subsidence, and hence, heads will need to increase in the deep aquifer system to minimize or abate future subsidence in Northwest MZ-1***. The report also included a recommendation to construct the Pomona Extensometer.

- The initial monitoring program was implemented to closely track groundwater-levels, groundwater production, recharge, and ground motion across Northwest MZ-1. This monitoring program included the construction of the Pomona Extensometer to measure and record depth-specific heads and aquifer-system deformation. Implementation of the monitoring program is ongoing.

- A new 1D model was constructed and calibrated using the hydrogeologic information collected at the Pomona Extensometer. The 1D model at MVWD-28 was also updated and recalibrated using current information. The objectives of this exercise were to: (i) describe the subsidence mechanisms and the pre-consolidation head by aquifer-system layer in Northwest MZ-1 and (ii)

[3] Work Plan to Develop a Subsidence-Management Plan for Northwest MZ-1
[4] https://www.cbwm.org/docs/engdocs/GLMC/nwmz1/Final_NWMZ1_Task1_Report.pdf
[5] https://www.cbwm.org/docs/engdocs/GLMC/nwmz1/20171220%20Final%20NWMZ1%20Task3-4%20Tech%20Memo.pdf

develop modeling tools that can be used to explore the future occurrence of subsidence in Northwest MZ-1 under various basin-operation scenarios of groundwater production and artificial recharge and to identify potential subsidence mitigation strategies. This work was reviewed by the GLMC, and additional model calibration refinements and sensitivity analyses were performed based on GLMC input. In November 2022, the Watermaster Engineer published a final report[6] on the 1D Model calibrations and sensitivity analyses (with review by the GLMC) and deemed the 1D Models sufficient to simulation future land subsidence under prospective plans for pumping and recharge.

- In 2023, the Watermaster Engineer, with review and input from the GLMC, developed an initial "Subsidence Management Alternative" for Northwest MZ-1 called SMA-1. SMA-1 is equivalent to the planning scenario that was simulated with the 2020 Chino Valley Model (CVM) to support the 2020 Safe Yield Recalculation (2020 SYR). The 2020 SYR was intended to represent and simulate the Parties' projected pumping, recharge, and use of storage through 2050. The results of the 2020 SYR (*i.e.,* projected hydraulic heads by CVM layer) were used as input data for the 1D Model simulations to predict the potential future occurrence of subsidence through 2050. In September 2023, the Watermaster Engineer published a draft TM titled *1D Model Simulation of Subsidence in Northwest MZ-1—Subsidence Management Alternative #1*. The Watermaster's recommendations from this work were the following:

    a. Establish a preliminary "Northwest MZ-1 Guidance Level" of 630 ft-amsl for hydraulic heads in Layers 3 and 5 at the PX location. The preliminary Guidance Level is an aspirational Watermaster recommendation that, if achieved, would likely slow or stop aquitard compaction and land subsidence in Northwest MZ-1.

    b. Compliance with the Guidance Level should be measured at the PX-2/3 piezometer, which is generally representative of heads in Layers 3 and 5.

    c. The methods to achieve the Guidance Level could include but are not limited to: voluntary modification of pumping patterns; in-lieu recharge; wet-water recharge via spreading and/or injection; or a combination of methods. These methods might necessitate: voluntary modification of water-supply plans of the purveyors in the Chino Basin; modification of Watermaster practices for recharge and replenishment; and/or the implementation of regional-scale storage or conjunctive-use programs.

    d. Additional SMAs should be developed and evaluated with the 1D Models to generate the necessary information to finalize the Guidance Level and the *Subsidence Management Plan for Northwest MZ-1*. The additional SMAs could be developed during Watermaster's groundwater modeling efforts associated with the 2025 Safe Yield Reevaluation and the development of the Storage and Recovery Master Plan. The GLMC should participate in the scenario building exercises associated with these Watermaster efforts to develop the SMAs, so that the scenarios include various methods to achieve the Guidance Level. Then, the 1D Models should be used to evaluate the potential future subsidence in Northwest MZ-1 under the SMAs. These model results and evaluations will support the establishment

[6] https://www.cbwm.org/docs/engdocs/GLMC/nwmz1/TM%20-%20941%20-%201D%20Model%20-%20Final.pdf

of a Guidance Level in the *Subsidence Management Plan for Northwest MZ-1*. It should be noted that future monitoring and analyses always hold the potential for revisions to the Guidance Level, consistent with the adaptive management approach called for in the Chino Basin Subsidence Management Plan.

Based on the expected progress through FY 2023/24, the following work is recommended for FY 2024/25 to develop the *Subsidence Management Plan for Northwest MZ-1*:

Task 6.1. Aquifer-System Monitoring

The established monitoring program of piezometric levels and pumping at wells in Northwest MZ-1 will continue through various techniques, including: (i) SCADA-based monitoring by the Monte Vista Water District; (ii) monitoring of piezometric levels via sonar[7]; (iii) monitoring of piezometric levels via pressure transducers at City of Pomona production wells; and (iv) manual measurements of piezometric levels. These data, along with data collected from the PX in Task 2.1, will improve the understanding of the hydrogeology in Northwest MZ-1, will be used to develop the *Subsidence Management Plan for Northwest MZ-1*, and in the future, will be used to adapt the Chino Basin Subsidence Management Plan, as appropriate.

In this subtask, all data is collected, compiled, checked, and analyzed every three months. Charts and data graphics of pumping, piezometric levels, and aquifer-system deformation will be updated to support the data collection and analysis. The PX extensometer data is charted and analyzed monthly in the ongoing effort to improve the reliability and accuracy of the extensometers.

Task 6.5. Provide Advice in the Development of the 2025 SYR Scenarios

The ongoing 2025 SYR involves the development of multiple projection scenarios of future hydrology, pumping, managed recharge, and use of managed storage in the Chino Basin. These projection scenarios will be simulated with an updated CVM. The CVM results will be used to determine a tentative Safe Yield, which will be evaluated for MPI and then used to evaluate the current Safe Yield of the Chino Basin. The evaluation of MPI associated with land subsidence will be performed using the 1D Models in Northwest MZ-1 and in other Areas of Subsidence Concern (see Task 7 below). In FY 2024/25, the GLMC can provide the Watermaster with valuable advice on the following:

- The development of the 2025 SYR scenarios to ensure a plausible range of future conditions are simulated.
- Interpretation of the 1D Model results re: potential subsidence-related MPI associated with the Safe Yield estimates.
- How the model results can be used to evaluate the minimum recharge quantity of supplemental water in MZ-1 as required by the Peace II Agreement.

[7] The use of sonar technology to measure piezometric levels in wells in currently being used in Monte Vista Water District wells 28 and 31.

Providing GLMC advice should be conducted in conjunction with the 2025 SYR and can be discussed at regularly scheduled GLMC meetings at no additional cost.[8]

Task 7. Construct and Calibrate Additional 1D Models Across Western Chino Basin

As described above in Task 6, the Watermaster has constructed, calibrated, and used 1D Models at the PX and MVWD-28 locations to evaluate the potential future subsidence in Northwest MZ-1 through 2040. The Watermaster used the information derived from the 1D Models to develop a preliminary "Guidance Level" to avoid future subsidence in Northwest MZ-1.

In Task 7, three additional 1D Models are constructed and calibrated across other Areas of Subsidence Concern in western Chino Basin, so that Watermaster can use all of the 1D Models during the 2025 SYR process to:

- Evaluate for subsidence-related MPI during the 2025 SYR.
- Refine the preliminary "Guidance Level" in Northwest MZ-1 and the Managed Area.
- Evaluate for the minimum recharge quantity of supplemental water in MZ-1 as required by the Peace II Agreement.

In FY 2023/24, the three additional 1D Models are being constructed and calibrated in the following areas: Northeast Area (at Ontario Well 33 location), in the Southeast Area near the CDA well field (at the CCX location), and in the Managed Area (at the Ayala Park Extensometer location).

The deliverables of this task are the following:

- A draft TM to describe the background/objectives of the task and the methods that will be used to complete the task. The methods include a description of the proposed locations for the additional 1D Models and the data that will be used to construct and calibrate the models.
- A draft TM that summarizes the construction and calibration of the additional 1D Models.

This task was budgeted and scheduled for completion in FY 2023/24, but the final work will likely spill over into FY 2024/25. If necessary, unspent budget from FY 2023/24 will be carried over to FY 2024/25 to complete this task. ***No additional budget in FY 2024/25 is necessary to complete this task***.

Task 8. Meetings and Administration

Task 8.1. Prepare for and Conduct Four Meetings of the Ground-Level Monitoring Committee

This subtask includes preparing for and conducting four meetings of the GLMC:

- August 2024 – Review and discuss GLMP for FY 2024/25. Review and discuss the draft TM on Task 7 – *Construction/Calibration of Additional 1D Models*.

[8] This is because most of these discussions will be occurring in the 2025 SYR peer review process with the same technical consultants that participate on the GLMC.

- September 2024 – Review the draft 2023/24 Annual Report for the GLMP
- March 2025 – Review the draft recommended scope and budget for FY 2025/26
- April 2025 – Review the final recommended scope and budget for FY 2025/26 (if needed)

Task 8.2. Prepare for and Conduct One As-Requested Ad-Hoc Meeting

This subtask includes preparing for and conducting one ad-hoc meeting of the GLMC, as requested by the GLMC or Watermaster staff.

Task 8.3. Perform Monthly Project Management

This subtask includes monthly project administration and management, including staffing, financial and schedule reporting to Watermaster and subcontractor coordination.

Task 8.4. Prepare a Recommended Scope and Budget for the GLMC for FY 2025/26

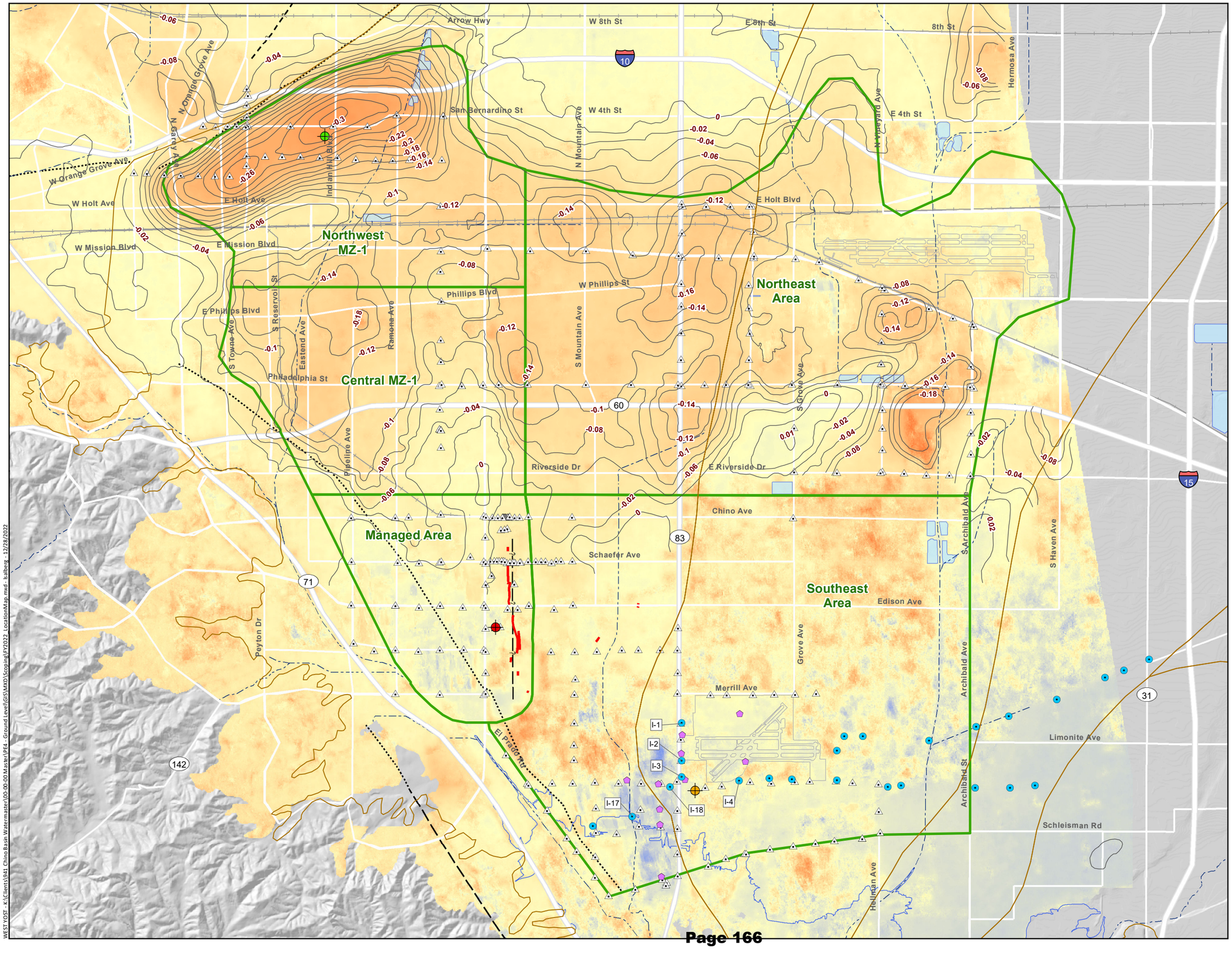
This subtask includes preparing a draft and final recommended scope of services and budget for FY 2025/26 for the GLMP to support the Watermaster's budgeting process.

Table 1. Work Breakdown Structure and Cost Estimates for the Ground-Level Monitoring Program: FY 2024/25

Task Description			Notes	Labor (days)		Other Direct Costs						Totals			
				Person Days	Total	Travel	New Equip.	Equip. Rental	Outside Pro	Misc.	Total	Totals by Task	Recommended Budget *2024/25*	Approved Budget *2023/24*	Net Change *from 2023/24*
													a	*b*	*a - b*
Task 1. Setup and Maintenance of the Monitoring Network					**$40,221**						**$8,018**	**$48,239**	**$48,239**	**$47,789**	**$450**
1.1	Maintain Extensometer Facilities														
	1.1.1	Routine maintenance of Ayala Park, Chino Creek, and Pomona extensometer facilities		21	$29,437	$649	$250	$350			$1,249	$30,685	$30,685	$33,707	-$3,022
	1.1.2	Replacement/repair of equipment at extensometer facilities		6	$10,784	$173	$2,500		$2,500		$5,173	$15,957	$15,957	$12,485	$3,472
1.2	Annual Lease Fees for the Chino Creek extensometer facility			0	$0					$1,596	$1,596	$1,596	$1,596	$1,596	$0
Task 2. MZ-1: Aquifer-System Monitoring and Testing					**$32,724**						**$784**	**$33,508**	**$33,508**	**$31,456**	**$2,052**
2.1	Conduct Quarterly Monitoring at Extensometers Facilities														
	2.1.1	Download data from the Ayala Park Extensometer facility		4	$5,436	$332		$40			$372	$5,808	$5,808	$3,032	$2,776
	2.1.2	Download data from the Chino Creek Extensometer facility		4	$5,436			$40			$40	$5,476	$5,476	$2,700	$2,776
	2.1.3	Download data from Pomona Extensometer facility		4	$5,436	$332		$40			$372	$5,808	$5,808	$10,492	-$4,684
	2.1.4	Process, check, and upload data to database		10	$16,416						$0	$16,416	$16,416	$15,232	$1,184
Task 3. Basin Wide Ground-Level Monitoring Program (InSAR)					**$64,880**						**$39,600**	**$104,480**	**$104,480**	**$96,560**	**$7,920**
3.1	Satellite tasking and data selection with AirBus for 2024/25			0.5	$1,144					$1,000	$1,000	$2,144	$2,144		
3.2	Assess SAR baselines for 2024/25 and select/purchase TerraSAR-X frames from Airbus			0.5	$1,144					$10,000	$10,000	$11,144	$11,144	$96,560	$7,920
3.3	Prepare and check interferograms for 2024/25			28	$62,592						$0	$62,592	$62,592		
3.4	GAMMA software for InSAR processing (initial purchase + annual maintenance)			0	$0					$28,600	$28,600	$28,600	$28,600		
Task 4. Perform Ground-Level Surveys					**$7,144**						**$38,600**	**$45,744**	**$45,744**	**$84,280**	**-$38,536**
4.1	Conduct Spring-2024 Elevation surveys in Northwest MZ-1			0.5	$1,288				$28,600		$28,600	$29,888	$29,888	$28,360	$1,528
4.2	Conduct Spring-2024 Elevation Survey in the Northeast Area			0	$0				$53,416		$0	$0	$0	$0	$0
4.3	Conduct Spring-2024 Elevation Survey in the Southeast Area			0	$0				$56,584		$0	$0	$0	$0	$0
4.4	Conduct Spring-2024 Elevation and EDM Surveys in the Managed Area/Fissure Zone			0	$0				$46,800		$0	$0	$0	$31,248	-$31,248
4.5	Replace Destroyed Benchmarks (if needed)			0	$0				$10,000		$10,000	$10,000	$10,000	$19,280	-$9,280
4.6	Process, Check, and Update Database			3	$5,856						$0	$5,856	$5,856	$5,392	$464
Task 5. Data Analysis and Reporting					**$87,084**						**$0**	**$87,084**	**$87,084**	**$85,412**	**$1,672**
5.1	Prepare Draft 2023/24 Annual Report of the Ground-Level Monitoring Committee			19	$36,744						$0	$36,744	$36,744	$36,136	$608
5.2	Prepare Final 2023/24 Annual Report of the Ground-Level Monitoring Committee			8.5	$16,820						$0	$16,820	$16,820	$15,732	$1,088
5.3	Compile and Analyze Data from the 2024/25 Ground-Level Monitoring Program			14	$23,520						$0	$23,520	$23,520	$23,544	-$24
5.4	Continue Whispering Lakes Subsidence Investigation			0	$10,000						$0	$10,000	$10,000	$10,000	$0
Task 6. Develop a Subsidence-Management Plan for Northwest MZ-1					**$16,656**						**$0**	**$16,656**	**$16,656**	**$15,536**	**$1,120**
6.1	Aquifer-System Monitoring														
	6.1.1	Collect pumping and piezometric data from agencies every three months; check and upload data to HDX		6	$8,448						$0	$8,448	$8,448	$10,560	-$2,112
	6.1.2	Prepare and analyze charts and data graphics of pumping and recharge (Northwest MZ-1), piezometric levels, and aquifer-system deformation from PX		5	$8,208						$0	$8,208	$8,208	$4,976	$3,232
Task 7. Construct and Calibrate Additional 1D Models Across Western Chino Basin					**$0**						**$0**	**$0**	**$0**	**$192,511**	**-$192,511**
7.1	Prepare a draft TM summarizing the background, objectives, and methods; distribute to the GLMC			0	$0						$0	$0	$0	$12,760	-$12,760
7.2	Prepare for and conduct a GLMC meeting to receive feedback and comments on the draft TM			0	$0						$0	$0	$0	$5,110	-$5,110
7.3	Verify and/or recalibrate the 1D Model at Ayala Park Extensometer location			0	$0						$0	$0	$0	$22,736	-$22,736
7.4	Construct two additional 1D Models in the Southeast Area and Northeast Area			0	$0						$0	$0	$0	$62,368	-$62,368
7.5	Calibrate new 1D Models to derive properties of aquifers/aquitards and estimate the pre-consolidation stress(es)			0	$0						$0	$0	$0	$45,472	-$45,472
7.6	Prepare a draft TM summarizing the construction/calibration of additional 1D Models; distribute to the GLMC			0	$0						$0	$0	$0	$37,024	-$37,024
7.7	Prepare for and conduct a GLMC meeting to receive feedback and comments on the draft TM			0	$0						$0	$0	$0	$5,110	-$5,110
7.8	Incorporate the GLMC comments and prepare a final technical memorandum			0	$0						$0	$0	$0	$1,932	-$1,932
Task 8. Meetings and Administration					**$57,562**						**$375**	**$57,937**	**$57,937**	**$59,228**	**-$1,292**
8.1	Prepare for and Conduct Four Meetings of the Ground-Level Monitoring Committee		a	14	$31,744	$291					$291	$32,035	$32,035	$32,636	-$602
8.2	Prepare for and Conduct One As-Requested Ad-Hoc Meeting		a	3	$6,792	$84					$84	$6,876	$6,876	$5,470	$1,406
8.3	Perform Monthly Project Management			3	$7,728						$0	$7,728	$7,728	$11,592	-$3,864
8.4	Prepare a Recommended Scope and Budget for the GLMC for FY 2023/24			5.25	$11,298						$0	$11,298	$11,298	$9,530	$1,768
Totals					**$306,271**						**$87,376**		**$393,647**	**$612,772**	**-$219,125**

Notes:

a Assumes in-person meetings.



N

0 1 2

Miles

Relative Change in Land Surface Altitude as Estimated by InSAR (March 2011 to March 2022)

+ 0.55 ft

0 ft

-0.55 ft

InSAR absent or incoherent

- Areas of Subsidence Concern
- Pomona Extensometer Facility
- Chino Creek Extensometer Facility
- Ayala Park Extensometer Facility
- Chino Desalter Authority Well
- SB County Proposed Extraction Well
- Ground-Level Survey Benchmark
- Ground Fissures
- Approximate Location of the Riley Barrier

Figure 1

Ground-Level Monitoring Program
Fiscal Year 2022/23

Chino Basin Watermaster
Ground-Level Monitoring Committee

The comments received from the GLMC as of April 4, 2024 on the "Recommended Scope of Services and Budget of the Ground-Level Monitoring Committee for Fiscal Year 2024/25 (Draft)" and the Watermaster Engineer's response to comments are documented below.

Comments from the City of Chino (Hye Jin Lee)

Comment 1 – Task 1. Setup and Maintenance of the Monitoring Network.

Task 1.1. The City understands settling of the vault structure located at the Ayala Park Extensometer facility has occurred over time which allows water to enter the vault and potentially flow into the monitoring wells. Watermaster proposes to address this field condition by installing French drains around the vault. The City is concerned the construction of French drains may not be the most suitable means to address the field condition. Any contemplated construction activity at the park must be approved by the City of Chino and coordinated with the City of Chino's Community Services for any planned activities in the area. Prior to taking any steps towards implementing the French drains the Watermaster is advised to contact the City.

Response:

Watermaster staff and engineer will work closely with the City on any modifications at Ayala Park to prevent flooding of the piezometer vault.

Comments from the State of California (Rick Rees)

Comment 1 – Task 3. Basin-Wide Ground-Level Monitoring Program (InSAR)

The InSAR-based monitoring proposed in the 2024/2025 budget is only for the western portion of the Chino Basin. Therefore, it is not "basin-wide" as the task description implies (text and Table 1). The committee has discussed conducting occasional InSAR monitoring of the eastern part of the Chino Basin. This should be considered for the next budget. One option that would reduce cost is to provide InSAR results published by the Department of Water Resources (DWR) to cover the entire basin. Although the DWR InSAR data are not the same level of resolution and not directly comparable with the data that West Yost will process for the western part of the basin, it should be easy to generate true basin-wide InSAR results. This should be continued less frequently than annual (e.g., every five years) to verify that there are no subsidence issues outside of the western part of the Chino Basin where ground levels are well documented every year.

Response:

We concur. The effort to conduct InSAR monitoring of the eastern part of the Chino Basin using InSAR results published by the Department of Water Resources (DWR) will be described and budgeted for the proposed scope and budget for the GLMP for 2025/26.

Comments from Monte Vista Water District (Justin Scott-Coe)

Comment 1 – Task 1.1 Maintain Extensometer Facilities

"Non-routine efforts to be performed during FY 2024/25 under this subtask include… Monthly adjustments to the PX extensometers to improve the accuracy of the measurements of aquifer system deformation."

Watermaster has recognized the importance of the extensometer data in monitoring current conditions and understanding hydrogeologic conditions. As stated in the Technical Memorandum "Construction and Calibration of 1D Compaction Models in Northwest MZ 1 (September 23, 2022), "Continued monitoring and enhanced understanding of hydrogeologic conditions is crucial to minimizing model error and uncertainty, especially the monitoring of the PX in Northwest MZ-1." The District recommends providing a briefing and the currently available extensometer data to the Ground Level Monitoring Committee (GLMC) for review.

Key questions regarding the PX include:

- How is Watermaster assessing the reliability/accuracy of the extensometer data?
- What adjustments have been made and are proposed to be made to the PX in the upcoming year and what is the anticipated result of those changes?
- What does the extensometer data currently indicate regarding ground-level motion in Northwest MZ-1?

Response:

We concur with the recommendation to brief the GLMC re: the currently available extensometer data and answer the questions listed above. This topic will be included on the GLMC meeting agenda for August 1, 2024.

Comment 2 – Basin-Wide Ground-Level Monitoring Program (InSAR)

A significant cost identified under this task is $62,000 for "preparation and checking" of InSAR data. What is the basis for this cost, and are there opportunities for more efficiency by workflow automation in the data processing (e.g. save money over time)?

Response:

The basis for this cost is about 28 days of staff time multiplied by the various daily rates by staff position.

The Watermaster Engineer has recently hired Sean Yarborough to perform this task directly. Mr. Yarborough previously worked for the long-time InSAR subconsultant that worked for the Watermaster. The engineer expects the level of effort for this task to decrease in subsequent years as automated coding of processes are developed and implemented and as junior staff are trained to perform portions of this task.

Comment 3 – Develop a Subsidence-Management Plan for Northwest MZ-1

"…the same pattern of differential subsidence that occurred in the Managed Area during the time of ground fissuring."

The District suggests removing this clause from the sentence or revising to indicate that the differential subsidence conditions in the two areas are not identical. Groundwater levels in Northwest MZ-1 have

stabilized since the late 1970s and no ground fissuring has been reported in Northwest MZ-1 to date. Ground fissuring in the Managed Area was reported to occur as early as the early 1970s and accelerated in the early 1990s.

Response:

The phrase has been revised to read "*spatial* pattern of differential subsidence" to distinguish it from rates and magnitudes of subsidence.

Comment 4 – Progress to Implement Work Plan through FY 2023/24

"a. Establish a preliminary 'Northwest MZ-1 Guidance Level' of 630 ft-amsl for hydraulic heads in Layers 3 and 5 at the PX location. The preliminary Guidance Level is an aspirational Watermaster recommendation that, if achieved, would likely slow or stop aquitard compaction and land subsidence in Northwest MZ-1."

The District recommends removing language from this progress summary suggesting that the aspirational Watermaster recommendation would "likely slow or stop aquitard compaction and land subsidence in Northwest MZ-1." It is the District's understanding that modeling to support this statement has neither been conducted nor provided to the GLMC for review; as such, this statement is not supported by relevant technical analyses.

"d. Additional SMAs should be developed and evaluated with the 1D Models… The GLMC should participate in the scenario building exercises associated with these Watermaster efforts to develop the SMAs, so that the scenarios include various methods to achieve the Guidance Level."

Because the "Guidance Level" cited here has not yet been evaluated, scenario-building to meet this or any other proposed guidance level is premature. Any proposed guidance level should be simulated versus a no-action alternative to evaluate the effectiveness of the guidance level at reducing projected land subsidence versus a no-action alternative. The simulation results should then be presented to the GLMC for review prior to initiating any scenario-building to meet the proposed guidance level.

Response:

For (a), the statement suggesting that the aspirational Watermaster recommendation would "likely slow or stop aquitard compaction and land subsidence in Northwest MZ-1" is based on the physics of aquitard drainage—not on modeling. In other words, any increases in hydraulic heads within the deep aquifer system would have the result of slowing or stopping aquitard drainage.

For (d), the ongoing process to re-evaluate the Safe Yield will include a "no action" scenario(s) and will include 1D compaction modeling in Northwest MZ-1 for review by the GLMC.

Comment 5 – Construct and Calibrate Additional 1D Models Across Western Chino Basin

Regarding Additional Expenditure on 1-D Models

The District continues to have concerns regarding the use of 1-D Models as management tools in Northwest MZ-1 and other Areas of Subsidence Concern. Given the size and heterogeneity of the alluvial sediments across the Areas of Subsidence Concern, the limitations and appropriateness of 1-D models should be re-evaluated before additional budget expenditures. (See above comments on Proposed Locations and Data for Construction/Calibration of Additional 1D Models.)

"The Watermaster used the information derived from the 1D Models to develop a preliminary 'Guidance Level' to avoid future subsidence in Northwest MZ-1."

The District's understanding is that the "preliminary 'Guidance Level'" cited here for the deep aquifer was based on water levels in the shallow aquifer and not on "information derived from the 1D Models." If this is the case, this language does not reflect how the preliminary "Guidance Level" was developed. The preliminary "Guidance Level" was not based on an analysis of 1D Models with the guidance level implemented or evaluated compared to a no-action alternative. Whether the currently proposed guidance level will avoid future subsidence is also unknown. The District recommends that this sentence be removed or modified to reflect the approach taken and the uncertainty regarding the effectiveness of the preliminary "Guidance Level."

Response:

As stated in this memorandum, this task was budgeted and scheduled for completion in FY 2023/24. No additional budget in FY 2024/25 is necessary to complete this task.

Brownstein Hyatt Farber Schreck **FY 2024-2025 Proposed Budget** **March 25, 2024**

Account	Description		Note	Total Hours	Labor (Cost) Cost Task	Labor (Cost) Cost Account	FY 2024/2025 Budget	FY 2023/2024 Budget
	WM Legal Services - Meetings, Business Items, Associated Activities						***$ 249,798***	***$ 240,230***
6275	Advisory Committee Meetings	4 Hours/Month X 11 Months @ $631		44	$ 27,764			
6375	Board Meetings	12 Hours/Month X 11 Months @ $672		132	$ 88,704			
6375.1	Board Briefings/Workshops	20 Hrs @ $672, 25 Hrs @ $631		45	$ 29,215			
8375	Appropriative Pool Meetings	5 Hours/Month X 11 Months @ $631		55	$ 34,705			
8475	Agricultural Pool Meetings	5 Hours/Month X 11 Months @ $631		55	$ 34,705			
8575	Non-Agricultural Pool Meetings	5 Hours/Month X 11 Months @ $631		55	$ 34,705			
	Total for Activity			***386***	***$ 249,798***	***$ 249,798***		
6070	***WM Legal Services***						***$ 414,051***	***$ 565,964***
6071	Court Coordination	80 Hrs @ $672, 80 Hrs @ $631, 100 Hrs @ $398		260	$ 144,040			
6072	Rules and Regs	5 Hrs @ $672, 5 Hrs @ $631, 10 Hrs @ $398		20	$ 10,495			
6073	Personnel Matters	50 Hrs @ $563	A	50	$ 28,150			
6074	Interagency Issues	72 Hrs @ $563	B	72	$ 40,536			
6077	Party Status Maintenance	10 Hrs @ $563, 20 Hrs @ $398	C	30	$ 13,590			
6078	Miscellaneous	80 Hrs @ $672, 120 Hrs @ $631, 120 Hrs @ $398	D	320	$ 177,240			
	Total for Activity			***752***	***$ 414,051***	***$ 414,051***		
6907.31	***Archibald South Plume***						***$ 12,565***	***$ 12,085***
	Archibald South Plume	5 Hrs @ $672, 5 Hrs @ $579, 10 Hrs @ $631		20	$ 12,565			
	Total for Activity			***20***	***$ 12,565***	***$ 12,565***		
6907.32	***Chino Airport Plume***						***$ 12,565***	***$ 12,085***
	Chino Airport Plume	5 Hrs @ $672, 5 Hrs @ $579, 10 Hrs @ $631		20	$ 12,565			
	Total for Activity			***20***	***$ 12,565***	***$ 12,565***		
6907.33	***Desalter/Hydraulic Control Issues***						***$ 38,680***	***$ 37,200***
	Continued CDA Support	10 Hrs @ $672, 20 Hrs @ $631		30	$ 19,340			
	Hydraulic Control	10 Hrs @ $672, 20 Hrs @ $631		30	$ 19,340			
	Total for Activity			***60***	***$ 38,680***	***$ 38,680***		
6907.34	***Santa Ana River Water Rights***						***$ 21,405***	***$ 20,595***
	Water Right Permits 21225, 20753 and 19895	15 Hrs @ $631, 30 Hrs @ $398		45	$ 21,405			
	Total for Activity			***45***	***$ 21,405***	***$ 21,405***		
6907.36	***Santa Ana River Habitat Conservation Plan***	10 Hrs @ $672, 20 Hrs @ $631, 30 Hrs @ $398		60	$ 31,280		***$ 31,280***	***$ 30,090***
	Total for Activity			***60***	***$ 31,280***	***$ 31,280***		
6907.38	***Reg. Water Quality Control Board***						***$ 63,200***	***$ 30,090***
	Legal counsel involvement in ongoing issues	25 Hrs @ $672, 40 Hrs @ $563, 60 Hrs @ $398		125	$ 63,200			
	Total for Activity			***125***	***$ 63,200***	***$ 63,200***		
6907.39	***Recharge Master Plan***						***$ 14,270***	***$ 30,495***
	Implementation/Update	10 Hrs @ $631, 20 Hrs @ $398		30	$ 14,270			
	Total for Activity			***30***	***$ 14,270***	***$ 14,270***		
6907.40	***Storage Agreements***						***$ -***	***$ 16,960***
	Resolution of storage issues			0	$ -			
	Total for Activity			***0***	***$ -***	***$ -***		
6907.41	***Prado Basin Habitat Sustainability***						***$ 10,290***	***$ 9,900***
	Prado Basin Habitat	10 Hrs @ $631, 10 Hrs @ $398		20	$ 10,290			
	Total for Activity			***20***	***$ 10,290***	***$ 10,290***		
6907.44	***SGMA Compliance***						***$ 10,290***	***$ 9,900***
	SGMA Compliance	10 Hrs @ $631, 10 Hrs @ $398		20	$ 10,290			
	Total for Activity			***20***	***$ 10,290***	***$ 10,290***		
6907.45	***OBMP Update***						***$ 177,240***	***$ 172,880***
	OBMP Update	80 Hrs @ $672, 120 Hrs @ $631, 120 Hrs @ $398		320	$ 177,240			
	Total for Activity			***320***	***$ 177,240***	***$ 177,240***		
6907.47	***2020 Safe Yield Reset***						***$ 80,190***	***$ 33,920***
	2020 Safe Yield Reset	25 Hrs @ $672, 50 Hrs @ $631, 80 Hrs @ $398		155	$ 80,190			
	Total for Activity			***155***	***$ 80,190***	***$ 80,190***		
6907.48	***Ely Basin Investigation***						***$ 64,890***	***$ 126,040***
	Ely Basin Investigation	20 Hrs @ $672, 50 Hrs @ $631, 50 Hrs @ $398		120	$ 64,890			
	Total for Activity			***120***	***$ 64,890***	***$ 64,890***		
6907.49	***San Sevaine Basin Discharge***						***$ 110,080***	
	San Sevain Basin Discharge	80 Hrs @ $563, 40 Hrs @ $631, 100 Hrs @ $398		220	$ 110,080			
	Total for Activity			***220***	***$ 110,080***	***$ 110,080***		
6907.9	***WM Legal Counsel - Unanticipated***						***$ 38,885***	***$ 37,395***
	Miscellaneous	25 Hrs @ $672, 35 Hrs @ $631		60	$ 38,885			
	Total for Activity			***60***	***$ 38,885***	***$ 38,885***		
	Total--All Accounts			***2,193***	***$ 1,349,679***	***$ 1,349,679***	***$ 1,349,679***	***$ 1,385,829***

Notes:
(A) Includes attorney and witness preparation, hearing attendance and potential post-hearing activities.
(B) Variety of day-to-day matters that arise throughout the month concerning the Judgment, Rules, agreements, etc.
(C) Activities related to clean-up and maintenance of Watermaster's roster of parties and Pool members, along with potential Court filings.
(D) Variety of day-to-day activities such as workshop reviews; research Pool membership issues; stormwater and new yield; review agreements and contracts; coordination of ongoing Watermaster projects; review of draft documents; special activities as requested by GM, etc.

General Notes:

* Brownstein maintains a 10% discount on all fees over $100,000 as part of the original contract with Watermaster.

* Rather than attempt to project which budget items would be affected by the 10% discount, and which out-of-pocket cost items might be relevant to which budget items, the budget detail assumes they offset each other.

* Rates for most BHFS attorneys reflect an increase for the first time in several years.

Brownstein Hyatt Farber Schreck

Memorandum

DATE: March 26, 2024

TO: Watermaster Staff

FROM: Brownstein Hyatt Farber Schreck, LLP

RE: FY 2024-2025 Legal Counsel Budget Detail and Analysis

This worksheet has been prepared at your request to provide additional detail regarding the expected legal fees and costs that will be incurred if Watermaster implements its responsibilities under the Restated Judgment, pending Court Orders, including the Peace I and Peace II Agreements, and the Optimum Basin Management Program (OBMP). The Nine Member Board is expected to implement these measures. Additional fees and costs may be incurred in connection with actions that are within Watermaster's duties and implementation authority but outside the control of staff and counsel. That is, Parties to the Restated Judgment and persons not bound by the Restated Judgment may initiate actions that require a response from Watermaster.

This worksheet utilizes the original budget as proposed by legal counsel in March of 2024, and will be updated, as necessary, so that any adjustments in the budgeted amount can be made considering actual projections concerning time and level of activity associated with anticipated budget line items. The experience of Watermaster over the past more than twenty years since Brownstein Hyatt Farber Schreck (Brownstein) was retained as counsel provides a basis for the budget based upon a customary level of activity. These projections are included within the budget as requested to provide service as legal counsel to the Board. Thus, the proposed budget amount analyzed below is $1,349,679, which includes a roughly $38,000 allocation for unanticipated activities.

Budget Assumptions: The number of hours expended to provide the desired level of service is the primary factor in legal counsel expense. The budgeted amount includes reimbursement for out-of-pocket costs that include phone charges, electronic legal research charges, travel costs (including mileage, lodging, etc.) and other incidental costs. While these costs traditionally vary from month to month, they do not constitute a material portion of the budget. Typically, 2-5% of a monthly bill is cost recovery.

Brownstein has represented Watermaster for over 20 years and consequently, as a matter of Brownstein policy, Watermaster enjoys a continuing and gradually steepening discount against standard rates. In some cases, the discount approaches 45%. As a further accommodation to Watermaster and its favored status, Brownstein maintains a 10% discount on all fees over $100,000 as part of our original contract with Watermaster. When spread over the entirety of the Brownstein fees, this discount results in an approximately 8.5% discount on all fees whenever incurred.

Rather than attempting the detailed analysis that would be required to project which budget items would be affected by this discount, and which out-of-pocket cost items might be relevant to which budget items, the budget detail below uses a simple multiplier of time spent against rates for each attorney. This has the effect of creating an approximate 6% cushion in the estimates provided below assuming that the cost ration from recent bills is representative (i.e., 8.5% - 2.5% = 6%).

Slater and Herrema are the principal lawyers assigned to the Watermaster matter. Over the years, Slater's activities are generally reserved to Watermaster Board meetings, assignments directed by the Board, and task driven.

Definition of "unanticipated expenses": For the purposes of this memorandum, "unanticipated expenses" refers to an amount of money that is budgeted to account for legal issues that may arise post budget approval that were not anticipated in the budget, or to account for underestimates in the budget for the anticipated matters as a result of unforeseen complexity. Historically, the Watermaster budget preference had been to under fund all parts of the budget, including contingency, so as to not create an expectancy of the higher expenditure. Experience suggests that the Watermaster Board and the Parties to the Restated Judgment have been more comfortable with assigning additional funding to a matter after the actual need has been identified. Such funds whose use requires a Board-approved budget transfer/amendment are sometimes identified as "contingency." This analysis uses the term "unanticipated expenses" in the first sense to refer to an amount of money that is budgeted to account for unanticipated expenses.

Detail articulated below includes:

Regular Meeting Attendance	$220,583
Board Briefings/Workshops	$ 29,215
Court Coordination	$144,040
Rules and Regs Rewrite	$ 10,495
Personnel Matters	$ 28,150
Interagency and Miscellaneous	$217,776
Party Status Maintenance	$13,590
Total:	$663,849

Regular Meeting Attendance (6275, 6375, 8375, 8475, 8575) $220,583

Assumptions: Three meeting days per month staffed by one attorney per meeting. Assumed hours commitment of 5 hours per Pool Committee meeting and 4 hours per Advisory Committee meeting, inclusive of attendance, travel and preparation. Assumption of regular attendance by Slater at the Board meeting (12 hours x 11 months = 132 hours), and by Herrema at Pool Committees and Advisory Committee (5 hours x 3 pool committees x 11 months + 4 hours x 11 months = 209 hours) for an approximate total of $220,583.

Board Briefings/Workshops (6375.1) $ 29,215

Over the past few years, Watermaster staff and legal counsel have conducted Board Briefings to provide Board members with information as to the legal background for Watermaster's activities, the functions of the Pool Committees, Advisory Committee and Board, the role of Watermaster staff and current issues. This budget assumes that one or two briefings or workshops will take place in FY 2024-2025. Responsibility for this task is shared by Slater (20 hours) and Herrema (25 hours) for an approximate total of $29,215.

Court Coordination (6071)

Activities:

(1) Regular court hearings $144,040

Based on present trends in the motion practice before the Court and the pending appeals before the Court of Appeal, we anticipate a continued high level of effort in 2024-2025 in regard to interactions with the Courts. Given that Court hearings require more preparation than regular monthly meetings, this category assumed an hour commitment of 30 hours per hearing inclusive of attendance, travel and preparation of reports or other filings. This category assumes one attorney per hearing, though it is often necessary to staff

a hearing with more than one attorney. Responsibility for this task is shared equally between Slater (80 hours) and Herrema (80 hours) with assistance from associate attorney Laura Yraceburu or an equivalent billing attorney (100 hours) for an approximate total of $144,040.

(2) Rules and Regulations Rewrite (6072) $ 10,495

Watermaster Board has directed that the Rules and Regulations be reviewed for any necessary updates every other year. While a planned update is proceeding during FY 2023-2024, legal counsel spend a small amount of time each year tracking necessary updates for the biennial updates. This budget item presents the level of effort for such a rewrite. Responsibility for this task is shared by Slater (5 hours), Herrema (5 hours), and Yraceburu (10 hours) for an approximate total of $10,495.

Personnel (6073) $ 28,150

It is not anticipated that any significant personnel issues will arise in FY 2024-2025, though some level of activity is the norm in any year. Thus, we have proposed a nominal budget for this item for employment and benefits counsel, Christine Samsel and Nancy Strelau of 50 hours, and an approximate total of $28,150.

Interagency Issues and Miscellaneous (6074 and 6078) $217,776

There are always a variety of day-to-day matters that arise throughout a month concerning questions that require interpretation of the Restated Judgment, Rules, agreements, etc. Herrema (120 hours) is the attorney responsible for these matters, with assistance from Slater (80 hours) and Yraceburu (120 hours), with an approximate cost of $177,240.

To the extent that agreements between the parties arise, there will likely be a nominal involvement from legal counsel. In addition, it is likely that several interagency agreements will be required in FY 2024-2025 as in past years. These activities assume the work will be done by Herrema (72 hours) for an approximate total of $40,536.

Party Status Maintenance (6077) $ 13,590

In each year, there is a small amount of work to do to regarding the proper placement of parties in Pools and the Pool and party rosters. The proposed budget assumes working with Watermaster staff to undertake this clean-up. The proposed budget assumes that Herrema will be the primary attorney assigned to this task (10 hours) with assistance from Yraceburu (20 hours), for an approximate total of $13,590.

Archibald South Plume (6907.31) $ 12,565

The proposed budget assumes that Slater will be the primary attorney assigned to the task of any necessary ABGL facilitation (5 hours) with input from Mark Mathews (5 hours) and involvement from Herrema (10 hours) for an approximate total of $12,565.

Chino Airport Plume (6907.32) $ 12,565

The proposed budget assumes that Slater will be the primary attorney assigned to the task of any facilitation related to the Chino Airport Plume (5 hours) with input from Mark Mathews (5 hours) and involvement from Herrema (10 hours) for an approximate total of $12,565.

Desalter/Hydraulic Control Issues (6907.33) $ 38,680
Regional Water Quality Control Board (6907.38) $ 63,200

Given the significance of the Desalter and Hydraulic Control issues to the OBMP, legal counsel believes it is appropriate to expect continuing activity on this issue continuing into FY 2023-2024 – specifically in light of the reduced groundwater production in areas of the Basin due to water quality concerns. Given his participation in the CDA facilitation, Slater will be the primary attorney (20 hours) with assistance from Herrema (40 hours), for an approximate total of $38,680.

Regarding the Regional Water Quality Control Board, a Basin Plan Amendment related to the revision to the Salt and Nutrient Management Plan is planned to proceed in FY 2024-2025. On this matter, Slater will provide (25 hours), Herrema (40 hours), and Yraceburu (60 hours) for an approximate total of $63,200.

Santa Ana River Water Rights (6907.34) $ 21,405

Legal counsel is currently completing a process to extend the time in which Watermaster must seek to license its water right permit numbers 19895 and 20753 – a substantial amount of work was completed on this in FY 2017-2018, and additional progress has been made in FY 2021-2022 but it is likely that the SWRCB's processing will not be completed until FY 2024-2025. SWRCB staff have requested additional information in order to complete this process. Watermaster additionally is required to complete annual reporting to the Department of Fish and Wildlife and the SWRCB regarding its diversions under its permit 21225. In addition, given the history on the Santa Ana River it is prudent to account for some level of activity regarding water rights on the River. Work under this budget item is split 1/3 Herrema (15 hours) and 2/3 Yraceburu or an equivalent billing attorney (30 hours) for an approximate total of $21,405.

Santa Ana River Habitat Conservation Plan (6907.36) $ 31,280

There is an increased level of interest in species issues on the Santa Ana River. These include the development of a Habitat Conservation Plan for certain activities within the watershed, potential environmental review related to the SARCCUP, as well as litigation related to diversions and operations within the River. These issues touch on Watermaster's interests in the River, including its stormwater diversions in the Prado Basin watershed and the Prado Basin Habitat Sustainability Committee activities. The Parties and the Board have shown an interest in continuing to be kept abreast of these developments and we anticipate work related to the implementation of the HCP and the formation of the entity responsible for implementation in FY 2024-2025. It is anticipated that the effort in this regard will be spread among Slater (10 hours), Herrema or equivalent attorney (20 hours), and Yraceburu (30 hours) for an approximate total of $31,280.

Recharge Master Plan (6907.39) $ 14,270

Each year, counsel spends a limited amount of time assisting with administration of the projects approved as part of the RMPUs. It is anticipated that the effort in this regard will be spread among Herrema (10 hours) and Yraceburu or an equivalent billing attorney (20 hours) for an approximate total of $14,270.

Storage Agreements (6907.40) $ 0

At present, there is no work anticipated to be done in conjunction with storage agreements or the review of any Storage & Recovery application.

Prado Basin Habitat Sustainability (6907.41) $ 10,290

The Peace II Subsequent Environmental Impact Report includes mitigation requirements as to the development of a Prado Basin Habitat Sustainability Committee and Program be developed. Watermaster and IEUA have entered into a cost sharing agreement as to the required mitigation and Watermaster will have ongoing obligations thereunder. It is anticipated that Herrema will provide (10 hours) and Yraceburu (10 hours) for an approximate total of $10,290.

SGMA Compliance (6907.44) $ 10,290

Based on the Chino Basin's adjudicated status, Watermaster has certain obligations to annually report information to DWR. It is anticipated that there will also be a minimal amount of work associated with tracking and evaluating how new SGMA directives may affect the Basin or suggest changes to Basin management. This will include work by Herrema (10 hours) and Yraceburu or an equivalent billing attorney (10 hours) for an approximate total of $10,290.

OBMP Update (6907.45) $177,240

The Watermaster Board approved the 2020 OBMP in October 2020. The LSLS was approved in July. Work in 2024-2025 would include assistance with OBMPU implementation and assisting the parties with issues associated with potential amendments to the Peace Agreement and OBMPU Implementation Plan. This effort would include work by Slater (80 hours), Herrema (120 hours) and Yraceburu or an equivalent billing attorney (120 hours) for an approximate total of $177,240.

2021 Safe Yield Reset (6907.47) $ 80,190

The Court's 2017, 2019, and 2020 orders as to future Safe Yield resets include processes for potential update to the reset methodology, peer review, and the outcome of the State's process regarding water use efficiency requirements. There will be work in FY 2024-2025 associated with the implementation of these orders, including the completion of the 2025 Safe Yield Reevaluation. This will include work by Slater (25 hours), Herrema (50 hours), and Yraceburu or an equivalent billing attorney (80 hours) for an approximate total of $80,190.

Ely Basin Litigation (6907.48) $64,890

Watermaster has been brought in as a defendant in the Kaiser Permanente plaintiffs' lawsuit. Trial in the matter had been set for March 2024 and a settlement in principle has been agreed upon but not yet finalized. For this item, it is anticipated that it will include work by Slater (20 hours), Herrema or litigation counsel (50 hours) and Yraceburu or an equivalent billing attorney (50 hours) for an approximate total of $64,890.

San Sevaine Basin Discharge (69007.XX) $110,080

Watermaster and IEUA recharge stormwater and recycled water in the San Sevaine recharge basins. During the winter of 2022-23, sediment was discharged into the basins from upgradient properties. Watermaster and IEUA are seeking compensation for the impacts of that sedimentation. For this item, it is anticipated that it will include work by Slater (40 hours), Herrema or litigation counsel (80 hours) and Yraceburu or an equivalent billing attorney (100 hours) for an approximate total of $64,890.

Unanticipated Activities (6907.9) $ 38,885

Regarding the unanticipated activities that may occur during the year (please see the discussion on page 1, above), Slater has been budgeted at (25 hours) and Herrema is budgeted (35 hours) for an approximate total of $38,885.

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Recharge Water Program
FY 2024/25 Proposed Budget
Debt Service and Operations and Maintenance

Alex Lopez

Treasurer

March 2024

Summary Debt Service

Debt Type	FY 2024/25 Budget	Funding from CBWM	Funding from IEUA
2020A Refunding Bonds (2008B Variable)	$759,649	$379,825	$379,824
San Sevaine Improvement (SRF loan)	$101,947	$50,973	$50,974
Lower Day Basin Improvement (SRF Loan)	$54,550	$54,550	$0
Montclair Basin Improvement (SRF Loan)	$97,446	$97,446	$0
Interfund loan supporting RMPU projects (interest only)**	$202,100	$189,974	$12,126
Total Debt service	**$1,215,692**	**$772,768**	**$442,924**

** State Water Resources Control Board (SWRCB) is significantly behind in processing disbursements for SRF loans and grants; outstanding receivables are $8.6 million related to the RMPU projects.

FY 2024/25 budget includes interest on outstanding interfund loans of $ 202,100. The interfund loan principal is expected be repaid beginning in FY 2023/24 and ending in FY 2026/27, payments will be made with proceeds of the SRF loans.

Bond Debt Service

2020A Refunding (2008B Variable) $5.7M 11 years @ 0.849% Matures 2032	FY 2024/25 Budget	Funding from CBWM	Funding from IEUA
Principal Payment	$647,490	$323,745	$323,745
Interest Expense	308,829	154,415	154,414
Financial Expense	606	303	303
Total Bond Debt Service	$956,925	$478,463	$478,462
Deferred Amortization adjustment	(197,276)	(98,638)	(98,638)
Debt Service (net of adjustment)	**$759,649**	**$379,825**	**$379,824**

SRF Loan Debt Service

San Sevaine Improvement (SRF Loan) $1.5M 30 Years @ 1.8% Matures Dec. 2049	FY 2024/25 Budget	Funding from CBWM	Funding from IEUA
Principal Payment	$64,102	$32,051	$32,051
Interest Expense	37,845	18,922	18,923
Debt Service	**$101,947**	**$50,973**	**$50,974**

Lower Day Improvement (SRF Loan) $2.9M 20 Years @ .55% Matures Jan. 2044	2024/25 Budget	Funding from CBWM	Funding from IEUA
Principal Payment	$52,194	$52,194	$0
Interest Expense	2,356	2,356	0
Debt Service	**$54,550**	**$54,550**	**$0**

Montclair Basin Improvement (SRF Loan) $2.06M 20 Years @ .55% Matures Feb. 2044	2024/25 Budget	Funding from CBWM	Funding from IEUA
Principal Payment	$90,562	$90,562	$0
Interest Expense	6,884	6,884	0
Debt Service	**$97,446**	**$97,446**	**$0**

Inter-Fund Loan Debt Service and Future SRF Loan Debt Service

Inter-Fund Loan Debt Service

Inter-Fund Loan to Recharge Water FY 2021 $933,000, FY 2022 $7.0M, FY 2023 $10.105M	FY 2024/25 Budget	Funding from CBWM	Funding from IEUA
Interest Expense	$202,100	$189,974	$12,126
Total Interest Expense	**$202,100**	**$189,974**	**$12,126**

Future SRF Loan Debt Service

Wineville/Jurupa/RP3 Rchg. Imprv. (SRF Loan) $15.38M 20 Years @ .55% Matures Feb. 2045	FY 2025/26 Budget	Funding from CBWM	Funding from IEUA
Principal Payment	$731,432	$665,603	$65,829
Interest Expense	81,948	74,573	7,375
Debt Service*	**$813,380**	**$740,176**	**$73,204**

** Information is from SWRCB payment schedule dated 5/21/23. Debt service amounts are subject to change, amounts are based on total project costs and related total loan draws.*

Operations and Maintenance

Expense	2024/25 Budget	Funding from CBWM*	Funding from IEUA*
SBCFCD	$12,000		
CBWCD	2,000		
IEUA – Operations & Maintenance:			
General Basin	1,250,656		
GWR Administration	667,180		
Specialty O&M	99,000		
Utilities	153,000		
General Allocation (10%)	218,384		
Total	**$2,402,220**	**$1,587,607**	**$814,613**

**Based on Groundwater Recharge Pro-Rata Methodology schedule*

Groundwater Recharge Pro Rata Cost Sharing Methodology
60-Month (5-Year) Recharge History to Proposed Budget

[A] / [B] Drainage / Facility	[C] Facility Site Weight	[D] 60-Month (5-year) Recharge (AF) February 2019 to January 2024 SW/LR	[E] MWD	[F] RW	[G] Recharge Total	[H] CBWM Pro Rata SW/LR & MWD	[I] IEUA Pro Rata RW	[J] GWR O&M FY Budgeted Expenses (2024/25)* Basin Maintenance Services	[K] Basin Maintenance SBC and WCD	[L] O&M Labor	[M] Utilities	[N] Contracted Specialty Repairs	[O] Facility Cost Subtotal	[P] Cost Share* CBWM Share	[Q] IEUA Share
Facilities That Can Be Utilized for Recharge With Recycled Water															
San Antonio Channel															
Brooks	1.00	2,496	157	4,666	7,319	36%	64%	$ 17,655.923	$ 500.00	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 72,550.79	$ 26,297.31	$ 46,253.48
West Cucamonga Creek															
7th & 8th Street	1.00	4,685	999	7,104	12,788	44%	56%	$ 227,328.877	$ 857.14	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 282,580.89	$ 125,603.05	$ 156,977.84
Ely	1.00	8,290	104	4,326	12,719	66%	34%	$ 40,491.027	$ 500.00	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 95,385.89	$ 62,944.91	$ 32,440.98
Cucamonga Creek															
Turner 1 & 2	1.00	4,155	1,329	195	5,679	97%	3%	$ 35,102.68	$ 857.14	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 90,354.69	$ 87,248.78	$ 3,105.91
Deer Creek															
Turner 3, 4, 5 & 8	1.00	2,247	0	1,457	3,704	61%	39%	$ 23,200.00	$ 857.14	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 78,452.01	$ 47,588.01	$ 30,864.00
Etiwanda Creek															
Victoria	1.00	3,108	1,230	7,197	11,535	38%	62%	$ 24,805.80	$ 857.14	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 80,057.81	$ 30,106.01	$ 49,951.80
San Sevaine Creek															
San Sevaine 1,2,3, 4, & 5	1.00	5,969	10,586	9,796	26,351	63%	37%	$ 40,402.59	$ 857.14	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 95,654.60	$ 60,094.49	$ 35,560.11
West Fontana Channel															
Banana	1.00	1,209	0	4,039	5,248	23%	77%	$ 14,909.04	$ 857.14	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 70,161.05	$ 16,163.96	$ 53,997.08
Hickory	1.00	1,198	2,126	2,029	5,353	62%	38%	$ 15,370.57	$ 857.14	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 70,622.58	$ 43,857.27	$ 26,765.31
Declez Channel															
RP-3 Cells 1, 2R, 3, and 4 (2M recharge)	0.80	2,853	959	30,263	34,075	11%	89%	$ 245,387.75	$ -	$ 32,182.56	$ 4,133.33	$ 7,200.00	$ 288,903.64	$ 32,316.61	$ 256,587.03
Declez	1.00	3,536	0	3,644	7,180	49%	51%	$ 185,321.78	$ 857.14	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 240,573.79	$ 118,464.11	$ 122,109.68
Subtotals	10.80	39,744	17,490	74,717	131,950			$ 869,976.04	$ 7,857.14	$ 434,464.56	$ 55,800.00	$ 97,200.00	$ 1,465,297.74	$ 650,684.50	$ 814,613.24
Facilities That Can Be Utilized for Recharge with Imported and Stormwater Only															
San Antonio Channel															
College Heights	1.00	190	11,307	0	11,498	100%	0%	$ 11,862.64	$ 500.00	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 66,757.51	$ 66,757.51	$ -
Upland	1.00	2,561	3,999	0	6,560	100%	0%	$ 8,200.00	$ -	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 62,594.87	$ 62,594.87	$ -
Montclair 1 - 4	1.00	6,466	28,578	0	35,043	100%	0%	$ 8,200.00	$ 500.00	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 63,094.87	$ 63,094.87	$ -
Day Creek															
Lower Day	1.00	3,392	7,129	0	10,520	100%	0%	$ 264,086.20	$ 857.14	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 319,338.21	$ 319,338.21	$ -
Wineville	1.00	0	0	0	0	100%	0%	$ 27,000.00	$ 857.14	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 82,252.01	$ 82,252.01	$ -
Etiwanda Creek															
Etiwanda Debris Basin	1.00	1,785	3,892	0	5,677	100%	0%	$ 12,166.85	$ 857.14	$ 40,228.20	$ -	$ 9,000.00	$ 62,252.19	$ 62,252.19	$ -
San Sevaine Creek															
Jurupa	1.00	2,438	1,581	0	4,019	100%	0%	$ 16,398.11	$ 857.14	$ 40,228.20	$ 60,000.00	$ 9,000.00	$ 126,483.45	$ 126,483.45	$ -
Declez Channel															
RP3 Cell 2M (cost)	0.20					100%	0%	$ 12,400.00	$ 857.14	$ 8,045.64	$ 1,033.33	$ 1,800.00	$ 24,136.12	$ 24,136.12	$ -
Misc.															
Grove Basin	1.00	1,456	0	0	1,456	100%	0%	$ 12,189.56	$ 857.14	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 67,441.57	$ 67,441.57	$ -
MWD Turnouts	1.00					100%	0%	$ 8,176.92	$ -	$ 40,228.20	$ 5,166.67	$ 9,000.00	$ 62,571.79	$ 62,571.79	$ -
by basin ~~Rubber Dams~~	~~0.00~~					~~50%~~	~~50%~~						~~$ -~~	~~$ -~~	~~$ -~~
Subtotals	9.20	18,288	56,485	0	74,774			$ 380,680.28	$ 6,142.86	$ 370,099.44	$ 97,200.00	$ 82,800.00	$ 936,922.58	$ 936,922.58	$ -
Subtotal - All Facilities General O&M	20.00	58,032	73,975	74,717	206,724			$ 1,250,656.32	$ 14,000.00	$ 804,564.00	$ 153,000.00	$ 180,000.00	$ 2,402,220.32	$ 1,587,607.08	$ 814,613.24
Special O&M Projects															
None	1.00					50%	50%							$ -	$ -
														$ -	$ -
Subtotals													$ -	$ -	$ -
Total - General O&M and Projects	20.00	58,032	73,975	74,717	206,724			$ 1,250,656.32	$ 14,000.00	$ 804,564.00	$ 153,000.00	$ 180,000.00	$ 2,402,220.32	$ 1,587,607.08	$ 814,613.24

Footnotes:

* On quarterly invoices, IEUA will credit CBWM for an estimated pro rata cost share based on this cost sharing methodology
At the conclusion of the fiscal year upon obtaining final budget actuals, IEUA will account for a pro rata credit/debit to be applied to the then current fiscal invoicing cycle.

3/14/2024

\\hqafs03\Operations\Groundwater Recharge\Budgets\Pro-Rata Cost Share GWR\[Pro Rata GWR O&M Cost Sharing Methodology Table-FY2425-Draft.xlsx]2024-25 Cost Share Eval Draft

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: May 23, 2024

TO: Board Members

SUBJECT: PSMJ Study of Engineering Services Billing Rates (Business Item II.C)

SUMMARY:

Issue: Watermaster retained the services of PSMJ to conduct a market billing rate study for Engineering Services and to estimate the potential impact of changing service providers. [Normal Course of Business]

Recommendation: Information Only

Financial Impact: None

Future Consideration
Watermaster Board – May 23, 2024: Information Only

ACTIONS:
Advisory Committee – May 16, 2024: Information Only
Watermaster Board – May 23, 2024:

BACKGROUND

Watermaster has an engineering services contract with West Yost that is expiring in June 2024. As part of Watermaster's due diligence in ensuring that the Board is able to fulfill all its obligations and commitments in the most efficient manner, Watermaster has retained the services of PSMJ, a firm specializing in compensation studies to answer two fundamental questions:

- Are the billing rates from the current consultant within the industry standards?
- What would be the impacts of transitioning to a new engineering firm?

DISCUSSION

Watermaster staff met with PSMJ consultants to define the scope and objectives and to ensure that Watermaster needs were thoroughly understood in terms of the required services and specializations from engineering services firms.

PSMJ conducted an analysis that included information from over 350 engineering firms nationwide, then defined some key performance indicators to compare with our current engineering services provider, West Yost.

The results from this analysis are summarized in Attachment 1 and reveal that the current rate structure is on par with the industry standards. Furthermore, in the hypothetical case that Watermaster could find a firm with an average billing rate lower than our current consultant, the perceived savings would be of ~$120,000 per year, over a period of 5 years, however, the loss due to inefficiencies with the onboarding and transition to a new consultant would be $934,000.

The study also reveals that the accumulated value of the incumbent due to the experience and knowledge of the Chino Basin during more than 20 years is about $3.89 million. This leads to the conclusion that a new firm would need to offer savings exceeding $4 million to offset the value lost by changing consultants.

The results of the study were presented at the Advisory Committee meeting on May 16, 2024 and staff gathered feedback from stakeholders regarding the engineering services contract. The discussion centered around how to manage the scope of the services received.

ATTACHMENTS

1. Summary of Findings of Engineering Services Rate Analysis Presentation

Billing Rates Findings Presentation

Date: May 16th & 23rd, 2024

Presented by: Jay McRae

Findings Presentation

1. Introductions
2. Our Study Goals & Approach
3. Case Study: Definition of Qualified Firm
4. Analysis Assumptions (based on surveys and benchmarks)
5. Goal #1 Billing Rates
6. Goal #2 Consultant Retention Value/Transition Costs
7. Conclusions

Your Consultants – Jay McRae & Veronicann J. Gordon (Koren)

Jay McRae

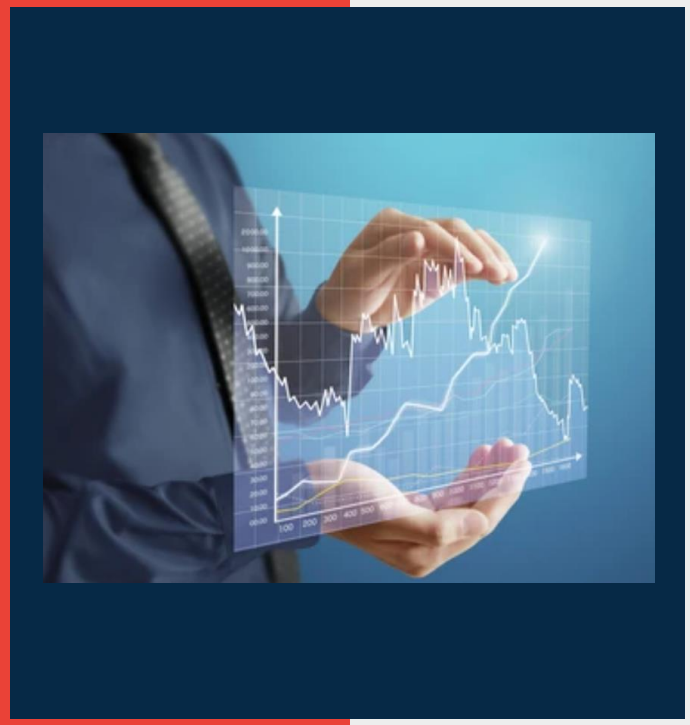
- **Education:** BSCE & MBA, Inducted to OSU's Academy of Distinguished Engineers
- **Over 40 Years A/E/C Work Experience:**
- *Construction* – horizontal heavy civil
- *Site, Civil Consulting Firm* – award winning water distribution project
- *Client - Oregon DOT* – 12 years, Full cycle experience from planning thru O&M
- *CH2MHILL – 21 years in variety of management and leadership positions*
- *PSMJ Association* – Senior Consultant 6 Years

VJ Gordon

- **Education:** Bachelor's degree in Business, MBE
- **More Than 35 Years A/E/C Work Experience:**
- Parsons Corporation – over 30 years experience including Director of Compensation for US Operations
- PSMJ Association – Senior Consultant

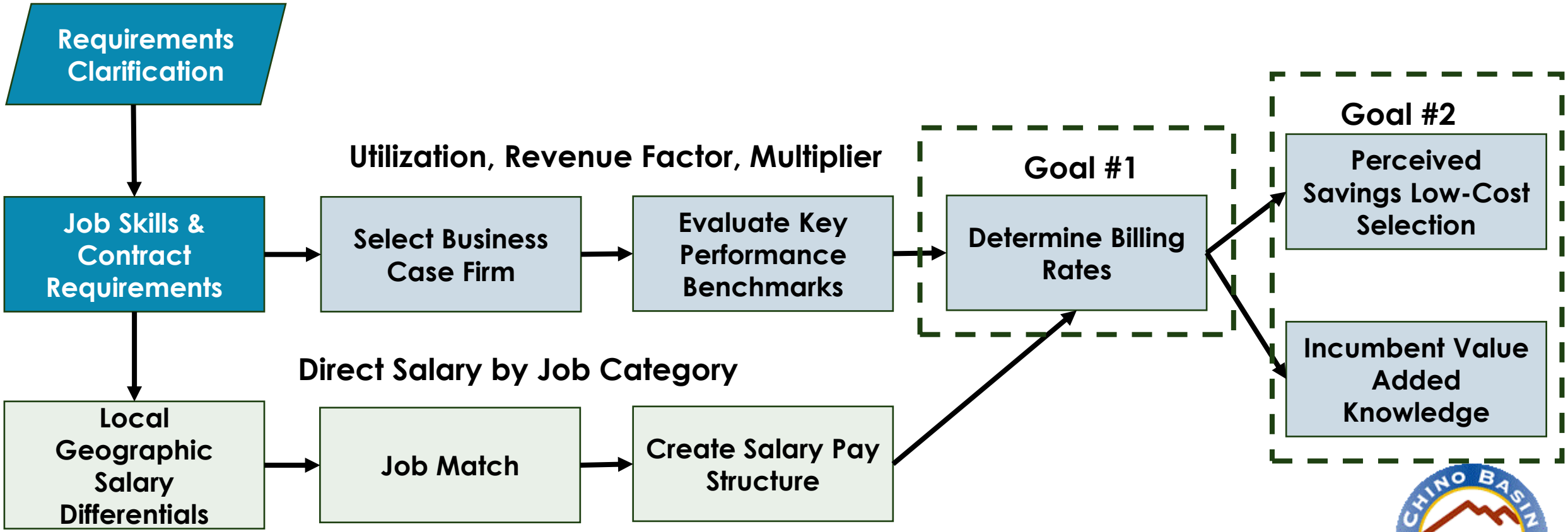
Our Goals:

1. Conduct market billing rate study



2. Estimate Impact Analysis of transition from the incumbent consultant to a new service provider

Our Study Approach



Case Study: Scope of Work & Firm Qualifications

Scope of Work

- **Regulatory Standards:** Fulfill technical duties as directed by 1978 Judgement
- **Schedule:** 5-year term
- **Contract Authorization:** estimated annual effort of approximately $2m or about 10,000 hours of staff time (5-6 FTE)
- **Tasks:** Groundwater modeling, monitoring, management, planning, and regulatory compliance

Firm Qualifications

- **Education** – Masters & PhD are necessary to develop, maintain tools, and equipment to conduct analysis for sustainable water management
- **Knowledge** of laws, policies, and regulations governing the water quality, supply, and the reliability of waters available
- **Expertise** in computer modeling, planning, field monitoring, database management, reporting regulatory compliance, engineering
- **Recommend** to decision makers sustainable practices based on engagement and communications with stakeholders

Independent Business Case Analysis

Survey data output – we evaluate using 25th percentile, median, mean, and 75th percentile in our analysis

Key performance indicators (KPI):

- **Payroll Multiplier (Revenue Factor)** – Correlated to profitability without having to include variable non-labor overhead expense. We use 75th percentile for niche firm.
- **Utilization Rate** – this KPI is based on the client billable labor in dollars divided by total cost of salaries. We use 25th percentile for niche firm.
- **Calculated Multiplier** – we calculate a multiplier by dividing Revenue Factor by Utilization.
- **Actual Multiplier** – we use the median for an average performing firm and 75th percentile representing a high performing firm to back check the Calculated Multiplier.

Analysis Assumptions

- **Firm Base Case Financial Benchmark Parameters**
  - Niche, narrow specialization, 50-350 FTE
  - Engineering Prime
  - US West Geography
  - Private or Non-Federal Government
  - Water/Wastewater Market
- **Key Performance Indicators**
  - Utilization
  - Revenue Factor
  - Actual Multiplier
  - Calculated Direct Labor Multiplier 3.98

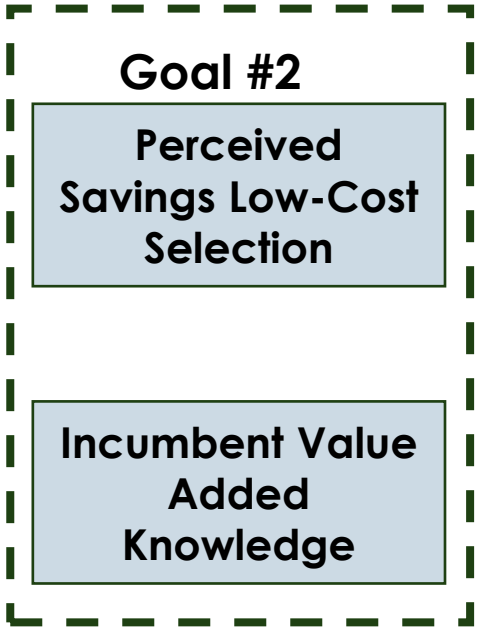
- **Compensation is a function of individual performance, degree type, experience, and location.**
  - Individual performance is factored into firm performance
  - Post graduate education is equivalent to experience
- **Labor categories (used to determine data set of widest survey responses):**
  - Geologist
  - Environmental Scientist
  - Engineer; Civil, Geotechnical, Water Resources
  - Engineering Intern
  - Administrative Assistant
  - Vice President
- **Geographic Salary Differentials from ERI for A/E Industry**
  - US – 1.0
  - Rancho Cucamunga, CA – 1.10
  - Lake Forest, CA. – 1.15

Goal #1: Market Billing Rates – Niche Firm

Pay Grade #-Role (years of experience)	Minimum Annual Direct Salary	Maximum Annual Direct Salary	Multiplier	Annual Labor Hours	Billing Rate Minimum (per hour)	Billing Rate Maximum (per hour)	Average Billing Rate (per hour)
9-Vice President	$190,900	$336,950	3.98	2080	$365.28	$644.74	$505.01
8-Manager	156,170	257,715	3.98	2080	$298.83	$493.13	$395.98
7-Engineer (20+) Field	135,355	216,545	3.98	2080	$259.00	$414.35	$336.67
6-Engineer/Scientist (20+)	121,785	188,715	3.98	2080	$233.03	$361.10	$297.06
5-Engr/Scientist (15-19)	105,800	158,700	3.98	2080	$202.44	$303.67	$253.06
4-Engr/Scientist (10-14)	89,240	133,860	3.98	2080	$170.76	$256.14	$213.45
3-Engr/Scientist (6-9)	79,120	118,680	3.98	2080	$151.39	$227.09	$189.24
2-Engr/Scientist (2-5)	70,840	106,260	3.98	2080	$135.55	$203.32	$169.44
1-Engr/Scientist (<2)	63,480	95,220	3.98	2080	$121.47	$182.20	$151.83

Note: Actual individual billing rates will depend on education, degree type, and performance.

Goal #2: Transition Evaluation Methods



Internal Firm Transition

1. Identify Internal Transition Variables
2. Classify Variables as
   A. One Time Impacts
   B. Cost of Doing Business Impacts, Risks That Could Affect All Firms Equally Including Incumbent
3. Estimate The Net Impact
4. Calculate Perceived Cost Savings From Selection Based on Price

Professional Services Learning Curve

1. Professional Services Research Literature Research
2. Learning knowledge results in 12% efficiency gain with every doubling of output

Transition – Perceived Cost Savings $1.52m From Lower Rates

New Firm Perceived Cost Savings

- Niche Firm billing rate = $215.64 per hour
- Assuming salaries are commensurate with a small to mid-sized niche firm are competitive.
- Select a typical, small to mid-sized firm, with median Actual Multiplier at 3.42
- Average billing rate = $185.30 per hour

Perceived Savings = ($215.64 - $185.30) x 50,000 hours = $1.52m per five-year contract duration

Internal Firm Transition Evaluation - $934K

Assumptions:

- Will new "good ideas" offset mistakes? Some, difficult to measure
- Onboarding is significant and diminishes over time
  - Onboarding includes "transactional activities" such as;
    - staff introductions,
    - locating office supplies,
    - developing new habits for routine communications & check-ins,
    - researching new task assignments,
    - assessing team member & client capabilities,
    - creating & locating reference files, etc.

Calculations

Utilization rate will be 75% effective the first 12 months

Onboarding Is Significant = 6 FTE x 840 Hours = 5040 total hours

Added Orientation Costs = 5040 hours X $185.30 per hour = $934k

Transition – Net Cost Savings - $586K

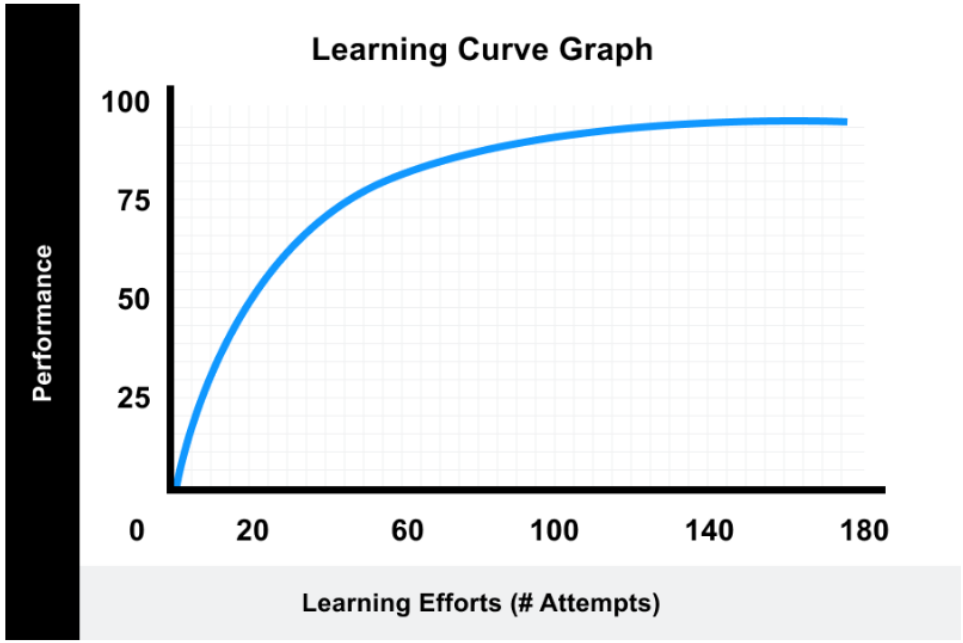
Conclusions:

- Perceived cost savings is not the only consideration
- Onboarding and assimilation takes time, adding cost for inefficiency

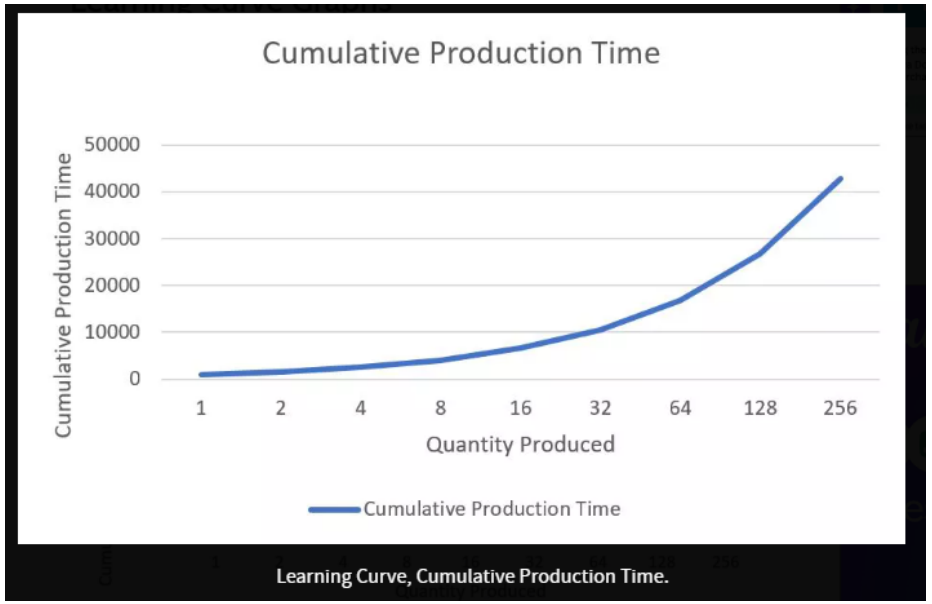
Perceived Cost Savings – Added Orientation Costs = Cost Savings
$1.52M-$934k = $586k per five-year contract duration

What Is A Learning Curve?

Manufacturing



Professional Services



Note:

1. Perceived low-cost methodology assumes a production model with interchangeable workers like manufacturing.
2. In professional services, value is determined by knowledge and experience at a 12% efficiency gain with doubling of production and relatively no loss.

Professional Services Learning Curve Method

Common Assumptions

1. Direct salaries is constant as both firms operate in the same local market
2. Level of effort is constant at 50,000 hours for the contract period of 5 years
3. Use professional services learning curve literature research outcomes for study of A/E firms
   - Gain in knowledge results in 12% efficiency gain with every doubling of output
   - Assume output surrogate measure for output is the same as level of effort or labor hours

Incumbent has 20 years of experience in Chino Basin

New Firm proposes to meet minimum qualification requirements with 0 years experience in Chino Basin

Transition – Value Added By Incumbent $3.89m Over Prior 20 years

Incumbent Learning Curve Value

- Productivity estimates are difficult and therefore, we use level of effort
- Incumbent has 20 years of cumulative knowledge about Chino Water
- Using half life reduction, conservative efficiency gain estimates are tripled at 36%

Calculations (Incumbent Value):

- 36% of 50,000 hours spent gaining knowledge = 18,000 hours
- At an average billing rate of $215.64 per hour X 18,000 = $3.89m

Conclusions

Goal #1: Billing Rates

- We have determined an "after the fact" evaluation of 2023 West Yost Billing Rates to be fair and reasonable when compared to our Market-based Billing Rate Study

Goal #2: Changing Consultants on 5-year contract with Level of Effort of 50,000 labor hours will result:

- A potential loss of up to $3.89m in value realized on day 1 of the new contract
- Selection of a lower-cost provider would need to result in a savings of nearly $4m to offset value lost
- Cost savings from low-cost provider is likely about $600k per 5-year contract period or $120k per year
- The incumbent is a better value