



AGENDA

18700 Ward St.
Fountain Valley, CA 92708
(714) 378-3200

REGULAR MEETING BOARD OF DIRECTORS
ORANGE COUNTY WATER DISTRICT
Wednesday, May 21, 2025 – 5:30 p.m. - Boardroom

This meeting will be held in person. As a convenience for the public, the meeting may also be accessed by Zoom Webinar and will be available by either computer or telephone audio as indicated below. Because this is an in-person meeting and the Zoom component is not required, but rather is being offered as a convenience, if there are any technical issues during the meeting, this meeting will continue and will not be suspended.

Computer Audio: Please click the link below to join the Zoom webinar:

<https://ocwd.zoom.us/j/87881361298>

Telephone Audio: (213) 338 8477

Meeting ID: 878 8136 1298

Teleconference Sites:

10382 Bonnie Drive, Garden Grove
20 Civic Center, Santa Ana

* Members of the public may attend and participate at all locations.

PLEDGE OF ALLEGIANCE

ROLL CALL

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

RECOMMENDATION: Adopt resolution determining need to take immediate action on item(s) and that the need for action came to the attention of the District subsequent to the posting of the Agenda (requires two-thirds vote of the Board members present, or, if less than two-thirds of the members are present, a unanimous vote of those members present.)

VISITOR PARTICIPATION

Time has been reserved at this point in the agenda for persons wishing to comment for up to three minutes to the Board of Directors on any item that is not listed on the agenda, but within the subject matter jurisdiction of the District. By law, the Board of Directors is prohibited from taking action on such public comments. As appropriate, matters raised in these public comments will be referred to District staff or placed on the agenda of an upcoming Board meeting.

At this time, members of the public may also offer public comment for up to three minutes on any item on the Consent Calendar. While members of the public may not remove an item from the Consent Calendar for separate discussion, a Director may do so at the request of a member of the public.

CONSENT CALENDAR (ITEMS NO. 1 – 25)

All matters on the Consent Calendar are to be approved by one motion, without separate discussion on these items, unless a Board member or District staff request that specific items be removed from the Consent Calendar for separate consideration.

1. APPROVAL OF CASH DISBURSEMENTS

RECOMMENDATION: Ratify/authorize payment of bills

2. MINUTES OF BOARD OF DIRECTORS MEETING HELD APRIL 16, APRIL 30 AND MAY 7, 2025

RECOMMENDATION: Approve as presented

ITEMS RECOMMENDED FOR APPROVAL AT WATER ISSUES COMMITTEE MEETING HELD MAY 14 (ITEMS NO. 3–15)

3. INVITATION FOR QUOTES (IFQ-24-002) FOR SOIL BORINGS AT ANAHEIM LAKE (RESILIENCE PLAN PRIORITY PROJECT NO. 12)

RECOMMENDATION: Authorize issuance of Invitation for Quotes for services to drill soil borings at Anaheim Lake

4. AUTHORIZE AGREEMENT TO BUTIER ENGINEERING INC FOR CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES FOR SB-2025-1 BOND BASIN SLOPE REPAIR AND BUDGET INCREASE

RECOMMENDATION: 1) Authorize agreement with Butier Engineering, Inc. for a not-to-exceed amount of \$321,123.50 for construction management and inspection services for SB-2025-1 Bond Basin Slope Repair; and
2) Increase project budget by \$71,124 for a total project budget amount of \$3,849,414

5. CONTRACT NO. TUS-2022-1: AMENDMENT NO. 2 TO BUTIER ENGINEERING

RECOMMENDATION: Authorize issuance of Amendment No. 2 to Agreement No. 1558 with Butier Engineering Inc. for construction management and inspection services in the amount of \$197,010

6. AGREEMENT EXTENSION FOR ON CALL SURVEYING SERVICES

RECOMMENDATION: Authorize time extension of agreements to Stantec Consulting Services, Inc., CASC Engineering and Consulting, and Huitt-Zollars, Inc. for on-call surveying services through June 30, 2027

7. TALBERT BARRIER INJECTION WELLS I-24 & I-25 CONTROL VALVE PROJECT – PUBLICATION OF NOTICE INVITING BIDS

RECOMMENDATION: Authorize publication of Notice Inviting Bids for Contract No. TAL-2024-2, Talbert Barrier Injection Wells I-24 and I-25 Control Valve Replacement Project

8. CONTRACT NO. A-2025-1 ANAHEIM LAKE VALVE VAULT CATEGORICAL EXEMPTION AND NOTICE INVITING BIDS

RECOMMENDATION: 1) Authorize filing of a Categorical Exemption for the Anaheim Lake Valve Vault project in compliance with the California Environmental Quality Act (CEQA) guidelines; and

2) Authorize publication of Notice Inviting Bids for Contract No. A-2025-1, Anaheim Lake Valve Vault

9. GOLDEN STATE WATER COMPANY CLAIR PLANT, BEACH PLANT, AND DALE PLANT PFAS TREATMENT SYSTEMS PROJECT: ENGINEER'S REPORT AND CATEGORICAL EXEMPTION

RECOMMENDATION: 1) Approve the Engineer's Report for the Golden State Water Company Clair Plant, Beach Plant, and Dale Plant PFAS Treatment Systems Project and determine the project feasible, necessary and beneficial to the lands of the District; and

2) Authorize filing of a Categorical Exemption for the Golden State Water Company Clair Plant, Beach Plant, and Dale Plant PFAS Treatment Systems Project in compliance with the California Environmental Quality Act (CEQA) guidelines

10. AUTHORIZE AGREEMENT TO TAIT AND ASSOCIATES, INC. FOR 2025 ASPHALT PAVEMENT REHABILITATION DESIGN

RECOMMENDATION: Authorize issuance of Agreement to Tait and Associates, Inc. for an amount not to exceed \$100,000 for the 2025 Asphalt Pavement Rehabilitation Design

11. ISSUANCE OF SERVICES AGREEMENT WITH TETRA TECH, INC. FOR 2025 PRADO BASIN MULTISPECTRAL AERIAL IMAGERY AND LIGHT DETECTION RANGING (LIDAR)

RECOMMENDATION: 1) Authorize issuance of an Agreement to Tetra Tech, Inc., in the amount of \$41,198 for multispectral aerial imaging and high-pulse count LiDAR data collection of Prado Basin; and,

2) Approve and authorize execution of cost share agreement with Inland Empire Utilities Agency and Chino Basin Watermaster for multispectral aerial imagery and LiDAR data collection, subject to approval as to form by the District's General Counsel

12. AUTHORIZATION TO ENTER INTO A MEMORANDUM OF UNDERSTANDING (MOU) WITH THE COUNTY OF ORANGE FOR THE CONTINUED USE OF THE COUNTY'S ALERTOC

RECOMMENDATION: Authorize the General Manager to sign the Memorandum of Understanding (MOU) between the Orange County Water District and the County of Orange for the continued use of the County's Mass Notification System, AlertOC, administered through Everbridge, Inc.

13. AWARD CONTRACT NO. GWRS-2025-1 REVERSE OSMOSIS CIP VALVE RELOCATION TO MURRAY COMPANY

RECOMMENDATION: 1) Receive and file Affidavit of Publication of Notice Inviting Bids for Contract GWRS-2025-1 Reverse Osmosis CIP Valve Relocation Project;

2) Ratify issuance of Addendum No. 1 to provide responses to potential bidder's questions; and

- 3) Accept bid and award contract GWRS-2025-1 to the lowest responsive bid and responsible bidder, Murray Company, in the amount of \$340,885; and
- 4) Establish the Reverse Osmosis CIP Valve Relocation Project budget in the amount of \$500,000

14. AWARD DIRECT ACCESS ELECTRICITY CONTRACT FOR GROUNDWATER REPLENISHMENT SYSTEM, BURRIS PUMP STATION, AND GREEN ACRES PROJECT SANTA ANA RESERVOIR

RECOMMENDATION: Authorize the general manager in consultation with the board president to enter into a five year contract ending June 30, 2030 for Direct Access electricity procurement with Constellation New Energy, NRG/Direct Energy or Shell Energy for the OCWD Kiwi Substation, Burris Pump Station, and Green Acres Project Santa Ana Reservoir on May 22, 2025

15. RESULTS OF RIVERBED FILTRATION SYSTEM DEMONSTRATION PROJECT AND AUTHORIZATION TO ISSUE REQUEST FOR PROPOSALS FOR FEASIBILITY STUDY (Resilience Plan Priority Project No. 11)

RECOMMENDATION: Authorize issuance of Request for Proposals for the Riverbed Filtration System Feasibility Study

ITEMS RECOMMENDED FOR APPROVAL AT ADMINISTRATION FINANCE COMMITTEE MEETING HELD MAY 15 (ITEMS NO. 16-25)

16. MONTHLY CASH CONTROL REPORTS

RECOMMENDATION: Receive and file Summary Cash and Cash Equivalents Control Reports dated April 30, 2025

17. INVESTMENT PORTFOLIO HOLDINGS REPORTS

RECOMMENDATION: Receive and file the Investment Portfolio Holdings Reports dated April 30, 2025

18. ULTRAVIOLET LIGHT (UV) EQUIPMENT SUPPLY

RECOMMENDATION: Authorize issuance of Purchase Order to Trojan Technologies Corp for the purchase of 1,080 UV lamps in the amount of \$272,691, including freight

19. AMENDMENT 6 TO AGREEMENT 1315 WITH VALLEY CITIES/GONZALES FENCE, INC., FOR ON-CALL FENCE REPAIRS

RECOMMENDATION: Authorize issuance of Amendment No. 6 to Agreement No. 1315 with Valley Cities/Gonzales Fence, Inc. to extend the termination date to June 30, 2027, and increase the not-to-exceed amount by \$60,000

20. AUTHORIZE AMENDMENT NO 1 TO AGREEMENT 1554 WITH YORKE ENGINEERING, INC FOR MOBILE SOURCE COMPLIANCE ASSISTANCE

RECOMMENDATION: Authorize Amendment No. 1 to Agreement 1554 with Yorke Engineering, Inc. for Mobile Source Compliance Assistance for an amount not to exceed \$20,000

21. AWARD OF SERVICES AGREEMENT FOR HABITAT RESTORATION SERVICES AT PRADO AND ORANGE COUNTY FACILITIES

RECOMMENDATION: Authorize issuance of agreement to Habitat West for \$90,000, plus an additional \$180,000 per year starting in year 2, plus a 5% inflation rate for each subsequent year, for a not to exceed total of \$652,725 for three years

22. AGREEMENT TO PACWEST FOR DISTRICT SECURITY SERVICES

RECOMMENDATION: Authorize amendment to Agreement No. 1496 to PacWest Security Services for three years for the amount of \$499,825.82 for the period of June 15, 2025, through June 15, 2026, \$522,738.82 for the period of June 15, 2026, through June 15, 2027, and \$547,539.63 for the period of June 15, 2027 through June 15, 2028

23. AGREEMENT WITH SHI INTERNATIONAL CORPORATION FOR MICROSOFT LICENSING, PRODUCTS AND SERVICES

RECOMMENDATION: 1) Approve the purchase of Microsoft subscription licenses, products and services from SHI International Corp. under the County of Riverside Agreement ITARC-00929 in the amount of \$260,658 (\$86,886 per year) for a term of three years commencing August 1, 2025, and authorize the General Manager to execute corresponding agreements with SHI and Microsoft Corporation, subject to legal counsel review; and

2) Authorize the General Manager approve amendments of up to 10% of the contract value

24. SANTA ANA WELL CONSTRUCTION LOAN AGREEMENT

RECOMMENDATION: Approve the New Well Construction Loan Agreement with Santa Ana up to \$10 million

25. BUDGET TO ACTUAL REPORT FOR THIRD QUARTER FY 2024–25

RECOMMENDATION: Receive and file the Budget to Actual Report for Third Quarter of Fiscal Year 2024-25 ending March 31, 2025

MATTER FOR CONSIDERATION

26. SANTA ANA WATERSHED PROJECT AUTHORITY FISCAL YEARS 2025-26 AND 2026-27 BUDGETS

RECOMMENDATION: Adopt the Santa Ana Watershed Project Authority budgets for fiscal years 2025-26 and 2026-27 and approve the District's \$454,680 and \$484,247 annual contributions, respectively

INFORMATIONAL ITEMS

27. ANNUAL SANTA ANA RIVER WATERMASTER REPORT
28. SAWPA UPDATE
29. WATER RESOURCES REPORT
30. COMMITTEE/CONFERENCE/MEETING REPORTS
 - ▶ May 08 - Communications and Legislative Committee (Chair Tran)
 - ▶ May 09 - Property Management Committee (Chair Sheldon)
 - ▶ May 14 - Water Issues Committee (Chair Green)
 - ▶ May 15 - Administration and Finance Issues Committee (Chair Yoh)

 - ▶ Reports on Committees/Conferences/Meetings Attended at District Expense (at which a quorum of the Board was present)
31. VERBAL REPORTS
 - PRESIDENT'S REPORT
Creation of GWRS tour ad-hoc committee
 - GENERAL MANAGER'S REPORT
 - DIRECTORS' REPORTS
 - GENERAL COUNSEL REPORT

RECESS TO CLOSED SESSION

- **CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION, [Government Code Section 54956.9(d)(1)] – OCWD v. 3M Company et al.**

RECONVENE IN OPEN SESSION

ADJOURNMENT

Agenda Posting: In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted in the main lobby of the Orange County Water District, 18700 Ward Street, Fountain Valley, CA and on the OCWD website: www.ocwd.com not less than 72 hours prior to the meeting date and time above. All written materials relating to each agenda item are available for public inspection in the office of the Assistant District Secretary. Backup material for the Agenda is available at the District offices for public review and can be viewed online at the District's website: www.ocwd.com.

Accommodations to the Disabled: Pursuant to the Americans with Disabilities Act, persons with a disability who require a disability-related modification or accommodation in order to participate in a meeting, including auxiliary aids or services, may request such modification or accommodation from the District Secretary at (714) 378-3234 or by email at cfuller@ocwd.com. Notification 24 hours prior to the meeting will enable District staff to make reasonable arrangements to assure accessibility to the meeting.

Availability of Agenda Material: As a general rule, agenda reports or other written documentation that has been prepared or organized with respect to each item of business listed on the agenda can be reviewed at www.ocwd.com. Copies of these materials and other disclosable public records distributed to all or a majority of the members of the Board of Directors in connection with an open session agenda item are also on file with and available for inspection at the Office of the District Secretary, 18700 Ward Street, Fountain Valley, California, during regular business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday. If such writings are distributed to members of the Board of Directors on the day of a Board meeting, the writings will be available at the entrance to the Board of Directors meeting room at the Orange County Water District office.

AGENDA ITEM SUBMITTAL

Meeting Date: May 21, 2025

To: Board of Directors

From: John Kennedy

Staff Contact: M. Ochoa

Budgeted: N/A

Budgeted Amount:

Cost Estimate \$5,165,357.08

Funding Source: N/A

Program/Line Item No. N/A

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: APPROVAL OF CASH DISBURSEMENTS

SUMMARY

For the period of May 01, 2025 through May 14, 2025, including manual checks and wire transfers, staff is presenting cash disbursements totaling \$5,165,357.08

Accounts Payable:	
05/01/2025 - 05/07/2025	\$ 1,608,760.72
05/08/2025 - 05/14/2025	\$ 2,143,140.45
Payroll	\$ 1,413,455.91
Total Disbursements	\$ 5,165,357.08

RECOMMENDATION

Ratify/Authorize payment of bills

PRIOR RELEVANT BOARD ACTION(S)

Semi-monthly

Orange County Water District

Check Register

Begin Date: 2025-05-01

End Date: 2025-05-07

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Accounts Payable Check Register Presented for Board Ratification and/or Approval

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
804123	2025-05-07	ALTA FOODCRAFT	Inv# 12518012	BPO FIRST AID & COFFEE	\$91.29		
804123	2025-05-07	ALTA FOODCRAFT	Inv# 12518761	BPO FIRST AID & COFFEE	\$467.52		
Total for Check:		804123				\$558.81	\$18,940.69
804124	2025-05-07	RUTAN & TUCKER, LLP	Inv# 1024709	Mar25 legal/General Matters	\$4,572.40		
804124	2025-05-07	RUTAN & TUCKER, LLP	Inv# 1024711	Mar25 legal/Property Mgmt	\$324.00		
804124	2025-05-07	RUTAN & TUCKER, LLP	Inv# 1024714	Mar25 legal/PFAS	\$1,980.00		
804124	2025-05-07	RUTAN & TUCKER, LLP	Inv# 1024715	Mar25 legal/LAFCO advice	\$360.00		
804124	2025-05-07	RUTAN & TUCKER, LLP	Inv# 1024826	Mar25 legal/Water Resources	\$4,284.00		
804124	2025-05-07	RUTAN & TUCKER, LLP	Inv# 1024827	Mar25 legal/Admin Matters	\$19,116.00		
804124	2025-05-07	RUTAN & TUCKER, LLP	Inv# 1024828	Mar25 legal/Reclaim.Wtr.BPP	\$1,116.00		
Total for Check:		804124				\$31,752.40	\$310,016.62
804125	2025-05-07	WESTAIR GASES & EQUIPMENT	Inv# 0012009914	haz.mtl, frt, fuel surcharge	\$59.12		
804125	2025-05-07	WESTAIR GASES & EQUIPMENT	Inv# 0012009914	nitrogen	\$46.50		
804125	2025-05-07	WESTAIR GASES & EQUIPMENT	Inv# 0012010630	nitrogen	\$220.04		
804125	2025-05-07	WESTAIR GASES & EQUIPMENT	Inv# 0012010630	haz.mtl, frt, fuel surcharge	\$59.12		
Total for Check:		804125				\$384.78	\$103,333.50
Run Date: 5/6/2025					\$32,695.99	\$32,695.99	

Orange County Water District

Check Register

Begin Date: 2025-05-01

End Date: 2025-05-07

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Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
122971	2025-04-23	MAGNOLIA BIRD FARMS	Inv# 37120	BPO BIRD SEEDS & SUPPLIES	(\$297.16)		
Total for Check: 122971						(\$297.16)	\$3,633.88
123127	2025-05-05	MAGNOLIA BIRD FARMS	Inv# 37109	BIRD SEED FOR TRAPS	\$568.22		
123127	2025-05-05	MAGNOLIA BIRD FARMS	Inv# 37109	BIRD SEED FOR TRAPS	\$67.42		
123127	2025-05-05	MAGNOLIA BIRD FARMS	Inv# 37120	BPO BIRD SEEDS & SUPPLIES	\$297.16		
Total for Check: 123127						\$932.80	\$3,633.88
123128	2025-05-07	ABSOLUTE STANDARDS, INC.	Inv# 243032	Lab supplies	\$150.00		
123128	2025-05-07	ABSOLUTE STANDARDS, INC.	Inv# 243032	Lab supplies	\$150.00		
123128	2025-05-07	ABSOLUTE STANDARDS, INC.	Inv# 243032	Lab supplies	\$150.00		
123128	2025-05-07	ABSOLUTE STANDARDS, INC.	Inv# 243032	Lab supplies	\$150.00		
123128	2025-05-07	ABSOLUTE STANDARDS, INC.	Inv# 243032	Lab supplies	\$148.75		
123128	2025-05-07	ABSOLUTE STANDARDS, INC.	Inv# 243032	Lab supplies	\$148.75		
Total for Check: 123128						\$897.50	\$16,268.50
123129	2025-05-07	AECOM TECHNICAL SERVICES, INC.	Inv# 2001006282	2/22-3/28 Prado Range Planniin	\$41,212.42		
Total for Check: 123129						\$41,212.42	\$422,664.26
123130	2025-05-07	AKESO OCCUPATIONAL HEALTH	Inv# EM014473	DOT	\$105.00		
123130	2025-05-07	AKESO OCCUPATIONAL HEALTH	Inv# EM014524	DOT	\$105.00		
Total for Check: 123130						\$210.00	\$6,638.34
123131	2025-05-07	AMAZON CAPITAL SERVICES, INC	Inv# 1RT6-WPTX-6CLW		\$82.95		
123131	2025-05-07	AMAZON CAPITAL SERVICES, INC	Inv# 1T9Y-GNYG-MJFT	FESTIVAL/ OFFICE SUPPLIES	\$25.82		
123131	2025-05-07	AMAZON CAPITAL SERVICES, INC	Inv# 1T9Y-GNYG-MJFT	FESTIVAL/ OFFICE SUPPLIES	\$21.73		
123131	2025-05-07	AMAZON CAPITAL SERVICES, INC	Inv# 1T9Y-GNYG-MJFT	FESTIVAL/ OFFICE SUPPLIES	\$10.85		
Total for Check: 123131						\$141.35	\$36,580.13
123132	2025-05-07	AMERICAN WATER CHEMICAL, INC	Inv# 52249071	4/10 41180 lb antiscalant	\$50,239.60		
Total for Check: 123132						\$50,239.60	\$1,598,001.93
123133	2025-05-07	APPLIED INDUSTRIAL TECHNOLOGIES	Inv# 7031885202		\$436.41		
Total for Check: 123133						\$436.41	\$24,646.68
123134	2025-05-07	AT & T	Inv# 714 974-3616_20250411	04/11/2025 - 05/10/2025	\$93.07		
Total for Check: 123134						\$93.07	\$2,378.39
123135	2025-05-07	ATLAS COPCO COMPRESSORS LLC	Inv# 1125036357	Generated by reorder 3/25/25 7	\$6,536.57		

Orange County Water District

Check Register

Begin Date: 2025-05-01

End Date: 2025-05-07

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Accounts Payable Check Register Presented for Board Ratification and/or Approval

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
123135	2025-05-07	ATLAS COPCO COMPRESSORS LLC	Inv# 1125036357	Freight	\$151.25		
Total for Check: 123135						\$6,687.82	\$20,809.77
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798173	Installation of a 3" Ball Valv	\$750.00		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798173	Installation of a 3" Ball Valv	\$682.95		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798173	Installation of a 3" Ball Valv	\$626.40		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798173	Installation of a 3" Ball Valv	\$27.18		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798173	Installation of a 3" Ball Valv	\$20.66		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798173	Installation of a 3" Ball Valv	\$10.88		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798173	Installation of a 3" Ball Valv	\$3.27		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798237	Reroute Hot Water Cold JSMITH	\$2,000.00		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798237	Reroute Hot Water Cold JSMITH	\$603.56		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798237	Reroute Hot Water Cold JSMITH	\$218.78		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798237	Reroute Hot Water Cold JSMITH	\$163.25		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798237	Reroute Hot Water Cold JSMITH	\$157.68		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798237	Reroute Hot Water Cold JSMITH	\$148.21		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798237	Reroute Hot Water Cold JSMITH	\$139.18		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798237	Reroute Hot Water Cold JSMITH	\$63.40		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798237	Reroute Hot Water Cold JSMITH	\$54.69		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798237	Reroute Hot Water Cold JSMITH	\$43.77		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798237	Reroute Hot Water Cold JSMITH	\$40.01		
123137	2025-05-07	BEAR STATE WATER HEATING	Inv# 798237	Reroute Hot Water Cold JSMITH	\$27.19		
Total for Check: 123137						\$5,781.06	\$18,138.66
123138	2025-05-07	BLACK & VEATCH CORPORATION	Inv# 1461080	thru 2/21 GWRSFE const.mgmt	\$41,890.57		
123138	2025-05-07	BLACK & VEATCH CORPORATION	Inv# 1461080	thru 2/21 GWRSFE const.mgmt	\$41,890.57		
123138	2025-05-07	BLACK & VEATCH CORPORATION	Inv# 1461080	thru 2/21 GWRSFE const.mgmt	(\$41,890.57)		
Total for Check: 123138						\$41,890.57	\$188,216.17
123139	2025-05-07	BOOT BARN INC.	Inv# INV00471482	BPO BOOTS	\$177.78		
123139	2025-05-07	BOOT BARN INC.	Inv# INV00471483	BPO BOOTS	\$193.94		
123139	2025-05-07	BOOT BARN INC.	Inv# INV00471484	BPO BOOTS	\$200.00		
Total for Check: 123139						\$571.72	\$1,121.88
123140	2025-05-07	BRENNTAG PACIFIC INC.	Inv# BPI514285	4/29 39860 lb H.Peroxide	\$9,965.00		
123140	2025-05-07	BRENNTAG PACIFIC INC.	Inv# BPI514285	discount	(\$199.30)		

Orange County Water District

Check Register

Begin Date: 2025-05-01

End Date: 2025-05-07

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Accounts Payable Check Register Presented for Board Ratification and/or Approval

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
123140	2025-05-07	BRENNTAG PACIFIC INC.	Inv# BPI514286	4/30 11.7688 ton caustic soda	\$8,651.84		
123140	2025-05-07	BRENNTAG PACIFIC INC.	Inv# BPI514286	carbon emission control	\$176.53		
123140	2025-05-07	BRENNTAG PACIFIC INC.	Inv# BPI514286	superfund tax	\$9.42		
123140	2025-05-07	BRENNTAG PACIFIC INC.	Inv# BPI514286	discount	(\$176.76)		
123140	2025-05-07	BRENNTAG PACIFIC INC.	Inv# BPI514949	5/1 43490 lb citric acid	\$28,708.30		
123140	2025-05-07	BRENNTAG PACIFIC INC.	Inv# BPI514949	discount	(\$574.17)		
123140	2025-05-07	BRENNTAG PACIFIC INC.	Inv# BPI515218	5/5 39840 lb h.peroxide	\$9,960.00		
123140	2025-05-07	BRENNTAG PACIFIC INC.	Inv# BPI515218	discount	(\$199.20)		
		Total for Check:	123140			\$56,321.66	\$1,667,549.01
123141	2025-05-07	CALIFORNIA BARRICADE RENTALS, INC.	Inv# 88533	Monitoring Traffic Control	\$1,305.00		
123141	2025-05-07	CALIFORNIA BARRICADE RENTALS, INC.	Inv# 88533	Monitoring Traffic Control	\$17.00		
123141	2025-05-07	CALIFORNIA BARRICADE RENTALS, INC.	Inv# 88534	TRAFFIC CONTROL SERVICES	\$1,311.00		
		Total for Check:	123141			\$2,633.00	\$10,591.25
123142	2025-05-07	CALTROL INC.	Inv# CD99225052	Generated by reorder 1/30/25 1	\$1,824.83		
123142	2025-05-07	CALTROL INC.	Inv# CD99225052	Shipping and Handling	\$16.18		
		Total for Check:	123142			\$1,841.01	\$82,307.33
123143	2025-05-07	CARL MARKHAM SIGNS	Inv# 22-397	NAME PLATES/ MOUNT	\$37.71		
123143	2025-05-07	CARL MARKHAM SIGNS	Inv# 22-397	NAME PLATES/ MOUNT	\$16.16		
123143	2025-05-07	CARL MARKHAM SIGNS	Inv# 22-397	NAME PLATES/ MOUNT	\$15.00		
123143	2025-05-07	CARL MARKHAM SIGNS	Inv# 22-397	NAME PLATES/ MOUNT	\$10.78		
		Total for Check:	123143			\$79.65	\$79.65
123144	2025-05-07	CITY OF HUNTINGTON BEACH	Inv# 5386189_20250424	03/20/2025 - 04/18/2025	\$47.90		
		Total for Check:	123144			\$47.90	\$518.78
123145	2025-05-07	CITY OF LONG BEACH	Inv# 41449	Feb25 Alamitos 118.90 af	\$183,343.80		
123145	2025-05-07	CITY OF LONG BEACH	Inv# 41455	Jul-dec24 Alamitos capacity ch	\$5,315.50		
		Total for Check:	123145			\$188,659.30	\$1,199,955.55
123146	2025-05-07	CITY OF ORANGE	Inv# 00030145-00_20250424	02/24/2025 - 04/23/2025	\$175.04		
123146	2025-05-07	CITY OF ORANGE	Inv# 00038354-00_20250424	02/24/2025 - 04/23/2025	\$359.01		
		Total for Check:	123146			\$534.05	\$6,840.71
123147	2025-05-07	COAST TO COAST COMPUTER PRODUCTS	Inv# A2780476	Generated by reorder 4/2/25 8:	\$513.30		

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123147	2025-05-07	COAST TO COAST COMPUTER PRODUCTS	Inv# A2780476	Generated by reorder 4/2/25 8:	\$513.30		
123147	2025-05-07	COAST TO COAST COMPUTER PRODUCTS	Inv# A2780476	Generated by reorder 4/2/25 8:	\$256.65		
123147	2025-05-07	COAST TO COAST COMPUTER PRODUCTS	Inv# A2780476	Generated by reorder 4/2/25 8:	\$100.05		
Total for Check: 123147						\$1,383.30	\$1,383.30
123148	2025-05-07	COLOR WHEEL, COLUMBIA	Inv# 8959-4		\$223.98		
Total for Check: 123148						\$223.98	\$223.98
123149	2025-05-07	CONSTELLATION NEWENERGY INC.	Inv# 70638024001	03/21/2025 to 04/22/2025	\$1,410.37		
Total for Check: 123149						\$1,410.37	\$15,316,144.62
123150	2025-05-07	COUNTY OF ORANGE	Inv# STCS002746	OC Sheriff Agreement 4/1-6/30	\$147.25		
Total for Check: 123150						\$147.25	\$51,066.45
123151	2025-05-07	CPI INTERNATIONAL	Inv# 20069008	Lab supplies	\$401.29		
123151	2025-05-07	CPI INTERNATIONAL	Inv# 20069008	Shipping	\$24.15		
123151	2025-05-07	CPI INTERNATIONAL	Inv# 20069008	Discount	(\$7.38)		
Total for Check: 123151						\$418.06	\$16,212.85
123152	2025-05-07	CWEA	Inv# CERT RENEWAL R. IBARRA 25		\$111.00		
Total for Check: 123152						\$111.00	\$5,941.00
123153	2025-05-07	DIAMOND ENVIRONMENTAL SERVICES	Inv# 0006163583	PORTA POTTY	\$252.84		
123153	2025-05-07	DIAMOND ENVIRONMENTAL SERVICES	Inv# 0006163583	PORTA POTTY	\$93.08		
Total for Check: 123153						\$345.92	\$4,117.00
123154	2025-05-07	ENVIROCHECK, INC.	Inv# 250996	Asbestos Testing - Enviro Chec	\$795.00		
123154	2025-05-07	ENVIROCHECK, INC.	Inv# 250996	Asbestos Testing - Enviro Chec	\$444.00		
Total for Check: 123154						\$1,239.00	\$1,239.00
123155	2025-05-07	ENVIRONMENTAL SCIENCE ASSOCIATES	Inv# 206472 WO#7	Mar25 agmt 1135	\$57.50		
123155	2025-05-07	ENVIRONMENTAL SCIENCE ASSOCIATES	Inv# 206593	Mar25 South Basin EIR CEQA	\$4,240.00		
Total for Check: 123155						\$4,297.50	\$228,689.62
123156	2025-05-07	EVOQUA WATER TECHNOLOGIES, LLC	Inv# 906981949	BPO TANK RENTAL SYSTEM	\$127.78		

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Total for Check:		123156				\$127.78	\$3,000,847.69
123157	2025-05-07	FACTORY MOTOR PARTS	Inv# 12-6508791	BPO AUTO PARTS	\$21.63		
123157	2025-05-07	FACTORY MOTOR PARTS	Inv# 12-6509533	BPO AUTO PARTS	\$21.63		
123157	2025-05-07	FACTORY MOTOR PARTS	Inv# 164-400356	BPO AUTO PARTS	\$150.38		
123157	2025-05-07	FACTORY MOTOR PARTS	Inv# 164-400356		\$2.00		
123157	2025-05-07	FACTORY MOTOR PARTS	Inv# 164-400016	BPO AUTO PARTS	\$37.71		
Total for Check:		123157				\$233.35	\$17,599.66
123158	2025-05-07	FEDERAL EXPRESS CORPORATION	Inv# 8-849-69860	Package Delivery	\$70.98		
123158	2025-05-07	FEDERAL EXPRESS CORPORATION	Inv# 8-849-69861	Package Delivery	\$124.56		
Total for Check:		123158				\$195.54	\$14,787.53
123159	2025-05-07	FERGUSON WATERWORKS #1083	Inv# 0049120	Air Vac Covers 20"x36" JSMITH	\$3,535.72		
123159	2025-05-07	FERGUSON WATERWORKS #1083	Inv# 5224683	Limitorq MXB-20 Elect JHAMMER	\$27,094.27		
Total for Check:		123159				\$30,629.99	\$38,539.42
123160	2025-05-07	FIRST AMERICAN ADMINISTRATORS, INC.	Inv# 1000787055	RX Glasses	\$122.97		
Total for Check:		123160				\$122.97	\$240.94
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 0082900	Refund Invoice 9755395	(\$335.64)		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9788597	Lab supplies	\$111.85		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9788598	Lab supplies	\$255.58		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9788598	Lab supplies	\$255.57		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9788598	Lab supplies	\$255.57		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9788598	Lab supplies	\$100.59		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9788598	Lab supplies	\$64.37		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9788599	Lab supplies	\$121.28		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9823819	Lab supplies	\$129.50		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9823819	Lab supplies	\$113.00		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9858753	Lab supplies	\$236.54		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9858754	Generated by reorder 3/25/25 7	\$338.84		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9892936	Lab supplies	\$508.45		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9925494		\$183.18		
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9925494		\$183.18		

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Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
123162	2025-05-07	FISHER SCIENTIFIC CO.	Inv# 9925494		\$40.35		
		Total for Check:	123162			\$2,562.21	\$238,511.35
123163	2025-05-07	FRONTIER COMMUNICATIONS	Inv# 714-965-1308_20250422	04/22/2025 - 05/21/2025	\$298.79		
		Total for Check:	123163			\$298.79	\$53,443.74
123164	2025-05-07	FRUIT GROWERS LABORATORY INC	Inv# 504625A	BPO RADIOACTIVITY ANAYLSIS	\$71.00		
		Total for Check:	123164			\$71.00	\$32,855.00
123165	2025-05-07	GANAHL LUMBER COMPANY	Inv# 011483436	BPO LUMBER SUPPLIES	\$412.99		
123165	2025-05-07	GANAHL LUMBER COMPANY	Inv# 011483436	BPO LUMBER SUPPLIES	\$88.37		
123165	2025-05-07	GANAHL LUMBER COMPANY	Inv# 011483436		\$4.65		
		Total for Check:	123165			\$506.01	\$1,400.15
123167	2025-05-07	GRAINGER INC.	Inv# 9462179087	Generated by reorder 4/2/25 8:	\$2,680.91		
123167	2025-05-07	GRAINGER INC.	Inv# 9462179087	Generated by reorder 4/2/25 8:	\$334.30		
123167	2025-05-07	GRAINGER INC.	Inv# 9462179087	Generated by reorder 4/2/25 8:	\$188.99		
123167	2025-05-07	GRAINGER INC.	Inv# 9465087881		\$1,379.38		
123167	2025-05-07	GRAINGER INC.	Inv# 9466078863	BPO INDUSTRIAL SUPPLIES	\$30.59		
123167	2025-05-07	GRAINGER INC.	Inv# 9468158754	BPO INDUSTRIAL SUPPLIES	\$33.12		
123167	2025-05-07	GRAINGER INC.	Inv# 9468158762	BPO INDUSTRIAL SUPPLIES	\$283.06		
123167	2025-05-07	GRAINGER INC.	Inv# 9468364832	BPO INDUSTRIAL SUPPLIES	\$62.37		
123167	2025-05-07	GRAINGER INC.	Inv# 9469945373	BPO INDUSTRIAL SUPPLIES	\$352.46		
123167	2025-05-07	GRAINGER INC.	Inv# 9470103608	DC Power Solenoid- JSMITH	\$204.56		
123167	2025-05-07	GRAINGER INC.	Inv# 9470122111	Generated by reorder 4/9/25 6:	\$1,499.23		
123167	2025-05-07	GRAINGER INC.	Inv# 9470122111	Generated by reorder 4/9/25 6:	\$351.83		
123167	2025-05-07	GRAINGER INC.	Inv# 9471320821	BPO INDUSTRIAL SUPPLIES	\$19.04		
		Total for Check:	123167			\$7,419.84	\$189,367.90
123168	2025-05-07	HACH COMPANY	Inv# 14453491	HACH Stabical Standard JHAMMER	\$818.89		
123168	2025-05-07	HACH COMPANY	Inv# 14453491		\$18.70		
		Total for Check:	123168			\$837.59	\$56,567.57
123169	2025-05-07	HB DIGITAL ARTS & BLUEPRINT	Inv# INV-132988		\$164.86		
		Total for Check:	123169			\$164.86	\$1,117.69
123170	2025-05-07	HEALTH EQUITY INC.	Inv# GNO471M	April 2025	\$5.90		
		Total for Check:	123170			\$5.90	\$47.20

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123171	2025-05-07	HENDERSON, ZACHARY	Inv# MARCH, APRIL 2025	3/18 travel, 4/22-24 CWEF	\$41.79		
			volu				
123171	2025-05-07	HENDERSON, ZACHARY	Inv# MARCH, APRIL 2025	3/18 travel, 4/22-24 CWEF	\$14.42		
			volu				
Total for Check: 123171						\$56.21	\$929.50
123172	2025-05-07	HOME DEPOT CREDIT SERVICES	Inv# 4383229	BPO INDUSTRIAL SUPPLIES	\$33.70		
123172	2025-05-07	HOME DEPOT CREDIT SERVICES	Inv# 8516737	BPO INDUSTRIAL SUPPLIES	\$40.87		
123172	2025-05-07	HOME DEPOT CREDIT SERVICES	Inv# 8623355	BPO INDUSTRIAL SUPPLIES	\$69.52		
Total for Check: 123172						\$144.09	\$32,347.06
123173	2025-05-07	IMPERIAL SPRINKLER	Inv# 0020562645-001	Generated by reorder 4/23/25 1	\$302.56		
123173	2025-05-07	IMPERIAL SPRINKLER	Inv# 0020562645-001	Purchase Discounts	(\$5.62)		
Total for Check: 123173						\$296.94	\$449.74
123174	2025-05-07	IRVINE PIPE & SUPPLY CO	Inv# S120564714.001	BPO PIPE SUPPLIES	\$67.44		
123174	2025-05-07	IRVINE PIPE & SUPPLY CO	Inv# S120564714.001	SHIPPING & HANDLING	\$21.56		
123174	2025-05-07	IRVINE PIPE & SUPPLY CO	Inv# S120564714.001	PURCHASE DISCOUNTS	(\$1.25)		
Total for Check: 123174						\$87.75	\$55,931.42
123175	2025-05-07	JAMES EVENT PRODUCTIONS	Inv# 229972417	1670	\$145,500.00		
Total for Check: 123175						\$145,500.00	\$195,500.00
123176	2025-05-07	LANCE, SOLL & LUNGHARD, LLP	Inv# 68429	2024 audit-457 & MPP	\$4,494.00		
Total for Check: 123176						\$4,494.00	\$36,948.00
123177	2025-05-07	LHOIST NORTH AMERICA	Inv# 1102506796	4/8 lime (2) 25.50 & 25.24 ton	\$22,739.64		
Total for Check: 123177						\$22,739.64	\$1,530,551.81
123178	2025-05-07	LIEBERT CASSIDY WHITMORE	Inv# 292171	Mar25 OCEA negotiation	\$240.00		
Total for Check: 123178						\$240.00	\$10,381.50
123179	2025-05-07	LIFE TECHNOLOGIES CORP	Inv# 86927247	Lab supplies	\$613.68		
123179	2025-05-07	LIFE TECHNOLOGIES CORP	Inv# 86927247		\$151.16		
123179	2025-05-07	LIFE TECHNOLOGIES CORP	Inv# 86929185	Lab supplies	\$4,676.25		
123179	2025-05-07	LIFE TECHNOLOGIES CORP	Inv# 86929185		\$216.42		
123179	2025-05-07	LIFE TECHNOLOGIES CORP	Inv# 86929185		\$33.70		
123179	2025-05-07	LIFE TECHNOLOGIES CORP	Inv# 86935853	Lab supplies	\$691.00		
123179	2025-05-07	LIFE TECHNOLOGIES CORP	Inv# 86935853	Lab supplies	\$617.59		
123179	2025-05-07	LIFE TECHNOLOGIES CORP	Inv# 86935853	Lab supplies	\$584.32		
123179	2025-05-07	LIFE TECHNOLOGIES CORP	Inv# 86935853	Lab supplies	\$575.50		

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Total for Check:		123179				\$8,159.62	\$20,204.38
123180	2025-05-07	MANHATTAN STITCHING COMPANY INC	Inv# 107834	POLO SHIRTS FOR PLANNING	\$22.84		
123180	2025-05-07	MANHATTAN STITCHING COMPANY INC	Inv# 107834	POLO SHIRTS FOR PLANNING	\$22.84		
123180	2025-05-07	MANHATTAN STITCHING COMPANY INC	Inv# 107834	POLO SHIRTS FOR PLANNING	\$22.84		
123180	2025-05-07	MANHATTAN STITCHING COMPANY INC	Inv# 107834	POLO SHIRTS FOR PLANNING	\$22.83		
123180	2025-05-07	MANHATTAN STITCHING COMPANY INC	Inv# 107834	POLO SHIRTS FOR PLANNING	\$20.66		
Total for Check:		123180				\$112.01	\$7,921.33
123181	2025-05-07	MCFADDEN-DALE HARDWARE CO.	Inv# 397184/3	BPO INDUSTRIAL SUPPLIES	\$234.07		
123181	2025-05-07	MCFADDEN-DALE HARDWARE CO.	Inv# 397184/3	Discount	(\$6.43)		
Total for Check:		123181				\$227.64	\$6,065.64
123182	2025-05-07	MCMaster-CARR SUPPLY COMPANY	Inv# 44775082	Polyurethane Rubber JSMITH	\$602.48		
123182	2025-05-07	MCMaster-CARR SUPPLY COMPANY	Inv# 44775082		\$10.55		
123182	2025-05-07	MCMaster-CARR SUPPLY COMPANY	Inv# 44775082		(\$12.05)		
Total for Check:		123182				\$600.98	\$15,656.62
123183	2025-05-07	MILLER & AXLINE	Inv# 11530	4/28/25 legal/Sabic	\$19,056.38		
Total for Check:		123183				\$19,056.38	\$110,283.32
123184	2025-05-07	MKN	Inv# 001050002633	thru 3/31 Anaheim valve	\$4,455.50		
Total for Check:		123184				\$4,455.50	\$36,706.80
123185	2025-05-07	MUNICIPAL WATER DISTRICT OF OC	Inv# 17757	Cybersecurity Training	\$1,247.50		
Total for Check:		123185				\$1,247.50	\$1,959,950.75
123186	2025-05-07	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 751208	BPO AUTO PARTS	\$79.17		
123186	2025-05-07	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 751208	Discount	(\$1.58)		
Total for Check:		123186				\$77.59	\$2,738.77
123187	2025-05-07	NIEVES LANDSCAPE, INC.	Inv# 79926	1645	\$9,365.00		
123187	2025-05-07	NIEVES LANDSCAPE, INC.	Inv# 80951	1645	\$9,365.00		

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Total for Check:		123187				\$18,730.00	\$64,731.03
123188	2025-05-07	OCCUPATIONAL SERVICES INC	Inv# 93598	Leak test analysis	\$900.00		
Total for Check:		123188				\$900.00	\$1,800.00
123189	2025-05-07	ORANGE COUNTY DEPARTMENT OF EDUCATION	Inv# 94UI2075	1675	\$2,925.00		
Total for Check:		123189				\$2,925.00	\$17,419.51
123190	2025-05-07	PACIFIC HYDROTECH CORPORATION	Inv# 6 SA-2023-2	Prog.Pmt#6 SA-2023-2	\$74,152.25		
Total for Check:		123190				\$74,152.25	\$3,167,063.88
123191	2025-05-07	AMERICAN BUSINESS BANK	Inv# ESC 8656803 RET#6	Ret#6 P.Hydro SA-2023-2	\$3,902.75		
Total for Check:		123191				\$3,902.75	\$71,464.50
123192	2025-05-07	PACIFIC MECHANICAL SUPPLY	Inv# 5388462	Generated by reorder 5/1/25 6:	\$493.03		
123192	2025-05-07	PACIFIC MECHANICAL SUPPLY	Inv# 5388462		(\$4.53)		
Total for Check:		123192				\$488.50	\$27,928.83
123193	2025-05-07	PACWEST SECURITY SERVICES	Inv# 0C39624	3/31-4/6 security	\$160.52		
Total for Check:		123193				\$160.52	\$388,911.44
123194	2025-05-07	PERKINELMER U.S LLC	Inv# 441222088	Lab supplies	\$842.11		
123194	2025-05-07	PERKINELMER U.S LLC	Inv# 441222088		\$58.00		
Total for Check:		123194				\$900.11	\$66,334.26
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$551.36		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$330.81		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$303.25		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$303.25		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$302.54		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$282.75		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$151.27		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$144.21		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$144.20		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$144.20		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$135.72		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$134.31		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$134.30		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$132.89		

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123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$125.82		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$121.59		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$115.93		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$98.96		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$86.04		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$83.41		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$74.22		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$70.69		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$67.16		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$67.15		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$65.03		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$62.92		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$62.91		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$56.55		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$56.55		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$53.01		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$53.01		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$50.89		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$49.49		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$49.48		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$49.48		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$49.48		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$48.07		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$41.71		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$41.71		
123199	2025-05-07	PHENOVA INC	Inv# 214508	Lab supplies	\$13.05		
123199	2025-05-07	PHENOVA INC	Inv# 214588	Lab Standards	\$214.89		
123199	2025-05-07	PHENOVA INC	Inv# 214588	Lab Standards	\$189.44		
123199	2025-05-07	PHENOVA INC	Inv# 214588	Lab Standards	\$42.19		
123199	2025-05-07	PHENOVA INC	Inv# 214588	Lab Standards	\$12.00		
Total for Check:		123199				\$5,367.89	\$23,485.33
123200	2025-05-07	POWER PROS	Inv# 6241758-928	Generated by reorder 4/3/25 6:	\$4,188.00		

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123200	2025-05-07	POWER PROS	Inv# 6241758-928	Generated by reorder 4/3/25 6:	\$431.00		
Total for Check: 123200						\$4,619.00	\$27,387.00
123201	2025-05-07	PREMIER FITNESS SERVICE	Inv# 96610	BPO FITNESS EQUIPMENT	\$180.00		
Total for Check: 123201						\$180.00	\$540.00
123202	2025-05-07	PREMIER STAINLESS PRODUCTS LLC	Inv# 16977	ROP GASKET REPLACEMENTS	\$2,582.81		
123202	2025-05-07	PREMIER STAINLESS PRODUCTS LLC	Inv# 16977	FREIGHT	\$50.00		
Total for Check: 123202						\$2,632.81	\$2,632.81
123203	2025-05-07	PURCOR PEST SOLUTIONS	Inv# 12525534	BPO RODENT CONTROL	\$185.00		
Total for Check: 123203						\$185.00	\$7,285.00
123204	2025-05-07	QUINN COMPANY	Inv# PC830433197	BPO EQUIPMENT & SUPPLIES	\$245.33		
Total for Check: 123204						\$245.33	\$89,236.83
123205	2025-05-07	RED WING SHOE CO. INC.	Inv# 853-1-57944	BPO WORK BOOTS	\$155.15		
Total for Check: 123205						\$155.15	\$10,205.86
123206	2025-05-07	ROYAL WHOLESALE ELECTRIC	Inv# 7693-1017990	Generated by reorder 4/2/25 8:	\$99.79		
123206	2025-05-07	ROYAL WHOLESALE ELECTRIC	Inv# 7693-1017990	Shipping	\$15.77		
Total for Check: 123206						\$115.56	\$8,381.37
123207	2025-05-07	SITEONE LANDSCAPE SUPPLY	Inv# 152992609-001	BPO LANDSCAPE SUPPLIES	\$17.23		
123207	2025-05-07	SITEONE LANDSCAPE SUPPLY	Inv# 152992609-001	Discount	(\$0.32)		
Total for Check: 123207						\$16.91	\$1,885.76
123208	2025-05-07	SOUTHERN CALIFORNIA EDISON CO.	Inv# 700306425771_20250501		\$120,998.08		
123208	2025-05-07	SOUTHERN CALIFORNIA EDISON CO.	Inv# 700546365072_20250429		\$37,954.23		
Total for Check: 123208						\$158,952.31	\$8,330,779.04
123209	2025-05-07	SPARKLETTS DS WATER OF AMERICA LP	Inv# 4076005 041525	BPO WATER DELIVERY	\$542.79		
123209	2025-05-07	SPARKLETTS DS WATER OF AMERICA LP	Inv# 4076005 041525	BPO WATER DELIVERY	\$341.24		
123209	2025-05-07	SPARKLETTS DS WATER OF AMERICA LP	Inv# 4076005 041525	BPO WATER DELIVERY	\$26.94		
123209	2025-05-07	SPARKLETTS DS WATER OF AMERICA LP	Inv# 4076005 041525	BPO WATER DELIVERY	\$3.73		

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123209	2025-05-07	SPARKLETTS DS WATER OF AMERICA LP	Inv# 6144555 041125	BPO WATER DELIVERY	\$9.00		
		Total for Check: 123209				\$923.70	\$9,116.07
123210	2025-05-07	T-MOBILE	Inv# 200737250_20250421	03/21/2025 - 04/20/2025	\$34.93		
		Total for Check: 123210				\$34.93	\$278.06
123211	2025-05-07	T.E ROBERTS, INC.	Inv# 5739 1610		\$91,927.00		
		Total for Check: 123211				\$91,927.00	\$550,878.19
123212	2025-05-07	TAIT ENVIRONMENTAL	Inv# 963449	R23017 - Aboveground gas tank	\$1,922.50		
123212	2025-05-07	TAIT ENVIRONMENTAL	Inv# 963449	R23017 - Aboveground gas tank	\$600.98		
123212	2025-05-07	TAIT ENVIRONMENTAL	Inv# 963449	R23017 - Aboveground gas tank	\$220.50		
123212	2025-05-07	TAIT ENVIRONMENTAL	Inv# 963544	Monthly underground storage ta	\$315.00		
		Total for Check: 123212				\$3,058.98	\$6,463.53
123213	2025-05-07	TRANSCAT, INC.	Inv# 45600	Lab calibration service	\$1,555.20		
		Total for Check: 123213				\$1,555.20	\$3,110.40
123214	2025-05-07	TROPICAL PLAZA NURSERY, INC.	Inv# 3630	SERVICE PURCHASE ORDER	\$2,426.34		
		Total for Check: 123214				\$2,426.34	\$67,329.53
123215	2025-05-07	U-LINE	Inv# 191429138	Lab supplies	\$913.63		
123215	2025-05-07	U-LINE	Inv# 191429138	SHIPPING / HANDLING	\$81.22		
		Total for Check: 123215				\$994.85	\$14,392.41
123216	2025-05-07	U.S. BANK CORPORATE PAYMENT SYSTEM	Inv# CMF APRIL 2025 CC		\$681.38		
123216	2025-05-07	U.S. BANK CORPORATE PAYMENT SYSTEM	Inv# JLK APRIL 2025 CC		\$19,162.96		
123216	2025-05-07	U.S. BANK CORPORATE PAYMENT SYSTEM	Inv# LAV APRIL 2025 CC	LAV april 2025 cc	\$1,654.15		
123216	2025-05-07	U.S. BANK CORPORATE PAYMENT SYSTEM	Inv# MY APRIL 2025 CC	MY APRIL 2025 CC	\$33,801.55		
		Total for Check: 123216				\$55,300.04	\$457,733.49
123217	2025-05-07	UNIFIRST CORPORATION	Inv# 2190326472	1557	\$283.23		
123217	2025-05-07	UNIFIRST CORPORATION	Inv# 2190326472	1557	\$8.01		
123217	2025-05-07	UNIFIRST CORPORATION	Inv# 2190327411	1557	\$54.25		
123217	2025-05-07	UNIFIRST CORPORATION	Inv# 2190327416	1557	\$16.77		
123217	2025-05-07	UNIFIRST CORPORATION	Inv# 2190327421	1557	\$278.44		
123217	2025-05-07	UNIFIRST CORPORATION	Inv# 2190327423	1557	\$10.78		

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123217	2025-05-07	UNIFIRST CORPORATION	Inv# 2190327434	1557	\$435.69		
123217	2025-05-07	UNIFIRST CORPORATION	Inv# 2190327436	1557	\$105.30		
123217	2025-05-07	UNIFIRST CORPORATION	Inv# 2190327437	1557	\$22.22		
123217	2025-05-07	UNIFIRST CORPORATION	Inv# 2200252185	1557	\$49.86		
Total for Check: 123217						\$1,264.55	\$54,407.91
123218	2025-05-07	UNITED RENTALS	Inv# 246715720-001	Cement mixer rental - Warner f	\$260.75		
123218	2025-05-07	UNITED RENTALS	Inv# 246715720-001	Cement mixer rental - Warner f	\$36.37		
123218	2025-05-07	UNITED RENTALS	Inv# 246715720-001	Cement mixer rental - Warner f	\$5.61		
Total for Check: 123218						\$302.73	\$302.73
123219	2025-05-07	UNITED STATES GEOLOGICAL SURVEY	Inv# 90096414	QTR BILLING	\$12,392.50		
Total for Check: 123219						\$12,392.50	\$48,135.00
123220	2025-05-07	UTILIQUEST LLC	Inv# 341959-Q	3/30-4/5 screen/mark pipes	\$727.81		
123220	2025-05-07	UTILIQUEST LLC	Inv# 341959-Q	3/30-4/5 screen/mark pipes	\$717.07		
123220	2025-05-07	UTILIQUEST LLC	Inv# 341959-Q	3/30-4/5 screen/mark pipes	\$530.60		
123220	2025-05-07	UTILIQUEST LLC	Inv# 341959-Q	3/30-4/5 screen/mark pipes	\$51.30		
123220	2025-05-07	UTILIQUEST LLC	Inv# 341959-Q	3/30-4/5 screen/mark pipes	\$37.91		
123220	2025-05-07	UTILIQUEST LLC	Inv# 341959-Q	3/30-4/5 screen/mark pipes	\$14.76		
Total for Check: 123220						\$2,079.45	\$85,884.11
123221	2025-05-07	VEOLIA WTS SERVICES USA, INC.	Inv# 903188903	BPO DI WATER SERVICE	\$548.10		
Total for Check: 123221						\$548.10	\$11,544.34
123222	2025-05-07	VERIZON WIRELESS	Inv# 6111221417	03/17/2025 - 04/16/2025	\$2,386.58		
Total for Check: 123222						\$2,386.58	\$27,395.90
123223	2025-05-07	VWR INTERNATIONAL LLC	Inv# 8818711981	Generated by reorder 4/2/25 8:	\$950.56		
123223	2025-05-07	VWR INTERNATIONAL LLC	Inv# 8818711981	Generated by reorder 4/2/25 8:	\$359.93		
123223	2025-05-07	VWR INTERNATIONAL LLC	Inv# 8818711982		\$1,126.87		
Total for Check: 123223						\$2,437.36	\$83,443.37
123224	2025-05-07	WASTE MANAGEMENT CORPORATE SERVICES INC	Inv# 1166856-4946-3	05/01/2025 - 05/31/2025	\$324.03		
Total for Check: 123224						\$324.03	\$3,564.33
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966508	4/21 4974 gal hypochlorite	\$8,564.73		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966508	CA mill	\$209.84		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966508	discount	(\$171.29)		

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978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966509	4/21 4818 gal hypochlorite	\$8,296.11		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966509	CA mill	\$203.25		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966509	discount	(\$165.92)		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966510	4/21 4873 gal hypochlorite	\$8,390.82		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966510	CA mill	\$205.58		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966510	discount	(\$167.82)		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966511	4/21 4808 gal hypochlorite	\$8,278.90		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966511	CA mill	\$202.83		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966511	discount	(\$165.58)		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966622	4/22 4814 gal hypochlorite	\$8,289.23		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966622	CA mill	\$203.09		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966622	discount	(\$165.78)		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966623	4/22 4811 gal hypochlorite	\$8,284.06		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966623	CA mill	\$202.96		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966623	discount	(\$165.68)		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966624	4/22 4838 gal hypochlorite	\$8,330.55		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966624	CA mill	\$204.10		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966624	discount	(\$166.61)		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966625	4/22 4825 gal hypochlorite	\$8,308.17		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966625	CA mill	\$203.55		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966625	discount	(\$166.16)		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966827	4/24 4816 gal hypochlorite	\$8,292.67		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966827	CA mill	\$203.17		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966827	discount	(\$165.85)		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966828	4/24 4859 gal hypochlorite	\$8,366.71		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966828	CA mill	\$204.98		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966828	discount	(\$167.33)		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966829	4/24 4883 gal hypochlorite	\$8,408.04		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966829	CA mill	\$206.00		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966829	discount	(\$168.16)		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966830	4/24 4859 gal hypochlorite	\$8,366.71		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966830	CA mill	\$204.98		

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978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966830	discount	(\$167.33)		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966956	4/25 4851 gal hypochlorite	\$8,352.93		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966956	CA mill	\$204.65		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966956	discount	(\$167.06)		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966957	4/25 4752 gal hypochlorite	\$8,182.47		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966957	CA mill	\$200.47		
978754	2025-05-01	JCI JONES CHEMICAL, INC	Inv# 966957	discount	(\$163.65)		
Total for Check:		978754				\$117,237.33	\$4,855,956.20
978755	2025-05-01	FIDELITY INVESTMENTS	Inv# MAY 1 2025 DPR05 401A	DPR#05 May 1, 2025	\$7,551.96		
Total for Check:		978755				\$7,551.96	\$5,663,447.95
978756	2025-05-01	FIDELITY INVESTMENTS	Inv# MAY 1 2025 DPR05 457B 457B	May 1, 2025 DPR305	\$5,982.55		
Total for Check:		978756				\$5,982.55	\$2,380,260.66
978757	2025-05-07	U.S. BANK NA	Inv# COP 2003A INT 04.02-05.06 04.02-05.06.25	COP 2003A INT	\$333,606.76		
Total for Check:		978757				\$333,606.76	\$20,217,131.29
978758	2025-05-07	CITIBANK NA NEW YORK, ABA	Inv# 2007BSWAP PMT 04.02-05.07 04.02-05.07	2007B SWAP PMT	\$13,473.42		
Total for Check:		978758				\$13,473.42	\$232,543.53
Run Date: 5/6/2025					\$1,589,599.24	\$1,589,599.24	

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804126	2025-05-14	SIGMA-ALDRICH, INC.	Inv# 565097083	Lab supplies	\$431.74		
804126	2025-05-14	SIGMA-ALDRICH, INC.	Inv# 565097083	SHIPPING & HANDLING	\$18.78		
Total for Check:		804126				\$450.52	\$26,411.00
804127	2025-05-14	WECK LABORATORIES, INC.	Inv# W5D1558	BPO WATER ANALYSIS	\$70.00		
804127	2025-05-14	WECK LABORATORIES, INC.	Inv# W5D1560	BPO WATER ANALYSIS	\$70.00		
804127	2025-05-14	WECK LABORATORIES, INC.	Inv# W5D1561	BPO WATER ANALYSIS	\$130.00		
804127	2025-05-14	WECK LABORATORIES, INC.	Inv# W5D1562	BPO WATER ANALYSIS	\$130.00		
804127	2025-05-14	WECK LABORATORIES, INC.	Inv# W5D1563	BPO WATER ANALYSIS	\$130.00		
804127	2025-05-14	WECK LABORATORIES, INC.	Inv# W5D1565	BPO WATER ANALYSIS	\$195.00		
804127	2025-05-14	WECK LABORATORIES, INC.	Inv# W5D1615	BPO WATER ANALYSIS	\$120.00		
Total for Check:		804127				\$845.00	\$29,093.00
804128	2025-05-14	WESTAIR GASES & EQUIPMENT	Inv# 0011992163	helium credit for 0011982748	(\$1,614.94)		
804128	2025-05-14	WESTAIR GASES & EQUIPMENT	Inv# 0011998346	Water Prod-repair	\$218.91		
804128	2025-05-14	WESTAIR GASES & EQUIPMENT	Inv# 0012014643	helium & nitrogen	\$1,760.85		
804128	2025-05-14	WESTAIR GASES & EQUIPMENT	Inv# 0012014643	haz.mtl, frt, fuel surcharge	\$59.11		
Total for Check:		804128				\$423.93	\$103,757.43
804129	2025-05-14	WESTERN EXTERMINATOR COMPANY	Inv# 75985788	BPO RODENT & PEST CONTROL	\$499.30		
Total for Check:		804129				\$499.30	\$7,031.30
Run Date: 5/13/2025					\$2,218.75	\$2,218.75	

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123042	2025-04-30	CONSOLIDATED OFFICE SYSTEMS	Inv# 31375	OFFICE CHAIRS	(\$200.00)		
123042	2025-04-30	CONSOLIDATED OFFICE SYSTEMS	Inv# 31375	OFFICE CHAIRS	(\$12,397.50)		
Total for Check: 123042						(\$12,597.50)	\$22,243.67
123225	2025-05-14	ACCO ENGINEERED SYSTEMS	Inv# 145595	New OEM Control Module for AC1	\$1,494.23		
123225	2025-05-14	ACCO ENGINEERED SYSTEMS	Inv# 145595	New OEM Control Module for AC1	\$1,416.00		
123225	2025-05-14	ACCO ENGINEERED SYSTEMS	Inv# 145595	New OEM Control Module for AC1	\$21.00		
123225	2025-05-14	ACCO ENGINEERED SYSTEMS	Inv# 20685980	Oil Leak at Compressor at NEMA	\$1,062.00		
123225	2025-05-14	ACCO ENGINEERED SYSTEMS	Inv# 20685980	Oil Leak at Compressor at NEMA	\$125.00		
123225	2025-05-14	ACCO ENGINEERED SYSTEMS	Inv# 20685980	Oil Leak at Compressor at NEMA	\$100.00		
123225	2025-05-14	ACCO ENGINEERED SYSTEMS	Inv# 20685980	Oil Leak at Compressor at NEMA	\$81.56		
123225	2025-05-14	ACCO ENGINEERED SYSTEMS	Inv# 20685980	Oil Leak at Compressor at NEMA	\$75.00		
123225	2025-05-14	ACCO ENGINEERED SYSTEMS	Inv# 20685980	Oil Leak at Compressor at NEMA	\$32.63		
123225	2025-05-14	ACCO ENGINEERED SYSTEMS	Inv# 20685980	Discount	(\$29.34)		
Total for Check: 123225						\$4,378.08	\$219,286.24
123226	2025-05-14	ACWA JPIA	Inv# 705884	June 2025 Health Insurance	\$543,301.82		
Total for Check: 123226						\$543,301.82	\$7,469,428.15
123227	2025-05-14	AGILENT TECHNOLOGIES, INC.	Inv# 129921995	Lab supplies	\$1,021.90		
123227	2025-05-14	AGILENT TECHNOLOGIES, INC.	Inv# 129921995	Lab supplies	\$277.01		
123227	2025-05-14	AGILENT TECHNOLOGIES, INC.	Inv# 129921995	SHIPPING & HANDLING	\$8.75		
Total for Check: 123227						\$1,307.66	\$188,012.82
123228	2025-05-14	ALGER CONSULTING & TRAINING, LLC	Inv# 1228	Consulting/Audit	\$5,568.75		
123228	2025-05-14	ALGER CONSULTING & TRAINING, LLC	Inv# 1228	Consulting/Audit	\$4,455.00		
123228	2025-05-14	ALGER CONSULTING & TRAINING, LLC	Inv# 1228	Consulting/Audit	\$2,300.88		
123228	2025-05-14	ALGER CONSULTING & TRAINING, LLC	Inv# 1228	Consulting/Audit	\$430.50		
Total for Check: 123228						\$12,755.13	\$12,755.13
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 19MP-TCVN-6N7K Shipp.1C1Y-6X49-7DGW	Refund on	(\$2.15)		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1C1Y-6X49-7DGW	Supplies	\$20.66		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1C1Y-6X49-7DGW	Supplies	\$15.20		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1C1Y-6X49-7DGW	Supplies	\$10.86		

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123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1C1Y-6X49-7DGW		\$7.60		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1C1Y-6X49-7DGW	Supplies	\$3.88		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1F7Y-9QDJ-QVLT	AMAZON PARTS	\$105.69		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1FWH-JY9M-63N1 ship.1C1Y-6X49-7DGW	Refund for	(\$5.45)		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1GRR-C6JT-61JV	Supplies	\$35.88		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1GRR-C6JT-HVYG	BATTERIES FOR STOCK	\$27.01		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1GRR-C6JT-HVYG	BATTERIES FOR STOCK	\$15.10		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1N3T-DTP3-66PY	PARTS/ SUPPLIES	\$118.73		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1N3T-DTP3-66PY	PARTS/ SUPPLIES	\$103.30		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1N3T-DTP3-66PY	PARTS/ SUPPLIES	\$11.75		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1N3T-DTP3-66PY	PARTS/ SUPPLIES	\$6.50		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1Y7G-9XJR-4DTC	AMAZON PARTS	\$22.84		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1Y7G-9XJR-4DTC		\$7.60		
123230	2025-05-14	AMAZON CAPITAL SERVICES, INC	Inv# 1GRR-C6JT-61JV	Supplies	\$15.21		
		Total for Check:	123230			\$520.21	\$37,100.34
123231	2025-05-14	ANAHEIM, CITY OF	Inv# 110199000_20250428	03/14/2025 to 04/15/2025	\$91,929.73		
		Total for Check:	123231			\$91,929.73	\$553,881.25
123232	2025-05-14	BATTERY SYSTEMS	Inv# 6616580	BPO Batteries	\$93.38		
		Total for Check:	123232			\$93.38	\$7,110.28
123234	2025-05-14	BEAR STATE WATER HEATING	Inv# 798217	Boiler #2 Influent Pipe Reloca	\$2,000.00		
123234	2025-05-14	BEAR STATE WATER HEATING	Inv# 798217	Boiler #2 Influent Pipe Reloca	\$598.13		
123234	2025-05-14	BEAR STATE WATER HEATING	Inv# 798217	Boiler #2 Influent Pipe Reloca	\$218.79		
123234	2025-05-14	BEAR STATE WATER HEATING	Inv# 798217	Boiler #2 Influent Pipe Reloca	\$163.25		
123234	2025-05-14	BEAR STATE WATER HEATING	Inv# 798217	Boiler #2 Influent Pipe Reloca	\$157.69		
123234	2025-05-14	BEAR STATE WATER HEATING	Inv# 798217	Boiler #2 Influent Pipe Reloca	\$148.20		
123234	2025-05-14	BEAR STATE WATER HEATING	Inv# 798217	Boiler #2 Influent Pipe Reloca	\$139.18		
123234	2025-05-14	BEAR STATE WATER HEATING	Inv# 798217	Boiler #2 Influent Pipe Reloca	\$87.54		
123234	2025-05-14	BEAR STATE WATER HEATING	Inv# 798217	Boiler #2 Influent Pipe Reloca	\$63.40		
123234	2025-05-14	BEAR STATE WATER HEATING	Inv# 798217	Boiler #2 Influent Pipe Reloca	\$49.21		
123234	2025-05-14	BEAR STATE WATER HEATING	Inv# 798217	Boiler #2 Influent Pipe Reloca	\$40.00		
123234	2025-05-14	BEAR STATE WATER HEATING	Inv# 798217	Boiler #2 Influent Pipe Reloca	\$25.00		
		Total for Check:	123234			\$3,690.39	\$21,829.05

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Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
123235	2025-05-14	BLUESPACE INTERIORS	Inv# I-02305781	ERGO	\$261.17		
123235	2025-05-14	BLUESPACE INTERIORS	Inv# I-02305781	ERGO	\$92.44		
123235	2025-05-14	BLUESPACE INTERIORS	Inv# I-02305781	ERGO	\$2.99		
123235	2025-05-14	BLUESPACE INTERIORS	Inv# I-02306437	Ergo	\$33.77		
123235	2025-05-14	BLUESPACE INTERIORS	Inv# I-02306437	Ergo	\$13.70		
123235	2025-05-14	BLUESPACE INTERIORS	Inv# I-02306437	Ergo	\$2.99		
Total for Check: 123235						\$407.06	\$9,898.71
123236	2025-05-14	BPS SUPPLY GROUP	Inv# S3219298.001	Generated by reorder 4/17/25 7	\$289.57		
123236	2025-05-14	BPS SUPPLY GROUP	Inv# S3219298.001	Generated by reorder 4/17/25 7	\$155.47		
123236	2025-05-14	BPS SUPPLY GROUP	Inv# S3219298.001	Handling	\$4.35		
123236	2025-05-14	BPS SUPPLY GROUP	Inv# S3219298.001	Discount	(\$8.18)		
123236	2025-05-14	BPS SUPPLY GROUP	Inv# S3219298.001	Shipping	\$13.36		
Total for Check: 123236						\$454.57	\$7,273.46
123237	2025-05-14	CDW GOVERNMENT, INC	Inv# AD7KI6G	SCADA UPS battery replacement	\$1,964.52		
Total for Check: 123237						\$1,964.52	\$33,319.14
123238	2025-05-14	CEL ANALYTICAL INC	Inv# 241211-5762	WQ ANALYSIS	\$420.00		
123238	2025-05-14	CEL ANALYTICAL INC	Inv# 250402-6111	WQ ANALYSIS	\$630.00		
123238	2025-05-14	CEL ANALYTICAL INC	Inv# 250409-6140	WQ ANALYSIS	\$420.00		
Total for Check: 123238						\$1,470.00	\$11,970.00
123239	2025-05-14	CET ENGINEERING, INC.	Inv# 250250	SPCC	\$3,360.00		
Total for Check: 123239						\$3,360.00	\$3,360.00
123240	2025-05-14	CONSOLIDATED OFFICE SYSTEMS	Inv# 31375	OFFICE CHAIRS	\$12,397.50		
123240	2025-05-14	CONSOLIDATED OFFICE SYSTEMS	Inv# 31375	OFFICE CHAIRS	\$200.00		
Total for Check: 123240						\$12,597.50	\$22,243.67
123241	2025-05-14	CPI	Inv# 1261490	FSA Admin Fee 4/1/25-4/30/25	\$277.20		
Total for Check: 123241						\$277.20	\$3,022.55
123242	2025-05-14	CULLIGAN OF SANTA ANA	Inv# 1989690	WATER SOFTNER SERVICE	\$209.21		
Total for Check: 123242						\$209.21	\$2,487.89
123243	2025-05-14	DUNN EDWARDS	Inv# 2158A33070	BPO FOR PAINT	\$208.95		
Total for Check: 123243						\$208.95	\$333.71
123244	2025-05-14	EMPLOYMENT DEVELOPMENT DEPT.	Inv# L2147453392	Unemployment Insurance Benefit	\$2,025.00		
Total for Check: 123244						\$2,025.00	\$5,183.00

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123245	2025-05-14	EST ANALYTICAL	Inv# 1094980	Lab supplies	\$861.30		
123245	2025-05-14	EST ANALYTICAL	Inv# 1094980	Freight	\$12.77		
Total for Check: 123245						\$874.07	\$5,992.67
123246	2025-05-14	FEDERAL EXPRESS CORPORATION	Inv# 8-856-31460	Package Delivery	\$47.36		
123246	2025-05-14	FEDERAL EXPRESS CORPORATION	Inv# 8-856-31461	Package Delivery	\$488.87		
Total for Check: 123246						\$536.23	\$15,323.76
123248	2025-05-14	FISHER SCIENTIFIC CO.	Inv# 0020439	Generated by reorder 1/23/25 2	\$1,622.76		
123248	2025-05-14	FISHER SCIENTIFIC CO.	Inv# 0054063		\$438.52		
123248	2025-05-14	FISHER SCIENTIFIC CO.	Inv# 0054064		\$54.86		
123248	2025-05-14	FISHER SCIENTIFIC CO.	Inv# 0054065	Generated by reorder 3/20/25 2	\$1,217.08		
123248	2025-05-14	FISHER SCIENTIFIC CO.	Inv# 0054066	Lab supplies	\$15,141.28		
123248	2025-05-14	FISHER SCIENTIFIC CO.	Inv# 0054066	Lab supplies	\$15,141.26		
123248	2025-05-14	FISHER SCIENTIFIC CO.	Inv# 0054066	Lab supplies	\$3,562.65		
123248	2025-05-14	FISHER SCIENTIFIC CO.	Inv# 0054066	Lab supplies	\$413.25		
123248	2025-05-14	FISHER SCIENTIFIC CO.	Inv# 0082898	Lab supplies	\$427.13		
123248	2025-05-14	FISHER SCIENTIFIC CO.	Inv# 0082899	Lab supplies	\$104.46		
123248	2025-05-14	FISHER SCIENTIFIC CO.	Inv# 9987538	Lab supplies	\$496.99		
123248	2025-05-14	FISHER SCIENTIFIC CO.	Inv# 9987539	Lab supplies	\$2,520.03		
Total for Check: 123248						\$41,140.27	\$279,651.62
123249	2025-05-14	FRONTIER COMMUNICATIONS	Inv# 714-378-3200_20250428	04/28/2025 - 05/27/2025	\$2,652.79		
Total for Check: 123249						\$2,652.79	\$56,728.20
123250	2025-05-14	FRONTIER COMMUNICATIONS	Inv# 323-171-0001_20250426	04/26/2025 - 05/25/2025	\$555.00		
Total for Check: 123250						\$555.00	\$56,728.20
123251	2025-05-14	FRONTIER COMMUNICATIONS	Inv# 714-964-1492_20250428	04/28/2025 - 05/27/2025	\$76.67		
Total for Check: 123251						\$76.67	\$56,728.20
123252	2025-05-14	FRUIT GROWERS LABORATORY INC	Inv# 504936A	BPO RADIOACTIVITY ANAYLSIS	\$63.00		
Total for Check: 123252						\$63.00	\$32,918.00
123253	2025-05-14	GLOBAL TEST SUPPLY	Inv# 547040-00	Depth counter for Westbay Van	\$644.01		
Total for Check: 123253						\$644.01	\$3,046.64
123254	2025-05-14	GRAINGER INC.	Inv# 9472923847	RO Build- Pulley/Belts JSMITH	\$70.49		

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123254	2025-05-14	GRAINGER INC.	Inv# 9472923854	RO Build- Pulley/Belts JSMITH	\$55.33		
123254	2025-05-14	GRAINGER INC.	Inv# 9473291913	DC Power Solenoid- JSMITH	\$113.29		
123254	2025-05-14	GRAINGER INC.	Inv# 9474630556	BPO INDUSTRIAL SUPPLIES	\$218.16		
123254	2025-05-14	GRAINGER INC.	Inv# 9474630564	BPO INDUSTRIAL SUPPLIES	\$178.78		
123254	2025-05-14	GRAINGER INC.	Inv# 9475939170	BPO INDUSTRIAL SUPPLIES	\$172.78		
123254	2025-05-14	GRAINGER INC.	Inv# 9477750120	BPO INDUSTRIAL SUPPLIES	\$463.04		
123254	2025-05-14	GRAINGER INC.	Inv# 9478002109	BPO INDUSTRIAL SUPPLIES	\$103.66		
123254	2025-05-14	GRAINGER INC.	Inv# 9478144745	BPO INDUSTRIAL SUPPLIES	\$229.36		
123254	2025-05-14	GRAINGER INC.	Inv# 9478953228	BPO INDUSTRIAL SUPPLIES	\$372.15		
Total for Check:		123254				\$1,977.04	\$191,344.94
123255	2025-05-14	GREEN THUMB, LLC	Inv# 20250392	BPO PLANT SERVICE	\$299.44		
123255	2025-05-14	GREEN THUMB, LLC	Inv# 20250392	BPO PLANT SERVICE	\$94.56		
Total for Check:		123255				\$394.00	\$4,609.66
123256	2025-05-14	HOME DEPOT CREDIT SERVICES	Inv# 1624317	BPO INDUSTRIAL SUPPLIES	\$28.38		
123256	2025-05-14	HOME DEPOT CREDIT SERVICES	Inv# 5532575	BPO INDUSTRIAL SUPPLIES	\$32.46		
123256	2025-05-14	HOME DEPOT CREDIT SERVICES	Inv# 6526314	BPO INDUSTRIAL SUPPLIES	\$51.68		
Total for Check:		123256				\$112.52	\$32,459.58
123257	2025-05-14	IMPERIAL SPRINKLER	Inv# 0020632184-001	BPO LANDSCAPE SUPPLIES	\$264.85		
123257	2025-05-14	IMPERIAL SPRINKLER	Inv# 0020632184-001	PURCHASE DISCOUNTS	(\$4.92)		
Total for Check:		123257				\$259.93	\$709.67
123258	2025-05-14	INDUSTRIAL METAL SUPPLY CO.	Inv# 2898848	MAINTENANCE SUPPLIES YADI	\$839.09		
123258	2025-05-14	INDUSTRIAL METAL SUPPLY CO.	Inv# 2898848	MAINTENANCE SUPPLIES YADI	\$246.78		
123258	2025-05-14	INDUSTRIAL METAL SUPPLY CO.	Inv# 2898848	Discount	(\$9.99)		
123258	2025-05-14	INDUSTRIAL METAL SUPPLY CO.	Inv# 2902675	INDUSTRIAL METAL SUPPLY	\$750.38		
123258	2025-05-14	INDUSTRIAL METAL SUPPLY CO.	Inv# 2902675	PURCHASE DISCOUNTS	(\$6.90)		
Total for Check:		123258				\$1,819.36	\$9,285.96
123259	2025-05-14	INTERA INCORPORATED	Inv# 03-25-53	Mar25 Alamitos GAP grndwtr.mod	\$6,447.50		
Total for Check:		123259				\$6,447.50	\$100,196.07
123260	2025-05-14	IRON MOUNTAIN	Inv# 202990031	BPO ARCHIVAL SERVICES	\$164.32		
123260	2025-05-14	IRON MOUNTAIN	Inv# KKBP745	BPO ARCHIVAL SERVICES	\$3,866.23		
123260	2025-05-14	IRON MOUNTAIN	Inv# KKBP745	BPO ARCHIVAL SERVICES	\$882.59		
Total for Check:		123260				\$4,913.14	\$57,229.02

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Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
123261	2025-05-14	KENNEDY/JENKS CONSULTANTS, INC.	Inv# 179348	thru 3/28 PFAS Orange wo#3	\$43,759.29		
123261	2025-05-14	KENNEDY/JENKS CONSULTANTS, INC.	Inv# 179357	thru 3/28 PFAS Orange 20,21,22	\$32,828.25		
Total for Check: 123261						\$76,587.54	\$508,331.29
123262	2025-05-14	LHOIST NORTH AMERICA	Inv# 1102507266	4/15 lime(2) 25.44 & 25.20 ton	\$22,694.82		
Total for Check: 123262						\$22,694.82	\$1,553,246.63
123263	2025-05-14	LIFE TECHNOLOGIES CORP	Inv# 86987937	Lab supplies	\$1,576.87		
123263	2025-05-14	LIFE TECHNOLOGIES CORP	Inv# 86987937	Lab supplies	\$1,294.13		
123263	2025-05-14	LIFE TECHNOLOGIES CORP	Inv# 86987937		\$216.42		
Total for Check: 123263						\$3,087.42	\$23,291.80
123264	2025-05-14	LILLESTRAND LEADERSHIP CONSULTING	Inv# 8139	4/1,3,10,15 leadership	\$2,250.00		
Total for Check: 123264						\$2,250.00	\$36,875.00
123265	2025-05-14	MAGNOLIA BIRD FARMS	Inv# 37143	BPO BIRD SEEDS & SUPPLIES	\$292.54		
Total for Check: 123265						\$292.54	\$3,926.42
123266	2025-05-14	MAIL DELIVERY SERVICE CO.	Inv# 23083	BPO MAIL DELIVERY	\$391.03		
123266	2025-05-14	MAIL DELIVERY SERVICE CO.	Inv# 23083	BPO MAIL DELIVERY	\$24.47		
Total for Check: 123266						\$415.50	\$4,522.50
123267	2025-05-14	MCFADDEN-DALE HARDWARE CO.	Inv# 576382/5	BPO INDUSTRIAL SUPPLIES	\$160.98		
123267	2025-05-14	MCFADDEN-DALE HARDWARE CO.	Inv# 576382/5		(\$4.48)		
Total for Check: 123267						\$156.50	\$6,222.14
123268	2025-05-14	MCMASTER-CARR SUPPLY COMPANY	Inv# 45250790	BPO INDUSTRIAL SUPPLIES	\$99.22		
123268	2025-05-14	MCMASTER-CARR SUPPLY COMPANY	Inv# 45250790	SHIPPING	\$10.25		
123268	2025-05-14	MCMASTER-CARR SUPPLY COMPANY	Inv# 45250790	PURCHASE DISCOUNTS	(\$1.98)		
Total for Check: 123268						\$107.49	\$15,764.11
123269	2025-05-14	MUNICIPAL WATER DISTRICT OF OC	Inv# 11765	March 2025 water purchase	\$125,055.27		
Total for Check: 123269						\$125,055.27	\$2,085,006.02
123270	2025-05-14	McMichael, David	Inv# JUNE 2024-APR 2025 STIPEN	6/8/24-4/7/25 phone stipends	\$400.00		
Total for Check: 123270						\$400.00	\$695.78

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123271	2025-05-14	NAMETAGWIZARD	Inv# INV92612979	ORDER NAMETAGS - NEW STAFF	\$8.99		
123271	2025-05-14	NAMETAGWIZARD	Inv# INV92612979	ORDER NAMETAGS - NEW STAFF	\$8.99		
123271	2025-05-14	NAMETAGWIZARD	Inv# INV92612979	ORDER NAMETAGS - NEW STAFF	\$4.95		
Total for Check:		123271				\$22.93	\$316.88
123272	2025-05-14	NAPA AUTO PARTS	Inv# 150493	BPO TRUCK PARTS	\$72.24		
123272	2025-05-14	NAPA AUTO PARTS	Inv# 150548	BPO TRUCK PARTS	\$15.41		
123272	2025-05-14	NAPA AUTO PARTS	Inv# 150572	BPO TRUCK PARTS	\$39.93		
Total for Check:		123272				\$127.58	\$15,607.09
123273	2025-05-14	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 752105	BPO AUTO PARTS	\$42.35		
123273	2025-05-14	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 752105	PURCHASE DISCOUNTS	(\$0.85)		
123273	2025-05-14	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 752144	BPO AUTO PARTS	\$19.89		
123273	2025-05-14	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 752144	PURCHASE DISCOUNTS	(\$0.40)		
123273	2025-05-14	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 752198	BPO AUTO PARTS	\$5.19		
123273	2025-05-14	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 752198	PURCHASE DISCOUNTS	(\$0.10)		
123273	2025-05-14	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 752229	BPO AUTO PARTS	\$95.66		
123273	2025-05-14	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 752229	PURCHASE DISCOUNTS	(\$1.91)		
Total for Check:		123273				\$159.83	\$2,898.60
123274	2025-05-14	NJB SOFT LLC	Inv# 6086-4	1656	\$3,000.00		
Total for Check:		123274				\$3,000.00	\$57,500.00
123275	2025-05-14	ODP BUSINESS SOLUTIONS LLC	Inv# 421183227001	OFFICE SUPPLIES	\$269.95		
123275	2025-05-14	ODP BUSINESS SOLUTIONS LLC	Inv# 421183227001	OFFICE SUPPLIES	\$42.03		
Total for Check:		123275				\$311.98	\$3,959.88
123276	2025-05-14	ONESOURCE DISTRIBUTORS INC.	Inv# S007895995.001	J452404-08 24/PR CAT5E JHAMMER	\$531.30		
123276	2025-05-14	ONESOURCE DISTRIBUTORS INC.	Inv# S007895995.001	PURCHASE DISCOUNTS	(\$4.89)		
Total for Check:		123276				\$526.41	\$281,686.69
123277	2025-05-14	ORR PROTECTION SYSTEMS	Inv# IN-0058417	BPO FOR IS	\$415.00		

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		Total for Check:	123277			\$415.00	\$4,110.00
123278	2025-05-14	PACIFIC MECHANICAL SUPPLY	Inv# 5388587	Generated by reorder 5/1/25 6:	\$2,471.29		
123278	2025-05-14	PACIFIC MECHANICAL SUPPLY	Inv# 5388587	PURCHASE DISCOUNTS	(\$22.73)		
		Total for Check:	123278			\$2,448.56	\$30,377.39
123279	2025-05-14	PERFORMANCE PIPELINE TECHNOLOGIES	Inv# 4187	Clean Debris in B01 MF JSMITH	\$2,520.00		
		Total for Check:	123279			\$2,520.00	\$34,617.50
123280	2025-05-14	PHENOVA INC	Inv# 214996		\$85.72		
123280	2025-05-14	PHENOVA INC	Inv# 214996	Lab supplies	\$81.29		
123280	2025-05-14	PHENOVA INC	Inv# 214996	Lab supplies	\$81.29		
123280	2025-05-14	PHENOVA INC	Inv# 214996		\$13.05		
		Total for Check:	123280			\$261.35	\$23,746.68
123281	2025-05-14	QDOXS	Inv# IN67403	BPO COPIER MAINTENANCE	\$193.28		
		Total for Check:	123281			\$193.28	\$6,867.65
123282	2025-05-14	QUINN COMPANY	Inv# PC830433515	BPO EQUIPMENT & SUPPLIES	\$531.21		
123282	2025-05-14	QUINN COMPANY	Inv# PC830433516	BPO EQUIPMENT & SUPPLIES	\$1,235.16		
123282	2025-05-14	QUINN COMPANY	Inv# PC830433625	BPO EQUIPMENT & SUPPLIES	\$576.71		
123282	2025-05-14	QUINN COMPANY	Inv# PC830433626	BPO EQUIPMENT & SUPPLIES	\$56.57		
123282	2025-05-14	QUINN COMPANY	Inv# PC830433726	BPO EQUIPMENT & SUPPLIES	\$227.16		
		Total for Check:	123282			\$2,626.81	\$91,863.64
123283	2025-05-14	RAINBOW DISPOSAL CO INC	Inv# 0605-001182837	BPO TRASH SERVICE	\$7,043.32		
		Total for Check:	123283			\$7,043.32	\$84,061.54
123284	2025-05-14	RED WING SHOE CO. INC.	Inv# 789-1-80067	BPO WORK BOOTS	\$170.42		
		Total for Check:	123284			\$170.42	\$10,376.28
123285	2025-05-14	SANTA ANA RIVER WATERMASTER	Inv# SHARED COSTS FY24-25 Watermaster	FY24-25 SAR	\$4,000.00		
		Total for Check:	123285			\$4,000.00	\$4,000.00
123286	2025-05-14	SANTA ANA, CITY OF	Inv# ENCROACHMENT PERMIT RENEW encroachment permit fee	Annual	\$2,376.00		
		Total for Check:	123286			\$2,376.00	\$4,436.00
123287	2025-05-14	SCIENTIFIC REFRIGERATION	Inv# 1004581	Incubator repair- 3/24/2025	\$1,364.36		
		Total for Check:	123287			\$1,364.36	\$1,793.36
123288	2025-05-14	SOUTHERN CALIFORNIA EDISON CO.	Inv# 700145466803_20250506		\$986,956.97		

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Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
		Total for Check:	123288			\$986,956.97	\$9,317,736.01
123289	2025-05-14	STAPLES ADVANTAGE	Inv# 6029462948	Generated by reorder 4/9/25 11	\$172.23		
		Total for Check:	123289			\$172.23	\$12,227.87
123290	2025-05-14	SWAINS ELECTRIC MOTORS	Inv# B08322	Rebuild 7hp BJM Submersible Pu	\$3,740.00		
123290	2025-05-14	SWAINS ELECTRIC MOTORS	Inv# B08322	Rebuild 7hp BJM Submersible Pu	\$2,835.36		
123290	2025-05-14	SWAINS ELECTRIC MOTORS	Inv# B08322	Rebuild 7hp BJM Submersible Pu	\$150.00		
		Total for Check:	123290			\$6,725.36	\$42,603.70
123291	2025-05-14	TAB ANSWER NETWORK CALL CENTER	Inv# 1505405012025	acct 15054	\$86.65		
		Total for Check:	123291			\$86.65	\$1,024.51
123292	2025-05-14	SoCalGas	Inv# 04440929000_20250506	04/10/2025 - 05/02/2025	\$526.50		
123292	2025-05-14	SoCalGas	Inv# 05070929004_20250506	04/03/2025 - 05/02/2025	\$601.26		
123292	2025-05-14	SoCalGas	Inv# 11375833040_20250506	04/03/2025 - 05/02/2025	\$5,792.01		
		Total for Check:	123292			\$6,919.77	\$76,112.73
123293	2025-05-14	TOM'S TRUCK CENTER, INC	Inv# 1364573	BPO FORD PARTS	\$61.00		
123293	2025-05-14	TOM'S TRUCK CENTER, INC	Inv# 1364573	Freight	\$23.95		
		Total for Check:	123293			\$84.95	\$3,591.40
123294	2025-05-14	U.S. BANK	Inv# 14748845	US BANK FEES MAR 2025	\$1,153.67		
		Total for Check:	123294			\$1,153.67	\$52,965.00
123295	2025-05-14	UNIFIRST CORPORATION	Inv# 2190329759	1557	\$283.23		
123295	2025-05-14	UNIFIRST CORPORATION	Inv# 2190329759	1557	\$8.01		
123295	2025-05-14	UNIFIRST CORPORATION	Inv# 2190330934	1557	\$54.25		
123295	2025-05-14	UNIFIRST CORPORATION	Inv# 2190330936	1557	\$16.77		
123295	2025-05-14	UNIFIRST CORPORATION	Inv# 2190330938	1557	\$278.44		
123295	2025-05-14	UNIFIRST CORPORATION	Inv# 2190330940	1557	\$10.78		
123295	2025-05-14	UNIFIRST CORPORATION	Inv# 2190330946	1557	\$104.56		
123295	2025-05-14	UNIFIRST CORPORATION	Inv# 2190330947	1557	\$22.22		
123295	2025-05-14	UNIFIRST CORPORATION	Inv# 2190330954	1557	\$486.27		
123295	2025-05-14	UNIFIRST CORPORATION	Inv# 2200254825	1557	\$49.86		
		Total for Check:	123295			\$1,314.39	\$55,722.30
123296	2025-05-14	UNIVERSAL BACKGROUND SCREENING INC	Inv# 202504008258	BPO BACKGROUND CHECK	\$695.64		
		Total for Check:	123296			\$695.64	\$5,359.53

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123297	2025-05-14	UNIVERSITY OF CALIFORNIA, IRVINE	Inv# 27096728	Samples to UCI Genomics Hub	\$291.44		
Total for Check: 123297						\$291.44	\$1,227.60
123298	2025-05-14	UTILIQUEST LLC	Inv# 342119-Q	4/6-12 screen/mark pipes	\$1,224.11		
123298	2025-05-14	UTILIQUEST LLC	Inv# 342119-Q	4/6-12 screen/mark pipes	\$714.07		
123298	2025-05-14	UTILIQUEST LLC	Inv# 342119-Q	4/6-12 screen/mark pipes	\$87.52		
123298	2025-05-14	UTILIQUEST LLC	Inv# 342119-Q	4/6-12 screen/mark pipes	\$14.49		
Total for Check: 123298						\$2,040.19	\$87,924.30
123299	2025-05-14	VEOLIA WTS SERVICES USA INC	Inv# 903201117	Caps Filt, High Cap40M JHAMMER	\$1,837.88		
123299	2025-05-14	VEOLIA WTS SERVICES USA INC	Inv# 903201117	freight and handling	\$28.09		
Total for Check: 123299						\$1,865.97	\$131,843.97
123300	2025-05-14	VHG LABORATORIES INC.	Inv# 105303217		\$1,257.00		
Total for Check: 123300						\$1,257.00	\$5,341.00
123301	2025-05-14	VWR INTERNATIONAL LLC	Inv# 8818798077	Lab supplies	\$192.18		
Total for Check: 123301						\$192.18	\$83,635.55
123302	2025-05-14	WATER QUALITY & TREATMENT SOLUTIONS INC	Inv# 25-3868	thru 3/31 WRF PFAS TC	\$7,250.00		
Total for Check: 123302						\$7,250.00	\$27,299.40
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967051	4/28 4863 gal hypochlorite	\$8,373.60		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967051	CA mill	\$205.15		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967051	discount	(\$167.47)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967066	4/28 4851 gal hypochlorite	\$8,352.94		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967066	CA mill	\$204.65		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967066	discount	(\$167.06)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967067	4/28 4846 gal hypochlorite	\$8,344.33		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967067	CA mill	\$204.44		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967067	discount	(\$166.89)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967068	4/28 4796 gal hypochlorite	\$8,258.23		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967068	CA mill	\$202.33		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967068	discount	(\$165.16)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967161	4/29 4887 gal hypochlorite	\$8,414.93		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967161	CA mill	\$206.17		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967161	discount	(\$168.30)		

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978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967162	4/29 4877 gal hypochlorite	\$8,397.71		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967162	CA mill	\$205.74		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967162	discount	(\$167.95)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967163	4/29 4871 gal hypochlorite	\$8,387.37		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967163	CA mill	\$205.49		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967163	discount	(\$167.75)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967164	4/29 4802 gal hypochlorite	\$8,268.56		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967164	CA mill	\$202.58		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967164	discount	(\$165.37)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967396	5/1 4853 gal hypochlorite	\$8,356.38		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967396	CA mill	\$204.73		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967396	discount	(\$167.13)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967397	5/1 4800 gal hypochlorite	\$8,265.12		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967397	CA mill	\$202.50		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967397	discount	(\$165.30)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967398	5/1 4850 gal hypochlorite	\$8,351.22		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967398	CA mill	\$204.60		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967398	discount	(\$167.02)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967399	5/1 4877 gal hypochlorite	\$8,397.71		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967399	CA mill	\$205.74		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967399	discount	(\$167.95)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967517	5/2 4857 gal hypochlorite	\$8,363.27		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967517	CA mill	\$204.90		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967517	discount	(\$167.27)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967518	5/2 4911 gal hypochlorite	\$8,456.25		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967518	CA mill	\$207.18		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967518	discount	(\$169.12)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967537	5/2 4877 gal hypochlorite	\$8,397.71		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967537	CA mill	\$205.74		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967537	discount	(\$167.95)		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967541	5/2 4933 gal hypochlorite	\$8,494.13		
978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967541	CA mill	\$208.11		

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978759	2025-05-08	JCI JONES CHEMICAL, INC	Inv# 967541	discount	(\$169.88)		
Total for Check: 978759						\$134,481.94	\$4,990,438.14
978760	2025-05-13	WELLS FARGO BANK	Inv# MAY 14, 2025 GARN C-REG Garn C-Reg	PR10 May 14,25 6911	\$351.80		
Total for Check: 978760						\$351.80	\$23,477,746.90
978761	2025-05-13	WELLS FARGO BANK	Inv# MAY 14, 2025 GARN ABF Garn ABF	PR10 May 14,25 6911	\$1,985.54		
Total for Check: 978761						\$1,985.54	\$23,477,746.90
978762	2025-05-13	WELLS FARGO BANK	Inv# MAY 14, 2025 ID6527	PR10 May 14, 2025 ID6527	\$41,210.11		
Total for Check: 978762						\$41,210.11	\$23,477,746.90
978763	2025-05-13	WELLS FARGO BANK	Inv# MAY 14, 2025 ID6911	PR10 May 14, 2025 ID 6911	\$992,709.50		
Total for Check: 978763						\$992,709.50	\$23,477,746.90
978764	2025-05-14	FIDELITY INVESTMENTS	Inv# MAY 14, 2025 401A	PR10 May 14, 2025 401A	\$260,438.60		
Total for Check: 978764						\$260,438.60	\$5,923,886.55
978765	2025-05-14	FIDELITY INVESTMENTS	Inv# MAY 14, 2025 457B 89148	PR#10 May 14, 2025 Plan	\$103,225.85		
Total for Check: 978765						\$103,225.85	\$2,483,486.51
Run Date: 5/13/2025					\$3,540,843.10	\$3,540,843.10	

MINUTES OF MEETING
BOARD OF DIRECTORS, ORANGE COUNTY WATER DISTRICT
April 16, 2025 5:30 p.m.

President Bilodeau called to order the April 16, 2025 regular meeting of the Orange County Water District Board of Directors at 5:30 p.m. Following the Pledge of Allegiance to the Flag, the District Secretary called the roll and reported a quorum as follows. Public access was also provided via Zoom webinar.

Directors

Valerie Amezcua
Denis Bilodeau
Cathy Green
Fred Jung
Dina Nguyen
Natalie Meeks (absent)
Stephen Sheldon
Van Tran
Erik Weigand
Roger Yoh

Staff

John Kennedy, General Manager
Jeremy Jungreis, General Counsel
Christina Fuller, District Secretary

VISITOR PARTICIPATION

James Fisler provided an OC LAFCO update. Paul Mesmer provided an update on ISDOC meetings and services.

1. Public Hearing to Consider Water Year 2025-26 Replenishment Assessments, Basin Equity Assessment, Basin Production Percentage, Production Requirement Limitation and Surcharge

President Bilodeau opened the public hearing for Finding and Determining the Groundwater Basin Overdraft; Levying the RA, Additional RA, and Fixed Charge RA, establishing the BPP, establishing a Production Limitation and a Surcharge, and setting the BEA. Executive Director Chris Olsen explained that The District Act requires a public hearing be held each April to establish the Replenishment Assessment (RA), Additional Replenishment Assessment (ARA), Basin Production Percentage (BPP), Production Limitation and Surcharge, and the Basin Equity Assessments (BEA). He stated that staff recommends setting the RA and ARA at \$355.5 per acre-foot. He reported that the BPP remains at 85% and that a Production Limitation of 100% would be established along with a Surcharge of \$2,000/acre-foot for groundwater production above the Production Limitation. Mr. Olsen noted that the rates established by the Board would become effective July 1, 2025. President Bilodeau then opened the hearing for public comment.

There being no persons wishing to present testimony, President Bilodeau declared the hearing closed and the Board took the following actions.

1. Resolution A

Upon motion by Director Green, seconded by Director Amezcua, the following resolution was adopted [9-0] by roll call vote.

Ayes: Amezcua, Bilodeau, Green, Jung, Nguyen, Sheldon, Tran, Weigand, Yoh

Absent: Meeks

RESOLUTION NO. 25-4-53
FINDING AND DETERMINING A GROUNDWATER BASIN OVERDRAFT EXISTS

WHEREAS, the report and recommendation of the General Manager on the amount of the replenishment rates, which includes a consideration of the amount of money necessary for replenishment purposes and to pay the costs of initiating, carrying on and completing any of the powers, projects and purposes of the District, has been heard; and

WHEREAS, pursuant to the provisions of the Orange County Water District Act, an engineering investigation and report concerning the condition of the groundwater supplies of the Orange County Water District has been filed and presented to the Board of said District, and a public hearing was held on March 20, 2024, for the purpose of considering the groundwater conditions of said District and to hear persons supporting or protesting the written engineering investigation and report on file with said District; and

WHEREAS, all notices as required regarding said hearing were given and all persons were permitted an opportunity to submit any evidence to this Board; and said matter was submitted to this Board of Directors for their finding and determination;

NOW, THEREFORE, BE IT HEREBY RESOLVED, that the Board of Directors of the Orange County Water District finds and determines that an overdraft, both annual (based on normal hydrology) and accumulated, does exist in the groundwater supplies of said District; and

BE IT FURTHER RESOLVED that this Board of Directors hereby finds and determines as follows:

1. That the average annual overdraft for the immediate past five water years without supplemental replenishment water is 94,900 AF
2. That the annual basin overdraft for the current water year, July 1, 2024 to June 30, 2025 without supplemental replenishment water is estimated to be 118,000 AF
3. That the estimated annual basin overdraft for the ensuing water year, July 1, 2024 to June 30, 2025 without supplemental replenishment water is 111,000 AF
4. That the accumulated overdraft as of the last day of the preceding water year, June 30, 2024, is 133,000 AF
5. That the accumulated overdraft as of the last day of the current water year, assuming average hydrology June 30, 2025 is estimated to be 121,000 AF
6. That the maximum amounts of water which could be purchased pursuant to the District Act from the Replenishment Fund for the replenishment of the groundwater supplies of the District for the ensuing water year is 108,200 AF
7. That the recommended amount of water to be purchased for the replenishment of the groundwater supplies of the District for the ensuing water year, excluding supplies for the Talbert seawater intrusion barrier, is 8,000 AF

8. That the amount of money necessary to purchase the recommended amount of water to replenish the groundwater supplies of the District for the water year July 1, 2024 to June 30, 2025 is\$11.1 million

2. Resolution B

Upon motion by Director Green, seconded by Director Bilodeau, the following resolution was adopted [9-0] by roll call vote.

Ayes: Amezcua, Bilodeau, Green, Jung, Nguyen, Sheldon, Tran, Weigand, Yoh

Absent: Meeks

RESOLUTION NO. 25-4-54
LEVYING REPLENISHMENT ASSESSMENT FOR WATER PRODUCED
DURING WATER YEAR 2025-26

WHEREAS, the engineering investigation and report concerning the condition of the groundwater supplies of the Orange County Water District has been made and filed; and

WHEREAS, the report and recommendation of the General Manager on the amount of the replenishment rate, which includes a consideration of the amount of money necessary for replenishment purposes and to pay the costs of initiating, carrying on and completing any of the powers, projects and purposes of the District, has been heard; and

WHEREAS, on March 19, 2025, the District provided public documents on a potential increase to the Replenishment Assessment to be levied and imposed on each groundwater producer, and the basis and reasons for the proposed Replenishment Assessment; and

WHEREAS, a duly noticed public hearing was held on March 19, 2025 concerning the condition of the groundwater supplies of this District and a duly noticed public hearing was held on April 16, 2025 for the purpose of determining the need and desirability of levying a Replenishment Assessment; and

WHEREAS, no written protests were filed against the adoption, levy and imposition of the proposed Replenishment Assessment; and

WHEREAS, this Board has found and determined that an annual and accumulated overdraft does exist;

NOW, THEREFORE, the Board of Directors of the Orange County Water District does hereby resolve as follows:

Section 1: That the Board of Directors does hereby find and determine that it is necessary and desirable to levy a Replenishment Assessment and to fix the rate thereof for the purchase of water to replenish the groundwater supplies of said District and to pay the costs of initiating, carrying on and completing any of the powers, projects and purposes of the District for the ensuing water year.

Section 2: That, based upon the staff report and presentation, the proposed fiscal year 2025-26 budget presented by the General Manager, and the testimony and evidence presented at the public hearing, the Board of Directors finds and declares as follows:

- (a) In accordance with Sections 23 and 27 of the Orange County Water District Act, the purposes of the Replenishment Assessment are to generate revenues sufficient to acquire water to replenish the average annual overdraft for the immediate five years plus an additional amount of water sufficient to eliminate over a period of not less than 10 years nor more than 20 years the accumulated overdraft, and to provide the services and to pay the costs of initiating, carrying on, and completing the powers, projects and purposes for which the District was organized and which are authorized by the Board of Directors;
- (b) The revenues derived from the levy and imposition of the Replenishment Assessment do not exceed the reasonable costs to the District of acquiring water, providing the groundwater management and replenishment services and carrying out the powers, projects and purposes for which the District was organized, and which are authorized by the Board of Directors;
- (c) The Replenishment Assessment is imposed for groundwater management and replenishment services to pay the costs of initiating, carrying on, and completing the powers, projects, and purposes for which the District was organized, and which are authorized by the Board of Directors, which are not provided to, or which do not provide a benefit to persons who are not charged directly or indirectly the Replenishment Assessment;
- (d) The manner in which the Replenishment Assessment is allocated to and imposed on any operator of a groundwater producing facility bears a fair and reasonable relationship to the operator's burdens on, or benefits received from, the District's groundwater management and replenishment services and such other projects and purposes for which the District was organized, and which are authorized by the Board of Directors; and
- (e) No Replenishment Assessment shall be levied or imposed upon any operator of any groundwater producing facility unless that operator produces groundwater.

Section 3: That pursuant to the provisions of Section 27 of the Orange County Water District Act, and based upon the finding that an overdraft, either annual or accumulated, exists, a Replenishment Assessment is hereby levied and assessed against all persons operating water producing facilities and producing water during the ensuing water year, from July 1, 2025 to and including June 30, 2026, from the groundwater supplies of said District at the uniform rate of \$355.5 per acre-foot of water produced by all persons during the ensuing water year. The Board of Directors finds and determines that the replenishment rate of \$355.5 per acre-foot of water produced by all persons during the ensuing water year does not exceed the amount necessary to purchase sufficient water to replenish the average annual overdraft for the immediate five years, plus an additional amount of water sufficient to eliminate over a period of not less than 10 years nor more than 20 years the accumulated overdraft, plus an amount to pay the costs of initiating, carrying on and completing the powers, projects and purposes for which the District was organized.

Section 4: That the Secretary of this District is hereby instructed and directed to give notice of the levy of this Replenishment Assessment as required by the Orange County Water District Act.

3. Resolution C

Upon motion by Director Green, seconded by Director Weigand, the following resolution was adopted [9-0] by roll call vote.

Ayes: Amezcua, Bilodeau, Green, Jung, Nguyen, Sheldon, Tran, Weigand, Yoh

Absent: Meeks

RESOLUTION NO. 25-4-55
LEVYING ADDITIONAL REPLENISHMENT ASSESSMENT AND FIXED CHARGE
REPLENISHMENT ASSESSMENT FOR WATER PRODUCED

DURING WATER YEAR 2025-26, AND DETERMINING THE REPLENISHMENT ASSESSMENT
AND ADDITIONAL REPLENISHMENT ASSESSMENT
EXEMPT FROM CEQA

WHEREAS, the engineering investigation and report concerning the condition of the groundwater supplies of the Orange County Water District has been made and filed; and

WHEREAS, the report and recommendation of the General Manager on the amount of the additional replenishment rate, which includes a consideration of the amount of money necessary for replenishment purposes and to pay the costs of initiating, carrying on and completing any of the powers, projects and purposes of the District, has been heard; and

WHEREAS, on March 19, 2025 the District provided public documents on a potential increase to the Additional Replenishment Assessment to be levied and imposed on each groundwater producer, and the basis and reasons for the proposed Additional Replenishment Assessment; and

WHEREAS, the Additional Replenishment Assessment is paid by all persons operating water producing facilities for all purposes other than irrigation as defined in the District Act; and

WHEREAS, a duly noticed public hearing was held on March 19, 2025 concerning the condition of the groundwater supplies of this District and a duly noticed public hearing was held on April 16, 2025 for the purpose of determining the need and desirability of levying an Additional Replenishment Assessment, and fixing the rate thereof; and

WHEREAS, no written protests were filed against the adoption, levy and imposition of the proposed Additional Replenishment Assessment; and

WHEREAS, this Board has heretofore levied a Replenishment Assessment against all persons operating water producing facilities and producing water during the ensuing water year, from July 1, 2025 to and including June 30, 2026, from the groundwater supplies of said District at the uniform rate of \$355.5 per acre-foot of water produced by all persons during the ensuing water year;

NOW, THEREFORE, the Board of Directors of the Orange County Water District does hereby resolve as follows:

Section 1: That the Board of Directors does hereby find and determine that it is necessary and desirable to levy an Additional Replenishment Assessment and to fix the rate thereof to pay the costs of initiating, carrying on and completing any of the powers, projects and purposes of the District for the ensuing water year.

Section 2: That, based upon the staff report and presentation, the proposed fiscal year 2025-26 budget presented by the General Manager, and the testimony and evidence presented at the public hearing, the Board of Directors finds and declares as follows:

- (a) In accordance with Sections 23 and 27.1 of the Orange County Water District Act, the purpose of the Additional Replenishment Assessment is to generate revenues sufficient to provide the services and to pay the costs of initiating, carrying on, and completing the powers, projects, and purposes for which the District was organized, and which are authorized by the Board of Directors;

- (b) The revenue derived from the levy and imposition of the Additional Replenishment Assessment shall not exceed the reasonable cost to the District of providing the groundwater management and replenishment services and carrying out the powers, projects, and purposes for which the District was organized, and which are authorized by the Board of Directors;
- (c) The Additional Replenishment Assessment is imposed for groundwater management and replenishment services and to pay the costs of initiating, carrying on, and completing the powers, projects and purposes for which the District was organized, and which are authorized by the Board of Directors, which are not provided to or which do not provide a benefit to persons who are not charged directly or indirectly the Additional Replenishment Assessment;
- (d) The manner in which the Additional Replenishment Assessment is allocated to and imposed on any operator of a groundwater producing facility bears a fair and reasonable relationship to that operator's burdens on, or benefits received from the District's groundwater management and replenishment services and such other projects and purposes for which the District was organized, and which are authorized by the Board of Directors; and
- (e) No Additional Replenishment Assessment shall be levied or imposed upon any operator of any groundwater producing facility unless that operator produces groundwater for purposes other than irrigation.

Section 3: That pursuant to the provisions of Section 27.1 of the Orange County Water District Act, the Board of Directors hereby finds and determines that it is necessary and advisable to levy an Additional Replenishment Assessment against all persons operating water producing facilities for all purposes other than irrigation at a uniform rate per acre-foot for water produced during the ensuing year for the purpose of paying the costs of initiating, carrying on and completing the powers, projects and purposes for which the District is organized. The Board of Directors further finds that the Additional Replenishment Assessment rate of \$355.5 per acre-foot of water produced from the groundwater supplies of the District is necessary for the protection of the water supplies of the District and that the amount is reasonable. An Additional Replenishment Assessment is hereby levied and assessed against all persons operating water producing facilities and producing water from the groundwater supplies of said District for all purposes other than irrigation during the ensuing water year from July 1, 2025 to and including June 30, 2026 at the uniform rate of \$355.5 per acre-foot of water for a total of \$711 per acre-foot of water produced by said persons during the ensuing water year for purposes other than irrigation.

Section 4: Pursuant to Section 29 of the Orange County Water District Act, the Board of Directors of the Orange County Water District does hereby provide that the operator of any water producing facility within the District which has a discharge opening not greater than two inches in diameter and which does not provide domestic or irrigation water for an area in excess of one acre, in lieu of filing a sworn statement as to the production of groundwater, may pay a fixed Replenishment Assessment and Additional Replenishment Assessment in the amount of \$711 for water produced in the ensuing water year, namely July 1, 2025 to June 30, 2026.

Section 5: Based upon the staff report and presentation, the proposed fiscal year 2025-26 budget presented by the General Manager, and the testimony and evidence presented at the public hearing, the Board of Directors finds and declares that the adoption, levy and imposition of the Replenishment Assessment and Additional Replenishment Assessment do not constitute a "project" within the meaning of the California Environmental Quality Act ("CEQA") and are exempt from CEQA under Public Resources Code Section

21080(b)(8) and State CEQA Guidelines §§ 15378(b)(4) and 15273, because the Replenishment Assessment and Additional Replenishment Assessment: (a) involve the creation of government funding mechanisms or other government fiscal activities which do not involve any commitment to any specific project which may result in a potentially significant physical impact on the environment; and (b) are for the purposes of meeting operating expenses (including employee wage rates and fringe benefits), purchasing or leasing supplies, equipment or materials, meeting financial reserve needs and requirements, and obtaining funds for capital projects necessary to maintain the level of service within the District's existing boundaries.

Section 6: That the Board of Directors does hereby find and determine that a producer who operates a groundwater production facility for irrigation purposes as defined in the District Act is not subject to payment of the Additional Replenishment Assessment due to the benefits the District receives from agricultural activity. These benefits include:

- Open tilled agricultural fields contribute to natural incidental recharge of the groundwater basin;
- The District does not incur the costs to provide water quality groundwater testing for agricultural users, which is provided to the operators of water producing facilities for purposes other than agriculture;
- The District and the operators of water producing facilities for agricultural purposes have little to minimal interaction in annual operations. Conversely the District and the operators of facilities for non-agricultural purposes regularly interact and/or coordinate operations. Examples include the MWD Conjunctive Use Program, the Coastal Pumping Transfer Program, attending meetings, coordinating on MWD issues, legislative advocacy, public outreach and the In-lieu program; and
- Some agricultural irrigation water migrates back into aquifer reducing the net impact of groundwater production for agricultural purposes.

Section 7: That the Secretary of this District is hereby instructed and directed to give notice of the levy of the Replenishment Assessment and this Additional Replenishment Assessment as required by the Orange County Water District Act, and to file a Notice of Exemption in accordance with CEQA.

4. Resolution D

Upon motion by Director Green, seconded by Director Amezcua, the following resolution was adopted [9-0] by roll call vote.

Ayes: Amezcua, Bilodeau, Green, Jung, Nguyen, Sheldon, Tran, Weigand, Yoh

Absent: Meeks

RESOLUTION NO. 25-4-56

ESTABLISHING THE BASIN PRODUCTION PERCENTAGE, PRODUCTION LIMITATION, PRODUCTION LIMITATION SURCHARGE, AND DETERMINING THE NEED AND DESIRABILITY TO LEVY BASIN EQUITY ASSESSMENTS AND AMOUNT THEREOF, AND DETERMINING SUCH ACTIONS TO BE EXEMPT FROM CEQA

WHEREAS, pursuant to Section 31.5 of the Orange County Water District Act, an engineering report on water production and the condition of water supplies within the Orange County Water District has been filed and presented to the Board of Directors of said District, and a hearing relating to said production and condition of water supplies was held on Wednesday, March 19, 2025; and

WHEREAS, a duly noticed public hearing was held on April 16, 2025 and evidence submitted for the

purpose of determining the need and desirability of levying Basin Equity Assessments and the amount thereof, as well as the need for establishing production requirements, limitations, and surcharges to enforce said limitations, and the extent thereof, and said matters having been submitted to the Board of Directors for its findings and determinations;

WHEREAS, as documented with Resolution A, Finding and Determining a Groundwater Basin Overdraft Exists, an annual and accumulated overdraft exists with the groundwater basin and the District does not want excessive unexpected quantities of groundwater to be produced, or production of groundwater to occur in a manner that has the potential to harm users of groundwater within the District, which the setting of a Production Limitation and a Surcharge will discourage and penalize.

NOW, THEREFORE, the Board of Directors of the Orange County Water District does hereby resolve as follows:

Section 1: That the Board of Directors does hereby find and determine for the ensuing water year July 1, 2025 to June 30, 2026 as follows:

- a. The estimated total amount of water to be produced by all persons or operators within the District from the groundwater within the District is 297,000 acre-feet. Approximately 17,000 acre-feet of this amount has been determined to receive either a partial or full Basin Equity Assessment exemption pursuant to Section 38.1 of the OCWD Act.
- b. The estimated total amount to be produced by such persons and operators from groundwater and supplemental sources is 370,000 acre-feet.
- c. The Basin Production Percentage is 85 percent. There are no basin Production Requirements.
- d. The Production Limitation is 100 percent for all 19 retail Groundwater Producers and is necessary for the protection of the water supply of the District. The Surcharge for production in excess of the Production Limitation is \$2,000 per acre-foot.
- e. The Basin Equity Assessment and Production Limitations from groundwater within the District established by this resolution are necessary to prevent excessive groundwater production and to protect the water supply of the District and users of groundwater within the District.
- f. The Basin Equity Assessment shall be set at \$0 per acre-foot for agricultural irrigation use producers who do not have a supplemental water connection, and that such amount is reasonable.
- g. The Basin Equity Assessments to be levied against all other persons and operators in a dollar amount per acre-foot of water produced from the groundwater supply (in excess of the basin production percentage) for all purposes including irrigation are as follows:

h.

Table 1 - Basin Equity Assessments

<u>Groundwater Producer</u>	<u>BEA (\$/AF)</u>
City of Anaheim	381
City of Buena Park	658
East Orange County Water District	693
City of Fountain Valley	740
City of Fullerton	726
City of Garden Grove	701
Golden State Water Company	735
City of Huntington Beach	776
Irvine Ranch Water District	697
City of La Palma	734
Mesa Water District	718
City of Newport Beach	777
City of Orange	697
City of Santa Ana	705
City of Seal Beach	723
Serrano Water District	589
City of Tustin	661
City of Westminster	741
Yorba Linda Water District	626
All producers for agricultural irrigation use	989
Producers for agricultural Irrigation Use without MWD Access	0
All Others	712

j. The amount of each such Basin Equity Assessment is reasonable.

k. During the ensuing water year, upon the District giving published notice thereof, pursuant to Section 6061 of the Government Code, in a newspaper of general circulation printed and published within the District at least 10 days prior to such hearing, a subsequent public hearing may be held to modify the basin production percentage, any Basin Equity Assessments, any surcharge, or any production requirement or limitation established by the District.

Section 2: That pursuant to Section 31.5(h) of the Orange County Water District Act, all persons and operators who produce 25 acre-feet or less of water from groundwater within the District shall be excluded from the levy of the Basin Equity Assessments and production requirements and limitations provided for herein.

Section 3: The Board of Directors finds and determines that the establishment of the basin production percentage, production limitations, and the adoption, levy and imposition of basin equity assessments and surcharges are exempt from the California Environmental Quality Act (“CEQA”) under State CEQA Guideline §15378(b)(2) since they involve continuing administrative activities such as general policy and procedure making.

Section 4: Based upon the staff report and presentation, the proposed fiscal year 2025-26 budget presented by the General Manager, and the testimony and evidence presented at the public hearing, the Board of Directors finds and declares that the adoption, levy and imposition of the basin equity assessments, production limitations and surcharges do not constitute a “project” within the meaning of CEQA and are exempt from CEQA under Public Resources Code Section 21080(b)(8) and State CEQA Guidelines §§ 15378(b)(4) and 15273, because the basin equity assessments production limitations and surcharges: (a) involve the creation of government funding mechanisms or other government fiscal activities which do not involve any commitment to any specific project which may result in a potentially significant physical impact on the environment; and (b) are for the purposes of meeting operating expenses (including employee wage rates and fringe benefits), purchasing or leasing supplies, equipment or materials, meeting financial reserve needs and requirements, and obtaining funds for capital projects necessary to maintain the level of service within the District’s existing boundaries.

Section 5: That the Secretary of this District is hereby instructed and directed to give notice of the Basin Production Percentage, Basin Equity Assessments, the Production Limitation and the Production Limitation Surcharge as required by the Orange County Water District Act, and to file a Notice of Exemption in accordance with CEQA.

CONSENT CALENDAR

The Consent Calendar was approved upon motion by Director Amezcua seconded by Director Green and carried [9-0] as follows,

Ayes: Amezcua, Bilodeau, Green, Jung, Nguyen, Sheldon, Tran, Weigand, Yoh

Absent: Meeks

2. Approval of Cash Disbursements

MOTION NO. 25-36 APPROVING CASH DISBURSEMENTS

Payment of bills for the period of March 27, 2025 through April 09, 2025 in the total amount of \$4, 340,187.26 is ratified and approved.

3. Minutes of Board of Directors Meetings held March 19 and April 2, 2025

MOTION NO. 25-37 APPROVING MINUTES OF BOARD OF DIRECTORS MEETINGS

The Minutes of the Board of Directors meetings held March 19 and April 2, 2025 are hereby approved as presented.

ITEM RECOMMENDED FOR APPROVAL AT PROPERTY MANAGEMENT COMMITTEE MEETING HELD MARCH 28

4. Resolution Declaring Lease Area as Exempt Surplus Land and Approval of Lease to Yorba Linda Water District

RESOLUTION NO. 25-4-57 DECLARING CERTAIN PROPERTY AS “EXEMPT SURPLUS LAND

WHEREAS, OCWD is the current fee owner of property located at 4060 E La Palma Ave, Anaheim, CA 92807 and is commonly known as Warner Basin. The Warner Basin property, which is improved with a recharge basin, conveyance pipes and channels, pump station, instrumentation, roadways, related facilities and including the land under and certain land surrounding Warner Basin, is collectively referred to as the “Warner Recharge Basin Property” as depicted in Exhibit 1.

WHEREAS, the Yorba Linda Water District (YLWD) intends to install, construct, reconstruct, redevelop, inspect, maintain, operate, and improve one production water well, electrical service, and pipelines and appurtenances (collectively referred as the “Well Facilities”) on OCWD’s Warner Recharge Basin Property to convey water to YLWD’s water distribution system.

WHEREAS, the Parties intend for OCWD to lease to YLWD three parcels of land located at the west and north side of Warner Basin near the intersection of Tustin and La Palma Avenues, Anaheim, California, for the Well Facilities, comprising a portion of the Warner Recharge Basin Property and all appurtenant rights and privileges (the "Property"), defined as (i) Parcel “1”, which is the “Well 23 Site”, including electrical service (Assessor Parcel Number 346-132-03); (ii) Parcel “2”, which is the “Construction and Maintenance Area” (Assessor Parcel Number 346-132-03); and (iii) Parcel “3”, which is the “Appurtenant Premises” consisting of pipeline area for water pipeline and wasteline area with outlet structure (Assessor Parcel Numbers 346-132-03, 346-143-06, 342-143-05, 343-143-04 and 346-143-03) and legally described in Exhibit 2A and depicted in Exhibit 2B. YLWD will continue to maintain and operate the Property for the purposes of constructing and operating Well 23.

WHEREAS, the Surplus Land Act (Government Code § 54220 *et seq.*, the "Act") requires that before a local agency takes final action to “dispose of” land, which includes entering into a lease that in total exceeds fifteen years in duration, the local agency must declare the property to be either “surplus land” or “exempt surplus land.” Government Code § 54221(f)(1)(D) includes as "exempt surplus land" property "that a local agency is transferring to another local, state, or federal agency...for the receiving agency's use."

WHEREAS, the Property is not (A) Within a coastal zone; (B) Adjacent to a historical unit of the State Parks System; (C) Listed on, or determined by the State Office of Historic Preservation to be eligible for, the National Register of Historic Places; or (D) Within the Lake Tahoe region as defined in Section 66905.5 of the Act, and therefore the District is not required to send a written notice of the availability for open-space purposes as required in §54221(f)(2) of the Act.

NOW, THEREFORE, the Board of Directors of the Orange County Water District does hereby resolve as follows:

Section 1: The Property is “exempt surplus land” because OCWD is transferring the Property by Lease, with a term longer than fifteen years (inclusive of any extension or renewal options), to YLWD, another local agency, for YLWD’s use in the production and distribution of water.

Section 2: The General Manager or Designee is hereby authorized to send a notice of exemption determination to the California Department of Housing and Community Development (“HCD”) pursuant to Section 400(e) of the Surplus Land Act Guidelines (“Guidelines”), and to communicate with HCD regarding OCWD’s declaration that the Property is “exempt surplus land.” The General Manager is further authorized to execute an agreement with YLWD for the lease of the Property to YLWD upon completion of the HCD notification process described in Guidelines, § 400 (e).

Section 3: The Clerk of the Board of Directors shall attest the adoption of this Resolution

ITEMS RECOMMENDED FOR APPROVAL AT COMMUNICATIONS AND LEGISLATIVE LIAISON COMMITTEE MEETING HELD APRIL 3

5. State Legislative Update

MOTION NO. 25-38
ADOPTING POSITIONS ON STATE LEGISLATION

The following positions on State legislation are hereby adopted:

Bill Number/Author	Short Title	Recommendation
SB 496 Hurtado (D-Bakersfield)	Advanced Clean Fleets Regulation: appeals advisory committee: exemptions	Support
SB 601 Allen (D-Santa Monica)	Water: Waste Discharge	Oppose
SB 599 Anna Caballero (D-Merced)	Atmospheric rivers research: forecasting methods: experimental tools	Support
AB 810 Jacqui Irwin (D-Thousand Oaks)	Local government: internet websites and email addresses	Oppose

6. Federal Legislative Update

MOTION NO. 25-39
ADOPTING POSITION ON FEDERAL LEGISLATION

The following position on Federal legislation is hereby adopted:

Bill Number/Authors	Short Title	Recommendation
H.R. 2093 (Ken Calvert, R-D-41)	Extends Permitting Terms	Support

7. First Responder Training and Tour

MOTION NO. 25-40
DIRECTING PUBLIC AFFAIRS STAFF TO WORK WITH OCWD'S RISK AND SAFETY DEPARTMENT TO IDENTIFY TRAINING OPPORTUNITIES ON OCWD'S CAMPUS FOR LOCAL EMERGENCY RESPONSE AGENCIES

Public affairs staff is hereby authorized to work with OCWD's risk and safety department to identify training opportunities on OCWD's campus for local emergency response agencies. As part of the training, facility tours and lunch would be offered to make response personnel familiar with OCWD's campus. Budget for food not to exceed \$2,000. Invitations to this event would be issued to local Fountain Valley PD and fire departments from responding cities; Fountain Valley, Huntington Beach and Costa Mesa.

ITEMS RECOMMENDED FOR APPROVAL AT WATER ISSUES COMMITTEE MEETING HELD APRIL 9

- 8. Reject Bid Protest and Award Contract SB-2025-1 Bond Basin Slope Repair to Innovative Construction Solutions Authorize Amendment No. 2 to ENGEO and Establish Project Budget

RESOLUTION NO. 25-4-58
AWARDING CONTRACT SB-2025-1 BOND BASIN SLOPE REPAIR TO INNOVATIVE CONSTRUCTION SOLUTIONS

WHEREAS, a Notice Inviting Bids for Contract No. SB-2025-1 Bond Basin Slope Repair, was published in The Orange County Register on February 21, 2025; and

WHEREAS, the following bids were received and opened on March 27, 2025:

Innovative Construction Solutions	\$3,199,190.00
Empire Equipment Service	\$3,390,431.09
Bosco Constructors Inc.	\$3,881,300.00
Clarke Contracting Corporation	\$4,495,550.00

WHEREAS, staff received a formal Bid Protest from Empire Equipment Service, Inc. of the apparent low bidder, Innovative Construction Solutions;

WHEREAS, staff and counsel’s determination based upon information provided is that the defects identified by Empire are not material and did not provide an unfair competitive advantage to the low bidder.

WHEREAS, the Water Issues Committee of this Board recommends awarding the contract to Innovative Construction Solutions for an amount not to exceed \$3,199,190.00 for the Bond Basin Slope Repair Project,.

WHEREAS, the Water Issues Committee of this Board further recommends authorizing Amendment No. 2 to Agreement No. 1555 with ENGEO in the amount of \$59,800 for engineering construction support services and establishing a total project budget of \$3,778,290.

NOW, THEREFORE, the Board of Directors of the Orange County Water District does hereby resolve as follows:

Section 1: The Affidavit of Publication of Notice Inviting Bids for Contract No. SB-2025-1 is received and filed.

Section 2: The bid protest of Empire Equipment Service, Inc, is hereby rejected and the lowest responsive bid of Innovative Construction Solutions, in the amount of \$3,199,190.00 is accepted and all other bids are rejected.

Section 3: Issuance of Addenda 1-2 are authorized.

Section 4: Amendment No. 2 to Agreement No. 1555 with ENGEO for a not-to-exceed amount of \$59,800.00 for engineering construction support services is hereby authorized.

Section 5: A project budget in the amount of \$3,778,290 is hereby established.

9. Terminate the Inactive Conjunctive Use Program Storage Agreement with Metropolitan Water District
-

RESOLUTION NO. 25-4-59

APPROVING TERMINATION OF THE CONJUNCTIVE USE PROGRAM STORAGE AGREEMENT WITH THE METROPOLITAN WATER DISTRICT

WHEREAS, the Metropolitan Water District (MWD) and OCWD Conjunctive Use Program (CUP) Agreement was initiated in 2003 and is set to expire in 2028; and

WHEREAS, the agreement allows MWD to store up to 66,000 acre-feet of water in the groundwater basin;

WHEREAS, MWD is now requesting to terminate the CUP Agreement and staff concurs with the request.

NOW, THEREFORE, the Board of Directors of the Orange County Water District does hereby approve early termination of the inactive CUP agreement with the Metropolitan Water District.

10. Execution of Access Agreements for Existing Monitoring Well Sites SCS-3, -4, -8 and OM-8 on County of Orange Property
-

RESOLUTION NO. 25-4- 60

AUTHORIZING AGREEMENT WITH THE ORANGE COUNTY FLOOD CONTROL DISTRICT FOR CONTINUED ACCESS TO EXISTING MONITORING WELLS SCS-3, SCS-4, AND SCS-8

RESOLVED, that the General Manager is hereby authorized to finalize and execute a no-cost 10-year term license agreement with the Orange County Flood Control District for continued access to existing monitoring wells SCS-3, SCS-4, and SCS-8 and a no-cost 10-year term entry permit agreement with the County of Orange for continued access to existing monitoring well site OM-8.

11. Field Headquarters Aboveground Gasoline Storage Tank Project Budget Increase

RESOLUTION NO. 25-4-61

AUTHORIZING INCREASE OF FIELD HEADQUARTERS ABOVEGROUND GASOLINE STORAGE TANK PROJECT BUDGET

RESOLVED, that an increase to the field headquarters aboveground gasoline storage tank project budget by \$35,000, for a total project budget of \$155,000, is hereby authorized.

12. Request for Qualification On-Call Environmental Services

MOTION NO. 25-41

AUTHORIZING ISSUANCE OF A REQUEST FOR QUALIFICATIONS FOR ON-CALL ENVIRONMENTAL CONSULTANTS

Request for Qualifications is authorized for Qualifications for On-Call Environmental Consultants.

13. Amendment to Agreement with City of Santa Ana and Moulton Niguel Water District

RESOLUTION NO. 25-4-62

AUTHORIZING AMENDMENT TO AGREEMENT WITH CITY OF SANTA ANA AND MOULTON NIGUEL WATER DISTRICT

WHEREAS, pursuant to Resolution No. 22-3-30 adopted March 16, 2022, OCWD approved an agreement with City of Santa Ana and Moulton Niguel Water District to provide water to Moulton Niguel Water District (MNWD) and possibly south orange county agencies during imported water shortages and;

WHEREAS, staff has advised that this agreement terminates May 24, 2025, and recommends extending the agreement through June 30, 2028;

WHEREAS, staff further advises that MNWD will solicit for and develop CEQA documents and final design of the proposed infrastructure based on the preliminary design analysis.

NOW, THEREFORE, the Board of Directors of the Orange County Water District does hereby authorize issuance of Amendment No. 1 to Agreement with the City of Santa Ana and the Moulton Niguel Water District as outlined herein; and, upon approval as to form by District General Counsel, its execution by the District officers is authorized.

ITEMS RECOMMENDED FOR APPROVAL AT ADMINISTRATION FINANCE COMMITTEE MEETING HELD APRIL 10

14. Monthly Cash Control Report

MOTION NO. 25-42

RECEIVING AND FILING THE MONTHLY CASH CONTROL REPORTS

The Summary Cash and Cash Equivalents Control Reports dated March 31, 2025 are hereby received and filed.

15. Investment Portfolio Holdings Reports

MOTION NO. 25-43

RECEIVING AND FILING INVESTMENT PORTFOLIO HOLDINGS REPORTS

The Investment Portfolio Holdings Reports dated March 31, 2025 are hereby received and filed.

16. Additional Funds for Water Production R&R Fund R21012

RESOLUTION NO. 25-4-63

AUTHORIZING ISSUANCE OF ADDITIONAL FUNDS TO THE WATER PRODUCTION REFURBISHMENT AND REPLACEMENT ACCOUNT

Issuance of additional funds in the amount of \$60,532 to the Water Production Refurbishment and Replacement account R21012 are hereby approved.

17. Selection of Independent Audit Firm

RESOLUTION NO. 25-4-64
APPROVING SELECTION OF DAVIS FARR LLP
AS INDEPENDENT AUDIT FIRM

RESOLVED, that execution by the General Manager of engagement letter with Davis Farr LLP for a three year period to perform the annual independent audit and the Single Audit of Federal Grants (if required) for the fiscal year ending June 30, 2025, through June 30, 2027; and the Money Purchase Plan audit and 457 plan audit for the calendar year December 31, 2025 through December 31, 2027 for a total amount not to exceed \$54,840 each year.

18. Additional Funds for Operating Costs of the Wetland Operations Facilities

RESOLUTION NO. 25-4-65
AUTHORIZING ISSUANCE OF ADDITIONAL FUNDS OF THE WETLAND OPERATIONS
FACILITIES

RESOLVED, that issuance of additional funds in the amount of \$45,500 to the Wetland Operations general fund account line item 1062.57016 is hereby authorized.

19. Surplus of Lab File Cabinets and Field Headquarter Heavy-Duty Equipment

MOTION NO. 25-44
DECLARING LAB FILE CABINETS AND FIELD HEADQUARTER HEAVY-DUTY EQUIPMENT
SURPLUS

Items on the Surplus List dated April 1, 2025 are hereby declared surplus and the sale and disposal thereof is authorized.

MATTER FOR CONSIDERATION

20. Proposed Fiscal Year 2025-2026 Budget

Treasurer/CFO Randy Fick advised that the proposed FY 2025-26 budget has been reviewed in detail with the Board and the Groundwater Producers over the past few months. He reported that the budget expenditures total \$289.7 million and reviewed the various budget components. The Board then took the following action approving the FY 2025-26 budget.

Upon motion by Director Green, seconded by Director Weigand, the following resolution was adopted [9-0].

Ayes: Amezcua, Bilodeau, Green, Nguyen, Sheldon, Tran, Weigand, Whitaker, Yoh

Absent: Meeks

RESOLUTION NO. 25-4-66
APPROVING FISCAL YEAR 2025-26 BUDGET

WHEREAS, the Orange County Water District Board of Directors has reviewed the proposed OCWD Budget for fiscal year 2025-26 as presented by the General Manager and District Chief Financial Officer/Treasurer;

NOW, THEREFORE, the Board of Directors of the Orange County Water District does hereby approve and adopt the fiscal year 2025-26 budget expenditures as follows:

\$ 110 million	General Fund
\$ 11.1 million	Water Purchase Fund
\$ 44.5 million	Debt Service Fund
\$ 87.2 million	Capital Improvement Program
\$ 0.6 million	Retiree Health Insurance Fund
\$ 0.5 million	New Capital Equipment Fund
\$ 28.5 million	Replacement and Refurbishment Fund
\$ 4.8 million	PFAS O&M

INFORMATIONAL ITEMS

21. SAWPA Update

President Bilodeau reported on recent SAWPA activities.

22. Water Resources Summary

General Manager John Kennedy stated the report is in the packet.

23. Committee/Conference/Meeting Reports

The Board reported on attendance at the following Committee meetings, noting the Action Agendas were included in tonight’s Board packet.

- March 28 - Property Management Committee
- April 03 - Communication & Legislative Liaison Committee
- April 09 - Water Issues Committee
- April 10 - Administration and Finance Issues Committee

24. Verbal Reports

Mr. Kennedy reported that Assemblymember Tri Ta recently attended a tour of GWRS.

RECESS TO CLOSED SESSION

CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION – [Government Code Section 54956.9(d)(1)] – OCWD v. 3M Company et al.

RECONVENE IN OPEN SESSION

The Board reconvened in Open Session whereupon General Counsel Jungreis advised that there were no reportable items.

ADJOURNMENT

There being no further business to come before the Board, the meeting adjourned at 6:30 p.m.

Christina Fuller, District Secretary

Denis Bilodeau, President

MINUTES OF MEETING
BOARD OF DIRECTORS, ORANGE COUNTY WATER DISTRICT
April 30, 2025, 5:30 p.m.

President Bilodeau called to order the April 30, 2025 special meeting of the Orange County Water District Board of Directors at 5:30 p.m. The District Secretary called the roll as follows. Public access was also provided via Zoom webinar.

Directors

Valerie Amezcua
Denis Bilodeau
Cathy Green
Fred Jung arrived @ 5:38 p.m.
Dina Nguyen (absent)
Natalie Meeks
Stephen Sheldon
Van Tran
Erik Weigand
Roger Yoh

Staff

John Kennedy, General Manager
Jeremy Jungreis, General Counsel
Leticia Villarreal, Assistant District Secretary

VISITOR PARTICIPATION

There were no visitors wishing to address the Board this evening.

RECESS TO CLOSED SESSION

CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION, [Government Code Section 54956.9 (a),(d) – OCWD v. Sabic et al. (South Basin)

CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION, [Government Code Section 54956.9 (a),(d) – OCWD v. Sanmina et al (South Basin)

RECONVENE IN OPEN SESSION

The Board reconvened in Open Session whereupon General Counsel Jungreis advised that there were no reportable items.

ADJOURNMENT

There being no further business to come before the Board, the meeting adjourned at 6:20 p.m.

Leticia Villarreal, Assistant District Secretary

Denis Bilodeau, President

MINUTES OF MEETING
BOARD OF DIRECTORS, ORANGE COUNTY WATER DISTRICT
May 7, 2025, 5:30 p.m.

President Bilodeau called to order the May 7, 2025 regular meeting of the Orange County Water District Board of Directors at 5:30 p.m. Following the Pledge of Allegiance to the Flag, the District Secretary called the roll as follows. Public access was also provided via Zoom webinar.

Directors

Valerie Amezcua
Denis Bilodeau
Cathy Green
Fred Jung
Dina Nguyen
Natalie Meeks
Stephen Sheldon (absent)
Van Tran (absent)
Erik Weigand
Roger Yoh

Staff

John Kennedy, General Manager
Jeremy Jungreis, General Counsel
Christina Fuller, District Secretary

EMPLOYEE OF THE QUARTER AWARD

The Board presented the Employee of the Quarter Award to Assistant Heavy Equipment Operator Arturo Garcia.

VISITOR PARTICIPATION

There were no visitors wishing to address the Board this evening.

CONSENT CALENDAR

The Consent Calendar was approved upon motion by Director Green, seconded by Director Amezcua and carried [8-0] as follows:

Ayes: Amezcua, Bilodeau, Green, Jung, Meeks, Nguyen, Weigand, Yoh
Absent: Sheldon, Tran

1. Approval of Cash Disbursements

MOTION NO. 25-45
APPROVING CASH DISBURSEMENTS

Payment of bills for the period of April 10, 2025 through April 30, 2025 in the total amount of \$12,543,432.33 is ratified and approved.

2. Purchase Reverse Osmosis Membrane Cleaning Chemicals from American Water Chemicals, Inc.

RESOLUTION NO. 25-5-67
AUTHORIZING PURCHASE ORDER TO AMERICAN WATER CHEMICALS, INC. FOR 22,800
POUNDS OF AWC C-227 RO MEMBRANE CLEANING CHEMICAL

RESOLVED, that issuance of a Purchase Order to American Water Chemicals, Inc. in the amount of \$90,998 is authorized for 22,800 pounds of AWC C-227 RO membrane cleaning chemical.

3. Director’s Compensation

MOTION NO. 25-46
SCHEDULING PUBLICATION OF HEARING TO CONSIDER
DIRECTOR COMPENSATION

Publication of a Notice of Public Hearing is authorized as required by law to be held June 4, 2025, to consider increasing Director’s compensation 5% from \$330.75 to \$347.29 per day of service, up to a maximum of ten days per month, commencing August 4, 2025.

ITEM RECOMMENDED FOR APPROVAL AT RETIREMENT COMMITTEE MEETING HELD APRIL 22

4. 457(B) Deferred Compensation Plan Investment Line-Up Review and 401(A) Red Flag Fund

MOTION NO. 25-47
APPROVING ACTIONS IN CONNECTION WITH 457(B) DEFERRED COMPENSATION PLAN
INVESTMENT FUND LINE-UP REVIEW, AND RECEIVING AND FILING
RETIREMENT PLAN INVESTMENT PORTFOLIOS

The following actions in connection with the 457(b) Deferred Compensation Plan investment funds are hereby approved, and the 401(a) Money Purchase Retirement Plan and the 457(b) Deferred Compensation Plan investment portfolios are hereby received and filed.

457 Items	
INVESTMENT FUNDS	ACTION
AB Large Cap Growth I	Keep Red Flag
Virtus Duff & Phelps Water A	Grey Flag
401(a) Items	
American Funds New Perspective R6	Remove Red Flag New bench mark as an option

INFORMATIONAL ITEMS

5. Construction Projects Update

Director of Engineering Ryan Bouley provided a presentation on the current District Capital Improvement Program and Replacement and Refurbishment construction projects.

6. ACWA Region 10 Call for Candidates for Region Boards

General Manager John Kennedy stated the information is contained in the packet.

7. SAWPA Update

Director Bilodeau provided an update on recent SAWPA activities.

8. Committee/Conference/Meeting Reports

The Board reported on attendance at the following Committee meetings, noting the Action Agendas were included in tonight's Board packet.

April 14 – GWRS Steering Committee

April 22 – Retirement Committee

9. Verbal Reports

General Manager Kennedy reported that City of San Clemente officials are interested in having a tour behind Prado Dam. Director Meeks congratulated OCWD staff on the success of the Children's Water Education Festival.

RECESS TO CLOSED SESSION

CONFERENCE WITH LABOR NEGOTIATORS – [Government Code Section 54957.6]
OCWD designated representative: Stephanie Dosier, Employee Organization: Orange County
Employee Association

CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION, [Government Code Section
54956.9(d)(1)] – OCWD v. 3M Company et al.

RECONVENE IN OPEN SESSION

The Board reconvened in Open Session whereupon General Counsel Jungreis advised that there were no reportable items.

ADJOURNMENT

There being no further business to come before the Board, the meeting adjourned at 6:50 p.m.

Christina Fuller, District Secretary

Denis Bilodeau, President

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: A. Hutchinson/D. Field/
L. Haney

Budgeted: Yes

Budgeted Amount: \$75,000 (FY25-26)

Cost Estimate: \$55,000

Funding Source: General Fund

Program/Line Item No.: 1044.53001

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: INVITATION FOR QUOTES (IFQ-24-002) FOR SOIL BORINGS AT ANAHEIM LAKE (RESILIENCE PLAN PRIORITY PROJECT NO. 12)

SUMMARY

Anaheim Lake is OCWD's oldest recharge basin which was put on-line in 1961. Although a high-performing facility, data suggests that a fine-grained sedimentary layer below the basin bottom is causing groundwater mounding. Staff recommends drilling soil borings to confirm the depth, thickness and characteristics of this layer, which will assist in evaluating the potential to increase the recharge capacity of the basin if a portion of this layer were removed. This work is part of OCWD's Resilience Plan Priority Project No. 12, Anaheim Lake Recharge Basin Rehabilitation Project.

Attachments:

- tTEM Geophysical Survey in Anaheim Lake and Kraemer Basin, Anaheim, California. Report prepared for OCWD by Geophysical Imaging Partners, October 2024.
- Draft Invitation for Quotes

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Authorize issuance of Invitation for Quotes for services to drill soil borings at Anaheim Lake.

BACKGROUND/ANALYSIS

Anaheim Lake is OCWD's first recharge basin. A total of 64 acres were purchased in 1958. Additional land was added in 1968 (24 acres) and from 1970-4 (23 acres). The current wetted area of the basin is 72 acres. The basin was placed into service in 1961, recharging only imported water from 1961 to 1975. In 1975, the Warner Transmission Pipeline was completed, which allowed for the recharge of Santa Ana River water.

The suspended sediment in Santa Ana River water causes clogging of all basins that receive this water, including Anaheim Lake. To maintain recharge rates, basins are periodically drained, allowed to dry, and then mechanically cleaned using heavy equipment. The cleaning process on the flat basin bottom is effective at removing clogged sediment; however, it is difficult to clean basin sidewalls. The process of cleaning the basin sidewalls doesn't remove the clogging layer but breaks it up. As a result, over time, this mixture of clean and clogged material accumulates and degrades the recharge capacity of the basin sidewalls.

Because Anaheim Lake was expanded to the west by purchasing additional parcels, there are several peninsulas and an island that occupy space in the basin as shown in Figure 1. Removing these peninsulas and the island would increase basin storage by 300-600 acre-feet and create a large, uniform basin bottom that could be cleaned more efficiently. The native sand in the peninsulas could be re-purposed within the basin to regrade portions of the bottom and sidewalls.

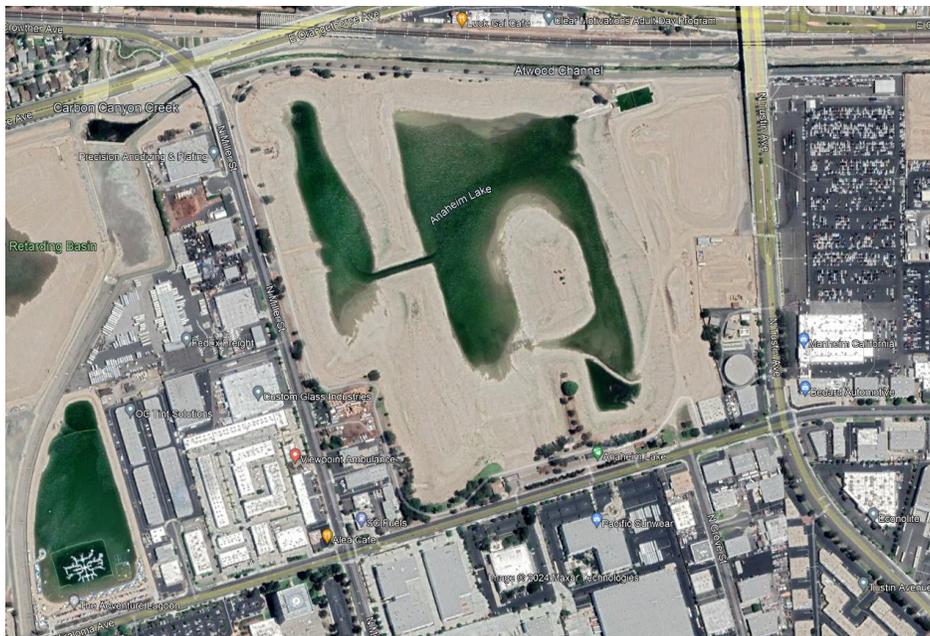


Figure 1: Anaheim Lake

Based on lithologic logs of wells around the basin, there is a fine-grained sedimentary layer located approximately 40 feet below the basin bottom. Monitoring well water level data shows that this fine-grained layer impedes the downward flow of water, causing mounding and forcing water in the basin to migrate laterally through the basin sidewalls. Nearby Kraemer Basin does not have a fine-grained layer underlying the basin. This could be one reason why it is able to recharge as much water as Anaheim Lake despite being half the size. Staff has been exploring the possibility of over excavating a portion of the basin to remove the fine-grained layer and create a “window” of high permeability and thus increase the overall recharge capacity of the basin.

To further define the extent of this fine-grained layer, a geophysical survey was conducted using the time-domain electromagnetic method (TEM). The

transmitter/receiver equipment is towed behind an ATV or other vehicle and thus is often called TowTem. The TowTem survey was conducted by Geophysical Imaging Partners in Anaheim Lake on August 26, 2024. The survey also included Kraemer Basin. The results of the survey are presented in the attached report entitled “tTEM Geophysical Survey in Anaheim Lake and Kraemer Basin, Anaheim, California, October 2024.” A key figure from the report is presented as Figure 2, which shows the calculated resistivity of the sediment in Anaheim Lake with high resistivity (purple to red color) indicating sands and gravels and lower resistivity (green to blue) indicating finer grained sediments such as silty sand and silts. This figure clearly shows the presence of a fine-grained layer that shows up as a green layer within the more permeable sands and gravels shown in red and purple.

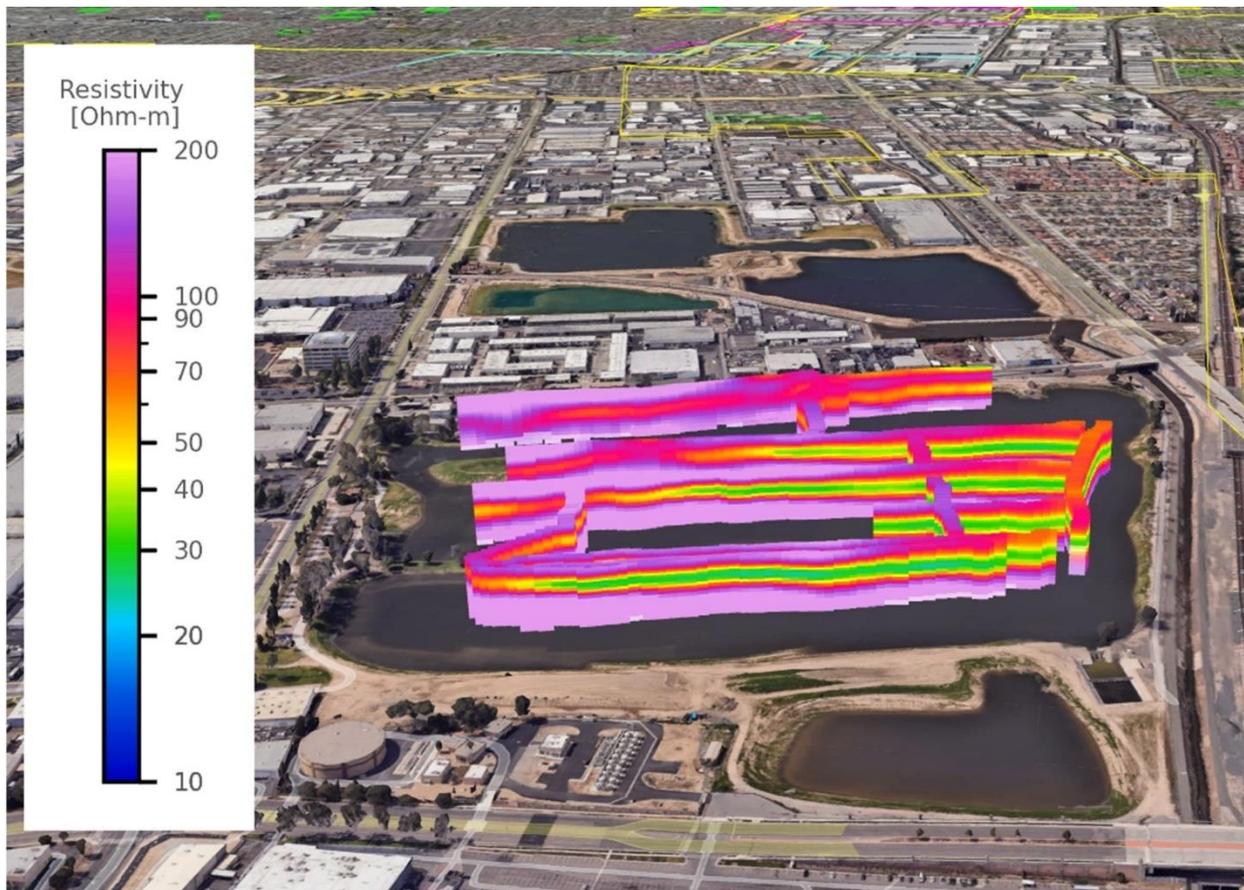


Figure 2: TowTem Survey Results of Anaheim Lake

To confirm the depths, thickness and sediment characteristics of this layer, staff is proposing to drill seven exploratory borings to 100 feet below the basin bottom as shown on Figure 3. The borings will be drilled using the sonic drilling method which will provide a continuous core of sediment from the surface to the bottom of the boring. The cores will be logged by a geologist and selected samples will be sent to OCWD’s Field Recharge Lab (FRL) for sieve analyses to characterize the sediment profile.

OCWD staff will also be digging trenches and collecting samples for sieve analyses to characterize the sediments within the internal island and peninsulas. This work will allow staff to assess whether or not the island/peninsula sediments can be repurposed to

replace clogged sediments from the basin sidewalls and to replace a portion of the fine-grained layer below the basin bottom if it were removed.

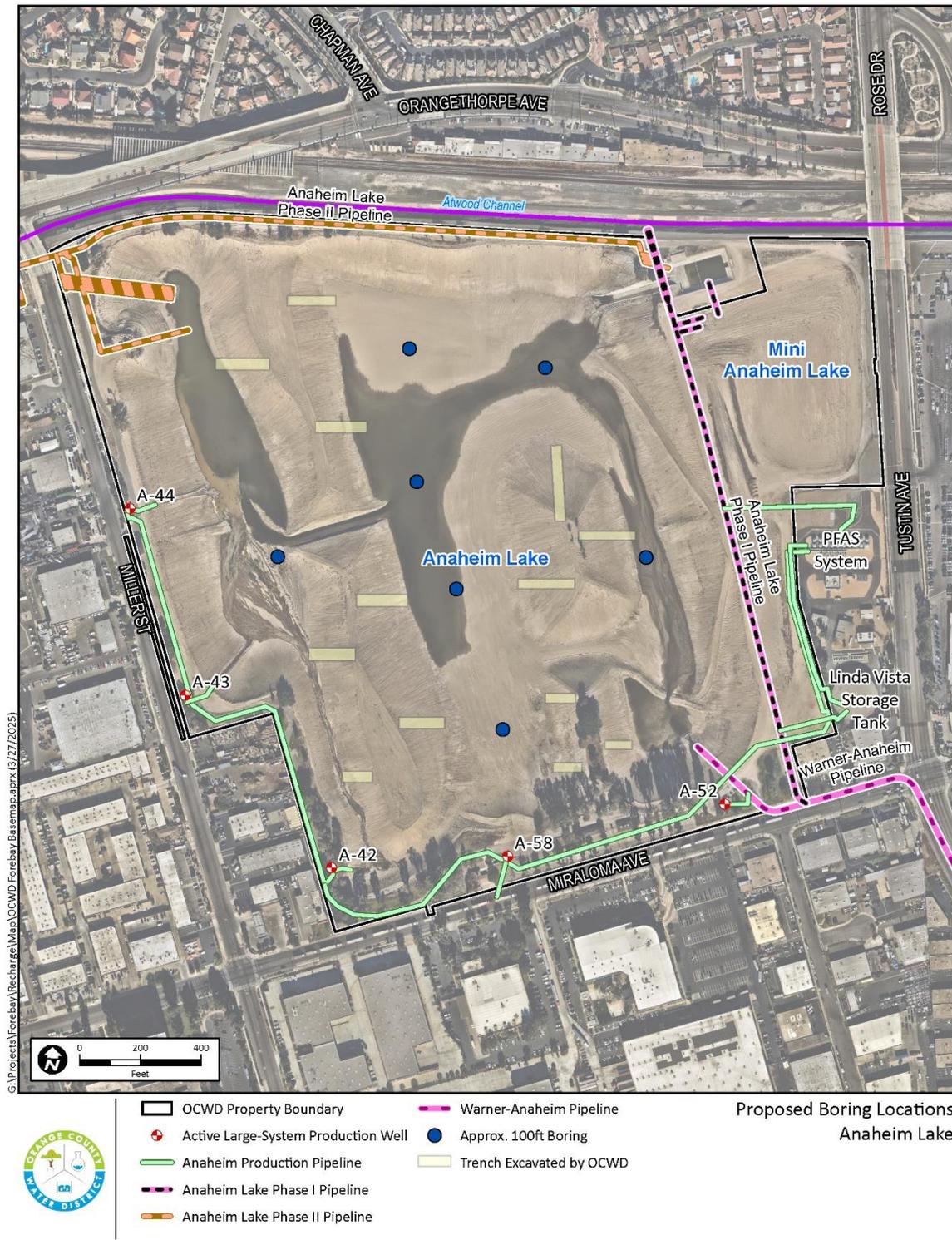


Figure 3: Locations of Proposed Soil Borings in Anaheim Lake.

This effort is part of OCWD's Resilience Plan Priority Project No. 12, Anaheim Lake Recharge Basin Rehabilitation Project. The Anaheim Lake Recharge Basin Rehabilitation Project has three components:

1. Remove clogged sidewall material and regrade sidewalls;
2. Remove peninsulas and island to increase basin storage and create large, uniform bottom area; and,
3. Remove portion of fine-grained layer underlying the basin.

As discussed in the Resilience Plan, the pros of this project include increased recharge capacity, increased basin storage, and reduced cleaning times. The challenges include the cost of removing the fine-grained layer and disposing of poor-quality sediment removed from the basin.

Staff recommend issuing a request for proposals to drill soil borings in Anaheim Lake using the sonic drilling method. The estimated cost to drill the soil borings is \$55,000.

PRIOR RELEVANT BOARD ACTION(S)

2/19/25, R25-2-19 – Receive and File OCWD Resilience Plan and Authorize Filing of a Notice of Exemption

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Bouley/L. Esguerra

Budgeted: Partially

Budgeted Amount: \$3,778,290

Cost Estimate: \$3,849,414

Funding Source: R&R Fund

Program/Line Item No.: R22028

General Counsel Approval: N/A

Engineers/Feasibility Report: NA

CEQA Compliance: Cat. Ex.

**Subject: AUTHORIZE AGREEMENT TO BUTIER ENGINEERING INC FOR
CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES FOR SB-
2025-1 BOND BASIN SLOPE REPAIR AND BUDGET INCREASE**

SUMMARY

A total of three proposals were received on April 17, 2025, for Construction Management and Inspection Services for Bond Basin Slope Repair Project, Contract SB-2025-1 (the "Project"). Based on staff's evaluation of the proposals, staff recommends authorizing an Agreement with Butier Engineering, Inc. for a not-to-exceed amount of \$321,123.50 for construction management and inspection services and increasing the project budget by \$71,124.

Attachment: Butier Engineering Inc. proposal

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting:

1. Authorize agreement with Butier Engineering, Inc. for a not-to-exceed amount of \$321,123.50 for construction management and inspection services for SB-2025-1 Bond Basin Slope Repair; and
2. Increase project budget by \$71,124 for a total project budget amount of \$3,849,414.

DISCUSSION

Bond Basin is part of the Santiago Basins recharge system as shown in Figure 1. A City of Orange storm drain outlets into the southeasterly corner of the basin. Over the past few years, the supporting slope and storm drain failed causing significant erosion to the area. Due to the complicated history of ownership and maintenance of the storm drain, the City and District have agreed to share in the cost to repair the slope and storm drain. Emergency repair work to construct a soil nail wall with rip rap placement was completed in January 2023 (See Figure 2). Final design of the permanent slope

repair and storm drain pipeline relocation was completed in January 2025 and construction was bid and awarded to ICS on April 16, 2025.

Figure 1 – Project Location



Figure 2 – Soil Nail Wall at corner of Bond Basin



Due to the level of complexity and risk involve with the project, along with the high-profile location and material testing required, the Board authorized issuance of Request for Proposals (RFP) for a construction management firm to oversee construction and perform inspections. The scope of services includes overseeing overall construction activities for the District, including conducting construction progress meetings; facilitating responses to submittals, RFIs, and change order requests; daily inspections; geotechnical services; project documentation; and project closeout. The RFP was issued March 24, 2025 to seven qualified firms and posted on the District website. Staff received three proposals on April 17, 2025 from Butier Engineering, Inc.(Butier), MKN, and CDM Smith. The proposals were independently reviewed and scored by engineering staff, and the scoring of the proposals included evaluating each firm’s experience and qualifications of the project team, approach and schedule, experience on similar projects, commitment of key staff and organization support services, and fee. See Table 1 for the proposed score and proposed fee.

**Table 1:
Proposal Score and Proposed Fee**

Firm	Score (out of 100)	Proposed Fee
Butier	89	\$321,123.50
MKN	83	\$355,216.00
CDM Smith	75	\$199,275.00

Staff’s evaluation of the proposals and consideration of cost proposals resulted in a recommendation of Butier for Construction Management and Inspection Services for Bond Basin Slope Repair Project for the following reasons:

- Butier’s Project Team has experience with mass grading projects including installation of geotextile reinforcement, soil nail walls, rip-rap, and pipelines;
- Butier’s Project Team comprises specialized inspectors needed for structural inspection and soils and material testing for the project;
- Butier has a strong record of success performing construction management and inspection services for OCWD and other agencies; and
- Butier provided a detailed proposal which demonstrated a clear understanding of the scope for this project. Their proposal identified construction challenges specific to construction within the Bond Basin and highlighted the importance of maintaining communication with the City of Orange and the City of Villa park to minimize impacts to the surrounding community.

Staff met with Butier to discuss scope of services and their assumed level effort included in their original fee of \$346,523.50. Butier agreed to revise their scope of services to align with the other proposers, and this reduced their fee by \$25,400. Staff recommends authorizing an agreement with Butier for a not-to-exceed amount of

\$321,123.50 for Construction Management and Inspection Services for Bond Basin Slope Repair Project. The project budget for the Bond Basin Slope Repair Project, Contract SB-2025-1, is summarized in Table 2.

**Table 2: SB-2025-1 Bond Basin Slope Repair Project
Budget Summary**

Description	Budget	Proposed Budget
Design and Construction Management		
Design Agreement 1555 – (ENGEO)	\$46,800	\$46,800
Amendment 1	\$42,500	\$42,500
Amendment 2	\$59,800	\$59,800
<i>Construction Management and Inspection – (Butier)</i>	\$250,000	\$321,124
<i>Design and CM&I Subtotal</i>	\$399,100	\$470,224
Construction		
Contract SB-2025-1 (ICS)	\$3,199,190	\$3,199,190
Permits and Advertisement Costs	\$20,000	\$20,000
Construction Subtotal	\$3,219,190	\$3,219,190
Project Contingency (5% of Contract Amount)	\$160,000	\$160,000
Total Project Budget	\$3,778,290	\$3,849,414
City of Orange Contribution	\$1,889,145	\$1,924,707
Total Cost to OCWD	\$1,889,145	\$1,924,707

The anticipated project schedule is shown below in Table 3.

**Table 3: SB-2025-1 Bond Basin Slope Repair Project
Schedule Summary**

Description	Date
Design	Oct 2023 – Jan 2025
Construction Contract SB-2025-1	June 2025 – Jan 2026

PREVIOUS BOARD ACTIONS

4/16/25, R25-4-XX: Reject bid protest and award contract to Innovative Construction Solutions, authorize Amendment No. 2 to Engeo and establish project budget.

3/19/25, R25-3-36: Authorize issuance of RFP for Construction Management and Inspection Services for Contract SB-2025-1, Bond Basin Slope Repair Project.

2/19/25, R25-2-15: Authorize filing of a Categorical Exemption in compliance of CEQA and authorize publication of Notice Inviting Bids for Contract SB-2025-1, Bond Basin Slope Repair Project.

3/20/24, R24-3-17: Authorize issuance of an Amendment to Agreement No. 1555 with ENGEO for final design services of Bond Basin slope repair and storm drain realignment for an amount not to exceed \$42,500.

10/18/23, R23-10-140: Authorize issuance of a Professional Services Agreement to ENGEO for design services for the permanent Bond Basin slope repair and storm drain extension for an amount not to exceed \$46,800.

11/16/22, R22-11-153: Ratify the emergency slope repair contract for Bond Basin in an amount of \$992,000 to Access Limited Construction and ratify an amendment issued to ENGEO Incorporated for testing, construction inspection and reporting for \$76,400.

10/5/22, R22-10-141: Authorized the General Manager to negotiate and execute a 50/50 cost share agreement with the city of Orange.

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Bouley/F. Almario

Budgeted: Yes

Budgeted Amount: \$32,716,975

Cost Estimate: \$197,010

Funding Source: WIFIA, Paygo

Program/Line Item No.: C19011

General Counsel Approval: Yes

Engineers Report: Completed

CEQA Compliance: Cat. Ex.

**Subject: CONTRACT NO. TUS-2022-1: AMENDMENT NO. 2 TO BUTIER
ENGINEERING**

SUMMARY

Construction of the PFAS water treatment plant at the city of Tustin Main Street Plant is currently in progress. Due to the specific construction impacts and changes to the project schedule, staff recommends authorizing the issuance of Amendment No. 2 to Agreement No. 1558 with Butier Engineering Inc. for additional construction management and inspection services in the amount of \$197,010.

RECOMMENDATIONS

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board Meeting: Authorize issuance of Amendment No. 2 to Agreement No. 1558 with Butier Engineering Inc. for construction management and inspection services in the amount of \$197,010.

BACKGROUND/ANALYSIS

Construction of the PFAS water treatment plant at the city of Tustin Main Street Plant is underway. The project generally includes four Ion Exchange (IX) vessel systems for four wells (Vandenberg, Columbus, Pasadena and Beneta) at a centralized treatment plant, construction of new pipelines to convey water from the well sites to the new PFAS treatment system located at the Main Plant, a new section of distribution piping from the Main Plant, replacement of an existing nitrate treatment system and upgraded booster pumps to handle the additional flows.

The approximately 13,000-feet of pipeline is generally located in or around the Old Town Tustin area. The public right-of-ways in this area contain congested underground utility corridors which include water, electricity, gas, sewer, storm drain, and telecommunications services. Additionally, Main Street is a two-lane street with retail and restaurant businesses on either side. Due to the alignment of the pipeline, complete closure of both traffic lanes would have been necessary to accommodate construction operations and to mitigate potential risks to the public. Because of these impacts, the

City of Tustin directed OCWD to conduct the Main Street pipeline work at night – the remainder of the work was still performed during daytime hours.

The additional shifts required by the switch to night work in Main Street were not included in Butier’s original scope of work. Their original scope of work included one full-time pipeline inspector to cover all work during one daytime shift. However, by adding night work, the pipeline contractor had a crew working a full nighttime shift on the Main Street pipeline and a separate crew working a full daytime shift to complete appurtenances, structures, and jack and bores beneath two separate open channels. Butier attempted to overlap Inspector shifts as much as possible, but this concurrent nighttime and daytime pipeline work necessitated Butier inspection and CM staff to add additional work shifts to ensure that the work was installed safely and in compliance with project requirements. Butier provided inspectors to cover both shifts, and their subconsultant soils technician was also onsite during both shifts to test for compaction in the pipe trench and structure backfill.

Additionally, Butier’s original Agreement projected construction completion in October 2024. Due to the unforeseen construction issues in the pipeline, construction is now projected to be fully completed in June 2025. The PFAS treatment plant is scheduled to go online in May 2025, but an additional month will be needed for site restoration and punch list items. Due to the pipeline delays and additional staffing requirements discussed above, staff recommends issuance of Amendment No. 2 to Agreement No. 1558 with Butier Engineering Inc. for additional construction management and inspection services in the amount of \$197,010. The level of effort in the recommended Amendment is sufficient to complete the project. Staff recommends maintaining the current project budget by deducting the amount of this amendment from the Project Contingency as shown in the budget for the City of Tustin PFAS Project that is summarized in Table 1.

Table 1: City of Tustin Treatment Budget Summary

Description	Budget 11/2024	Proposed Budget 5/2025
Design, Construction Management, Permitting		
Design and CM (Jacobs Engineering)	\$2,272,041	\$2,272,041
CM (Butier)	\$652,488	\$652,488
Amendment No. 1	\$460,830	\$460,830
Amendment No. 2		\$197,010
Permitting, Reimbursements, Advertising	\$15,000	\$15,000
Construction		
Contract TUS-2022-1	\$19,771,700	\$19,771,700
Change orders 1-4 (3.3% of contract)	\$658,822	\$658,822
Change order 5 (0.4% of contract)	\$172,580	\$172,580
Revised pipeline construction – change order 6	\$5,500,000	\$5,500,000
Subtotal Contract TUS-2022-1	\$26,103,102	\$26,103,102
Treatment Vessels (Evoqua)	\$1,608,000	\$1,608,000
IX Resin (Evoqua)	\$1,077,800	\$1,077,800

<i>Project Contingency</i>	\$527,749	\$330,739
Total Project Cost:	\$32,716,975	\$32,716,975
<i>Estimated Grant Funding</i>	<i>(\$15,000,000)</i>	<i>(\$15,000,000)</i>

PRIOR RELEVANT BOARD ACTION(S)

11/20/24, R24-11-139: Contract No. TUS-2022-1 Amendment to Butier Engineering

5/15/24, M24-49: Contract No. TUS-2022-1 Change Order Ratification and Budget Increase.

11/1/23, R23-11-147: Authoring Issuance of Agreement to Butier Inc. For Construction Management and Inspection Services and Increasing Budget.

12/21/22, R21-12-174: Awarding Contract No. Tus-2022-1 City of Tustin Pfas Treatment System And Influent Conveyance Project To Caliagua Inc.

6/15/22, R22-6-79: Contract No. TUS-2022-1 City of Tustin Pfas Treatment System and Influent Conveyance Project: Engineers Report, Categorical Exemption, and Notice Inviting Bids.

5/19/21, R21-5-79: Issuance of Amendment No. 3 to Agreement No. 1423 with Aqueous Vets for PFAS Vessel System Design Modifications and Steel Price Increases, for an amount not to exceed \$208,313; and Amendment No. 4 to Agreement No. 1434 with Evoqua for PFAS Vessel System Pressure Rating Increase and Steel Price Increases, for an additional amount not to exceed \$131,854 are authorized.

10/21/20, R20-10-135: Issuance of Amendment No. 1 to Agreement No. 1422 with Aqueous Vets, for an amount not to exceed \$306,338 and Issuance of Amendment No. 2 to Agreement No. 1423 with Evoqua, for an amount not to exceed \$533,593 is authorized to modify 55 treatment vessel systems (110 vessels) to meet State Water Resources Control Board, Division of Drinking Water (DDW) requirements.

5/6/20, R20-5-56: The following agreements are authorized for the purchase of PFAS treatment pressure vessel systems: Agreement to Aqueous Vets for the purchase of 25 systems for a price not to exceed \$8,159,052 and Agreement to Evoqua and for the purchase of 30 systems for a price not to exceed \$11,020,220; and, upon approval as to form by District General Counsel, execution of such agreements by the District officers is authorized.

1/22/20, R20-1-13: Issuance of a Request for Quotes to pre-purchase up to 150 PFAS treatment vessels; Issuance of a Request for Proposals for on-call consultants to prepare PFAS Treatment System designs; Execution of PFAS treatment system professional services agreements for design services with the highest ranked consultants; and Establishment of a project design budget of \$10,000,000.

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Bouley

Budgeted: N/A

Budgeted Amount: N/A

Cost Estimate: N/A

Funding Source: CIP, R&R

Program/Line Item No.: N/A

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: **AGREEMENT EXTENSION FOR ON-CALL SURVEYING SERVICES**

SUMMARY

In June 2023, the on-call surveying agreements issued to Stantec Consulting Services, Inc., CASC Engineering and Consulting, and Huitt-Zollars, Inc. were extended to June 30, 2025. Staff requests to extend the on-call agreements for an additional two years.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board Meeting: Authorize time extension of agreements to Stantec Consulting Services, Inc., CASC Engineering and Consulting, and Huitt-Zollars, Inc. for on-call surveying services through June 30, 2027.

DISCUSSION

Survey work for OCWD projects is required to support the pre-design and design work of the Engineering, Hydrogeology, Planning and Property Management departments. Services are also needed during construction because the project documents require that the District provide an initial project benchmark on each construction project and during the course of construction the District has their surveyor periodically check the contractor's work. Additionally, if unknown conditions are discovered and slight redesigns are required, the District's surveyor will assist by documenting those existing conditions.

In June 2023, the on-call surveying agreements issued to Stantec Consulting Services, Inc., CASC Engineering and Consulting, and Huitt-Zollars, Inc. were extended to June 30, 2025. Staff again requests to extend the agreement duration for on-call survey services by an additional two years for all three consultants. These firms provide engineering surveying services to the District (which includes Engineering, Hydrogeology, Planning and Property Management Departments) for projects managed in Orange County as well as in the Prado areas and have done great work over the past several years.

On-call services are charged to specific projects or department budgets and therefore do not require an initial budgeted value.

PRIOR RELEVANT BOARD ACTIONS

6/21/23, M23-70: Authorize time extension of agreements to Stantec Consulting Services, Inc., CASC Engineering and Consulting, and Huitt-Zollars, Inc. for on-call surveying services through June 30, 2025.

4/21/21, R21-4-63: Authorize time extension of agreements to Stantec Consulting Services, Inc., CASC Engineering and Consulting, and Huitt-Zollars, Inc. for on-call surveying services through June 30, 2023.

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: M. Patel/F. Almario

Budgeted: Yes

Budgeted Amount: \$200,000

Cost Estimate: \$200,000

Funding Source: R&R

Program/Line Item No. R23010

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: TALBERT BARRIER INJECTION WELLS I-24 & I-25 CONTROL VALVE PROJECT – PUBLICATION OF NOTICE INVITING BIDS

SUMMARY

Plans and technical specifications for Talbert Barrier Injection Wells I-24 and I-25 Control Valve Replacement project have been prepared. The major construction elements include replacing inoperable down-hole flow control valves, upsizing column piping, replacement of submersible pumps, and upgraded electrical components. The upgrades to Wells I-24 and I-25 are necessary to bring the wells back online and inject up to 3.7 MGD into the Talbert Barrier.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Authorize publication of Notice Inviting Bids for Contract No. TAL-2024-2, Talbert Barrier Injection Wells I-24 and I-25 Control Valve Replacement Project

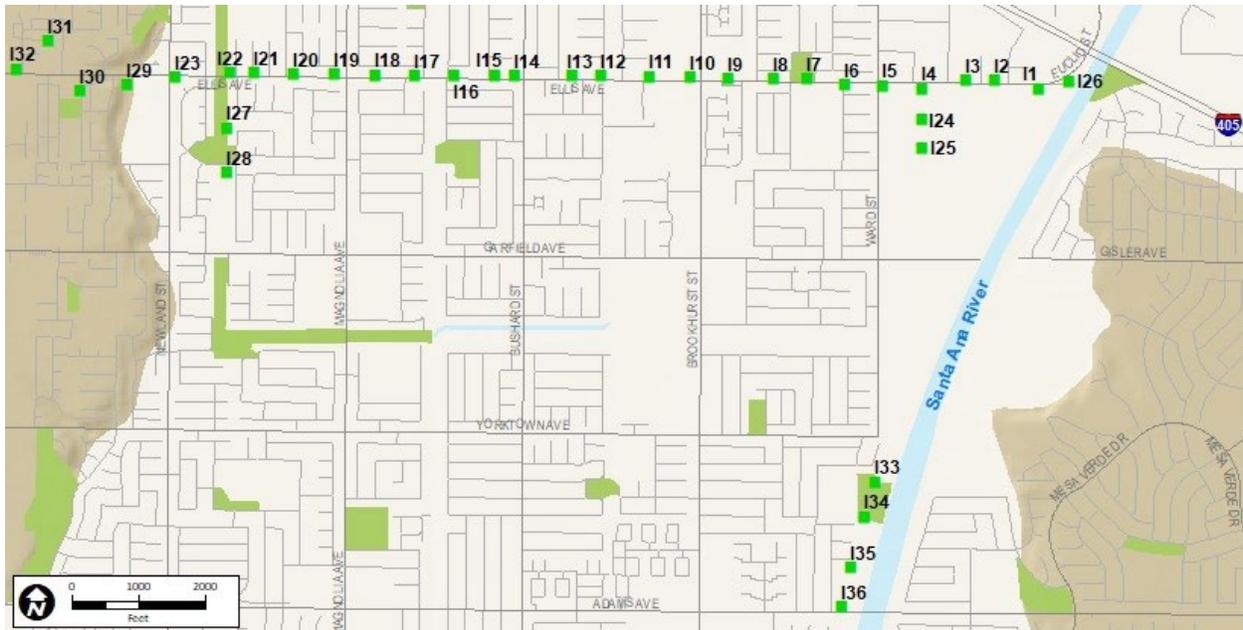
BACKGROUND/ANALYSIS

This Project involves modifications to injection wells I-24 and I-25 which are part of the Talbert Barrier system located on the OCWD Fountain Valley campus. The Talbert Barrier injection well field is comprised of 104 injection casings grouped into 36 well sites as shown in Figure 1 below. There are two primary types of injection wells: 1) Modern Wells (I-26 through I-36) and 2) Legacy Wells (I-1 through I-23). In addition, there is a third type of injection well, the Hybrid Well. The Hybrid Well combines design aspects of Legacy Wells and Modern Wells. There are only two of these Hybrid Injection wells in the Talbert Barrier system: I-24 and I-25. These two Hybrid Injection wells are located within the GWRS Advanced Water Purification facility plant site.

Like Modern Wells, Hybrid Wells are equipped with a flow control valve at the end of the eductor pipe. Hybrid Wells employs a down-well flow control valve called a variable orifice valve (VOV). The VOV operates on the principle of a solid sleeve hydraulically sliding over a ported cylinder and exposing or covering the ports to flow or secure water. The VOV valves at I-24 and I-25 have a history of failure and currently, all 3 VOVs are

inoperable. Currently, both wells are unable to inject water into the Talbert Barrier due to the loss of flow control. The combined maximum injection rate for these two wells are approximately 3.7 MGD when functioning properly.

Figure 1: Map of Injection Wells



This Project consists of replacing the VOV valves with Baski down-well flow control valve, manufactured by Baski Inc. These are the same valve as are used in the Modern Wells. This valve operates on the principle of an inflatable / deflatable rubber bladder inside a stainless steel body. Nitrogen gas is used to inflate the bladder to stop flow. Conversely, when nitrogen gas is bled from the Baski Valve, flow initiates. Pressure on the bladder determines the flowrate of water passing through the Baski Valve. The entire assembly is encased inside a stainless steel housing. Baski valves have been proven to be very reliable in controlling injection flows in the Modern Wells.

Design for this project is included in the fiscal year 2024-25 Refurbishment and Replacement budget in the amount of \$200,000. Staff will return to the Board to establish the total project budget at the time of construction award.

Staff recommends authorizing publication of Notice Inviting Bids for Contract No. TAL-2024-2, Talbert Barrier Injection Wells I-24 and I-25 Control Valve Replacement Project

PRIOR RELEVANT BOARD ACTION(S)

10/18/23, R23-10-138: Professional Services Agreement to Tetra Tech for Design Services for the Talbert Barrier Injection Wells I-24 and I-25 Flow Control Valve Project

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Bouley/L. Esguerra

Budgeted: Yes

Budgeted Amount: \$2,500,000

Cost Estimate: \$0

Funding Source: R&R

Program/Line Item No. R24032

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: Cat. Ex.

**Subject: CONTRACT NO. A-2025-1 ANAHEIM LAKE VALVE VAULT
CATEGORICAL EXEMPTION AND NOTICE INVITING BIDS**

SUMMARY

Final plans and specifications for Anaheim Lake Valve Vault Project are nearing completion. Staff recommend filing a Categorical Exemption for the project and issuing a Notice Inviting Bids for the construction contract.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board Meeting:

1. Authorize filing of a Categorical Exemption for the Anaheim Lake Valve Vault project in compliance with the California Environmental Quality Act (CEQA) guidelines; and
2. Authorize publication of Notice Inviting Bids for Contract No. A-2025-1, Anaheim Lake Valve Vault.

BACKGROUND/ANALYSIS

The Anaheim Lake pipeline distributes water to various locations including Anaheim Lake, Miller Basin, Kraemer Basin, Atwood Channel, and the Carbon Creek Diversion Channel. Several connections to the Anaheim Pipeline are directly buried within a small area just north of the spillway between OC-28 and Anaheim Lake and are inaccessible without deep excavation. These connections were constructed from the late 1980s to the early 1990s. The existing valves within the project limits are at the end of their expected lifespan and need replacement. The project location can be seen in Figure 1.

Figure 1: Existing Anaheim Lake Buried Valve Location



Updating the design of the Anaheim Lake Valve Vault project was contracted to MKN. The new vault structure included with the project will house two existing 48-inch butterfly valves from the Warner Pipeline to the Anaheim Pipeline and one existing 72-inch valve from OC-28 to the Anaheim Pipeline. The project will also include replacing two 48-inch valves which release water from Anaheim Pipeline into the Atwood Channel and construct structural modifications to OC-28. The expected project schedule is shown in Table 1.

Staff has determined the Anaheim Lake Valve Vault project is consistent with the Categorical Exemption for New Construction or Conversion of Small Structures (Class 3) because it consists of the construction and operation of a limited number of new, small facilities of structures.

Staff recommends authorizing the filing of a Categorical Exemption and authorizing Publication of the Notice Inviting Bids for Contract No. A-2025-1, Anaheim Lake Valve Vault.

Table 1: Anaheim Lake Valve Vault Schedule Summary

Description	Dates
Design	August 2018 – May 2025
Construction Contract	July 2025 – October 2027

PRIOR RELEVANT BOARD ACTION(S)

2/19/2025, R25-2-21: Authorizing Amendment No.1 to Agreement No. 1681 with MKN for an amount not to exceed \$33,200 for design services for the Anaheim Lake Valve Vault Project.

11/20/2024, R24-11-141: Authorizing issuance of agreement to MKN for design services for the Anaheim Lake Valve Vault Project.

3/20/2019, R19-3-38: Approving amendment to Gannett Fleming for Anaheim Lake Valve Vault Project.

10/17/2018, R18-10-145: Authorizing termination of agreement to KEH & Associates for design services for Anaheim Lake Valve Vault Project and awarding agreement to Gannett Fleming.

8/15/2018, R18-8-110: Authorize agreement to KEH & Associates for design services for Anaheim Lake Valve Vault Project.

12/20/2017, M17-170: Authorize Issuance of RFP for the Anaheim Lake Valve Vault Project.

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Bouley / L. Esguerra

Budgeted: Yes

Proposed Budget: \$0

Cost Estimate: \$0

Funding Source: CIP/PFAS Grant

Program/Line Item No.: C24006

General Counsel Approval: Yes

Engineers Report: Completed

CEQA Compliance: Cat. Ex.

**Subject: GOLDEN STATE WATER COMPANY CLAIR PLANT, BEACH PLANT,
AND DALE PLANT PFAS TREATMENT SYSTEMS PROJECT:
ENGINEER'S REPORT AND CATEGORICAL EXEMPTION**

SUMMARY

The plans and specifications for the Golden State Water Company Clair Plant, Beach Plant, and Dale Plant PFAS Treatment Systems Project (Project) are nearing 30% completion. Both the design and the construction costs will be funded, in part, by an Emerging Contaminant Principal Forgiveness Grant through the State Water Resources Control Board. Staff recommend approving the Engineer's Report for the project and filing a Categorical Exemption in compliance with the California Environmental Quality Act guidelines.

Attachment: Engineer's Report for the Golden State Water Company Clair Plant, Beach Plant, and Dale Plant PFAS Treatment Systems Project

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board Meeting:

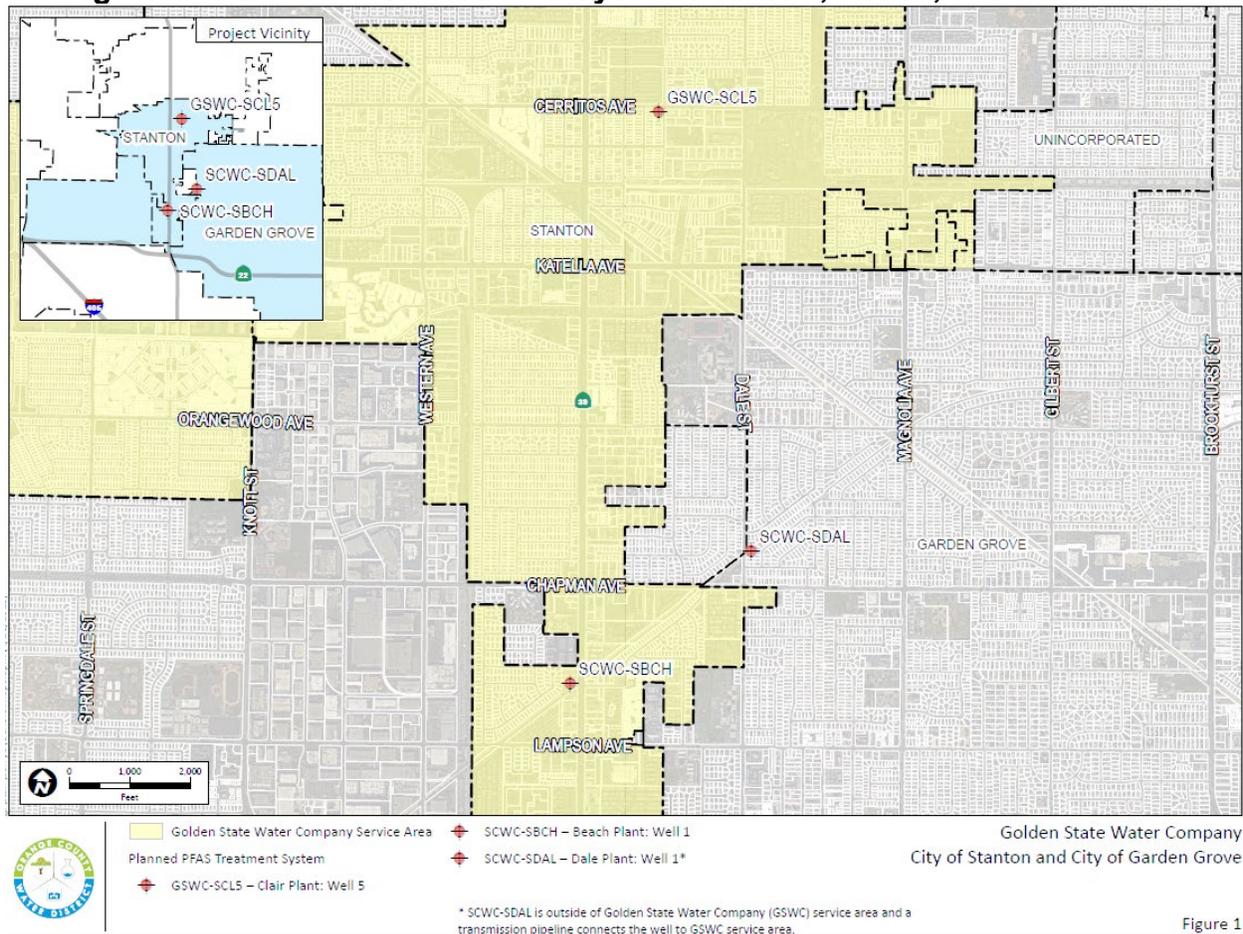
1. Approve the Engineer's Report for the Golden State Water Company Clair Plant, Beach Plant, and Dale Plant PFAS Treatment Systems Project and determine the project feasible, necessary and beneficial to the lands of the District; and
2. Authorize filing of a Categorical Exemption for the Golden State Water Company Clair Plant, Beach Plant, and Dale Plant PFAS Treatment Systems Project in compliance with the California Environmental Quality Act (CEQA) guidelines.

BACKGROUND/ANALYSIS

To restore the use of groundwater supplies impacted by PFAS contaminants with minimal delay, the firm of PACE Advance Water Engineering began design of the Golden State Water Company Clair Plant, Beach Plant, and Dale Plant PFAS Treatment Systems Project in July of 2024. Due to site constraints at the three sites, Ion Exchange (IX) treatment has been selected as the treatment method. The number

of vessels and required support systems needed for IX allows for less area to be occupied by the treatment plant than would be required for Granular Activated Carbon (GAC), Nanofiltration (NF), or Reverse Osmosis (RO). Without additional land acquisition, IX quickly became the treatment choice for these sites. PACE is nearly 30% complete with design of the PFAS treatment systems for the Project. Figure 1 shows the location of the Golden State Water Company Wells:

Figure 1: GSWC PFAS Treatment Systems at Clair, Beach, and Dale Plants



The Project will include installing IX vessel systems and all pre-filtration, site piping, well modifications, electrical upgrades, and other appurtenances. Staff has determined that the Project is consistent with a California Environmental Quality Act (CEQA) Categorical Exemption for New Construction or Conversion of Small Structures (Class 3) because it consists of the construction and operation of a limited number of new, small facilities or structures. The expected project schedule is shown in Table 1.

Table 1: GSWC PFAS Treatment Systems at Clair, Beach, and Dale Plants Schedule Summary

Description	Date
Design	July 2024 – Dec 2025
DDW Permitting	July 2024 – Aug 2027
Construction Contract	Mar 2026 – Sep 2027

Staff submitted a financial assistance application for an Emerging Contaminant (EC) Principal Forgiveness (PF) Grant in the amount of \$10 Million through the State Water Resources Control Board (SWRCB) Division of Financial Assistance in May 2024. This application represents the first application for Golden State Water Company. This project was included in the Drinking Water State Revolving Fund EC Supplemental Intended Use Plan for the State fiscal year 2024-25 approved by the SWRCB. Therefore, the Project is eligible to receive an EC PF Grant for PFAS projects up to \$10 Million. Staff is currently working with the SWRCB on the review and the approval of the District's Grant application for this project.

Prior to any construction costs being eligible for PFAS Grant reimbursement, the SWRCB is requiring the District process a Categorical Exemption as part of CEQA compliance. Upon completion of CEQA, the SWRCB will act as the lead agency for compliance with the National Environmental Policy Act (NEPA). This NEPA process is in addition to OCWD filing the CEQA Categorical Exemption and cannot proceed until after OCWD's filing is complete. Both the CEQA and NEPA environmental compliances require the Engineer's Report to provide the basis for the project. The recommended action in this submittal only includes approving the Engineer's Report and authorizing CEQA filing.

Staff recommends approving the Engineer's Report and authorizing the filing of a Categorical Exemption in compliance with CEQA guidelines for the Golden State Water Company Clair Plant, Beach Plant, and Dale Plant PFAS Treatment Systems Project.

PRIOR RELEVANT BOARD ACTION(S)

11/20/19, R19-146 - Approved PFAS Policy

1/22/20, R20-1-12 - Approved modifications to the PFAS Policy

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: M. Patel / B. Smith

Budgeted: Yes

Proposed Budget: \$100,000

Cost Estimate: \$100,000

Funding Source: R&R

Program/Line Item No. R24023

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: AUTHORIZE AGREEMENT TO TAIT AND ASSOCIATES, INC. FOR 2025 ASPHALT PAVEMENT REHABILITATION DESIGN

SUMMARY

A Request for Proposals was issued in March for design of the construction work in the first year of the District's pavement management plan to rehabilitate 35-acres of asphalt surface. Staff recommends issuing an agreement with Tait and Associates to perform the first year of rehabilitation design.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Authorize issuance of Agreement to Tait and Associates, Inc. for an amount not to exceed \$100,000 for the 2025 Asphalt Pavement Rehabilitation Design.

BACKGROUND/ANALYSIS

The District's properties include asphalt pavements on roadways, parking lots, and maintenance yards that total an area greater than 35 acres across more than a dozen different sites. The sites are located in the cities of Fountain Valley, Anaheim, Orange, Corona, and unincorporated Orange County areas. Some of the asphalt pavements are failing, while others are in various stages of disrepair. If proactively managed, asphalt pavements can have a long lifespan. Active maintenance of the surfaces reduces the lifecycle costs of asphalt pavements compared to replacements required after catastrophic failures. As part of its Replacement and Rehabilitation (R&R) program, the District sets aside funds each year for pavement maintenance.

In 2024, Staff worked with the consultant Bucknam Infrastructure Group, Inc. to assess existing pavement qualities and to map out a plan for their rehabilitations. The effort culminated in a Pavement Management Plan (PMP) that defines the Pavement Condition Index (PCI) for each section of asphalt, estimates the annual investment amounts that are required to maintain or improve the asphalt conditions, and recommends the sequence of work to be the most cost effective in the long-term. The

PCI scale ranges from 0 to 100 and the weighted total PCI for District asphalts was found to be 74. Staff have interpreted the PMP and laid out a multi-year plan to accomplish its recommendations, see Table 1, for which funding would draw from the R&R fund. The work is not expected to be eligible for grant funding since the pavement areas are generally not open for public use.

Table 1: Asphalt Pavement Management Plan

Fiscal Year	Cost Estimate
2024 - 25	\$ 100,000
2025 - 26	\$ 1,000,000
2026 - 27	\$ 950,000
2027 - 28	\$ 750,000
2028 - 29	\$ 1,500,000

Staff prepared a Request for Proposals (RFP) for design of the fiscal year 2025-26 asphalt pavement construction work. The scope of work for this year includes approximately 10 acres of asphalt pavement at the Fountain Valley campus (administration and GWRS treatment plant areas), the Green Acres Project’s Santa Ana Reservoir, and recharge facility sites at Burris, Riverview, Five Coves, and Kraemer Basins.

The RFP was issued on March 20 via the District’s website and was directly sent to potential firms that may be interested in the project. One proposal was received before the RFP due date of April 22. The proposal was independently reviewed and scored by District staff. The scoring of the proposals included evaluating the qualifications of the firms and key staff, project approach, estimated level of effort, and related project experience. After the independent review, the scores were combined, and the sealed fee envelope was opened. Table 2 shows the scoring and fee results.

Table 2: 2025 Asphalt Design Proposals

Firm	Score (out of 100)	Proposed Fee
Tait and Associates	77	\$ 65,935 + Optional Tasks

The proposal provided a strong team with relevant prior experience and a good understanding of the project scope. The proposal included several optional items not included in the base proposal fee that will add value to the design and construction projects. Staff recommends award of an agreement to Tait and Associates, Inc. for an amount not to exceed \$100,000 for the 2025 Asphalt Pavement Rehabilitation Design, including the base fee and optional items to be performed at the direction of District staff.

PRIOR RELEVANT BOARD ACTION(S)

March 19, 2025, R25-3-34: Authorize issuance of a Request for Proposals for the 2025 Asphalt Pavement Rehabilitation Design.

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: K. O'Toole/Z. Henderson

Budgeted: Yes

Budgeted Amount: \$41,198

Cost Estimate: \$33,338 (Total \$41,198)

Funding Source: General Fund/Outside
Partners Reimbursement

Program/Line Item No. 1044.53001

General Counsel Approval: Required

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

**Subject: ISSUANCE OF SERVICES AGREEMENT WITH TETRA TECH, INC. FOR
2025 PRADO BASIN MULTISPECTRAL AERIAL IMAGERY AND LIGHT
DETECTION RANGING (LIDAR)**

SUMMARY

The District periodically collects aerial imaging and LiDAR data of Prado Basin to assist with assessment of vegetation health and sedimentation. To reduce the cost of obtaining aerial data, staff coordinated with and will share the cost with Inland Empire Utilities Agency and Chino Basin Watermaster. Staff recommend awarding an agreement to Tetra Tech, Inc. to collect multispectral aerial imaging and high-pulse count LiDAR data in an amount not to exceed \$41,198. OCWD's portion will not exceed \$33,338.

Attachment(s):

- Proposal from Tetra Tech, Inc.
- Cost Share Agreement

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting:

- 1) Authorize issuance of an Agreement to Tetra Tech, Inc., in the amount of \$41,198 for multispectral aerial imaging and high-pulse count LiDAR data collection of Prado Basin; and,
- 2) Approve and authorize execution of cost share agreement with Inland Empire Utilities Agency and Chino Basin Watermaster for multispectral aerial imagery and LiDAR data collection, subject to approval as to form by the District's General Counsel.

BACKGROUND/ANALYSIS

The District periodically collects aerial imaging and LiDAR data of Prado Basin to assist with assessment of vegetation health, Arundo Donax control, determining sedimentation rates and updating Prado Basin storage elevation contours.

LiDAR of Prado Basin was last collected in 2023; by collecting LiDAR in 2025 it will allow the District to study and evaluate sedimentation rates and locations and identify if there have been changes in vegetation structure and canopy over the prior two years. Understanding possible habitat impacts and sedimentation rates will allow more certainly during future water conservation efforts by OCWD. Collecting multispectral aerial imaging and high pulse count LiDAR in the summer of 2025 allows for the establishment of baseline environmental and sediment conditions prior to beginning the 5-year deviation to test Forecast Informed Reservoir Operations (FIRO) at elevation 508 ft msl. High pulse count LiDAR significantly improves the quality and accuracy of the ground surface contours in areas with dense riparian vegetation. Having accurate ground surface information is critical to understanding sedimentation rates and associated changes to the storage volume of the water conservation pool.

Staff issued a request for proposals to collect aerial imagery and LiDAR data collection on March 20, 2025, and received proposals from three consulting firms as shown in Table 1.

Table 1: 2025 Prado Basin Multispectral Aerial Imagery and High Pulse Count LiDAR Data Collection Quotes

Contractor	Quote
Tetra Tech Inc.	\$ 41,198.00
Digital Mapping Inc.	\$ 43,425.00
Fugro	\$ 149,163.12

The selection committee reviewed the written proposals and conducted evaluations for the three proposers: 1) Tetra Tech, Inc. 2) Digital Imaging, Inc. and 3) Fugro. The evaluation scores are specified in the following table (2):

Table: 2 Prado Basin Multispectral Aerial Imagery and LiDAR Evaluation Scores

Contractor	Ranking	Score (out of 100)
Tetra Tech Inc.	1	94%
Digital Mapping Inc.	2	91%
Fugro	3	52%

Staff reviewed the proposal from Tetra Tech, Inc. and determined that they meet the requirements set forth in the request for proposals. Staff also reviewed references provided by Tetra Tech, Inc. and found that they have successfully completed similar work in Southern California.

In prior years, the District obtained aerial photos with a 50% cost share from the Inland Empire Utilities Agency and Chino Basin Watermaster. OCWD has agreed to a 50/50 cost share for project management and acquisition of visible and infrared spectrum imagery

(commonly referred to as 4-band or multispectral imaging). OCWD elected to include high-pulse count LiDAR data as part of this acquisition and will pay 100% of the associated cost. These cost assignments are summarized in Table 3 of the attached cost share agreement.

Table 3: Cost Share Distribution for Agreement

Agency	Cost Share (\$)
Orange County Water District [4-Band Aerial Imagery & High Pulse County LiDAR]	\$33,338
Chino Basin Watermaster [4-Band Aerial Imagery]	\$3,930
Inland Empire Utilities Agency [4-Band Aerial Imagery]	\$3,930
Total	\$41,198

Staff recommends awarding an Agreement to Tetra Tech Inc. in the amount not to exceed \$41,198, for which, OCWD's cost-share for this project will not exceed \$33,338.

Staff also recommend approval of the attached cost share agreement with Inland Empire Utilities Agency and Chino Basin Watermaster for this work.

PRIOR RELEVANT BOARD ACTION(S) - None



John Kennedy
Orange County Water District
P.O. Box 8300
Fountain Valley, CA 92728-8300

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

Shivaji Deshmukh
Inland Empire Utilities Agency
6075 Kimball Avenue
Chino, CA 91708

Re: Cost Sharing Letter Agreement: 2025 Prado Basin Multispectral Aerial Imagery and LiDAR Data Collection

This cost sharing letter agreement (Agreement) sets forth the understanding between the undersigned parties regarding the sharing of costs for the 2025 Prado Basin multispectral aerial imagery and LiDAR data collection. Orange County Water District (OCWD) intends to enter into a contract with Tetra Tech Inc. to complete this project. The scope of services with Tetra Tech Inc., which is the subject of this Agreement is set forth in Exhibit A (Scope).

OCWD and the undersigned parties (collectively referred to as Parties and individually as Party) hereby agree to contribute to the cost of the consultant contract pursuant to the provisions set forth below.

1. Scope of Services

Tetra Tech Inc. will perform services as detailed in Tetra Tech Inc. response to Orange County Water District request for proposals for 2025 Prado Basin Multispectral Aerial Imagery and LiDAR dated March 20, 2025. The project scope is described in **Exhibit A** attached hereto and incorporated herein by reference.

2. Cost Sharing

(a) Cost of Services

OCWD has entered into, or intends to enter into, a contract with Tetra Tech Inc. for performance of the Scope with a **not-to-exceed cost of \$41,198** (Compensation).

(b) Cost Sharing Between the Undersigned Parties

The Parties hereto each agree to be responsible for reimbursement of the payments made under the Contract with Tetra Tech Inc. based on Table 1 as follows:

Table 1 Cost Share Distribution for Contract

Agency	Cost Share (\$)	Cost Share¹ (%)
Orange County Water District [4-Band Aerial Imagery & High Pulse County LiDAR]	\$33,338	81%
Chino Basin Watermaster [4-Band Aerial Imagery]	\$3,930	9.5%
Inland Empire Utilities Agency [4-Band Aerial Imagery]	\$3,930	9.5%
Total	\$41,198	100%

¹ To the extent the actual cost of the project is greater or less than \$41,198, the Parties agree that costs will be allocated in accordance with the percentages listed for each Party in Table 1.

(i) Upon receipt by OCWD of each written statement from Tetra Tech Inc. regarding the amount due and owing for the applicable time period (Progress Payment), OCWD shall be responsible for payment to Consultant for the amount due and owing.

(ii) The Parties shall be responsible for payment of their share of the amount due and owing under each Progress Payment to be billed by OCWD to each Party, quarterly. None of the Parties shall be responsible for payment of any amounts in excess of its percentage share as set forth herein, without the prior written consent of the Party being requested to pay such additional amount. If project costs are lower than expected, each Party will only be responsible for contributing its proportional share of the total project costs as shown in Table 1.

(iii) OCWD shall provide a copy of the Progress Payment to each Party along with a cover letter setting forth the calculation of the share due and owing by each Party. Within thirty (30) days of the date of said cover letter (Invoice), each Party shall submit payment to OCWD for its share as set forth in this Agreement.

3. Effective Date and Term

This Agreement shall be effective on the date of full execution of this Agreement by all of the Parties (Effective Date). The term of this Agreement shall be from the Effective Date to the date of completion of performance of the Scope under the Tetra Tech Inc. Contract pursuant to the schedule and deadlines set forth in Exhibit A and other schedules and deadlines as may be determined by the Parties and Tetra Tech Inc. The Parties may elect to extend the term in writing.

4. General Provisions

(a) Indemnification

Each Party (Indemnitors) hereby agrees to defend, indemnify and hold free and harmless the other Parties (Indemnitees) from and against any and all liability, expense, including defense costs and legal fees, and claims for damages arising from or connected with Indemnitors' negligent or otherwise wrongful activities undertaken per this Agreement. There are no third-party beneficiaries of this letter Agreement.

(b) Notices

Correspondence to be given to any Party may be sent by first-class mail, addressed and delivered as set forth below in the signature blocks for each Party.

(c) Representation of Authority

Each Party represents to the other that it has the authority to enter into this Agreement and that the individual signing this Agreement on behalf of their respective Party has the authority to execute this Agreement and to bind their respective Party to the terms and conditions of this Agreement.

(d) Counterparts

This Agreement may be executed in several counterparts, all or any of which shall be regarded for all purposes as one original and shall constitute and be but one and the same instrument.

(e) Governing Law

This Agreement shall be governed by and construed in accordance with the laws of the State of California.

(f) Cooperation. The Parties acknowledge that they are entering into an arrangement in which the cooperation of all of the Parties will be required, including the execution of necessary further documents. The Parties agree to cooperate in good faith with each other and review and submit timely documents for the benefit of the Project.

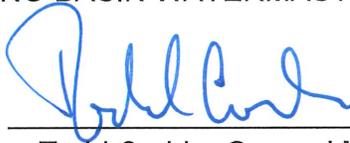
BY SIGNING BELOW, THE PARTIES AGREE TO BE BOUND BY THE PROVISIONS OF THIS AGREEMENT

ORANGE COUNTY WATER DISTRICT

By: _____
John Kennedy, General Manager

Dated: _____

CHINO BASIN WATERMASTER

By:  _____
Todd Corbin, General Manager

Dated: 5.8.25

INLAND EMPIRE UTILITIES AGENCY

By:  _____
Shivaji Deshmukh, General Manager

Dated: 5/13/2025

Exhibit A

Tetra Tech Inc.

2025 Prado Basin Multispectral Aerial Imagery and LiDAR
Technical & Price Proposal

Response to RFP-24-018 2025 Prado Basin Multispectral Aerial Imagery and LiDAR Technical & Price Proposal

April 15, 2025



Submitted to:

Orange County Water District
Administration Office Building
Attn: Bobby Velasco, Senior Buyer/Warehouse Supervisor
18700 Ward Street
Fountain Valley, CA 92708
Procurement@ocwd.com

Prepared by:

Tetra Tech, Inc.
Geomatic Technologies Group
Attn: Thomas Loecherbach
1999 Harrison Street, Suite 500
Oakland, CA 94612
Thomas.loecherbach@tetrattech.com
925.280.7445 (office)
510.433.0830 (fax)

April 15, 2025

Orange County Water District
Attn: Bobby Velasco
18700 Ward Street
Fountain Valley, CA 92708

Dear Mr. Velasco and Members of the Selection Committee:

It is with great pleasure and interest that we submit this proposal for the 2025 Prado Basin Aerial Imagery and LiDAR. We have successfully performed the 2021 and the 2023 project for OCWD and are familiar with the scope, the project area, and the Orange County Water District team's requirements. We have again assembled a team of professionals with the skills required for successful completion of this project. We understand that the Water District is seeking high resolution and spatially accurate multispectral aerial imagery and LiDAR as well as derived products. The unique qualifications of our team members include:



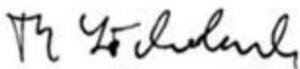
- **Past Performance Record of Successful Delivery of Prado Basin Aerial Imagery to Orange County Water District.** Our team collected and processed aerial imagery data for Orange County Water District in 2021 and imagery and LiDAR in 2023. We collected, processed, and delivered all required scope items on time and with approval of the District.

- **Engineering Services for Southern California and Recent History with the Orange County Water District.** The team that we have assembled has collected and processed LiDAR and imagery data for flood control projects in the Southwest for over 15 years. We have completed numerous projects for public and private clients including work for Orange County Water District, with Mid-Basin Centennial Park and Santiago Pump Station.

- **Depth and Breadth of Expertise.** Our expertise includes a team of ASPRS Certified Photogrammetrists, Imagery and LiDAR Analysts, Professional Licensed Surveyors and remote sensing professionals who have completed similar work to that required of this project throughout California and across the United States.
- **Capacity.** Our team has the capacity to perform the work that is required, and our team is positioned and eager to begin work immediately upon receiving a notice to proceed. Our depth of highly qualified staff allows us to adapt to changes in project requirements and/or scope and minimizing impacts to project schedule.

We appreciate this opportunity to further demonstrate the support our team can provide to the Orange County Water District. If you have any questions about this Proposal, please feel free to contact us.

Sincerely,



Thomas Loecherbach, PhD
Geomatics Director
Tetra Tech, Inc.

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EXPERIENCE AND RECORD OF PAST PERFORMANCE

Reference Project No. 1: OCWD Prado Basin 2023 Aerial Imagery and LiDAR, CA	
Name of Owner/Client	Orange County Water District
Description of project	Tetra Tech was contracted by the Orange County Water District (OCWD) to develop 4 band Orthoimagery for 33.9 square miles in the Prado Basin and to collect 16 ppsm (points per square meter) LiDAR , and to provide derived products .
Services provided	Aerial Imagery and LiDAR Acquisition, Ground Survey, Data Processing, Products
Start Date/End Date	2023
Contract Amount	\$42,460 (Original/Final)
Contact Information of Owner/Client	Kevin O’Toole, Orange County Water District, Senior Planner 18700 Ward Steet, Fountain Valley, CA 92708, Phone: 714.378.8248

Project No. 2: Wetzel County WV Orthoimagery	
Name of Owner/Client	Wetzel County, WV
Description of project	Tetra Tech was contracted by Wetzel County (WV) to provide 3 band orthoimagery at a resolution of 0.25’ for the entire County (~361 square miles) and perform a change detection. A total of 2,765 images were collected with an UltraCam in three mobilizations.
Services provided	Orthorectification, QC and accuracy reporting, change detection.
Start Date/End Date	2025, ongoing, scheduled delivery 4/30/2025
Contract Amount	\$51,071 (Original/Final)
Contact Information of Owner/Client	Scott Lemley, Assessor Slemley@wvassessor.com , 304-455-8216 210 Main St. New Martinsville, WV 26155

Project No. 3: Sunnyslope LiDAR	
Name of Owner/Client	MN8 Energy LLC
Description of project	Tetra Tech provided professional surveying services consisting of a boundary survey, and a topographic survey for 14 parcels of land encompassing 2,337 acres of land in Baker County, OR, including aerial LiDAR collection and CAD processing.
Services provided	LiDAR acquisition, surface model, contours
Start Date/End Date	2025
Contract Amount	\$101,600
Contact Information of Owner/Client	Jared Medwar, Civil Engineer Phone: +1 561 246 5687, jared.medwar@mn8energy.com

Project No. 4: USGS Arizona North-Central, Airborne LiDAR Processing

Name of Owner/Client	Sanborn Geospatial
Description of project	Through Sanborn Geospatial’s USGS Geospatial Products and Services Contract, Tetra Tech performed LiDAR data processing for 2,628 square miles of area in Arizona. The work was completed from July 2024 to October 2024. In accordance with the USGS LiDAR Base Specification. Tetra Tech digitized and delivered 3D breaklines for hydro features. Tetra Tech then used the 3D hydro breaklines and final classified ‘class 2’ points to create a hydroflattened DEM.
Services provided	LiDAR processing, Quality Control, USGS specifications QC
Role	Subcontractor
Start Date/End Date	2024
Contract Amount	\$205,015 (Original/Final)
Contact Information of Owner/Client	Shawn Benham, Vice President of Programs, Mapping Division sbenham@sanborn.com Mobile: (719)502-1296

Project No. 5: Grass Valley – Nevada City Mapping, CA

Owner/Client	Dundas Geomatics
Description of project	Tetra Tech acquired 3inch digital imagery and 10 ppsm lidar for an area of 30 square miles to support mapping at planimetric mapping 1”=100’ and the generation of 1-ft contours for Grass Valley and Nevada City, CA.
Services provided	Aerial Imagery and LiDAR Acquisition, Planimetric Mapping
Date	2020
Contract Amount	\$167,000
Contact Information of Owner/Client	Ron Dundas, 159 South Auburn St., Grass Valley, CA 95945, 530.274.1616 rdundas@ddgeo.com

Most of the survey and mapping work completed by our Tetra Tech Geomatic Technologies Group in California is through private firms, and not directly with public agencies. The following is a list of California Public Agency Direct Projects that were completed by our Geomatic Technologies Group over the past 5 years.

Client Name	Date	Title of Project
Los Angeles Department of Water & Power	2020	Owens Lake LiDAR
Pacific Gas and Electric	2020-present	Survey and Mapping MSA
South Orange County Wastewater Authority	2020	Wood Canyon Airborne LiDAR
City of Santa Cruz	2020, 2021	Santa Cruz Aerial Mapping
Orange County Water District	2021, 2023	Prado Basin

PROJECT TEAM AND QUALIFICATIONS

Tetra Tech, a leading provider of specialized management consulting and technical services, offers an array of infrastructure and environmental services to a diverse base of public and private sector clients. With 30,000 associates in 450 offices in more than 110 countries on six continents. In 2009, Tetra Tech started the Geomatic Technologies Team, providing integrated mapping solutions using state-of-the-art mapping software, airborne sensors and camera systems, and a robust information technology infrastructure. Our staff is supported by a uniform administrative and management system that project teams can access immediately to ensure work is completed effectively. Tetra Tech has assembled a team that offers the Orange County Water District an experienced professional group to effectively respond to all requirements listed in the solicitation. The Org chart in Figure 1 gives an overview of the assembled team structure.

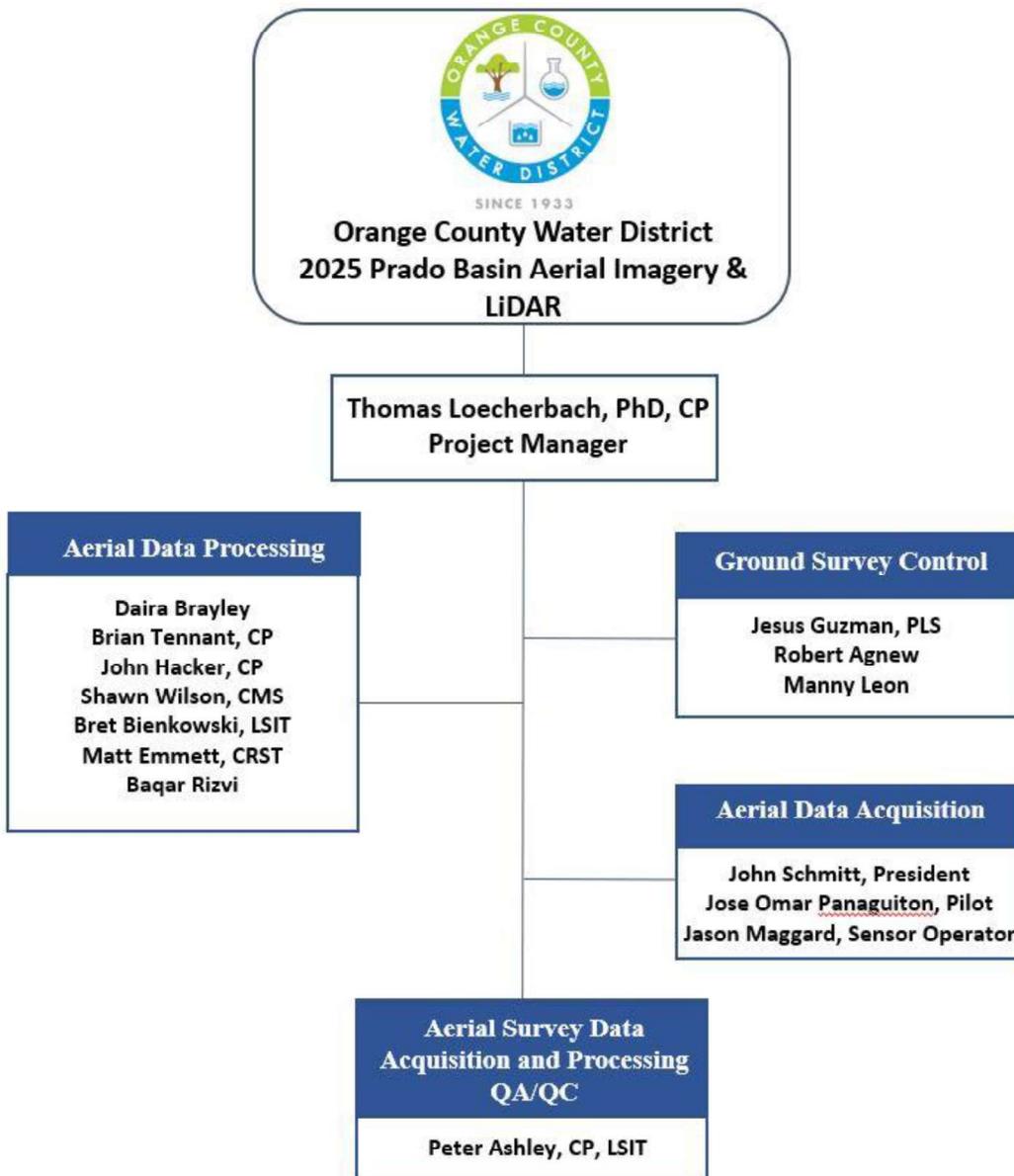


Figure 1: Org Chart for OCWD 2025 Aerial Imagery and LiDAR.

The following table lists each team members responsibility and location as well as the contact information for the team leads. Additional contact information can be found in the resumes in the appendix. All team member key staff noted below will be available to support this project without substitution and will not be substituted with other staff without prior written approval by OCWD.

Team Member	Role	Anticipated level of involvement	Location	Key Contact
Thomas Loecherbach	Project Manager Quality Control	95%	Oakland, CA	thomas.loecherbach@tetrattech.com 925.280.7445
John Schmitt	Flight management	10%	Pittsburg, PA	John.Schmitt@vexcelgroup.com
Jose Omar Panaguiton	Pilot	80%	Los Angeles, CA	jose.panaguiton@vexcelgroup.com
Jason Maggard	Sensor Operator	80%	Los Angeles, CA	Jason.maggard@vexcelgroup.com
Jesus Guzman	Survey Lead	20%	Irvine, CA	jesus.guzman@tetrattech.com
Robert Agnew	Survey Technician	20%	Irvine, CA	robert.agnew@tetrattech.com
Manny Leon	Survey Technician	20%	Irvine, CA	manny.leon@tetrattech.com
Daira Brayley	LiDAR Lead	90%	Denver, CO	daira.brayley@tetrattech.com
Peter Ashely	QC Lead	90%	Oakland, CA	peter.ashley@tetrattech.com
Brian Tennant	Image Lead	90%	Oakland, CA	brian.tennant@tetrattech.com
John Hacker	Breakline Compilation	20%	Oakland, CA	john.hacker@tetrattech.com
Shawn Wilson	Processing Technician	20%	Bothell, WA	shawn.wilson@tetrattech.com
Bret Bienkowski	Survey QC	20%	Tampa, FL	bret.bienkowski@tetrattech.com
Matt Emmett	Processing Technician	20%	Denver, CO	matt.emmett@tetrattech.com
Baqar Rizvi	LiDAR QC	20%	Sacramento, CA	baqar.rizvi@tetrattech.com

ORANGE COUNTY WATER DISTRICT OCWD		TASK 01		TASK 02		TASK 03		TASK 04		TOTAL	
OCWD ORTHOIMAGERY AND LIDAR 2025		ORTHOIMAGERY		LIDAR 8PPSM (OPTION 1)		LIDAR 16PPSM (OPTION 2)		MANAGEMENT			
NAME	UNIT RATE	QTY	PRICE	QTY	PRICE	QTY	PRICE	QTY	PRICE	QTY	PRICE
TETRA TECH STAFF											
Ashley, Peter	\$ 188.00	4.0	\$752	2.0	\$376	2.0	\$376			8.0	\$1,504
Bienkowski, Bret	\$ 248.00	2.0	\$496	2.0	\$496	2.0	\$496			6.0	\$1,488
Brayley, Daira	\$ 128.00			21.0	\$2,688	22.0	\$2,816			43.0	\$5,504
Emmett, Matthew	\$ 78.00			6.0	\$468	6.0	\$468			12.0	\$936
Hacker, John	\$ 191.00	2.0	\$382							2.0	\$382
Loecherbach, Thomas	\$ 230.00	10.0	\$2,300	2.0	\$460	2.0	\$460	8.0	\$1,840	22.0	\$5,060
Rizvi, Baqar	\$ 154.00			2.0	\$308	2.0	\$308			4.0	\$616
Ternent, Brian	\$ 120.00	12.0	\$1,440							12.0	\$1,440
Warren, Caprice	\$ 151.00							4.0	\$604	4.0	\$604
Wilson, Shawn	\$ 227.00			2.0	\$454	2.0	\$454			4.0	\$908
Guzman, Jesus	\$ 213.00	4.0	\$852							4.0	\$852
Agniew, Robert	\$ 129.00	9.0	\$1,161	3.0	\$387	3.0	\$387			15.0	\$1,935
Leon, Manny	\$ 150.00			12.0	\$1,800	12.0	\$1,800			24.0	\$3,600
TOTAL LABOR COST		43.0	\$7,383	52.0	\$7,437	53.0	\$7,565	12.0	\$2,444	160.0	\$24,829
EXTERNAL SUBCONTRACTOR											
Keystone Aerial Surveys	\$ 5,260.00	1.0	\$5,260							1.0	\$5,260
	\$ 13,185.00			1.0	\$13,185					1.0	\$13,185
	\$ 16,630.00					1.0	\$16,630			1.0	\$16,630
GRAND TOTAL			\$13,432		\$22,600		\$26,690		\$2,444		\$65,166

PROJECT OVERVIEW AND APPROACH

Understanding of the scope

We understand that OCWD is seeking to collect aerial 4-band imagery and quality level QL1 LiDAR and derived products to support OCWD’s mission for a reliable supply of high-quality water to their customers. The area of interest (AOI) comprises an area of about 31.8 square miles described in the file OCWD_PradoBasin_PrjFlightArea.kmz provided by OCWD, with a 50 meter buffer outside the boundaries. The imagery must be flown during Summer 2025, one week before or after July 1, 2025.

The Imagery will have a ground resolution of 3” or better. The camera will collect 4 spectral bands, i.e. natural color RGB and near Infrared, or RGBI. Imagery will be controlled by airborne GPS, will be cloud free, collected between 10am and 2pm local time at a sun angle 45 degrees or higher. The Orthoimagery will meet the required accuracy for 1”=50’ scale mapping.

The LiDAR will meet or exceed the USGS (United States Geological Survey) defined requirements for quality level1 (QL1) LiDAR with 8ppsm or optional 16 ppsm. The relative accuracy requirement between overlapping strips for QL1 LiDAR is 8cm or better. We will meet the imagery and lidar requirements outlined in the RFP and in the amendment.

Quality level	Aggregate nominal pulse spacing (m)	Aggregate nominal pulse density (pls/m ²)
QL0	≤0.35	≥8.0
QL1	≤0.35	≥8.0
QL2	≤0.71	≥2.0
QL3	≤1.41	≥0.5

Figure 2: USGS LiDAR Base Specifications. The required pulse density for QL1 LiDAR is 8ppsm.

Quality level	RMSE _v (nonvegetated) (m)
QL0	≤0.050
QL1	≤0.100
QL2	≤0.100
QL3	≤0.200

Figure 3: USGS LiDAR Base Specifications. The required vertical accuracy is 10cm RMSE or better in non vegetated areas.

Deliverables

We understand the following deliverables are requested per RFP:

RGB imagery	GeoTIFF tiles
	MrSid mosaic
	other options can be decided in kick off meeting
4 band image	GeoTIFF tiles
	MrSid mosaic
	4 band images and/or separate 3 band RGB and 3 band color infrared
ancillary data	trajectories (shp format)
	tiling scheme (shp format)
	final report
	FGDC metadata
LiDAR data	Classified LAS 1.4 files
	Bare earth raster surface at 1-m resolution or better

	Highest hit (first return) raster surface with the same resolution and extent as the bare earth raster surface
	Intensity image
	Shapefiles with flight trajectories, tiling, and swath boundaries
	A report of the work performed describing survey methods, boundaries, coordinate systems and datums, results, spatial accuracy assessment, including RMSE for relative and absolute accuracies and formal metadata as specified by the Federal Geographic Data Committee's (FGDC)
Horizontal coordinate system	State Plane Coordinate System, Zone 6 US feet, Datum NAD83 [WKID: 2230 (Zone 6)]
Vertical datum	Elevation data shall be delivered on the North American Vertical Datum of 1988 (NAVD88), and also on the National Geodetic Vertical Datum of 1929 (NGVD29).

The horizontal coordinate system and datum for imagery and LiDAR is California State Plane Coordinate System, Zone 6 US feet, Datum NAD83 [WKID: 2230 (Zone 6), Authority:EPSG]. We understand that the elevation data is required to be delivered on the North American Vertical Datum of 1988 (NAVD88), and also on the National Geodetic Vertical Datum of 1929 (NGVD29). We will be able to deliver on both datums.

Ability for successful completion

Our team understands the scope and project requirements. Our Tetra Tech processing team and survey crew, as well as the Keystone flight crew are familiar with the project and the area. We are local and ready to mobilize on short notice. Keystone’s team is familiar with FAA requirements in the area. Processing team is available to process on short notice. All three teams have sufficient experienced backup staff. Our PM, Dr. Loecherbach is available at anytime and ready to dedicate his attention to the project.

Project management and communication approach

Project kick-off. Dr.Thomas Loecherbach has been selected as the project manager for this project. He will be the point of contact for OCWD. He can be reached at any time during the course of the project and will be reporting to OCWD on a regular basis. Once the project has started he will set up a call for a kick-off meeting. The call agenda will include:

- Review the project purpose
- Establish project goals, objectives, and schedule.
- Assesses the potential impacts and impediments to the timely completion of the various project tasks and milestones and adjust accordingly.
- The meeting will conclude with a finalized schedule and preparation of a “responsibility chart.”

Communication. Dr. Loecherbach is available in person, via phone, email, and video conference. He has at his disposal a team of experts in surveying, GIS, CAD, civil engineering as well as support from accounting. He will contact the Orange County Water District Project Manager periodically to provide updates and to ensure their satisfaction with our level of service and commitment to each project and will make necessary adjustments.

Cost Control. Tetra Tech has had an excellent record of controlling costs and schedules on projects. We believe our success is a result of several factors that include (1) regular attention to expenditures compared to work completed, (2) proactive scheduling, (3) quality of work, and (4) flexibility on scoped work.

Tetra Tech’s management procedures also focus on continuous review of progress to avoid potential problems before they become serious enough to affect delivery schedules and costs. Our management approach includes various procedures for early identification of issues that could lead to problems and established measures to deal effectively with these issues.

Proposed Schedule. Tetra Tech proposes the following schedule:

Tetra Tech Week Beginning Date (proposed)	2-Jun	9-Jun	16-Jun	23-Jun	30-Jun	7-Jul	14-Jul	21-Jul	28-Jul	4-Aug	11-Aug	18-Aug	25-Aug
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13
Contract Start													
Kick-Off													
Flight Planning													
Ground Control													
Acquisition (1 week before to 1 week after July 1st - weather depending)													
Airborne GPS processing													
LiDAR calibration													
Image processing													
LiDAR processing													
Edit and QC													
Final delivery													

QA/QC approach

Quality assurance and quality control are integrated into every step of our acquisition and production process. Quality assurance is met by carefully following standard procedures. Quality control is done both by the production staff and as additional, independent control. The Tetra Tech Geomatics Group strives for successful completion of each project, which is ultimately decided by the client.

Mr. Ashley is leading the QC for this project. In the beginning of the project he will assemble a set of project specific QC steps and QC checklists in an Excel spreadsheet format. QC takes place at every step throughout the project from flight planning, aerial acquisition, data calibration, data processing and final product delivery. QC checks include:

- Completeness of coverage
- Cloud coverage, lidar point density and other project specifications
- Horizontal and vertical accuracy reporting
- Relative accuracy of Orthoimagery along seamlines
- Relative accuracy of LiDAR data along strip overlaps
- Radiometric quality

A quality report will be provided as a deliverable at the end of the project.

Technical approach

Imagery is planned to be acquired with a Vexcel UltraCam Falcon prime mapping camera in 16 flight lines with 446 digital images. LiDAR is planned to be acquired with a Galaxy prime sensor. Imagery will be acquired at an altitude above terrain of about 4100’, yielding a ground resolution of 4.8 to 7.6 cm (3inch) depending on varying terrain height. LiDAR will be acquired at an altitude above terrain of 3,450’ and 30 flight lines for 8ppsm (points per square meter) or 2,790’ and 40 flight lines for 16 ppsm.



Figure 4: Flight plan imagery, 16 lines, 446 images.

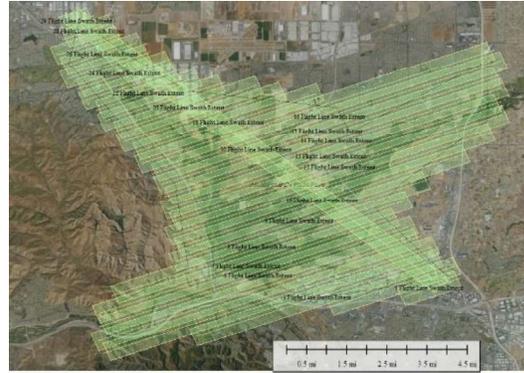


Figure 6: Flight plan LiDAR 8ppsm.

Ground control layout will match the layout used for the 2023 flight. This includes 9 targeted ground control points (panels) for the imagery and an additional minimum of 20 vertical check points for the LiDAR.

Tetra Tech uses the Inpho / Trimble photogrammetry suite for all aerotriangulation and orthophoto production. In the aerotriangulation the imagery will be tied together by measuring tie points and will be tied to the ground by measuring ground control points. The aerotriangulation also uses the airborne GPS and inertial data. The aerial images are then orthorectified using the OrthoMaster tool and mosaicked using OrthoVista.

Tetra Tech will receive calibrated and unclassified LiDAR point cloud from Keystone. Tetra Tech uses TerraSolid software TerraScan and TerraModeler for classification of the lidar data. We use GeoCue LP360 software for generation of the derived products DEM, DSM, and intensity images. LP360 is also used for quality control and header control.

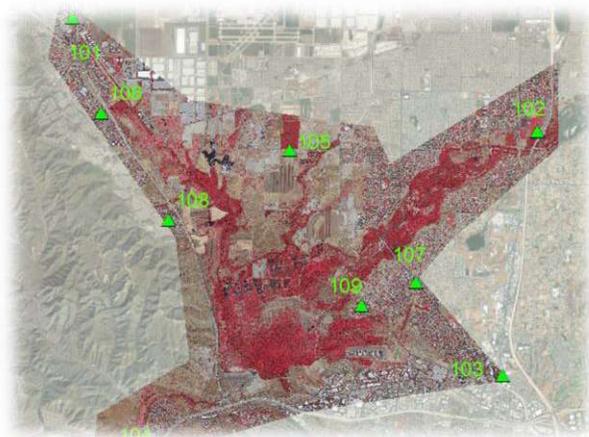


Figure 5: Targeted ground control (panels).

Management of possible constraints

Our team is familiar with project constraints that can occur. Most projects follow a linear workflow, i.e. one process step depends on successful completion of the previous step, from flight planning to final delivery. Constraints can be caused, for example by weather, FAA requirements, scheduled or unscheduled airplane maintenance. Tetra Tech and our partner Keystone have experience, redundant equipment and strong teams so that any constraint will only minimally affect schedule.

ADDITIONAL SERVICES

Tetra Tech teams cover a comprehensive variety of environmental engineering services. The Tetra Tech Geomatics Team offers a full range of services besides airborne LiDAR and photogrammetry. These include bathymetric LiDAR, mobile LiDAR and static LiDAR, drone imagery and LiDAR, change detection, remote sensing, hyperspectral remote sensing, GIS and CAD. Any additional service such as change detection for example can be scoped individually.

PRICE PROPOSAL

Tetra Tech is offering the below cost proposal:

Task Number	Proposed Fee
1 – Project Management	\$2,444.00
2 - Data Collection and Reporting (3 band color and NIR imagery)	\$13,274.00
3a - LiDAR Data Collection and Reporting Option 1- USGS QL1 LiDAR [Minimum 8 pulses/m2]	\$22,258.00
3b - LiDAR Data Collection and Reporting Option 2 - High Pulse Count USGS QL1 LiDAR [Minimum 16 pulses/m2]	\$26,620.00
Not-To-Exceed Total for Tasks 1, 2 and 3a	\$37,236.00
Not-To-Exceed Total for Tasks 1, 2 and 3b	\$41,198.00

Tetra Tech suggests milestone billing for this project. We suggest billing after aerial acquisition is complete, and we will bill again after the final deliverables are accepted. We are happy to include itemized accounting of hours for personnel hourly rates. We will include a project schedule with each invoice.

STATEMENT OF INSURANCE COMPLIANCE

Tetra Tech has established contracts with Orange County Water District and has read and will comply with the following Orange County Water District insurance requirements noted in the Exhibit A of the RFP:

- \$2Million for Commercial General Liability insurance.
- \$1Million for Automobile Liability insurance (including additional insured endorsements for both General Liability and Automobile Liability insurance).
- \$1Million for Workers’ Compensation insurance (including Waiver of Subrogation endorsement for Workers’ Compensation)
- \$1Million for Professional Liability insurance

OCWD STANDARD AGREEMENT

Tetra Tech’s legal team has reviewed Orange Counties standard terms and conditions and is prepared to accept them.

BILLING

Tetra Tech will meet the billing requirements stated in the RFP.

CONFLICT OF INTEREST

Tetra Tech does not have any conflict of interest with individuals employed by Tetra Tech or our subcontractors that are associated with OCWD.

APPENDIX - RESUMES

Mr. Agnew is experienced in the design and preparation of construction documents and improvement plans. These plans include street and storm drain improvements, community parks, and the implementation of Best Management Practices (BMP) He is also experienced in preparing Stormwater Pollution Prevention Plans (SWPPP), WQMP's and LID reports.

Mr. Agnew is experienced in AutoCAD Civil 3D, AutoCAD 2016, GIS, HEC-HMS, HEC-RAS and county-specific hydrology software for project preparation. He is also experienced in field survey work.

Education:

BS, Civil Engineering, University of California, Irvine, 2023

Registrations/Certifications:

Engineer-In-Training California
No 179863, 2023

Office Location:

Irvine, CA

Total Years of Experience:

(06/2022) 2

Years with Tetra Tech:

(06/2022) 2

EXPERIENCE**Transportation**

TOS 702 Ramp Design, City of Los Angeles, Bureau of Engineering, Los Angeles, CA. 2022 – Ongoing. Design Engineer. Responsible for providing bridging documents and siting locations in support of StreetsLA's Pavement Preservation Program which maintains a street network of 23,000 lane miles and keeps all improved streets and related thoroughways in good to excellent condition. Tetra Tech's scope of services includes topographic survey, engineering design, design support during construction, and construction management services for various access ramps throughout the City, in compliance with the Americans with Disabilities Act (ADA).

TOS 33 67th Street and West Boulevard Civil Improvements, City of Los Angeles, Bureau of Engineering, Los Angeles, CA. 2023-Ongoing. Design Engineer. Provides drafting support, curb ramp design, and driveway analysis. The 67th and West Boulevard Street Improvement Project will provide accessible pedestrian and cyclist connectivity from the end of the Rail-to-Rail project to the Fairview Heights Metro station. The project entails street improvements for approximately six city blocks, along 67th Street from 11th Avenue to West Boulevard, and along West Boulevard from 67th Street to 71st Street.

Stormwater Management/Low Impact Development

Santa Ana Downtown Flood Reduction and Stormwater Infiltration, City of Santa Ana, CA. 2022 – Ongoing. Design Engineer. Provides hydrology report research and writing and drafting support. Located in downtown, the City of Santa Ana is reconstructing the 3rd Street parking lot to incorporate Best Management Practices (BMPs). Surrounding catch basins and storm drains are being reconstructed to divert stormwater into the parking lot for treatment and infiltration. The improvement in drainage and treatment alleviates flooding that occurs in the surrounding area and reduces pollutants being discharged into the watershed. The project captures runoff from the 23-acre drainage area into the infiltration system located underneath the parking lot, eventually recharging the groundwater table.

Lankershim Boulevard and Oro Vista Avenue Local Area Urban Flow Management, CDM Smith for City of Los Angeles, Los Angeles, CA. 2022 – Ongoing. Design Engineer. Responsible for hydrology studies, survey and mapping work, and engineering design and drafting for the Oro Vista Avenue segment of this stormwater improvement project. The project aims to infiltrate stormwater runoff to improve water quality and increase underground water supplies, provide community enhancements with the addition of greening elements, reduce flooding along the corridor with the installation of new piping and catch basin inlets, install new concrete curb and gutter, and construct new sidewalks to improve pedestrian accessibility throughout the corridor.

Bristol-Tolliver Street Urban Greening Project, City of Santa Ana, Santa Ana, CA. 2023 – Ongoing. Design Engineer. Responsible for providing survey mapping, hydrology studies, harvest and use cistern sizing, bioretention and storm drainpipe design and drafting support. The Bristol Tolliver Street Urban Greening Project involved the construction of a new public park on a vacant lot at the corner of Bristol and Tolliver Streets in Santa Ana. The project included landscaping, a skate park, basketball court, fitness equipment, children's play areas, shade structures, pathways, signage, lighting, benches, picnic tables, and stormwater management features. A storm drain system was designed to capture, store, and reuse stormwater for irrigation, supplemented by potable water when needed.

EXPERIENCE SUMMARY

Mr. Ashley is a senior level professional with more than 30 years of project experience supplemented with a strong academic background in surveying and photogrammetry. Mr. Ashley's practice encompasses every aspect of the mapping process, from aerotriangulation design and computation, to digital map translation. Because of the wide range of his capabilities, he is a vital consultant for our clients on project design and best technical approach for photogrammetry, orthophotography and Airborne LiDAR. Uniquely, Mr. Ashley's has worked extensively with historical aerial imagery archives, some of which date back to the 1930s. His results have been submitted as evidence in state and in federal court where he has been called as an expert witness to discuss his methods and his findings. In the course of his career, Mr. Ashley has managed major mapping projects for public agencies including the U.S. Forestry Service, the U.S. Army Corps of Engineers, the U.S. Bureau of Reclamation, the Bureau of Land Management, the Los Angeles Department of Water and Power, the Santa Clara Valley Water District, the San Francisco Public Utilities Commission, Pacific Gas and Electric, the Alameda County Flood District and Water Conservation, the City/County of San Francisco, the Napa County Flood Control District, and Vandenberg Air Force Base.

Key areas of experience include: photogrammetry, aerotriangulation, orthophotography, historical aerial photography interpretation, airborne LiDAR surveys, AutoCAD, MicroStation, and ArcGIS.

EMPLOYMENT HISTORY

Tetra Tech, Inc., Senior Project Manager, 12/08 - present

Hammon, Jensen, Wallen & Associates, Photogrammetrist, 9/86 – 11/08

RELEVANT EXPERIENCE

Grass Valley / Nevada City Area Mapping (2020)

Mr. Ashley managed a wide-area mapping of Grass Valley and Nevada City in the California Gold County. Tetra Tech commissioned the acquisition of digital imagery at 7.5cm with simultaneous capture of lidar at 10 pts/m² to support mapping at planimetric mapping 1"=100' and the generation of contours on a 1-ft interval of Grass Valley and Nevada City, CA. Total area for mapping was 29.62 square miles. Mapping was delivered in client specified tiles AutoCAD format. A ground class was extracted from the lidar data and supplemented by selected breaklines to create a surface in AutoCAD Civil 3D for the generation of the 1-ft contours. The photography was orthorectified, mosaicked, and delivered in the same tiling scheme as the mapping and classified lidar.

San Nicolas Island Mapping (2020)

Mr. Ashley managed the aerial LiDAR and digital aerial imagery surveys of San Nicolas Island, a US Navy facility 65 miles off the Southern California coast. Tetra Tech commissioned the acquisition of airborne LiDAR data at 8 points per square meter and 4-band digital photography at 5cm resolution of the whole of San Nicolas Island. The lidar was classified and used to create a digital elevation model (DEM) and a digital surface model (DSM). The imagery was the source material for RGB and CIR orthophotos and for the colorization of the lidar. The colorization of lidar proved valuable when the client requested that the vegetation class be stratified into four classes by height. **Size:** 22.5 sq. miles

EDUCATION

M.S., Civil Engineering (Surveying and Photogrammetry), University of California, Berkeley, 1984

B.A., Mathematics, University of Massachusetts, Amherst, 1972

AREAS OF EXPERTISE

Photogrammetry/LiDAR

Project Design

CADD Systems

Archival Photography Mapping

TRAINING/CERTIFICATIONS

Certified Photogrammetrist, ASPRS, #R1075

California Land Surveyor in Training, LSIT #4936

OFFICE LOCATION

Oakland, CA

YEARS OF EXPERIENCE

40

YEARS WITH FIRM

16

EXPERIENCE SUMMARY

Mr. Rizvi has 10+ years of experience in advanced remote sensing, systems calibration, and LiDAR flight data QA/QC. He has a technical focus in sensor systems integration, workflow automation, and unmanned platform development.

Mr. Rizvi's core competency has been LiDAR calibration, and at large aerial survey/remote sensing (systems, payloads, integration). Much of his time has been spent leading and training groups of calibrators on large scale LiDAR/Photogrammetry projects.

Mr. Rizvi has broad UAS/UGV experience with designing, building and deploying hardware, and processing unmanned data. Additionally, he has skills in terrestrial modeling, design, CAD, electrical transmission modeling, and automation/scripting.

CORPORATE PROJECT EXPERIENCE

Connecticut Department of Energy and Environmental Protection – Coastal Mapping Project. 2024

Performed Lidar Calibration and technical supervision for Whiteout Geospatial, in their effort to map the Connecticut Coastline using Helicopter mounted Topobathymetric lidar systems.

Washington Department of Transportation – Statewide Highway Infrastructure Mapping: 2023-2024

Performed GPS/GNSS processing and Calibration of Mobile Lidar data for WSDOT. Performed Image refinement and processing for pavement and spherical cameras.

NOAA NGS, Shoreline Mapping for the Coastal Mapping Project

Worked as a subcontractor for Fugro to assist on their NOAA NGS Florida shoreline mapping project. Performed the full calibration (line-to-line adjustment) workflow, including intra- and interswath checks for consistency.

UAS Calibration, 2023 – Present

Confidential Client, Priest River Idaho Survey, Idaho

Utilized UAS systems to re-fly and supplement larger airborne collects. Created workflows to resolve major IMU errors that would have otherwise resulted in a failure of spec.

EDUCATION

BS – Physics: Optics, Portland State University 2021

AREA OF EXPERTISE

- Lidar Calibration
- Bathymetric Lidar Systems
- GNSS inertial processing
- Sensor System Integration
- UAS/UGV Systems
- GIS

REGISTRATIONS/ CERTIFICATIONS

FAA Remote Pilot (Part 107)
(FAA – 3969662)

TRAINING

Beaverton Civilian Emergency Response: SAR 2014

Aviation Survival and Egress Training: 2014

Radiation Safety – Portland State University - 2012

OFFICE

Irvine, CA

YEARS OF EXPERIENCE

10

YEARS WITHIN FIRM

1

EXPERIENCE SUMMARY

Daira Brayley has over 4 years of experience working in the geospatial field, with a focus on topobathymetric data. Daira's responsibilities are centered around the production side of projects, she mostly works with topobathymetric light detection and ranging (LiDAR) editing, performing QC reviews, and creating final client deliverables. Daira has worked with a wide range of government contracts and contributed to more than a dozen topobathymetric projects. The majority of her projects are for government contracts and utilize the CZMIL SuperNova sensor. While Daira's professional experience has been exclusive to bathymetric LiDAR, during her academic studies, she traveled to Bhutan to conduct field research on her senior thesis, while simultaneously working with a research professor on mapping and digitizing community forest in Bhutan.

CORPORATE PROJECT EXPERIENCE

LiDAR Strategist, 2024

Brookfield Renewable US, LiDAR Data Acquisition and Processing for Topography and Boundary Survey for the Propose Black River, White River, and Black Scoter Solar Project, Jackson County Arkansas

LiDAR Strategist duties included processing the calibrated LiDAR data and creating the initial gross clean workflow, creating and testing batch macros to run over problem areas, manual editing of the data, performing QC reviews, and creating final deliverables for clients.

LiDAR Strategist, 2024

Atlas Energy, and Golden State Wind, Golden State Wind

The Golden State Wind project had two separate clients, with a significant amount of overlap between the two AOIs. The project covered approximately 10,547 square miles. Duties for the LiDAR Strategist consisted of editing the processed LiDAR point cloud and creating final deliverables for clients.

Bathymetric LiDAR Strategist, 2023

National Oceanic and Atmospheric Administration Office of Coastal Management (NOAA OCM), Whitefish Point to Bay Mills, MI in Eastern Lake Superior

Assisted with the workflow development for the team's first topobathy LiDAR project and working with the CZMIL SuperNova sensor. Topobathymetric LiDAR Strategist duties for this project included, but was not limited to, training bathymetric analysts, editing LiDAR data, performing QC reviews, creating final client deliverables, and writing and testing different macros. The project was commissioned by NOAA OCM in support of their analysis of bathymetric topography and underwater habitat in this region and covers roughly 162 square kilometers.

LiDAR Strategist, 2023

TerraGen, Joshua Tree

Assisted in automating sections of the workflow that involved LiDAR analysis, this involved running a batch macro over the LASD to move data to their correct classification, as well as creating a normalized Digital Surface Model (nDSM) that allowed for automated Euclidean Height measurements of Joshua Tree. The LiDAR Strategist also worked closely with the project manager during the pilot test area while comparing LiDAR collected trees with trees collected during field survey, additional and a best practices workflow was designed for future projects similar in nature.

EDUCATION

MS, Environment and Development, London School of Economics and Political Science, 2019

BA, Environmental Studies, and Political Science, Eckerd College, 2018

AREA OF EXPERTISE

Airborne Topobathymetric LiDAR

Airborne Topographic LiDAR

REGISTRATIONS/ CERTIFICATIONS

ASPRS Member

OFFICE

Denver, CO

YEARS OF EXPERIENCE

5

YEARS WITHIN FIRM

2



EXPERIENCE SUMMARY

Mr. Bienkowski is experienced with surveying involving Light Detection and Ranging (LiDAR) and hydrographic surveying specifically in the mobile mapping and UAV formats for LiDAR collection and processing. As a Land-Surveyor-in-Training, he is currently pursuing his Professional Surveying and Mapping License in Florida. He currently holds his Part 107 Remote Pilot License for UAV systems. His talents include records research, calculations, processing of field data, analysis, mapping and reporting, preparation of topographic and boundary surveys, legal descriptions, and sketches. Mr. Bienkowski is proficient using AutoCAD, MicroStation, CAiCE, Carlson, TopoDOT, RiPROCESS, RiSCAN PRO, Recap and many other 3D modeling software packages.

EMPLOYMENT HISTORY

- Tetra Tech, Inc., Mobile Mapping Survey Manager, 07/18 - present
- KCI Technologies, LiDAR Survey Practice Leader, 04/16 - 07/18
- Riegl Laser Measurement Systems, Terrestrial Lidar Manager, 05/12 - 04/16
- McKim & Creed, Mobile Mapping Project Surveyor, 04/11 - 05/16
- Atkins Global, Geomaticist I, 05/08 - 04/11

RELEVANT EXPERIENCE

Pinellas County Street Level Mobile LiDAR, Pinellas County, FL: Mr. Bienkowski is the project manager for the County-wide Mobile LiDAR collection for 1,800 center line miles of county roads. This data will then be used for the extraction of 108,000 building finish floor elevations and merged into the Tetra Tech FusionMap software for use in sea level rise analysis and hurricane preparations with the use of the FusionMap water inundation viewer.

Priest River UAS Topo Survey, Priest River, ID: Mr. Bienkowski was the Pilot In Command and Project Manager for a topographic survey and ortho image of a 50-acre site in Priest River, Idaho. The team used our heavy lift drone with our LiDAR and Imagery sensor to collect a complete site ortho photo along with LiDAR point cloud. From the point cloud and imagery, a bare earth surface model was generated and a final calibrated ortho imagery was delivered. This data will aid in the projects team to design a new community park along the riverfront.

Bad River UAS LiDAR Biannual Inspection, Ashland, WI: Mr. Bienkowski was the Pilot In Command and Project Manager for a multiyear continuing monitoring project for a portion of the Bad River outside of Ashland Wi. On a biannual basis the team uses precision LiDAR and imagery sensors on a heavy lift drone to fly the site and document the erosion of the river at the point of a meander bend. Each time the site is flown, and a bare earth surface is generated and then evaluated against the previous flights surface.

EDUCATION

B.S. Geomatics, University of Florida, 2008

AREAS OF EXPERTISE

- Mobile/ UAS LiDAR
- Project Design
- CADD Systems
- UAV Photography

TRAINING/CERTIFICATIONS

- Florida Land Surveyor in Training, LSIT
- FAA Part 107 Remote Pilot #3934223

OFFICE LOCATION

Tampa, FL

YEARS OF EXPERIENCE

16

YEARS WITH FIRM

5



EXPERIENCE SUMMARY

Brian Tennant has over 19 years of experience in photogrammetric mapping. AT Blue Mountain Aerial Mapping he went from starting as a stereo compiler to being the production manager, managing all mapping projects within the company or to subcontractors to be completed, with over 35 million acres of flight, and mapping projects completed throughout Pennsylvania, Ohio, and West Virginia. He then was one of the first to help start the aerial mapping firm 6 Guns, LLC. As an Aerial Mapping Manager, he is always looking out for the best interest of the client, putting the client’s interest first.

RELEVANT EXPERIENCE

UAS Landfill monitoring (2024). In collaboration with Tetra Tech SWE in Green Bay WI, Mr. Tennant has processed the UAS (unmanned aerial system) imagery for over a dozen landfill sites across 6 states in the northern Mid-West. The deliverables include an image derived point cloud, a Civil3D surface with two-foot contours, and an orthophoto. The turn-around time for the processing is around one to three days.

Stockpile mapping (2005-2023). In partnering with coal mines in Pennsylvania, West Virginia and Alabama. Mr. Tennant has processed the UAS imagery over stockpile sites. Mr. Tennant would produce an image derived point cloud, an AutoCAD drawing of the surface with two-foot contours and an orthophoto.

West Virginia 4 Counties Orthophoto (2023). As a contractor to the county assessors of West Virginia Mr. Tennant scheduled flights and produced 0.5’ resolution RGB orthoimagery to Monongalia, Wetzel, Harrison, and Ohio counties in the spring of 2023.

Pennsylvania Coal Mine Spring Orthophoto (2021, 2023) Partnered with the Pennsylvania Coal company and a Flight company to produce 0.25’ Resolution RGB orthoimagery for over 300,000 acres.

Navajo Nation Abandoned Uranium Mines, Aerial LiDAR and Imagery (2024). Mr., Tennant process ~50 square miles of Aerial LiDAR as part of the Tetra Tech Geomatics Team.

Mine Planimetrics and Orthophotography (2005-2023). Partnered with multiple Coal Mining companies to schedule spring flights that totaled just below 1 million acres of 0.25’ resolution RGB orthoimagery. And produce 100’ scale mapping in areas of interest.

EDUCATION

Clay-Battelle High School Graduate

AREA OF EXPERTISE

Photogrammetry, airborne LiDAR; Aerial triangulation, DTM generation, planimetric and topographic mapping, Orthorectification; Software packages including Inpho / Trimble, Terrasolid, GlobalMapper, Pix4dMapper, Civil3d

TRAINING/CERTIFICATIONS

Certified Photogrammetrist, ASPRS – #CP1653

UAS License- 4583360

OFFICE LOCATION

Morgantown, WV

YEARS OF EXPERIENCE

20

YEARS WITH FIRM

5 months

EXPERIENCE SUMMARY

Highly skilled in Geomatics, Survey, Remote Sensing, and Navigation data analysis and processing. Specialized in processing and classification of LiDAR point clouds and associated geospatial deliverables. Extensive experience in feature extraction and generating accurate digital terrain models for engineering and construction design. Proficient in Industry-standard software and tools, including TopoDOT, TerraSolid, ArcGIS, and CADD such as Civil3D and Microstation.

Exceptional problem-solving abilities and attention to detail, ensuring the highest quality data outputs at or above industry standards. Adept at collaborating with multidisciplinary teams and communicating complex technical concepts to both technical and non-technical stakeholders.

Committed to staying updated with the latest advancements in Lidar technology and the geospatial industry, harnessing it to deliver innovative solutions.

CORPORATE PROJECT EXPERIENCE

PG&E System Hardening: Topographic feature extraction of Mobile and Aerial LiDAR point clouds of roadway corridors and the surrounding areas. Point cloud classification and refinement for use of manual and automated extraction tools. QA/QC of technician extracted features and redlines for corrections. Digital Terrain Model creation and QC for engineering and direct client deliverables.

Development of more efficient processes to streamline future efforts in project. Trained technicians on tools and best practices to increase efficiency and quality of data.

WASHDot Mobile Mapping: QC and processing of raw mobile LiDAR data and imagery. Registration of point-clouds to survey trajectory and control points. Imagery processing and mounting for panoramic spherical images and point-cloud colorization.

PREVIOUS EXPERIENCE

Westwood Professional Services, Remote Sensing/Aerial Mapping Technician, 07/22 - 06/23

Aerial, UAV, and Terrestrial LiDAR Data QC and Feature extraction in the Energy distribution, Renewables, and Transportation sectors. Planimetric extraction of UAV imagery for Renewable energy construction planning. TopoDOT process design and extraction for engineering deliverables.

EDUCATION

B.Sc. Geophysical Engineering,
Minor in Geology and Remote
Sensing, Colorado School of Mines,
2013

AREA OF EXPERTISE

- Mobile/Aerial LiDAR
- Remote Sensing
- Planimetrics
- CADD Systems
- UAV Photogrammetry

REGISTRATIONS/ CERTIFICATIONS

Certified Mapping Technologist –
Remote Sensing, ASPRS (RST244)

CPR/FIRST AID Certified Through
Feb 2027

TRAINING

Custom AutoCAD Fundamentals,
CAD-1, August 2017

Preparation for ASPRS
Certification - General Knowledge,
ASPRS, September 2020

Preparation for ASPRS Certification
- LiDAR, ASPRS, September 2020

OFFICE

Denver, CO

YEARS OF EXPERIENCE

12

YEARS WITHIN FIRM

2

Mr. Guzman is a licensed surveyor with 26 years of experience providing office and field survey support for projects involving engineering, construction, and mapping for highways, utility infrastructure, airport runways, schools, water pipeline tunnels, dams, rivers, and lake improvements. He is experienced with preparation, agency submittal, and recordation of tract maps, parcel maps, final maps, Records of Surveys, tentative maps, corner records, lot mergers, lot line adjustments, ALTA documents, and public roadway abandonments. Mr. Guzman has managed and participated in various land survey activities including field surveying for municipalities, county, state, and federal agencies, and the armed services. His municipal experience includes providing map checking, public improvement plan check, and setting Engineering Conditions of Approval for proposed developments.

Education:

Math studies, California State at Fullerton, 1984-1989

Registrations/Certifications:

Professional Land Surveyor, California No. 8648, 2009

Office Location:

Irvine, CA

Total Years of Experience:

(06/1998) 26

Years with Tetra Tech:

(03/2023) 1

(Wastewater Bio)

Mr. Guzman has managed field crews in the construction of many sewer and storm drain facilities throughout his career, for conduit sizes ranging from 6-inch to 84-inch with appurtenances. He is also experienced in performing as-built surveys of wastewater facilities and preparing the required exhibits. His duties have also included providing calculations for construction staking. Types of structures germane to his experience include head walls, siphons, lift stations, grease interceptors, cleanouts, catch basins, inlets, channels, and infiltration systems.

EXPERIENCE

Water

Lankershim Boulevard and Oro Vista Avenue Local Area Urban Flow Management, City of Los Angeles, CA. 2022 – Ongoing. Survey Party Chief responsible for overseeing field crews and office staff related to topographic data collection, processing, and base sheet development. The project is currently in the preliminary design phase, and the project team is scoped to provide final design services. Tetra Tech is leading the segment along Oro Vista Avenue, while CDM Smith oversees the portion along Lankershim Boulevard with Tetra Tech's support on the topographic survey. The Oro Vista Avenue project area receives runoff from a tributary watershed of approximately 183 acres and lacks stormwater infrastructure. Runoff is conveyed as surface flow along primarily asphalt curbs and swales before discharging to Haines Canyon Channel at the north end of the project site. The project aims to infiltrate stormwater runoff to improve water quality and increase underground water supplies, provide community enhancements with the addition of greening elements, reduce flooding along the corridor with the installation of new piping and catch basin inlets, install new concrete curb and gutter, and construct new sidewalks to improve pedestrian accessibility throughout the corridor.

Supplemental Topographic Survey, Simms Park Regional Stormwater Capture, Lower San Gabriel River Watershed Management Group, Bellflower, CA. 2022. Survey Party Chief. Responsible for providing supplemental topography of Simms Park using conventional survey methods, for the design and construction of proposed stormwater capture improvements. Also provided drafting of site topography from collected survey data using AutoCAD Civil 3D.

Street Topography for Design and Construction of Waterline Infrastructure, Cities of Fullerton, Buena Park, and Orange, CA. 2020 – 2023. Project Surveyor. Managed various field crews in the collection of field topography and boundary data for the development of topographies for the design and construction of new water infrastructure in the Cities of Fullerton, Buena Park, and Orange. Mr. Guzman completed right-of-way and parcel mapping, along with reviewing and approving all deliverables.

Transportation

San Miguelito Road Easement Survey, County of Santa Barbara, Santa Barbara, CA. 2024. Project Surveyor. Responsible for overseeing the preparation of easement legal descriptions, plat and exhibit. This project was issued as a task order under an Indefinite Delivery-Indefinite Quantity (IDIQ) Survey contract with the County of Santa Barbara. The services provided are important to assist the County with its transportation project delivery goals, which are vital for meeting the Transportation Division's ongoing mission to provide a clear path, smooth ride, and a safe trip to the traveling public.

EXPERIENCE SUMMARY

Mr. Hacker specializes in production oversight for photogrammetry, feature extraction, stereo compilation, CADD standards, softcopy, and DTM generation. His professional background has been focused on production cartography and photogrammetry since 1978 with experience in stereo compilation, map data assembly and digital orthophotography. For the last 20 years, he has been directly responsible for the creation and support of digital mapping standards for several mapping firms. This has included writing collection macros, AutoLisp applications and scripting routines, as well as the day to day management of production department staff.

Key areas of experience include: photogrammetry, feature extraction, stereo compilation, CADD standards, softcopy, DTM generation, map data assembly, digital orthophotography, AutoLisp applications and scripting, and production management.

EMPLOYMENT HISTORY

Tetra Tech, Inc., Production Manager, 11/2008 – present

HJW & Associates, Photogrammetric Lead, 08/1993 – 11/2008

Towill, Inc., Photogrammetrist, 11/1985 – 08/1993

RELEVANT EXPERIENCE

St. Helena Hospital, St. Helena, California (2021). Large scale digital imagery was collected to support photogrammetric mapping of the hospital facility and environs. The assessment was done to review wildfire damage in the immediate area.

Pine Forest, Pacific Grove, California (2021). Photogrammetric mapping was produced from film-based imagery to support City staff in evaluating plans for redevelopment of a half-block section of urban land.

Clover Flat Landfill, Calistoga, California (2021). Using the VrTwo softcopy mapping system, an annual update of the active fill site is made using photogrammetric means. The resulting DEM is used to confirm calculated fill rates for the active landfill cells.

San Nicholas Island, Ventura County, California (2020). Digital aerial imagery was collected along with LiDAR data to create a digital elevation model (DEM) to support creation of a surface water runoff model.

U.S. Coast Guard Station Barbers Point, Honolulu, HA (2020). Using the VrTwo softcopy system, planimetric information was collected to support infrastructure upgrades in this aircraft operations facility. LiDAR derived contours were loaded into the VrTwo system for stereoscopic review and edit.

Lake Charles Carbon Company Volumes (Quarterly from 2013). Using photogrammetric means, Tetra Tech has provided our internal Tetra Tech client with volume calculations of stored coke arrayed across multiple sites in a Lake Charles, La. coke production facility.

Raw Water Lake, Corpus Christi, Texas (2017). Tetra Tech provided large scale topographic mapping to support other Tetra Tech colleagues' effort to repurpose a former aluminum smelting site into an LNG export facility. The focus of the work was to plan the dismantling an obsolete pond and model possible flood paths in case of a breach.

EDUCATION

B.S., Geography, University of California, Los Angeles, 1978

AREAS OF EXPERTISE

Photogrammetry, Stereo Compilation, DTM Generation, CADD Standards

TRAINING/CERTIFICATIONS

Certified Photogrammetrist, ASPRS – #R1057

OFFICE LOCATION

Oakland, Ca.

YEARS OF EXPERIENCE

43

YEARS WITH FIRM

12

JASON MAGGARD
Sensor Operator – CA Branch



JOINED KEYSTONE:

➔ June 2022

YEARS OF EXPERIENCE:

➔ 13 years

EDUCATION/ CERTIFICATIONS:

- ➔ Associate in Science – Hillsborough Community College in Tampa, 2009
- ➔ ABO-NCLE Certified, Board Certified Optician

SUMMARY:

Mr. Maggard is responsible for operating and monitoring aerial sensors during flight to collect data for various projects while adhering to all safety protocols and procedures. He performs pre-flight, in-flight and post-flight sensor equipment checks to ensure all systems are functioning properly. Mr. Maggard analyzes collected data and disseminates the checked data as well as accompanying reports to internal teams and clients. He collaborates with pilots to ensure accurate and efficient data collection while maintaining compliance with all aviation regulations. He maintains and troubleshoots sensor equipment as needed to minimize downtime and guarantee accurate data is captured. Mr. Maggard is proficient with Keystone’s UCFp, UCE, UCC, and Optech Galaxy sensors.

PROJECT EXPERIENCE:

PROJECT	STATES FLOWN	NUMBER OF MILES OR NUMBER OF SITES
Digital	CA, NV, NM, CO, AZ, OR, WA	Over 2,500 miles
Topo	CA, NV, NM, CO, AZ, OR, WA	Over 1,100 miles
LiDAR	CA, NV, NM, CO, AZ, OR, WA	Over 1,200 miles



JOHN SCHMITT, CP, GISP

President / Principal-in-Charge



JOINED KEYSTONE:

➔ 1987

YEARS OF EXPERIENCE:

➔ 37 years

EDUCATION/ CERTIFICATIONS:

- ➔ FAA Commercial/Single- & Multi-Engine/Land Certificate
- ➔ Certified Geographic Information Systems Professional (GISP) – 61839; 2009
- ➔ ASPRS Certified Photogrammetrist – 1389; 2014

SUMMARY:

Keystone's President and Principal-In-Charge, John Schmitt, began his 37-year career with Keystone Aerial Surveys as an aerial sensor operator and quickly became expertly skilled on the company's film cameras. John then attained his pilot's license and became proficient in all of Keystone's aircraft. During his career, John has flown hundreds of survey hours throughout the US and acquired thousands of flight hours on missions for oil, gas, engineering, mapping, federal, state and local government clients.

In 2001, John became Vice President and part owner of Keystone while continuing his professional development by successfully completing his Certified Geographic Information Systems Professional (GISP - 61839) and ASPRS Certified Photogrammetrist (CP - 1389) certifications. Additionally, John assumed a position of business development and built on customer's relationship through superior customer service skills while continuing to contract manage many of Keystone's largest projects. His many years of experience on the road and at home base as both a pilot and operator afforded him the ideal perspective to control an array of difficult items that go into coordinating large and complicated projects while balancing the needs of the customer with the constraints of flight crews, conditions and aircraft. John has estimated, flown and/or managed over 7,500 miles of transportation projects for the State Department of Transportation. He has also estimated, flown and/or managed collection of tens of thousands of images. In 2015, John assumed the role of President of Keystone. He is now primarily responsible for strategic planning and implementation.

PROJECT EXPERIENCE:

- ➔ USDA Stewardship Lands Imagery Digital – Ongoing since 2002
- ➔ USDA National Resource Inventory – Ongoing since 1998
- ➔ Statewide Imagery Acquisition in Alabama – Ongoing since 2019
- ➔ Statewide Imagery Acquisition in Maryland – Ongoing since 2018
- ➔ Aerial Digital Imagery Acquisition for PG&E – Ongoing since 2019
- ➔ Imagery Acquisition for the NCTCOG Project in Texas – Ongoing since 2018
- ➔ Texas Department of Transportation, TX – Ongoing since 2013



JOSE “OMAR” PANAGUITON
Aerial Survey Pilot – CA Branch



JOINED KEYSTONE:

➔ June 2018

YEARS OF EXPERIENCE:

➔ 10 years

EDUCATION/ CERTIFICATIONS:

- ➔ Bachelors, Radiologic Technologist – Iloilo Doctors’ College in the Philippines, 2010
- ➔ Associates, Professional Aeronautics – Miramar College in San Diego, 2017
- ➔ Commercial Pilot License SEL/MEL Rating- 3788691

SUMMARY:

Since joining Keystone Aerial Surveys in June 2018, Omar has been checked out in multiple types of aircraft from Single Engine Cessna 206 and 210 to multi engine aircraft such as the Piper Aztec, Piper Navajo, and Cessna 310. Omar has also flown a multitude of sensors, including: Vexcel UltraCams, Leica RC30, Leica ADS100, Leica CityMapper, and Teledyne Optech LiDAR systems. Currently, Omar is the full-time pilot for the Keystone California Branch. His duties include but are not limited to coordinating with ATC, preparing the aircraft for every flight, ensuring the aircraft scheduled maintenance are being followed, as well as lead each mission for the California Branch. Omar has over 3,200 hours of total flight time.

PROJECT EXPERIENCE:

PROJECT	STATES FLOWN	NUMBER OF MILES OR NUMBER OF SITES
Digital	CA, NV, NM, DE, ME, NY, NJ, PA, CT, and MA	Over 3,500 miles
Topo	CA, NV, NM, VT, ME, NY, NJ, PA, CT, and MA	Over 2,300 miles
LiDAR	CA, NV, NM, DE, ME, NY, NJ, PA, CT, and MA	Over 1,900 miles



Mr. Leon is a civil engineering design engineer and survey technician with experience on a wide variety of municipal, state, and federal projects. He is experienced in surveying, grading, hydrologic and hydraulic analysis, preparation of plans, cost estimating, permit process coordination, and engineering report writing. Mr. Leon is well versed in Autodesk's AutoCAD and Civil 3D design software.

EXPERIENCE

Stormwater and Water Systems

Lankershim Boulevard and Oro Vista Avenue Local Area Urban Flow Management, City of Los Angeles, CA. 2022 – Ongoing. Design Engineer and Surveyor. Responsible for providing an aerial control survey as well as supplemental topographic survey work including existing utility location used to develop a surface terrain implemented on the design of the project. Also responsible for plan production of plan and profile storm drainpipe design in which existing utility location/data was used to avoid horizontal and vertical crossings when feasible. This stormwater project includes two separate project areas in the City of Los Angeles and is funded by the Safe Clean Water Program. The project is currently in the preliminary design phase, and the project team is scoped to provide final design services. Tetra Tech is leading the segment along Oro Vista Avenue, while CDM Smith oversees the portion along Lankershim Boulevard with Tetra Tech's support on the topographic survey. The Oro Vista Avenue project area receives runoff from a tributary watershed of approximately 183 acres and lacks stormwater infrastructure. Runoff is conveyed as surface flow along primarily asphalt curbs and swales before discharging to Haines Canyon Channel at the north end of the project site. The project aims to infiltrate stormwater runoff to improve water quality and increase underground water supplies, provide community enhancements with the addition of greening elements, reduce flooding along the corridor with the installation of new piping and catch basin inlets, install new concrete curb and gutter, and construct new sidewalks to improve pedestrian accessibility throughout the corridor.

Surveying

Control Network Establishment, Boundary and As-built Survey, Naval Air Facility (NAF) El Centro, NAVFAC SW, El Centro, CA. 2019. Surveyor. Responsible for the establishment of new horizontal and vertical control monuments and new values to existing control monuments at NAF El Centro. New monuments were set at key locations to provide inter-visibility and convenience of location for future construction projects. The new and existing monuments were observed with Static GPS and digital level loops meeting Federal Geodetic Control Committee (FGCC) standards for establishment of horizontal and vertical control networks and level loops. The data was then post processed using Trimble Business Center, performing fully constrained horizontal and vertical adjustments. A report detailing the survey procedure, the coordinates of the new points, the considerations in the adjustment, and the errors in the network were prepared. A boundary survey of the current NAF boundary and an as-built survey of requested facilities within the base boundary was also performed and located in relation to the base control network. Deliverables included a Record of Survey Map, and Exhibit Maps showing the established control network and the surveyed site features in relation to the base boundary for NAVFAC SW.

Yuma SOF Hangar, Barge Design Solutions Inc, US Army Corps of Engineers. 2018 – 2020. Surveyor. Responsible for aerial control survey as well as supplemental topographic survey work including existing utility location used to develop a surface terrain implemented on the design of the project. The purpose of this task was to establish depths and locations of sewer infrastructure, control aerial topographic survey targets and collect runway surface information for improvements and additions to airfield and waste management infrastructure in support of Yuma Proving Grounds' expansion of its Military Freefall School.

Education:

BS, Civil Engineering, California State University Long Beach, 2012

Professional Registrations:

Engineer-in-Training (EIT), No. 172306, 11/2020

Professional Affiliations:

American Society of Civil Engineers (ASCE)

Office Location:

Irvine, CA

Total Years of Experience:

(2014) 9

Years with Tetra Tech:

(2016) 7

EXPERIENCE SUMMARY

Dr. Loecherbach's education is in geodesy and land surveying with emphasis in photogrammetry and adjustment theory. He has 30 years of professional experience in private photogrammetric practice in the U.S. plus five years at university level prior to that. He has been continuously involved in photogrammetry and remote sensing since 1985. Throughout his career he has been instrumental in implementing airborne GPS and INS technology, digital camera systems and other technologies into the mapping workflow. During this time he has managed the technical aspects of hundreds of projects for a wide range of customers. For daily production he developed software tools, established guidelines and streamlined production workflows. As Geomatics Director, he oversees all technical project specifications.

He has also taught classes on photogrammetry, digital image processing and remote sensing to graduate students and professionals and worked on the transitioning of graduate level teaching from analytical photogrammetry to digital photogrammetry and image processing.

RELEVANT EXPERIENCE

Prado Basin Aerial Imagery (2021). Tetra Tech collected 34 square miles of 4-band aerial imagery in the Prado Basin in Orange County. Imagery was acquired in 463 images at a quarter-foot resolution. The ground control survey was performed by Tetra Tech's survey team in San Luis Obispo. Mr. Loecherbach managed the project including aerial acquisition firm and survey team.

Amelia County VA (2024). Tetra Tech acquired 4-band aerial imagery and high density airborne LiDAR for a 1127 acre site in Amelia County in Virginia. Mr. Loecherbach managed the project and provided the data to the Glen Allen office of Tetra Tech. Deliverables included a DEM and a DSM at 1-foot grid spacing, an orthomosaic, and a surface in xml format.

UAS Landfill monitoring (2021, 2022, 2023, 2024). In collaboration with Tetra Tech SWE in Green Bay WI, Mr Loecherbach has processed the UAS (unmanned aerial system) imagery for over a dozen landfill sites across 6 states in the northern Mid-West. The deliverables include an image derived point cloud, a Civil3D surface with two-foot contours, and an orthophoto. The turn-around time for the processing is around one to three days.

USGS 3DEP Program, Montana (2023). As a subcontractor to Axis Geospatial, Mr. Loecherbach has managed the QC and processing of 5,500 square miles of LiDAR collected of the state of Montana for the USGS 3DEP program.

Marathon Pipeline (2023). Under contract with Marathon Petroleum, Tetra Tech acquired LiDAR data and aerial imagery along a 1,280 mile long and 400 foot wide corridor across 5 states. Mr. Loecherbach managed the LiDAR point cloud processing and derived products and processed the orthoimagery.

EDUCATION

Ph.D., Photogrammetry, Institute of Photogrammetry, University of Bonn, Germany, 1998

M.S., Geodesy and Land Surveying, University of Bonn, Germany, 1990

AREA OF EXPERTISE

Photogrammetry, airborne LiDAR, Mobile Mapping; Aerial triangulation, DTM generation, planimetric and topographic mapping, Orthorectification, GIS; Software packages including Inpho / Trimble, Terrasolid, LP360, ESRI, GlobalMapper, Pix4dMapper, Civil3d

TRAINING/CERTIFICATIONS

Certified Photogrammetrist, ASPRS – #R1306 (certified in 2006, expires Aug 31, 2026)

GIS and Remote Sensing course work, San Francisco State University, 2000

OFFICE LOCATION

CES Oakland, CA

YEARS OF EXPERIENCE

30

YEARS WITH FIRM

16

EXPERIENCE SUMMARY

Shawn Wilson is a Certified Lidar Scientist and Lidar Project Manager focusing on mobile mapping and UAV remote sensing. Shawn brings 19 years of experience in geomatics and engineering for public utilities and government related projects. He has managed and directed the utilization of remote sensing, scanning, imaging and 3D modeling projects for public and private firms. Also, he has been a guest lecturer at the University of Washington in the Engineering program showing the evolution of GPS systems and 3D scanning. Shawn's experience includes Lidar from terrestrial, mobile, aerial and drone platforms, data collection and management, boundary resolution, control transformations and construction calculations. He has managed the development of deliverables in GIS, Civil3D, Microstation and PLS-CADD formats. He graduated from Western Washington University and has a certificate from Stanford University. Shawn also is a FAA Certified UAS Remote Pilot and has participated in NASA's ARSET program training.

RELEVANT EXPERIENCE

Washington State Department of Transportation Enterprise Mobile Lidar; Washington State (2023-present). Led collection, post processing, deliverable generation and project management of survey grade mobile mapping data on nearly 16,700 centerline miles of full right-of-way data. Data was delivered in a in-house built custom software for the client to visualize the data based on their LRS network.

System Hardening Utility Planimetric Mapping; California State Wide (2022-present). Led processing, deliverable generation and project management of the development of Civil3D and Microstation deliverables of 300+ miles of right-of-way. Design grade planimetric and surfaces were performed with accelerated deadlines. Custom algorithms were developed to aid in the identification of individual trees within highly vegetated areas.

Golden State Wind; California Coast (2024). Led processing, deliverable generation and project management of the developnet of a Digital Elevation Model and Digital Surface Model of 3,400 square miles of the California coast.

Leading Light Wind; New Jersey Coast (2023). Led processing, deliverable generation and project management of the developnet of a Digital Elevation Model and Digital Surface Model of 500 square miles of the New Jersey coast.

Burma Road; Kodiak Island, AK (2023). Led processing, deliverable generation and project management of the developnet of a orthophoto, planimetric map, digital elevation model and digital surface model on Kodiak Island in Alaska.

EDUCATION

B.A., Anthropology, Western Washington University, 2006

Professional Certificate: Advanced Project Management, Stanford University, 2011

AREA OF EXPERTISE

Lidar Acquisition, Imagery Acquisition, Remote Sensing Data Post Processing, Operations Management, Remote Sensing Sensor Integration, Planimetric Mapping and Extraction

TRAINING/CERTIFICATIONS

ASPRS Certified Mapping Scientist: Lidar #L061

Expires: 01/2026

FAA UAS Remote Pilot #4660132

OFFICE LOCATION

CES Bothell, WA

YEARS OF EXPERIENCE

19

YEARS WITH FIRM

7



**ORANGE COUNTY WATER DISTRICT
18700 Ward Street
Fountain Valley, California 92708**

**ADDENDUM NO. 1
REQUEST FOR PROPOSALS (RFP-24-018)
PRADO BASIN MULTISPECTRAL AERIAL IMAGERY AND LiDAR
4/8/2025**

This addendum serves as written notice of the following corrections, clarifications, additions and/or deletions to any and all copies of the Request for Proposals for Prado Basin Multispectral Aerial Imagery and LiDAR for OCWD.

The proposer shall execute the acknowledgment form at the end of this addendum and shall attach it to the proposal submitted.

1. Q&A Table

- a. Please refer to Attachment A-1 of this Addendum No.1 for the QA Table.

ATTACHMENT A-1

Q & A Table

No.	QUESTIONS	ANSWERS
1	Can you provide the project boundary in shp or kmz format?	Yes, the kmz format of the project boundary shall be provided upon email request to Procurement@ocwd.com.
2	The RFP asks for a 13 degree scan angle (26 degree FOV) and an overlap of 50%. With modern lidar sensors, especially with a spinning mirror, all project requirements for accuracy and density can easily be exceeded with a higher FOV of 36 degrees and a reduced overlap of ~30%. A FOV of 26 degrees could double the acquisition cost. Are these hard requirements.	This is not a hard requirement . As long as the accuracy and precision are kept, we are fine with the proposed alternative.

END OF ADDENDUM

MANDATORY FORM

ACKNOWLEDGE RECEIPT OF ADDENDUM NO. 1

**REQUEST FOR PROPOSAL
PRADO BASIN MULTISPECTRAL AERIAL IMAGERY AND LiDAR
(RFP-24-018)**

4/8/25

Proposer shall acknowledge receipt of this addendum by detaching, signing and attaching to his/her proposal, one (1) copy of this sheet.

I, Thomas Loecherbach, Tetra Tech

Name of Proposer, Company Name

1999 Harrison Street, Suite 500, Oakland CA 94612

Address, City, State, Zip

Hereby acknowledge receipt of Addendum No. 1 to the **Request for Proposal (RFP-24-018) Prado Basin Multispectral Aerial Imagery and LiDAR** and have considered these revisions in the preparation of my proposal. This addendum, consisting of this acknowledgement, shall become a part of any contract made pursuant thereto.



Proposer's Signature

Thomas Loecherbach

Printed Proposer's Name

4/14/2025

Date



**ORANGE COUNTY WATER DISTRICT
18700 Ward Street
Fountain Valley, California 92708**

**ADDENDUM NO. 2
REQUEST FOR PROPOSALS (RFP-24-018)
PRADO BASIN MULTISPECTRAL AERIAL IMAGERY AND LiDAR
4/10/2025**

This addendum serves as written notice of the following corrections, clarifications, additions and/or deletions to any and all copies of the Request for Proposals for Prado Basin Multispectral Aerial Imagery and LiDAR for OCWD.

The proposer shall execute the acknowledgment form at the end of this addendum and shall attach it to the proposal submitted.

- 1. Q&A Table**
 - a. Please refer to Attachment A-1 of this Addendum No.2 for the QA Table.

- 2. Revised Request for Proposals (RFP) Submittal Checklist**
 - a. Please refer to Attachment A-2 of this Addendum No. 2 for the revised RFP Submittal checklist.

ATTACHMENT A-1

Q & A Table

RFP-24-018
RFP for Prado Basin Multispectral Aerial Imagery and LIDAR
QA Table
4/10/2025

No.	QUESTIONS	ANSWERS
1	Can you provide the project boundary in shp or kmz format?	Yes, the kmz format of the project boundary shall be provided upon email request to Procurement@ocwd.com.
2	The RFP asks for a 13 degree scan angle (26 degree FOV) and an overlap of 50%. With modern lidar sensors, especially with a spinning mirror, all project requirements for accuracy and density can easily be exceeded with a higher FOV of 36 degrees and a reduced overlap of ~30%. A FOV of 26 degrees could double the acquisition cost. Are these hard requirements.	This is not a hard requirement . As long as the accuracy and precision are kept, we are fine with the proposed alternative.
3	Are the following checklist items required with this submittal? 6 Independence 7 License to Practice 12 Prior Engagements with the District 13 Identification of Anticipated Potential Audit Problems If so, can the County provide any more details on what they would need to see in the proposal?	No, please see the following revised RFP Submittal Checklist.
4	Can the District confirm that aerial photography must conform to 1995 ASPRS Draft Aerial Photography Standard?	As long as the District has an accurate representation of the horizontal and vertical accuracy (as it relates to the orthorectification process) of the resultant orthoimage, and it conforms to the ASPRS accuracy standards represented per ASPRS (2024), the District is fine with the deviation from the 1995 ASPRS Draft Aerial Photography Standard specifically (as it is addressed in the proposed product). The horizontal accuracy should be documented and explained if it is above normal tolerances (above 10"). If a decrease in horizontal accuracy is needed to make the flight cost-effective, then it should be noted. Ideally, the horizontal accuracy of the image should be 6", but again, this should be documented with an explanation as to why the horizontal offset is what it will be.

ATTACHMENT A-2
REVISED REQUEST FOR PROPOSALS (RFP)
SUBMITTAL CHECKLIST

Request for Proposals (RFP) Submittal Checklist

The following submittals shall be completed and submitted with each Proposal package (see table below for the “Required Submittal Checklist.”). This table has been provided as a convenience for proposers to use as a reference only. Ultimately, it is the Proposer’s sole responsibility to ensure that their proposal complies with all requirements of the RFP and all the required submittals are included in the Proposal package before it is formally submitted to OCWD. Proposals may be deemed nonresponsive if they do not respond to all areas specified in the RFP.

Item No.	Required Submittal Checklist	Check (√)
1	Signed Proposal package including:	
2	Title Page	
3	Cover Letter	
4	Table of Contents	
5	Experience and Record of Past Performance	
6	Project Team and Qualifications	
7	Project Overview and Approach	
8	Additional Services	
9	Price Proposal	
10	Statement of Insurance Compliance A statement accepting the requirements stated in Section 6.9 of the RFP.	
11	OCWD Standard Agreement: <ul style="list-style-type: none"> • A statement accepting the requirements stated in Section 6.10 of the RFP. 	
12	Billing <ul style="list-style-type: none"> • A statement accepting the requirements stated in Section 6 of the RFP. 	
13	Conflict of Interest	
14	Addenda Acknowledgement Forms (if applicable)	

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: P. Bouyounes/S. Dosier

Budgeted: N/A

Budgeted Amount: N/A

Cost Estimate: N/A

Funding Source: N/A

Program/Line-Item No.: N/A

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: AUTHORIZATION TO ENTER INTO A MEMORANDUM OF UNDERSTANDING (MOU) WITH THE COUNTY OF ORANGE FOR THE CONTINUED USE OF THE COUNTY'S ALERTOC

SUMMARY

The County of Orange renewed the Mass Notification contract with Everbridge to continue providing service for AlertOC. Along with the renewal, it is necessary to renew the Memorandum of Understanding (MOU) between the County of Orange and agencies with access to the system. This Mou will allow the District to continue using the County's Mass Notification System, AlertOC. The District may participate in the countywide System at no charge when used for emergency purposes until December 30, 2029.

Attachments:

- Memorandum of Understanding between Orange County Water District and the County of Orange
- County of Orange and Orange County Operational Area Countywide Public Mass Notification System Operating Guidelines.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Authorize the General Manager to sign the Memorandum of Understanding (MOU) between the Orange County Water District and the County of Orange for the continued use of the County's Mass Notification System, AlertOC, administered through Everbridge, Inc.

BACKGROUND INFORMATION

AlertOC has been used since its inception in 2008 to contact hundreds of thousands of Orange County residents in times of emergency. Public safety agencies have employed AlertOC for a wide range of notifications, including missing children reports, wildland fire events, severe

weather warnings, post-disaster instructions, and evacuation orders.

On June 18, 2013, the Board approved a Memorandum of Understanding with Orange County incorporated cities, public universities and water/wastewater special districts allowing their use of the County's Countywide Mass Notification System under the terms and conditions of the Operating Guidelines and agreements. Over the past 12 years, the MOU has been updated every four (4) years, requiring agencies to sign each new version.

To participate, a water/wastewater special district needs to sign a Memorandum of Understanding (MOU) with the County and attend training on the use of the system. Since the County is sponsoring this program, there is no cost to Orange County Water District to use the system.

In partnership with the County of Orange, the Water Emergency Response Organization of Orange County (WEROC), serving as the Operational Area Water and Wastewater Mutual Aid Coordinator, is supporting the County in the implementation of Memorandums of Understanding (MOUs) with all water and wastewater special districts electing to use the AlertOC notification system. WEROC's role includes the following responsibilities:

- Providing oversight of the MOUs and maintaining a record of participating agencies.
- Monitoring the execution status of each MOU.
- Facilitating the execution of end-user agreements for individual system users.
- Ensuring system training is delivered to designated users.
- Delivering training on the coordination process as outlined in the AlertOC Policy and Standard Operating Procedure (SOP).
- Maintaining universal communication templates for water and wastewater agencies that comply with state and federal regulatory language requirements (e.g., "Do Not Use" advisories).

This collaborative effort ensures consistent and coordinated emergency communication across the region's water and wastewater agencies.

If County funding of the System becomes unavailable, participants will be given a six-month advance notice per the termination terms outlined in Paragraph VIII of the MOU.

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: M. Patel/R. Bouley/A. Perry

Budgeted: No

Proposed Budget: \$500,000

Cost Estimate: \$500,000

Funding Source: R&R

Program/Line Item No.: R22011

General Counsel Approval: Yes

Engineers Report: N/A

CEQA Compliance: N/A

**Subject: AWARD CONTRACT NO. GWRS-2025-1 REVERSE OSMOSIS CIP
VALVE RELOCATION TO MURRAY COMPANY**

SUMMARY

A total of five construction bids were received on April 8, 2025, for the Reverse Osmosis Clean-In-Place (CIP) Valve Relocation Project, Contract GWRS-2025-1. Based on a review of the bids received, staff recommend awarding a contract to Murray Company in the amount of \$340,885 and establishing a total project budget of \$500,000.

Attachment: Affidavit of Publication for Notice Inviting Bids for Contract GWRS-2025-1

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting:

1. Receive and file Affidavit of Publication of Notice Inviting Bids for Contract GWRS-2025-1 Reverse Osmosis CIP Valve Relocation Project;
2. Ratify issuance of Addendum No. 1 to provide responses to potential bidder's questions; and
3. Accept bid and award contract GWRS-2025-1 to the lowest responsive bid and responsible bidder, Murray Company, in the amount of \$340,885; and
4. Establish the Reverse Osmosis CIP Valve Relocation Project budget in the amount of \$500,000.

BACKGROUND/ANALYSIS

During construction of the GWRS Final Expansion (GWRSFE), fifteen inter-stage booster pumps were installed on the existing finished floor grating for the original fifteen GWRS Reverse Osmosis (RO) treatment units. Upon completion of the GWRSFE construction project and the pumps were in operation, staff realized that the location of three of the fifteen new pumps interfered with Operations staff's ability to safely open and close three valves on the CIP lines that feed cleaning solution to the RO units. Staff

examined the system and determined that relocating the valves to be operated from the ground floor of the RO building is much safer, instead of having to enter the basement and navigate around several large pipes to access the valves directly. In addition, staff had already realized that some of the original PVC piping for the CIP system was starting to fail and had established a project to replace the failing piping with stainless steel piping that has a much longer lifespan. There is an opportunity to add the costs of relocating these valves to existing budgeted CIP PVC Piping System Replacement project, R22011, to minimize additional costs that would come later if the two projects were kept separate.

Due to their familiarity with the project, staff contacted Black and Veatch for a proposal to develop plans and specifications to relocate the valves. Black and Veatch recently completed design of the GWRS Final Expansion and was able to produce construction plans and specifications for the valve relocations under their existing GWRS Final Expansion agreement with OCWD since there is sufficient remaining balance.

Five construction bids were received on April 8, 2025, for contract GWRS-2025-1. The bid advertisement period commenced February 26, 2025, and spanned 41 calendar days. Addendum No. 1 was issued March 27, 2025, to provide responses to potential bidder's questions.

A summary of the five bids is shown below in Table 1.

Table 1: RO CIP Valve Relocation Bid Summary

Contractor	Bid Amount
Murray Company	\$340,885
Estate Design & Construction	\$350,000
Innovative Construction Solutions	\$363,800
Vicon Enterprise	\$365,500
MMC, Inc.	\$420,000

Staff reviewed the bid of Murray Company and confirmed that its contractor's license is current, active, and in good standing with the State of California.

The CIP Valve Relocation Project was added to the currently budgeted CIP PVC Piping System Replacement Project. The project budget for the valve relocation portion of the project is summarized in Table 2.

Table 2: RO CIP Valve Relocation Budget Summary

Description	Budget
Design	
Black and Veatch	\$49,150
Design Subtotal	\$49,150
Construction	
Contract GWRS-2025-1	\$340,885
Permits and Advertisement Costs	\$50,000
Staff Expenses	\$40,000
Construction Subtotal	\$430,885
Project Contingency	\$19,965
Total Project Budget	\$500,000

Construction is anticipated to take approximately two weeks at each location. Work will be completed in a manner that will not interrupt any planned RO membrane cleaning events. Table 3 shows the overall project schedule summary.

Table 3: RO CIP Valve Relocation Schedule

Description	Completion Date
Design	October 2024
Advertise for Bids	February 2025
Bid Opening	April 2025
Construction	Fall 2025

Staff recommends establishing a project budget of \$500,000 and awarding the construction contract to Murray Company as the lowest responsive bidder in the amount of \$340,885 for Contract No. GWRS-2025-1, Reverse Osmosis CIP Valve Relocation Project.

PRIOR RELEVANT BOARD ACTION(S)

11/14/24, R24-11-145: Authorizing Publication of Notice Inviting Bids for Contract No. GWRS-2024-1, Reverse Osmosis CIP Valve Relocation Project

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: M. Patel

Budgeted: Yes

Budget Amount: NA

Cost Estimate: NA

Funding Source: General Fund

Program/Line Item No.: 1050.54505

General Counsel Approval: Yes

CEQA Compliance: N/A

Engineers/Feasibility Report: No

**Subject: AWARD DIRECT ACCESS ELECTRICITY CONTRACT FOR
GROUNDWATER REPLENISHMENT SYSTEM, BURRIS PUMP STATION,
AND GREEN ACRES PROJECT SANTA ANA RESERVOIR**

SUMMARY

Electricity to the district's Fountain Valley campus, Burris Pump Station, and Green Aces Project (GAP) Santa Ana Reservoir facilities are provided through a Direct Access (DA) agreement with Constellation New Energy (CNE). The Fountain Valley campus electricity requirements make up the majority of the district's demand and include the Groundwater Replenishment System (GWRS) Advanced Water Purification Facility (AWPF), GAP treatment plant, Advanced Water Quality Assurance Laboratory, and district administration buildings. The current DA agreement with CNE will expire on June 30, 2025 so a request for proposals (RFP) document was issued and based on proposals received staff is requesting issuance of a contract to obtain pricing from DA energy service providers.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board Meeting: Authorize the general manager in consultation with the board president to enter into a five year contract ending June 30, 2030 for Direct Access electricity procurement with Constellation New Energy, NRG/Direct Energy or Shell Energy for the OCWD Kiwi Substation, Burris Pump Station, and Green Acres Project Santa Ana Reservoir on May 21, 2025.

DISCUSSION/ANALYSIS

The District has an existing five year contract with Constellation New Energy (CNE) to provide electricity (power) to three separate OCWD facilities through a DA agreement. This contract is due to expire at the end of June 2025. In order to ensure electricity service is not interrupted and pricing is known, a renewal of the DA electric service contract is now required. On April 2, 2025 the board approved the issuance of a request for proposals to seek renewal pricing for DA electricity service.

DA is a retail electric service where customers purchase electricity from a competitive provider called an Electric Service Provider (ESP), instead of from a regulated electric

utility such as Southern California Edison (SCE). With DA electric service the transmission and distribution of the electricity occurs over SCE infrastructure. This means that OCWD receives billings from the DA ESP for electricity used as well as billings from SCE to cover the cost of transmitting the electricity.

The advantage of procuring electricity through a DA provider is the ability to take advantage of market pricing, on and off-peak real time pricing, and the ability to obtain a fixed unit cost of electricity. The district has been on a DA contract to provide power to the Fountain Valley campus (where the majority of the electrical usage is for the GWRS AWPf) since January 2013. DA electric service to the Santa Ana Reservoir began in 2015 and to the Burris Pump Station in January 2025. Staff feels the enrollment in DA has provided a savings over bundled service from SCE and will protect the district from electricity market uncertainty going forward. The electricity market in California is volatile due to numerous reasons including electrical grid stress in times of high usage, California goals for renewable energy, and the slower than anticipated rollout of renewable energy facilities (including large scale battery storage capacity to offset solar energy loss periods). In addition, electricity pricing has increased significantly from both SCE and DA providers due to fees approved through the California Public Utilities Commission that ensure standby electricity capacity and investment in renewable energy is in place by ESPs. These fees are known as Resource Adequacy (RA) and Renewable Portfolio Standards (RPS).

In order to leverage the total electricity demand of all three district facilities currently supplied with electricity service through DA an RFP was developed that requests one fixed price to supply these facilities. As a result of the RFP, pricing proposals were received from three entities: Constellation New Energy (CNE), NRG/Direct Energy, and Shell Energy. Since electricity is procured on the commodities market, prices are quoted daily and the pricing below was received on May 6, 2025.

	NRG/Direct Energy	Shell Energy	Constellation New Energy
5-Year Average Load Following Price (\$/MWH)	\$53.308	\$53.175	\$49.674
Resource Adequacy (RA) (\$/MWH)	\$11.174	\$21.295	\$19.440
Reliable Portfolio Standard (RPS) (\$/MWH)	\$15.064	\$17.540	\$17.470
Line Losses/Congestion (\$/MWH)	\$2.590		\$0.638
Retail Adder Fee (\$/MWH)	\$1.500		\$1.158
Other Fees (\$/MWH)	\$5.226		\$4.212

Total Cost			
------------	--	--	--

As of May 6, 2025 NRG/Direct Energy and Constellation New Energy were offering the lowest overall average price of a five-year period from July 2025 to June 3030. Staff is requesting authorization for the general manager, in consultation with the board president, to enter into a contract with Constellation New Energy, NRG/Direct Energy or Shell Energy. This will allow staff to seek up to date pricing all the way to the full board approval date of May 21, 2025 to seek a direct access contract renewal since electricity commodity pricing changes daily. The electricity cost procured from a direct access electricity provider is based upon market commodity prices on the day a contract is signed, which is anticipated to be on May 22, 2025.

PRIOR RELEVANT BOARD ACTIONS

May 22, 2013, R13-5-57 B: Amendment to Shell Energy North America Energy America Energy Sales Agreement & Solicit Proposals for Purchase of Direct Access Electricity for GWRS

August 28, 2001, R01-8-127: 45 Day Power Contract with AES New Energy

AGENDA ITEM SUBMITTAL

Meeting Date: May 14, 2025

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: A. Hutchinson/A. Waite/
L. Haney

Budgeted: Yes

Budgeted Amount: \$75,000 (FY25-26)

Cost Estimate: \$75,000

Funding Source: General Fund

Program/Line Item No. 1044.53001

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: RESULTS OF RIVERBED FILTRATION SYSTEM DEMONSTRATION PROJECT AND AUTHORIZATION TO ISSUE REQUEST FOR PROPOSALS FOR FEASIBILITY STUDY (Resilience Plan Priority Project No. 11)

SUMMARY

Clogging caused by the accumulation of suspended solids is a key constraint limiting the capacity of OCWD's recharge facilities. To take advantage of the natural filtration properties of Santa Ana riverbed sediments, a Riverbed Filtration System (RFS) was constructed and tested from 2015 to 2023. The RFS was effective in removing 96 percent of the suspended solids from the Santa Ana water, which resulted in a doubling of the recharge capacity of Olive Basin. Given the potential to increase OCWD's recharge capacity, staff recommends issuing a Request for Proposals to study the feasibility of expanding the RFS.

Attachments:

- Presentation
- Final Project Report
- Draft Requests for Proposals for the Riverbed Filtration System Feasibility Study

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Authorize issuance of Request for Proposals for the Riverbed Filtration System Feasibility Study.

BACKGROUND/ANALYSIS

Clogging due to the accumulation of suspended solids is a constraint that limits the capacity of the OCWD's surface water recharge system. To examine methods that could be employed to decrease clogging and increase system capacity, OCWD conducted a multi-year Recharge Water Sediment Removal Feasibility Study which was completed in 2010. This study found, based on extensive pilot testing of multiple

methods designed to remove suspended solids from Santa Ana River (SAR) water and the resultant impact on recharge, that Riverbed Filtration, which is a variation of Riverbank Filtration, was shown to be highly effective in removing total suspended solids (TSS) and increasing recharge rates. As a result, in 2013, OCWD constructed a large-scale demonstration Riverbed Filtration System (RFS) in the Off-River Channel that covers approximately 10 acres and produces up to 20 cubic feet per second (cfs) of treated water using gravity flow. The treated water is conveyed to Olive Basin which had historically received untreated SAR water. Figure 1 shows the location of the demonstration RFS.

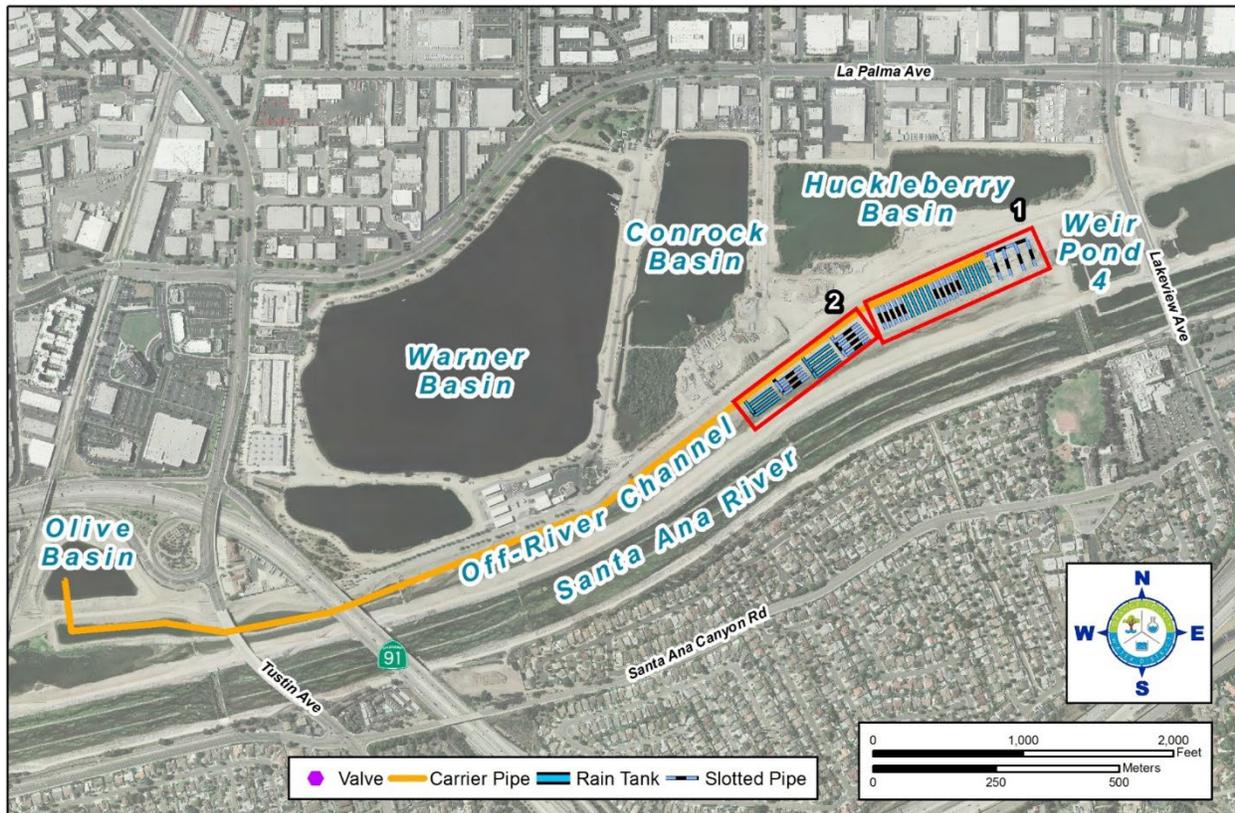


Figure 1: Location of Demonstration Riverbed Filtration System

Extensive data collection and testing of the RFS was conducted from 2015 to 2023. The scope of testing included measuring the capacity of the RFS using different types of subsurface collection-system materials, measuring the impact on recharge rates in Olive Basin, and measuring reductions in TSS concentrations and other water quality parameters. In summary, the RFS removed an average of 96 percent of the TSS in SAR water and more than doubled the recharge capacity of Olive Basin. The increased recharge capacity of Olive Basin is consistent with increases seen in other recharge basins receiving low TSS imported water and highly treated recycled water produced by the Groundwater Replenishment System. A final project report documenting the results of testing is attached.

The demonstration test results show that the RFS has the potential to increase recharge system capacity, particularly within the Terminal Recharge Basins, which is a series of

eight shallow and deep recharge basins starting at Warner Basin and extending to Raymond Basin. These basins are particularly prone to clogging because suspended solids accumulate on the recharge surface in the placid waters of the basins. Simulations conducted with OCWD's Recharge Facilities Model suggest that supplying the Terminal Recharge Basins with water from an expanded RFS could provide an average of 8,000 to 10,000 acre-feet per year of additional recharge of SAR water that would otherwise be lost to the ocean.

Given the significant potential for increased recharge and capturing water that would otherwise be lost to the ocean, staff is recommending that a feasibility be conducted to evaluate the appropriate size, location, and costs of a full-scale RFS. This would include an analysis of using gravity, pumping, or some combination to draw water out of the RFS and convey it to the Terminal Recharge Basins. With this information, a more detailed cost/benefit analysis can be conducted to assess the viability of further expanding the RFS.

This effort is part of OCWD's Resilience Plan Priority Project No. 11, Desilting Satna Ana River Flows.

Staff recommend issuing a Request for Proposals for the Riverbed Filtration System Feasibility Study.

PRIOR RELEVANT BOARD ACTION(S) N/A

2/19/25, R25-2-19 – Receive and File OCWD Resilience Plan and Authorize Filing of a Notice of Exemption

4/15/15, R15-4-46 - Ratify issuance of the following Change Orders 1-4 to Mike Bubalo Construction, Co.; Change Order 1 for \$6,260; Change Order 2 for \$3,836; Change Order 3 for \$70,485; and Change Order 4 for a no cost time extension; and Accept completion of work and authorize filing of Notice of Completion for Contract No. SAR-2013-1, Riverbed Filtration Desilting Demonstration Project.

5/22/13, R13-5-55 – Receive and file Affidavit of Publication of Notice Inviting Bids for Contract No. SAR-2013-1: Riverbed Filtration Desilting Demonstration Project; and ratify issuance of Addendum No. 1; and accept lowest responsive bid of Mike Bubalo Construction Co.; and authorize execution of Agreement with Mike Bubalo Construction Co. for Contract No. SAR-2013-1: Riverbed Filtration Desilting Demonstration Project

3/20/13, R13-3-26 - Authorize issuance of Amendment No. 1 to Agreement No. 836 with RMC Water and Environment for an amount not to exceed \$14,970 for an amended total of \$73,762; and authorize publication of Notice Inviting Bids for Contract No. SAR-2013-1: Riverbed Filtration Desilting Demonstration Project

9/12/12, R12-9-00: Contract No. SAR-2010-2: Cloth Filter Desilting Demonstration Project – Notice of Completion (4-CON Engineers, Inc.).

5/16/12, R12-5-50 - Authorize execution of Agreement to RMC in the amount of \$58,792 for design of the Riverbed Filtration Desilting Demonstration Project

3/21/12, M12-43 - Issue Request for Proposals for the design of the Riverbed Filtration component of the Desilting Demonstration Project

9/21/11, R11-9-139: Receive and file Affidavit of Publication of Notice Inviting Bids for Contract No. SAR-2010-2, Cloth Filter Desilting Demonstration Project, ratify issuance of Addendum Nos. 1 and 2, and accept bid, and accept withdrawal of SCW bid without penalty, and award contract to 4-Con Engineering, Inc. for an amount not to exceed \$989,406; and Authorize issuance of Amendment No. 2 to Agreement No. 0679 with Mead & Hunt for design of the Cloth Filter Desilting Demonstration Project for an amount not to exceed \$32,248 for an amended total of \$76,803; and Authorize issuance of Agreement with Ninyo & Moore for geotechnical testing services during construction of the Cloth Filter Desilting Demonstration Project for an amount not to exceed \$24,290; and Revise Cloth Filter Desilting Demonstration Project budget.

4/21/10, R10-4-61 - Authorize the Desilting Demonstration Project; authorize the project budget in the amount of \$1,570,000; and Authorize issuance of the Request for Proposals for Design of Cloth Filter component of Desilting Demonstration Project

4/16/08, R08-4-64 - Issue Professional Services Agreement to HDR Engineering for an amount not to exceed \$428,500 for preparation of a Feasibility Study on the removal of sediment from Santa Ana River water.

Backup materials for Committee items are available in the Committee packet.
Materials distributed at Committee meetings are attached hereto

AGENDA ITEM SUBMITTAL

Meeting Date: May 15, 2025

To: Administration/Finance Issues Cte.
Board of Directors

From: John Kennedy

Staff Contact: R. Fick/D. Miller

Budgeted: N/A

Budgeted Amount: N/A

Cost Estimate: N/A

Funding Source: N/A

Program/Line-Item No.: N/A

General Counsel Approval: N/A

Engineers Report: N/A

CEQA Compliance: N/A

Subject: **MONTHLY CASH CONTROL REPORTS**

SUMMARY

The following monthly financial information is provided in the staff report.

Attachments:

- Summary Cash and Cash Equivalent Control Reports
- Summary of Reserves
- Summary Sources and Disbursements
- Sources of Funds
- Disbursement of Funds

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Receive and file Summary Cash and Cash Equivalents Control Reports dated April 30, 2025.

PRIOR RELEVANT BOARD ACTIONS

Monthly

AGENDA ITEM SUBMITTAL

Meeting Date: May 15, 2025

To: Administration/Finance Issues Cte.
Board of Directors

From: John Kennedy

Staff Contact: R. Fick/D. Miller

Budgeted: N/A

Budgeted Amount: N/A

Cost Estimate: N/A

Funding Source: N/A

Program/Line Item No: N/A

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: INVESTMENT PORTFOLIO HOLDINGS REPORTS

SUMMARY

The District's monthly Investment Portfolio Holdings Report is provided for Committee review.

Attachment: Investment Portfolio Holdings Reports dated April 30, 2025.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Receive and file the Investment Portfolio Holdings Reports dated April 30, 2025.

BACKGROUND/ANALYSIS

The Investment Portfolio Holdings Report is a list of each of the District's fixed income investments and provides the market value at the end of each month. All securities within the District's Investment Portfolio are in compliance with the District's Statement of Investment Policy. The District's portfolio maturities provide cash liquidity sufficient to meet the District's projected six-month expenditures (as required by Government Code Section 53646).

Highlights of the current and previous report:

Description	Prior Month	Current Month
SWAP Value (in Citi's favor)	\$4,217,564	\$4,722,778
Required Collateral	None	None
Duration/Maturity	349 Days or 0.96 years	403 Days or 1.10 years
Rate of Return/Yield	3.298%	3.331%

- The yield on the one-year Treasury note as of the month end is at 3.85%; two-year at 3.60% and the five-year at 3.72%. The last Federal Open Market committee (FOMC) meeting was held on March 18-19, 2025. The FOMC maintained the Federal fund benchmark interest rate to a range of 4.25% to 4.50%. This is the rate prime banks lend to each other.

AGENDA ITEM SUBMITTAL

Meeting Date: May 15, 2025

To: Administration/Finance Issues Cte.
Board of Directors

From: John Kennedy

Staff Contact: M. Patel/M. Wu

Budgeted: Yes

Budgeted Amount: \$750,000

Cost Estimate: \$272,691

Funding Source: General Fund

Program/Line Item No.: 1050.57038.9922

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: **ULTRAVIOLET LIGHT (UV) EQUIPMENT SUPPLY**

SUMMARY

The District previously selected Trojan Technologies for the UV system for the Groundwater Replenishment System. Trojan Technologies was selected from four pre-qualified equipment manufacturers to supply the equipment for the permanent UV system. Staff recommends purchasing UV lamps for restocking inventory.

Attachment: Quotation for the purchase of UV lamps dated April 28, 2025, in the total amount of \$272,691. (Freight of \$1,734 is included in this quote.)

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Authorize issuance of Purchase Order to Trojan Technologies Corp for the purchase of 1,080 UV lamps in the amount of \$272,691, including freight.

BACKGROUND/ANALYSIS

In 2002, the Board of Directors for OCWD and OCSD authorized OCWD to award a pre-selection agreement to Trojan Technologies for the manufacture of ultraviolet light equipment for the Groundwater Replenishment System. The basis of pre-selection was the lowest present worth life-cycle cost. This type of present worth analysis includes all capital, as well as O&M costs, over the 25 years chosen for the analysis.

Requests for Proposals were issued to four pre-qualified UV equipment manufacturers. Two responses were received, one of which was Trojan. Trojan had the lowest calculated present worth life cycle cost and the lowest capital cost of the UV equipment for their UVPHox system. Trojan has been supplying UV lamps for the Groundwater Replenishment System since the system was first put online in 2008. The lamps are now purchased directly through Trojan. Purchasing UV lamps from other manufacturers is prohibited per the Pre-Selection Agreement approved in 2002. In addition, the

Regional Water Quality Control Board operating permit for GWRS was based upon the use of UV lamps supplied by Trojan Technologies. The GWRS UVPhox system pathogen removal credits granted by the Division of Drinking Water were validated and approved based on the use of Trojan-supplied UV lamps. The use of another manufacturer's UV lamp would require at a minimum a re-validation of the UVPhox system and a possible operating permit amendment. In addition, minimum required contaminant removals are guaranteed by Trojan with the use of Trojan-supplied UV lamps.

The budget for the procurement of UV lamps is \$750,000. Due to the importance of having sufficient UV lamps, staff recommends replenishing the inventory stock with an extra order of lamps, or approval to purchase 1,080 lamps at this time. Staff will be coming back to the board as needed during the fiscal year to approve additional purchases each time lamp inventory requires replenishment.

PRIOR RELEVANT BOARD ACTION(S)

03/19/2025 R25-3-48; Authorize issuance of Purchase Order to Trojan Technologies Group for the purchase of 1,080 UV lamps in the amount of \$272,861 including freight.

12/18/2024 R24-12-159; Authorize issuance of Purchase Order to Trojan Technologies Group for the purchase of 1,080 UV lamps in the amount of \$265,025 including freight.

08/21/2024 R24-8-105; Authorize issuance of Purchase Order to Trojan Technologies Group for the purchase of 1,080 UV lamps in the amount of \$265,259 including freight.

08/16/2023 R23-8-113; Authorize issuance of Purchase Order to Trojan Technologies Group for the purchase of 2,160 UV lamps in the amount of \$517,068 including freight.

10/19/2022 R22-10-148; Authorize issuance of Purchase Order to Trojan Technologies Group for the purchase of 2,160 UV lamps in the amount of \$490,500 including freight.

08/17/2022 R22-8-112; Authorize issuance of Purchase Order to Trojan Technologies Group for the purchase of 1,320 UV lamps in the amount of \$301,265 including freight.

03/16/2022 R22-3-27; Authorize issuance of Purchase Order to Trojan UV for the purchase of 1,080 UV lamps in the amount of \$243,380, not including freight.

01/20/2021 R21-1-7; Authorize issuance of Purchase Order to DC Frost Associates for the purchase of 1,080 UV lamps in the amount of \$214,133.

09/16/2020 R20-9-126; Authorize issuance of Purchase Order to DC Frost Associates for the purchase of 1080 UV lamps in the amount of \$209,500.

02/19/2020 R20-2-24; Authorizing Purchase Order to DC Frost Associates for the purchase of 1,080 UV lamps in the amount of \$209,382.

08/21/2019 R19-8-126; Authorize issuance of Purchase Order to DC Frost Associates for the purchase of 1080 UV lamps in the amount of \$209,382

03/20/2019 R19-3-50; Authorize issuance of Purchase Order to Trojan Technologies, Inc., for the purchase of 1080 UV lamps in the amount of \$208,381.

09/19/18 R18-9-127; Authorize issuance of Purchase Order to Trojan Technologies, Inc., for the purchase of 1080 UV lamps in the amount of \$204,519.

AGENDA ITEM SUBMITTAL

Meeting Date: May 15, 2025

Budgeted: Yes

Budgeted Amount: \$30k FY 25-26
\$30k FY 26-27

To: Administration/Finance Issues Cte.
Board of Directors

Cost Estimate: \$60,000

Funding Source: General Fund

From: John Kennedy

Program/ Line Item No. 1060.57011

General Counsel Approval: N/A

Staff Contact: M. Patel / B. Smith

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

**Subject: AMENDMENT 6 TO AGREEMENT 1315 WITH VALLEY
CITIES/GONZALES FENCE, INC., FOR ON-CALL FENCE REPAIRS**

SUMMARY

Valley Cities/Gonzales Fence, Inc., has provided excellent on-call fence repair for the past seven years and has agreed to maintain the fence repairs at the same price over the next two years. Staff recommends extending the existing agreement for two years.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Authorize issuance of Amendment No. 6 to Agreement No. 1315 with Valley Cities/Gonzales Fence, Inc. to extend the termination date to June 30, 2027, and increase the not-to-exceed amount by \$60,000.

BACKGROUND/ANALYSIS

Fencing contractors and District staff provide fence repairs and replacements throughout District property. District staff perform minor repairs, while contractors are used to perform larger scopes of work. Fences are frequently damaged by vandals who cut the fence to enter District property, vehicle drivers, vegetation growth, and dilapidated conditions due to fence age and environmental conditions. Fences are required to properly secure District property.

Agreement 1315 was executed with Valley Cities/Gonzales Fence, Inc. (Valley) in 2018 for on-call fence replacement and repairs. The agreement has previously been amended 5 times to extend the agreement duration and increase the authorized amount. Valley has kept their rates constant without increases for each amendment over the seven-year span. Holding the rates constant for seven years is a notable cost savings to the District. Staff recommends issuing Amendment No. 6 to extend the duration of Agreement 1315 for an additional two years (through June 30, 2027) with a total increase of \$60,000 (\$30,000 per fiscal year). This proposed Amendment 6 increase would increase the total not-to-exceed amount of Agreement 1315 to \$225,000.

PRIOR RELEVANT BOARD ACTION(S)

2/21/24, R24-2-13, Approve Amendment Nos. 4 and 5 to Agreement No. 1315 to Valley Cities/Gonzales Fence, Inc for amounts not to exceed \$25,000 and \$40,000 at the same rates, for on-call fence repairs, for a period extending to June 30, 2025.

7/22/22, R22-7-95, Authorize issuance of Amendment No. 3 to Agreement No. 1315 to Valley Cities/Gonzales Fence, Inc., for an amount not to exceed \$25,000 per year, at the same rates, for on-call fence repairs for the recharge basins, for a period of one year with the option to renew for an additional year.

7/21/21, R21-7-110, Authorize issuance of Amendment No. 2 to Agreement No. 1315 to Valley Cities/Gonzales Fence, Inc., for an amount not to exceed \$25,000 per year, at the same rates, for on-call fence repairs for the recharge basins, for a period of one year with the option to renew for an additional year.

6/19/19, R19-6-91, Authorize issuance of Amendment No. 1 to Agreement No. 1315 to Valley Cities/Gonzales Fence, Inc., for an amount not to exceed \$25,000 per year, at the same rates, for on-call fence repairs for the recharge basins, for a period of two years with the option to renew for two years.

6/20/18, R18-6-64, Authorize issuance of an Agreement to Valley Cities/Gonzales Fence, Inc., for an amount not to exceed \$25,000 for on-call fence repairs for the recharge basins, for a period of one year with the option to renew for two years.

AGENDA ITEM SUBMITTAL

Meeting Date: May 15, 2025

To: Administration/Finance Issues Cte.
Board of Directors

From: John Kennedy

Staff Contact: M. Patel / B. Smith

Budgeted: Yes

Proposed Budget: \$20,000

Cost Estimate: \$20,000

Funding Source: General Fund

Program/Line Item No. 1060.53001

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

**Subject: AUTHORIZE AMENDMENT NO 1 TO AGREEMENT 1554 WITH YORKE
ENGINEERING, INC FOR MOBILE SOURCE COMPLIANCE ASSISTANCE**

SUMMARY

The District is required to comply with various fleet and equipment (mobile source) regulations that concern pollution technologies and controls. Staff has utilized Yorke Engineering for assistance with this issue and recommends an amendment to extend the agreement.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Authorize Amendment No. 1 to Agreement 1554 with Yorke Engineering, Inc. for mobile source compliance assistance for an amount not to exceed \$20,000.

BACKGROUND/ANALYSIS

The District's on-road fleet, off-road fleet, forklifts, and portable equipment are subject to regulations from the California Air Resources Board (CARB), including its local South Coast Air Quality Management District (SCAQMD). Compliance programs include:

- Advanced Clean Fleet (ACF)
- Clean Truck Check (CTC)
- Large Spark-Ignition Engine (LSI)
- Off-Road Diesel-Fueled Fleets (ORD)
- Portable Equipment Registration Program (PERP), and
- Local rules issued by SCAQMD

Over the past decade, the quantity of programs, the technical complexity of the regulations, and the overlapping impacts of the programs have greatly increased. Under the General Manager's signing authority, a mobile source compliance consultant, Yorke Engineering, was hired in 2022 to help staff to better understand the programs,

confirm compliance and reporting requirements, and to help staff plan for future asset management to keep the District in compliance.

In addition to regulatory compliance, there are occasional funding opportunities available to replace vehicles and equipment that require the use of an outside consultant due to technical complexities in the application process. One of the opportunities is called the Carl Moyer Memorial Air Quality Standards Attainment Program. This specific program encourages improvement of pollution controls before the improvements are required by regulation. Staff have reviewed guidance for the current round of Carl Moyer funding and believe that several vehicles and equipment pieces budgeted for replacement in fiscal year 2025-26 may be eligible for grants. Yorke Engineering will assist staff to apply for these grant opportunities.

Staff recommends authorization of Amendment No. 1 to Agreement 1554 with York Engineering for an amount not to exceed \$20,000 for Mobile Source Compliance Assistance to be performed at the direction of District staff. This amendment would bring the total agreement amount to \$40,000.

PRIOR RELEVANT BOARD ACTION(S)

N/A

AGENDA ITEM SUBMITTAL

Meeting Date: May 15, 2025

Budgeted: Yes

To: Administration/Finance Issues Cte.
Board of Directors

Budgeted Amount: \$90,000 (Year 1)

Cost Estimate: \$90,000 (Year 1)

Funding Source: General Fund

From: John Kennedy

Program/ Line Item No. 1080.57016

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

Staff Contact: S. Parsons/L. Haney

CEQA Compliance: N/A

**Subject: AWARD OF SERVICES AGREEMENT FOR HABITAT RESTORATION
SERVICES AT PRADO AND ORANGE COUNTY FACILITIES**

SUMMARY

The District has previously contracted with Habitat West to provide habitat restoration and maintenance services under two separate agreements for mitigation sites within Prado Basin and the Orange County recharge facilities, the first of which expires on June 30, 2025. On March 20, 2025, a Request for Proposals (RFP) for both sites was issued, to which the District received five responses. Staff has evaluated the proposals and recommends award of the work to Habitat West.

Attachment: Habitat West Proposal dated April 21, 2025.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Authorize issuance of agreement to Habitat West for \$90,000, plus an additional \$180,000 per year starting in year 2, plus a 5% inflation rate for each subsequent year, for a not to exceed total of \$652,725 for three years.

BACKGROUND/ANALYSIS

The District has been required by the California Department of Fish and Wildlife (CDFW), the United States Fish and Wildlife Service (USFWS), and the United States Army Corps of Engineers (USACE) to plant native habitat as mitigation for the impact of District operations behind Prado Dam, including the operations of the Prado Wetlands and stormwater storage. To meet these requirements, OCWD has planted 942 acres of native habitat within Prado Basin. Additionally, CDFW and USACE have required mitigation for impacts of the Orange County recharge facilities as an obligation of the District's operation and maintenance permits. To meet these requirements, OCWD has planted 36 acres of native habitat.

While the District's CDFW permits are currently up for renewal and mitigation requirements are actively being negotiated, the USACE permit for operation of the Prado Wetlands contains an ongoing mitigation requirement of 2 acres of habitat

restoration per year. Additionally, all mitigation sites must be monitored for five years to ensure they meet performance standards laid out in the District’s mitigation plan. Currently, mitigation sites at Prado, Santiago Basin, Burris Basin, and Huckleberry Basin are within their 5-year monitoring and maintenance period.

Habitat restoration services have previously been covered under two Agreements – one covering mitigation sites within Prado, and one covering mitigation sites in Orange County. The Prado Agreement (Agreement No. 1125) is set to expire on June 30, 2025. The Orange County Agreement (Agreement No. 1864) is set to expire on June 30, 2026.

On March 20, 2025, the District released an RFP for Habitat Restoration and Maintenance Services. The RFP was advertised on the District’s website and sent to a list of landscape contactors who provide habitat restoration and maintenance services. The District received five (5) Statement of Qualifications (SOQs) from Habitat West, Natures Image, Dudek, Chambers Group, and IO Environmental & Infrastructure. The SOQ was evaluated by a selection committee consisting of three District staff and was evaluated based on qualifications, record of past performance on similar or related projects, and total cost that must comply with the Department of Industrial Relations (DIR) prevailing wage rates.

Based on the results from the SOQ evaluation, Habitat West was ranked the highest as the firm that demonstrated the most relevant experience and understanding of the scope of services within the RFQ and provided the best overall value for services.

Rank	Firm	Laborers Hourly Rate	Foreman Hourly Rate	Supervisor Hourly Rate	Landscape/Irrigation Laborer Hourly Rate
1	Habitat West	\$44.85	\$58.47	\$61.10	\$95.77
2	Natures Image	\$59.00	\$71.00	\$90.50	\$155.00
3	Dudek	\$70.00	\$100.00	\$155.00	\$190.00
4	Chambers Group	\$58.00	\$80.00	\$100.00	\$145.00
5	IO Environmental	\$148.40	\$173.16	\$194.59	\$163.32

The expenditures for FY 25-26 are not expected to exceed the \$180,000 currently budgeted for this service. In year two, the Orange County facilities will be included in the scope, increasing the cost to \$270,000 per year plus a 5% inflation rate. Staff anticipate a similar effort for year three, plus a 5% inflation rate.

	Cost (5% inflation rate per year)	Cumulative Cost
Year 1	\$90,000 (Prado Only)	\$90,000
Year 2	\$274,500 (OC Facilities Added)	\$364,500
Year 3	\$288,225	\$652,725
Total		\$652,725

Staff recommends award of a Service Agreement to Habitat West for habitat restoration and maintenance services within Prado Basin for an amount of \$90,000 for year one, increased to \$274,500 for year two, and \$288,225 for year three, not to exceed \$652,725 for three years with an option to renew for an additional year with General Manager approval under the same terms and conditions. The expense for this multi-year scope of services is included in the Natural Resources Department general fund budget each fiscal year.

Habitat West will require prevailing wage per the statement of qualifications.

PRIOR RELEVANT BOARD ACTIONS

03/19/2025, R-25-3-46 – Authorizing issuance of request for proposals for habitat restoration services within Prado Basin and Orange County facilities.

05/17/2023, R-23-5-63 – Approving agreement to Habitat West Inc. for Habitat Restoration and Maintenance Services on OCWD Lands.

04/20/2022, R-22-4-43 – Extension of agreements with Habitat West and Endemic Environmental Services for On-Call Restoration Planting and Maintenance in Prado Basin

03/17/2021, R-21-3-41 – Accepting completion of contract No. PB-2020-1, Prado Basin SMDP Excavation and Dredging (CJW Construction, Inc) and authorizing issuance of agreement to Endemic Environmental Services, Inc.

12/18/2019, R19-12-171 - Issuance of Agreement No. 1398 with Habitat West, Inc. for on-call plant restoration services on OCWD land in Orange County.

12/5/2018, R18-12-165 - Authorize issuance of Agreements to Habitat West and the Santa Ana Watershed Association for an amount not to exceed \$180,000 for a three-year period with a \$60,000 annual limit for hourly work associated with planting, irrigation systems and weed management in Prado Basin through December 31, 2021.

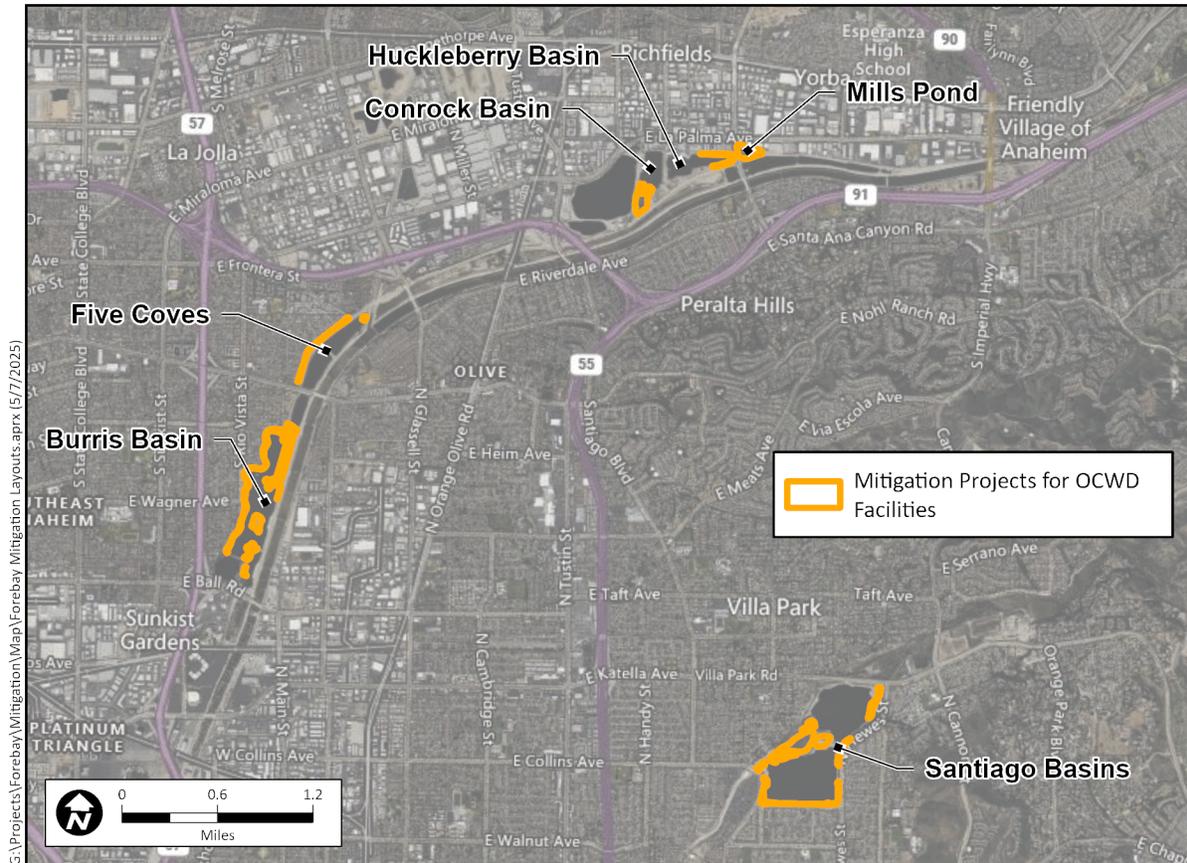
02/15/2017, R17-2-10 - Amendment to Agreement No. 1067 with Habitat West, Inc. for continuation of on-call plant restoration services.

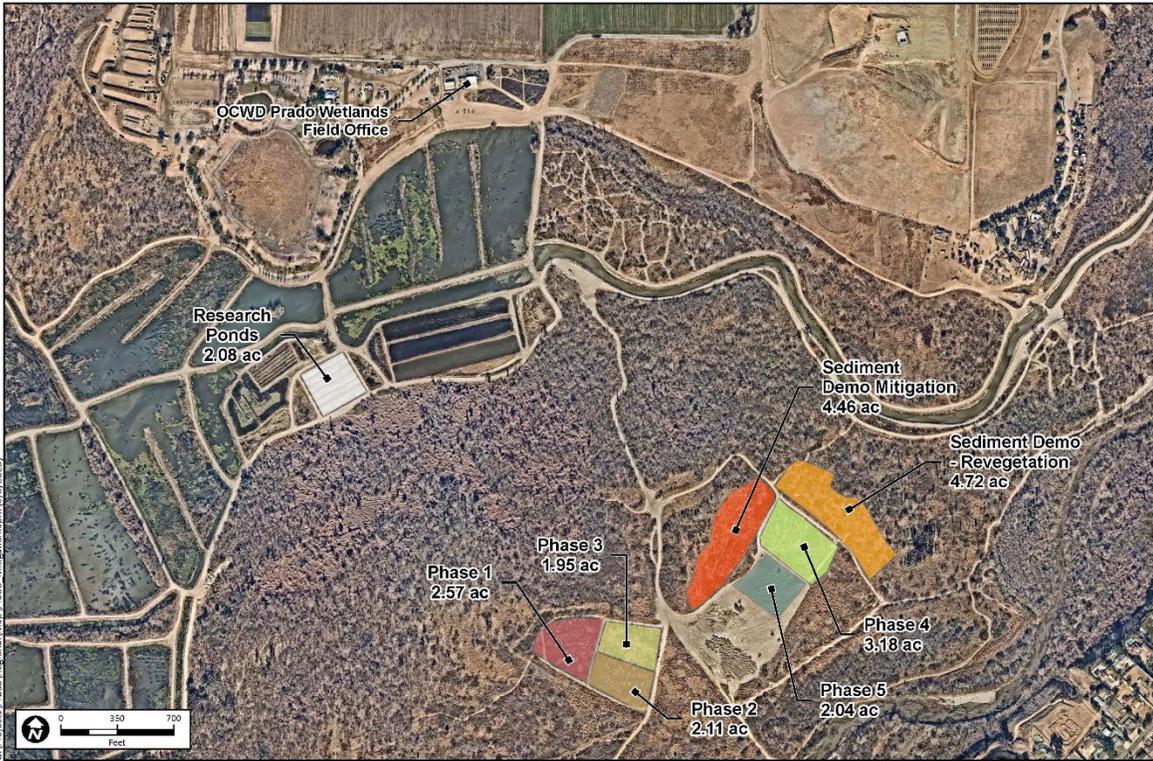
11/18/2015, R15-11-160 - Authorize issuance of Agreements to Habitat West and the Santa Ana Watershed Association for \$156,000 for a three-year period with a \$52,000 annual limit for hourly work associated with planting, irrigation systems and weed management in Prado Basin through December 31, 2018.

2/18/2015, R15-2-24 - Issuance of Agreement No. 1067 with Habitat West, Inc. for on-call plant restoration services.

02/15/2012, R12-2-14 - Agreement authorized to Habitat West, LCG and Nature's Image for planting, irrigation, and weed management in Prado Basin not to exceed \$150,000 over a three-year period with \$50,000/year limit.

04/15/2009, R09-4-60 - Agreement authorized to Habitat West and LCG for planting, irrigation, and weed management in Prado Basin not to exceed \$150,000 over a three-year period with \$50,000/year limit.





G:\Projects\Prado\Regional\Map\Prado_Mitigation.aprx (8/5/2025)



- Phase 1 (2019)
- Phase 2 (2020)
- Phase 3 (2021)
- Phase 4 (2022-23)
- Phase 5 (2024)
- Research Ponds
- Sediment Demo Revegetation - Recrutable (2021)
- Sediment Demo Mitigation - Plantable (2021)

Prado Mitigation Maintenance Sites
Pheasant Fields

SOURCE: OCWD (03/2025); Nearmap (1/25/2025)

AGENDA ITEM SUBMITTAL

Meeting Date: May 15, 2025

To: Administration/Finance Issues Cte.
Board of Directors

From: John Kennedy

Budgeted: Yes

Budgeted Amount: \$500,000 FY25-26

Cost Estimate: \$500,000 annually

Program/Line-Item No.: 1034.51202

Funding Source: General Fund

General Counsel Approval: N/A

CEQA Compliance: N/A

Staff Contact: B. Lomeli/P. Bouyounes/S. Dosier

Subject: **AGREEMENT TO PACWEST FOR DISTRICT SECURITY SERVICES**

SUMMARY

On May 17, 2023, the District amended Agreement No. 1496 with PACWEST to extend security services at all District locations and facilities for an additional year. Over the past two years, PACWEST has consistently delivered reliable service and demonstrated responsiveness to all additional requests from District staff. Based on their performance and proven dependability, staff recommends extending the agreement for an additional three-year term.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Authorize amendment to Agreement No. 1496 to PacWest Security Services for three years for the amount of \$499,825.82 for the period of June 15, 2025, through June 15, 2026, \$522,738.82 for the period of June 15, 2026, through June 15, 2027, and \$547,539.63 for the period of June 15, 2027 through June 15, 2028.

BACKGROUND/ANALYSIS

On May 17, 2023, the Board approved an amendment to Agreement No. 1496 to renew the contract with PACWEST Security for an additional year. Since then, PACWEST has continued to deliver outstanding performance at both the Anaheim and Fountain Valley locations. PACWEST provides coverage at Fountain Valley from 6 am to 6 pm, Monday through Friday and 6:00 am to 08:00 pm on Board nights, and 24-hour coverage at Field Headquarters. The company has been highly responsive to all alarms and consistently provides detailed, thorough incident reports. Their personnel have proven effective in addressing challenges related to homelessness along the river and at various well sites.

PACWEST has also demonstrated a strong commitment to staff safety by dependably accompanying personnel to monitoring wells and other locations identified as potential security concerns. Additionally, they have accommodated all last-minute requests for extra security services — including weekend tours, special events, and after-hours functions — promptly and efficiently.

Due to rising costs associated with fuel, minimum wage increases, and higher benefit expenses, there is an increase in the proposed contract rates for the upcoming years. Staff recommends renewing the contract with PACWEST for a three-year term, with the following annual amounts:

- \$499,825.82 for the period of June 15, 2025, through June 15, 2026
- \$522,738.82 for the period of June 15, 2026, through June 15, 2027
- \$547,539.63 for the period of June 15, 2027, through June 15, 2028

PRIOR RELEVANT BOARD ACTION(S)

06/19/24 R24-6-72 - Issuance of an amendment to Agreement No. 1496 to PacWest Security Services is authorized for an amount not to exceed \$454,000.00 to provide protective guard services at the OCWD Fountain Valley campus and all OCWD field locations for the period of June 17, 2024, through June 15, 2025.

05/17/23 R23-5-68 - Issuance of an amendment to Agreement No. 1496 to PacWest Security Services is authorized for an amount not to exceed \$415,582.99 to provide protective guard services at the OCWD Fountain Valley campus and all OCWD field locations for the period of June 15, 2023, through June 15, 2024.

04/20/22 R22-4-51- Authorize issuance of Agreement to PACWEST., for an amount not to exceed \$395,000 for a period of one year commencing June 15, 2022, with an option to renew for two years under the same terms and conditions.

AGENDA ITEM SUBMITTAL

Meeting Date: May 15, 2025

Budgeted: Yes

To: Administration/Finance Issues Cte.
Board of Directors

Budget Amount: \$80,000

Cost Estimate: \$260,658 (\$86,886 per year)

Funding Source: General Fund

From: John Kennedy

Program/Line Item No.: 1016.51510

Engineers/Feasibility Report: N/A

Staff Contact: B. Dosier

CEQA Compliance: N/A

**Subject: AGREEMENT WITH SHI INTERNATIONAL CORPORATION FOR
MICROSOFT LICENSING, PRODUCTS AND SERVICES**

SUMMARY

District staff uses Microsoft Corporation (MS) software, including MS Office 365 (O365) subscription licenses for email, secure file sharing, communication services and desktop applications, as well as other vital software used throughout the District. The licenses ensure the software is continually supported with updates, patches and related services to maximize functionality and information security. To continue using the O365 software, the District needs to renew its subscription services before they expire on July 31, 2025.

Attachment(s):

- SHI International Corporation Quotation dated 4/25/2025
- Insight Public Sector Quotation dated 5/1/2025
- Liffoff, LLC Quotation dated 4/7/2025

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting:

- 1) Approve the purchase of Microsoft subscription licenses, products and services from SHI International Corp. under the County of Riverside Agreement ITARC-00929 in the amount of \$260,658 (\$86,886 per year) for a term of three years commencing August 1, 2025 and authorize the General Manager to execute corresponding agreements with SHI and Microsoft Corporation, subject to legal counsel review; and
- 2) Authorize the General Manager approve amendments of up to 10% of the contract value.

BACKGROUND/ANALYSIS

The District currently licenses MS software to meet its daily operating needs and business functions, primarily licensing O365 subscription licenses and other MS software for all District

employees. O365 consists of MS Exchange Online (for email and calendar services), MS Word, MS Excel, MS PowerPoint, MS Access, MS Teams for communications and telephone services, MS OneDrive and MS SharePoint for file sharing services, as well as other utility and security services.

Over the years, the District has licensed the O365 and other Microsoft subscription licenses through Liftoff, LLC, and has purchased other MS licensing through various vendors as the need occurred. The subscription licenses ensure the software is continually supported with updates, patches and related services to maximize functionality and information security. The current subscription licenses end on July 31, 2025 and are due for renewal.

O365 has proven to be reliable and robust and brings with it many advantages of the Microsoft cloud, including universal access and the ability to take advantage of Microsoft's considerable infrastructure. These licenses provide staff access to O365 applications in Microsoft's Office 365 US Government Community Cloud (GCC). Microsoft created the GCC plan to provide high-level security for public agencies. The GCC stores content in Microsoft's government data center servers that are physically located in the United States and segregated from commercial businesses O365 services.

Using O365 provides a number of benefits. It allows the District to benefit from Microsoft's platform products seamlessly on an ongoing basis and ensures that the District has access to the latest software version. O365 uses cloud-based services, thus reducing both hardware and software maintenance and replacement costs. O365 also provides eDiscovery and multi-mailbox search functions that helps staff perform Public Record Request email search queries. Security features in O365 includes resiliency and recoverability for email and file sharing data in the cloud, high-level encryption on all email content with built-in anti-spam and anti-malware, and continuous email access even in the event of disruption to the District's network.

On April 16, 2024, the County of Riverside issued a Request for Quotes (RFQ) for Microsoft Enterprise Licensed Support Providers. The County received seven quotes from qualified vendors, including SHI and Insight, of which SHI offered the best price. On September 10, 2024, the County of Riverside executed an agreement with SHI for a three-year period ending October 31, 2027, with an option to renew for an additional three-year period ending on October 31, 2030. The LSP agreement allows other public agencies, such as the District, to purchase MS Products and Services at a discounted price by taking advantage of volume pricing and locking in longer terms. The County's previous similar contract was used by over 900 government agencies who benefited from lower rates, as well as an agreement covering comprehensive products and services.

Staff solicited three (3) quotes for O365 subscription licenses, and additional MS software subscriptions used by District staff from three (3) authorized Microsoft Licensing Solution Providers (LSP):

	<u>LSP</u>	<u>Annual Cost</u>	<u>3-year Cost</u>
1.	SHI	\$86,886	\$260,658
2.	Insight	\$87,469	\$262,407
3.	Liftoff	\$92,922	\$278,766 (estimated)

SHI and Insight provided the lowest cost through their MS LSP agreements. Under the MS LSP agreement, pricing is fixed during the agreement period. Staff also requested a quote from Liftoff as the District has previously purchased O365 subscription licensing from them. Although Liftoff does not have an MS LSP agreement with the County of Riverside, they did provide a discounted quote.

Because SHI has the lowest price quoted, staff recommends moving forward with SHI.

Staff recommends acquiring MS licensing, products and services by using the competitively bid Riverside LSP Agreement ITARC-00929 with SHI as they provided the lowest quote, and it is the most cost-effective option in the amount of \$260,658 for a three-year period commencing August 1, 2025, payable annually (\$86,886) and authorize the General Manager to execute corresponding agreements with SHI and Microsoft Corporation, subject to legal counsel review. Additionally, as the District may have additional MS software requirements that arise during the term of the agreement, staff recommends authorizing the General Manager to approve amendments to the agreement of up to 10% of the contract value.

This fiscal year's (2024/25) Information Services (IS) General Fund budget includes \$80,000 for O365 subscription licensing as well as funding of up to \$55,000 for additional software purchases and \$15,000 for online services. Next fiscal year's (2025-2026) IS General Fund budget includes \$82,000 for O365 subscription licensing as well as funding of up to \$50,000 for additional software purchases and another \$15,000 for online services and would be budgeted for the subsequent fiscal year (2026-2027) as appropriate and with budget approval by the Board of Directors. Where feasible and/or necessary, MS products would be purchased using the agreement during its term.

Staff recommends acquiring MS licensing, products and services by using the competitively bid Riverside LSP Agreement ITARC-00929 with SHI as they provided the lowest quote, and it is the most cost-effective option in the amount of \$260,658 for a three-year period commencing August 1, 2025, payable annually (\$86,886) and authorize the General Manager to execute corresponding agreements with SHI and Microsoft Corporation, subject to legal counsel review. Additionally, as the District may have additional MS software requirements that arise during the term of the agreement, such as potentially increasing the number or type of O365 licenses, increasing MS Teams telephony licensing, or upgrading file servers software, staff recommends authorizing the General Manager to approve amendments to the agreement of up to 10% of the contract value.

PRIOR RELEVANT BOARD ACTION(S): N/A

May 18, 2022, R22-5-66 – Approved Purchase Order to Liftoff LLC for Microsoft Office 365 annual software subscription licenses in an amount not to exceed \$69,061 commencing August 1, 2022, execution by the General Manager of the corresponding agreements, and authorized two additional annual renewals, not to exceed a 5% increase per year.

June 20, 2020, R20-6-78 – Approved Purchase Order to Liftoff LLC for Microsoft Office 365 annual software subscription licenses in an amount not to exceed \$61,139 commencing

August 1, 2020, execution by the General Manager of the corresponding agreements, and authorized two additional annual renewals, not to exceed a 5% increase per year.

AGENDA ITEM SUBMITTAL

Meeting Date: May 15, 2025

To: Administration/Finance Issues Cte.
Board of Directors

From: John Kennedy

Staff Contact: R. Fick/C. Olsen

Budgeted: N/A

Budgeted Amount: N/A

Cost Estimate: N/A

Funding Source: N/A

Program/ Line Item No. N/A

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

Subject: SANTA ANA WELL CONSTRUCTION LOAN AGREEMENT

SUMMARY

On November 15, 2024, the Board approved the Producers Well Construction Loan Program draft template Agreement. The City of Santa Ana (City, Santa Ana) has submitted an application and requested to be included in the loan program for \$10 million. Staff recommends approving the agreement with Santa Ana.

Attachment: Santa Ana New Well Construction Loan Application

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Approve the New Well Construction Loan Agreement with Santa Ana up to \$10 million.

BACKGROUND/ANALYSIS

The Producers Well Construction Loan Program template Agreement was approved by the Board on November 15, 2024. It is a template agreement, with the understanding that each Producer requesting to be part of the loan program may be slightly different and each Producer submit an application, which is included in the Agreement.

The first approved well loan agreement was with the City of Seal Beach in February 2025. Santa Ana has submitted the second application for a new well construction loan. The production well is referred to as the Washington Well (# 42) and is part of Santa Ana's long-term infrastructure renewal and water system resiliency efforts. The new water well has already been drilled, constructed and is being developed at 651–657 E. Washington Avenue, Santa Ana. This well will address low-pressure deficiencies and support the upper zone of the City's water distribution system.

In 2020, Tetra Tech was retained to develop the PS&E (Plans, Specifications, and Estimates) package for the new well project. Phase I (Well Drilling) began in 2023 and was completed in Fall 2024. The City is now advancing to Phase II, which involves equipping and commissioning the new well and is the basis for the loan request. The

scope of work includes the construction of a new well building, installation of mechanical, electrical, and system control systems for operational efficiency, and the construction of approximately 1,700 linear feet of 16-inch water main pipeline to connect the new well to the City's upper zone.

Well 42 is expected to yield approximately 5,000 acre-feet per year, bolstering the City's supply and reliability and will enhance water system reliability and resiliency, provide critical support to areas with existing low-pressure issues and strengthening emergency preparedness through the upper zone.

The City loan request is for \$10.0 million over a 20-year term. This is the second loan application received, and staff recommends approving and executing the loan Agreement for the City's Well 42 Phase II work. Once the loan Agreement is executed, the interest rate will be locked and then staff will amortize the loan at substantial completion of the project. This loan will be partially funded from reserves and by annual Replenishment Assessment revenues.

PRIOR RELEVANT BOARD ACTIONS

2/19/25, R25-2-30: Approve the Agreement with the City of Seal Beach.

11/20/24, R24-11-151: Approve the Producers Well Construction Loan Program draft template Agreement.

9/18/24, R24-9-121: Implement a Producers Well Construction Loan Program and authorize legal counsel to prepare an appropriate agreement

7/17/24, M24-73: Direct staff to proceed with Producer discussions regarding a possible Producers well construction loan program.

AGENDA ITEM SUBMITTAL

Meeting Date: May 15, 2025

Budgeted: N/A

To: Administration/Finance Issues Cte.
Board of Directors

Budgeted Amount: N/A

Cost Estimate: N/A

From: John Kennedy

Funding Source: N/A

Program/Line-Item No.: N/A

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

Staff Contact: R. Fick/M. Ochoa

CEQA Compliance: N/A

Subject: BUDGET TO ACTUAL REPORT FOR THIRD QUARTER FY 2024–25

SUMMARY

Attached is a copy of the Budget to Actual Report for the third quarter year-to-date fiscal year 2024-25. General Fund expenditures are \$4.1 million less than the revised year-to-date budget. Debt Service expenditures are \$1.8 million under budget. Replacement & Refurbishments are \$11 million under budget and Water Purchases are \$1 million under budget.

Attachments:

- Attachment A – Operating Costs Budget to Actual
- Attachment B – Cost Center Budget to Actual Summary
- Attachment C – Cost Center Budget to Actual Details
- Attachment D – Operating Revenues Budget to Actual
- Presentation

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for May 21 Board meeting: Receive and file the Budget to Actual Report for Third Quarter of Fiscal Year 2024-25 ending March 31, 2025.

BACKGROUND/ANALYSIS

Attachment A provides an overall summary of the District's various operating costs for the third quarter fiscal year 2024-25 to date. Attachment B provides a budget to actual summary of the 21 cost centers that comprise the general fund and attachment C provides the details of these 21 cost centers. The District's revenue performance is summarized in attachment D.

General Fund

General Fund costs are \$4.1 million under budget due to lower than planned expenses in Forebay Operations, Water Production, Board Admin, offset with more than planned expenses in Hydrogeology. Specific details on the expense categories that make up this variance can be found in the footnotes to the reports in attachments B and C.

Debt Service

Debt service is under budget by \$1.8 million, primarily due to lower than planned variable interest rates on its 2003A certificate of participation debt.

Water Purchases

Water purchases are \$1 million less than budget due to elevated basin levels requiring less injection in the Alamitos Barrier to maintain protective levels to prevent seawater intrusion.

Replacement & Refurbishment

The Santiago Floating Pump Station project, the Orange Storm Drain at Bond Basin project and the Anaheim Valve Vault R&R projects are lower than the nine-month budget by \$6.5 million. These projects are anticipated to ramp up in the summer/fall months.

Revenues

Replenishment Assessment revenues were \$5.1 million more than planned in the nine months of the year. The year-to-date budget for groundwater pumping is approximately 219,000 acre-feet and actual pumping was approximately 226,445 acre-feet or 3% more than planned.

Investment Revenues are \$4.4 million more than planned due to investment interest rates year-to-date more than planned.

Rent and Other Revenues are \$6.3 million more than budget for the nine months largely due to the District receiving \$3.2 million litigation settlement and \$1.6 million of annual annexation fees.

PRIOR RELEVANT BOARD ACTION(S):

Quarterly

AGENDA ITEM SUBMITTAL

Meeting Date: May 21, 2025

To: Board of Directors

From: John Kennedy

Staff Contact: R. Fick

Budgeted: Yes

Budgeted Amount: \$454,680

Cost Estimate: \$454,680/\$484,247

Funding Source: General Fund

Program/Line Item No. 1010.56012

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

**Subject: SANTA ANA WATERSHED PROJECT AUTHORITY FISCAL YEARS
2025-26 AND 2026-27 BUDGETS**

SUMMARY

The Santa Ana Watershed Project Authority (SAWPA) Commission recently approved its fiscal year (FY) 2025-26 and FY 2026-27 budgets. The District's annual contribution to SAWPA would increase from the current \$452,182 to \$454,680 for FY 2025-26 and to \$484,247 for FY 2026-27.

Attachments: SAWPA FY 2025-26 and FY 2026-27 Budget and Presentation

RECOMMENDATION

Adopt the Santa Ana Watershed Project Authority budgets for fiscal years 2025-26 and 2026-27 and approve the District's \$454,680 and \$484,247 annual contributions, respectively.

BACKGROUND/ANALYSIS

The Joint Powers Authority agreement with SAWPA requires that each member agency approve the SAWPA biennial budget. SAWPA processes two-year budgets. The attached table shows the breakdown of OCWD's contribution to the budget.

Budget highlights include:

FY 2025-26

- Total Source of Funds - \$29.6 million
- Total Use of Funds - \$29.1 million
- Total Contribution to Reserves - \$2.6 million
- Addition of Fund Balance - \$583,359
- Proposition 1 & 84 Project Pass Through - \$20.8 million
- Member Contributions per Agency - \$454,680

FY 2026-27

- Total Source of Funds - \$25.5 million

- Total Use of Funds - \$26.9 million
- Total Contribution to Reserves - \$2.4 million
- Use of Fund Balance - \$(1,313,772)
- Proposition 1 & 84 project pass Through – \$7.3 million
- Member Contributions per Agency - \$484,247

PRIOR RELEVANT BOARD ACTION(S)

N/A



MEMBER CONTRIBUTION

Summary Schedule

		<i>Adopted</i>	<i>Proposed</i>	<i>Proposed</i>
		<u>FYE 2025</u>	<u>FYE 2026</u>	<u>FYE 2027</u>
Member Agency Contributions				
<u>Exempt from Indirect Costs</u>				
	Funds			
SAWPA General Funds	100-00	\$ 475,000	\$ 500,000	\$ 550,000
State Legislative/Regulatory Outreach	100-03	\$ 215,250	\$ 233,400	\$ 251,233
Federal Legislative/Regulatory Outreach	100-04	\$ 22,660	\$ -	\$ -
		<u>\$ 712,910</u>	<u>\$ 733,400</u>	<u>\$ 801,233</u>
<u>Planning Projects</u>				
General Planning	370-01	\$ 400,000	\$ 500,000	\$ 500,000
USBR Partnership Studies	370-02	\$ 20,000	\$ 20,000	\$ 20,000
Watershed Management (OWOW)	373	\$ 400,000	\$ 500,000	\$ 500,000
SA River Fish Conservation	381	\$ 10,000	\$ 20,000	\$ 20,000
LESJWA Management	477	\$ 10,000	\$ 10,000	\$ 10,000
		<u>\$ 840,000</u>	<u>\$ 1,050,000</u>	<u>\$ 1,050,000</u>
Total Member Agency Contributions before Special Projects		\$ 1,552,910	\$ 1,783,400	\$ 1,851,233
Per Member Agency before Special Projects		<u>\$ 310,582</u>	<u>\$ 356,680</u>	<u>\$ 370,247</u>
<u>Special Projects</u>				
ICARP	376	\$ -	\$ 40,000	\$ -
PFAS Study	377	\$ 550,000	\$ 450,000	\$ 400,000
Cloud Seeding Pilot Project	378	\$ 158,500	\$ -	\$ 170,000
		<u>\$ 708,500</u>	<u>\$ 490,000</u>	<u>\$ 570,000</u>
Total Member Agency Contributions with Special Projects		\$ 2,261,410	\$ 2,273,400	\$ 2,421,233
Per Member Agency with Special Projects		<u>\$ 452,282</u>	<u>\$ 454,680</u>	<u>\$ 484,247</u>



MEMBER CONTRIBUTION *by Agency* FYE 2026

ACTIVITY	TOTAL	IEUA	EMWD	OCWD	SBVMWD	WMWD
370 General Planning	500,000	100,000	100,000	100,000	100,000	100,000
370 USBR Partnership Studies	20,000	4,000	4,000	4,000	4,000	4,000
373 Watershed Management (OWOW)	500,000	100,000	100,000	100,000	100,000	100,000
381 SA River Fish Conservation	20,000	4,000	4,000	4,000	4,000	4,000
477 LESJWA Management	10,000	2,000	2,000	2,000	2,000	2,000
Subtotal (Planning)	1,050,000	210,000	210,000	210,000	210,000	210,000
State/Federal Leg/Reg Outreach	233,400	46,680	46,680	46,680	46,680	46,680
Commission/General Fund Costs	500,000	100,000	100,000	100,000	100,000	100,000
Subtotal (Administration)	733,400	146,680	146,680	146,680	146,680	146,680
376 ICARP	40,000	8,000	8,000	8,000	8,000	8,000
377 PFAS Study	450,000	90,000	90,000	90,000	90,000	90,000
378 Cloud Seeding Pilot Project	0	0	0	0	0	0
Subtotal (Special Projects)	490,000	90,000	90,000	90,000	90,000	90,000
Member Agency Contributions to SAWPA	<u>2,273,400</u>	<u>454,680</u>	<u>454,680</u>	<u>454,680</u>	<u>454,680</u>	<u>454,680</u>



MEMBER CONTRIBUTION *by Agency* FYE 2027

ACTIVITY	TOTAL	IEUA	EMWD	OCWD	SBVMWD	WMWD
370 General Planning	500,000	100,000	100,000	100,000	100,000	100,000
370 USBR Partnership Studies	20,000	4,000	4,000	4,000	4,000	4,000
373 Watershed Management (OWOW)	500,000	100,000	100,000	100,000	100,000	100,000
381 SA River Fish Conservation	20,000	4,000	4,000	4,000	4,000	4,000
477 LESJWA Management	10,000	2,000	2,000	2,000	2,000	2,000
Subtotal (Planning)	1,050,000	210,000	210,000	210,000	210,000	210,000
State/Federal Leg/Reg Outreach	251,233	50,247	50,247	50,247	50,247	50,247
Commission/General Fund Costs	550,000	110,000	110,000	110,000	110,000	110,000
Subtotal (Administration)	801,233	160,247	160,247	160,247	160,247	160,247
377 PFAS Study	400,000	80,000	110,000	110,000	110,000	110,000
378 Cloud Seeding Pilot Project	170,000	34,000	31,700	31,700	31,700	31,700
Subtotal (Special Projects)	570,000	114,000	141,700	141,700	141,700	141,700
Member Agency Contributions to SAWPA	<u>2,421,233</u>	<u>484,247</u>	<u>484,247</u>	<u>484,247</u>	<u>484,247</u>	<u>484,247</u>

Santa Ana Watershed Project Authority
Budget Summary
FYE 2026 and 2027

	FYE 2026	FYE 2027	2-Yr Budget
<u>Source of Funds:</u>			
Discharge Fees	\$ 13,038,465	\$ 13,604,122	\$ 26,642,587
Grant Proceeds	\$ 6,326,222	\$ 1,321,143	\$ 7,647,365
Member Agency Contributions	\$ 2,273,400	\$ 2,421,233	\$ 4,694,633
Other Agency Contributions	\$ 1,252,718	\$ 1,257,649	\$ 2,510,367
Other Income	\$ 5,258,879	\$ 5,443,707	\$ 10,702,586
Interest & Investments	\$ 1,500,000	\$ 1,500,000	\$ 3,000,000
Total Source of Funds	\$ 29,649,684	\$ 25,547,854	\$ 55,197,538
<u>Staffing:</u>			
Hours Allocated	59,400	58,880	58,880
FTE (based on 2080)	28.6	28.3	28.3
<u>Use of Funds:</u>			
Labor	\$ 4,829,649	\$ 5,244,232	\$ 10,073,881
Benefits	\$ 1,944,444	\$ 2,127,902	\$ 4,072,346
Indirect Costs	\$ (0)	\$ (0)	\$ (0)
Education & Training	\$ 82,700	\$ 84,425	\$ 167,125
Consulting & Professional Services	\$ 4,426,226	\$ 4,817,401	\$ 9,243,627
Operating Costs	\$ 3,800,080	\$ 4,094,433	\$ 7,894,513
Repair & Maintenance	\$ 633,100	\$ 652,950	\$ 1,286,050
Phone & Utilities	\$ 87,333	\$ 87,883	\$ 175,216
Equipment & Computers	\$ 436,256	\$ 436,767	\$ 873,023
Meeting & Travel	\$ 86,180	\$ 86,600	\$ 172,780
Other Administrative Costs	\$ 309,289	\$ 325,710	\$ 634,999
Other Expenses	\$ 1,105,620	\$ 1,084,500	\$ 2,190,120
Program Expenses	\$ 4,741,682	\$ 117,731	\$ 4,859,413
Construction	\$ 2,250,000	\$ 3,595,000	\$ 5,845,000
Debt Service	\$ 1,709,476	\$ 1,709,476	\$ 3,418,952
Total Use of Funds	\$ 26,442,035	\$ 24,465,010	\$ 50,907,045
<u>Contribution To Reserves:</u>			
Pipeline Replacement & Capital Investment	\$ 2,000,000	\$ 2,000,000	\$ 4,000,000
OC San Pipeline Rehabilitation	\$ 426,224	\$ 182,388	\$ 608,612
Post Retirement Medical Benefits	\$ 98,066	\$ 114,228	\$ 212,294
Building Repair/Replacement Reserve	\$ 100,000	\$ 100,000	\$ 200,000
Total Contributions to Reserves	\$ 2,624,290	\$ 2,396,616	\$ 5,020,906
Total Use of Funds	\$ 29,066,325	\$ 26,861,626	\$ 55,927,951
Net Gain (Loss)	\$ 583,359	\$ (1,313,772)	\$ (730,413)
Beginning Fund Balance	\$ 3,995,760	\$ 4,579,118	\$ 3,995,760
Ending Fund Balance	\$ 4,579,118	\$ 3,265,346	\$ 3,265,346
<i>Project Reimb (Prop 1 and 84 - Capital)</i>	\$ 20,843,088	\$ 7,300,000	\$ 28,143,088

SAWPA Fund Summary
FYE 2026

	General Fund	Brine Line Enterprise Fund	OWOW Funds	Rountables Funds	BL Capital Funds	Total
Source of Funds:						
Discharge Fees	\$ -	\$ 13,038,465	\$ -	\$ -	\$ -	\$ 13,038,465
Grant Proceeds	\$ -	\$ -	\$ 6,326,222	\$ -	\$ -	\$ 6,326,222
Member Agency Contributions	\$ 733,400	\$ -	\$ 1,510,000	\$ 30,000	\$ -	\$ 2,273,400
Other Agency Contributions	\$ -	\$ -	\$ 58,300	\$ 1,194,418	\$ -	\$ 1,252,718
Other Income	\$ 258,400	\$ -	\$ 43,250	\$ 2,324,671	\$ 2,632,558	\$ 5,258,879
Interest & Investments	\$ -	\$ 1,500,000	\$ -	\$ -	\$ -	\$ 1,500,000
Total Source of Funds	\$ 991,800	\$ 14,538,465	\$ 7,937,772	\$ 3,549,089	\$ 2,632,558	\$ 29,649,684
Staffing:						
Hours Allocated	28,753	18,830	9,402	2,165	250	59,400
FTE (based on 2080)	13.9	9.1	4.5	1.0	0.1	28.6
Use of Funds:						
Labor	\$ 2,370,735	\$ 1,434,775	\$ 822,367	\$ 167,909	\$ 33,863	\$ 4,829,649
Benefits	\$ 954,471	\$ 577,649	\$ 331,089	\$ 67,602	\$ 13,633	\$ 1,944,444
Indirect Costs	\$ (4,179,824)	\$ 2,438,925	\$ 1,397,913	\$ 285,424	\$ 57,562	\$ (0)
Education & Training	\$ 68,200	\$ 14,500	\$ -	\$ -	\$ -	\$ 82,700
Consulting & Professional Services	\$ 459,540	\$ 810,000	\$ 1,557,900	\$ 1,323,786	\$ 275,000	\$ 4,426,226
Operating Costs	\$ 14,600	\$ 3,785,480	\$ -	\$ -	\$ -	\$ 3,800,080
Repair & Maintenance	\$ 115,100	\$ 518,000	\$ -	\$ -	\$ -	\$ 633,100
Phone & Utilities	\$ 76,333	\$ 11,000	\$ -	\$ -	\$ -	\$ 87,333
Equipment & Computers	\$ 275,550	\$ 160,706	\$ -	\$ -	\$ -	\$ 436,256
Meeting & Travel	\$ 60,500	\$ 3,000	\$ 21,180	\$ 1,500	\$ -	\$ 86,180
Other Administrative Costs	\$ 200,839	\$ 82,050	\$ 12,250	\$ 11,650	\$ 2,500	\$ 309,289
Other Expenses	\$ 377,690	\$ 566,680	\$ 43,250	\$ 118,000	\$ -	\$ 1,105,620
Program Expenses	\$ -	\$ -	\$ 4,651,212	\$ 90,470	\$ -	\$ 4,741,682
Construction	\$ -	\$ -	\$ -	\$ -	\$ 2,250,000	\$ 2,250,000
Debt Service	\$ -	\$ 1,709,476	\$ -	\$ -	\$ -	\$ 1,709,476
Total Use of Funds	\$ 793,734	\$ 12,112,241	\$ 8,837,161	\$ 2,066,341	\$ 2,632,558	\$ 26,442,035
Contribution To Reserves:						
Pipeline Replacement & Capital Investment	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -	\$ 2,000,000
OC San Pipeline Rehabilitation	\$ -	\$ 426,224	\$ -	\$ -	\$ -	\$ 426,224
Post Retirement Medical Benefits	\$ 98,066	\$ -	\$ -	\$ -	\$ -	\$ 98,066
Building Repair/Replacement Reserve	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000
Total Contributions to Reserves	\$ 198,066	\$ 2,426,224	\$ -	\$ -	\$ -	\$ 2,624,290
Total Use of Funds	\$ 991,800	\$ 14,538,465	\$ 8,837,161	\$ 2,066,341	\$ 2,632,558	\$ 29,066,325
Net Gain (loss)	\$ 0	\$ (0)	\$ (899,389)	\$ 1,482,748	\$ -	\$ 583,359
Beginning Fund Balance	\$ -	\$ -	\$ 1,922,485	\$ 2,073,275	\$ -	\$ 3,995,760
Ending Fund Balance	\$ 0	\$ -	\$ 1,023,096	\$ 3,556,023	\$ -	\$ 4,579,118
<i>Project Reimb (Prop 1 & 84 - Capital)</i>	\$ -	\$ -	\$ 20,843,088	\$ -	\$ -	\$ 20,843,088

SAWPA Fund Summary
FYE 2027

	General Fund	Brine Line Enterprise Fund	OWOW Funds	Rountables Funds	BL Capital Funds	Total
Source of Funds:						
Discharge Fees	\$ -	\$ 13,604,122	\$ -	\$ -	\$ -	\$ 13,604,122
Grant Proceeds	\$ -	\$ -	\$ 1,321,143	\$ -	\$ -	\$ 1,321,143
Member Agency Contributions	\$ 801,233	\$ -	\$ 1,590,000	\$ 30,000	\$ -	\$ 2,421,233
Other Agency Contributions	\$ -	\$ -	\$ 47,300	\$ 1,210,349	\$ -	\$ 1,257,649
Other Income	\$ 46,800	\$ -	\$ 226,750	\$ 341,516	\$ 4,828,641	\$ 5,443,707
Interest & Investments	\$ -	\$ 1,500,000	\$ -	\$ -	\$ -	\$ 1,500,000
Total Source of Funds	\$ 848,033	\$ 15,104,122	\$ 3,185,193	\$ 1,581,865	\$ 4,828,641	\$ 25,547,854
Staffing:						
Hours Allocated	28,895	19,045	8,275	2,395	270	58,880
FTE (based on 2080)	13.9	9.2	4.0	1.2	0.1	28.3
Use of Funds:						
Labor	\$ 2,663,660	\$ 1,559,822	\$ 777,315	\$ 203,557	\$ 39,878	\$ 5,244,232
Benefits	\$ 1,080,808	\$ 632,914	\$ 315,404	\$ 82,595	\$ 16,181	\$ 2,127,902
Indirect Costs	\$ (4,535,131)	\$ 2,741,252	\$ 1,366,064	\$ 357,733	\$ 70,082	\$ (0)
Education & Training	\$ 69,200	\$ 15,225	\$ -	\$ -	\$ -	\$ 84,425
Consulting & Professional Services	\$ 437,970	\$ 815,750	\$ 1,117,500	\$ 1,341,181	\$ 1,105,000	\$ 4,817,401
Operating Costs	\$ 14,600	\$ 4,079,833	\$ -	\$ -	\$ -	\$ 4,094,433
Repair & Maintenance	\$ 109,200	\$ 543,750	\$ -	\$ -	\$ -	\$ 652,950
Phone & Utilities	\$ 76,333	\$ 11,550	\$ -	\$ -	\$ -	\$ 87,883
Equipment & Computers	\$ 285,750	\$ 151,017	\$ -	\$ -	\$ -	\$ 436,767
Meeting & Travel	\$ 60,500	\$ 3,000	\$ 21,600	\$ 1,500	\$ -	\$ 86,600
Other Administrative Costs	\$ 204,385	\$ 84,925	\$ 22,250	\$ 11,650	\$ 2,500	\$ 325,710
Other Expenses	\$ 166,530	\$ 573,220	\$ 226,750	\$ 118,000	\$ -	\$ 1,084,500
Program Expense	\$ -	\$ -	\$ 38,075	\$ 79,656	\$ -	\$ 117,731
Construction	\$ -	\$ -	\$ -	\$ -	\$ 3,595,000	\$ 3,595,000
Debt Service	\$ -	\$ 1,709,476	\$ -	\$ -	\$ -	\$ 1,709,476
Total Use of Funds	\$ 633,805	\$ 12,921,734	\$ 3,884,958	\$ 2,195,872	\$ 4,828,641	\$ 24,465,010
Contribution To Reserves:						
Pipeline Replacement & Capital Investment	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -	\$ 2,000,000
OC San Pipeline Rehabilitation	\$ -	\$ 182,388	\$ -	\$ -	\$ -	\$ 182,388
Post Retirement Medical Benefits	\$ 114,228	\$ -	\$ -	\$ -	\$ -	\$ 114,228
Building Repair/Replacement Reserve	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000
Total Contributions to Reserves	\$ 214,228	\$ 2,182,388	\$ -	\$ -	\$ -	\$ 2,396,616
Total Use of Funds	\$ 848,033	\$ 15,104,122	\$ 3,884,958	\$ 2,195,872	\$ 4,828,641	\$ 26,861,626
Net Gain (loss)	\$ 0	\$ 0	\$ (699,765)	\$ (614,007)	\$ -	\$ (1,313,772)
Beginning Fund Balance	\$ -	\$ -	\$ 1,050,865	\$ 3,588,699	\$ -	\$ 4,639,564
Ending Fund Balance	\$ 0	\$ -	\$ 351,100	\$ 2,974,692	\$ -	\$ 3,325,792
<i>Project Reimb (Prop 1 & 84 - Capital)</i>	\$ -	\$ -	\$ 7,300,000	\$ -	\$ -	\$ 7,300,000

SAWPA General Fund Budget

FYE 2026

	General Fund Fund 100-00	State Legislative/Regulatory Outreach Fund 100-03	Total
<u>Source of Funds:</u>			
Grant Proceeds	\$ -	\$ -	\$ -
Member Agency Contributions	\$ 500,000	\$ 233,400	\$ 733,400
Other Income	\$ 258,400	\$ -	\$ 258,400
Interest & Investments	\$ -	\$ -	\$ -
Total Source of Funds	\$ 758,400	\$ 233,400	\$ 991,800
<u>Staffing:</u>			
Hours Allocated	28,193	560	28,753
FTE (based on 2080)	13.6	0.3	13.9
<u>Use of Funds:</u>			
Labor	\$ 2,299,154	\$ 71,581	\$ 2,370,735
Benefits	\$ 925,652	\$ 28,819	\$ 954,471
Indirect Costs Applied	\$ (4,179,824)	\$ -	\$ (4,179,824)
Education & Training	\$ 68,200	\$ -	\$ 68,200
Consulting & Professional Services	\$ 340,540	\$ 119,000	\$ 459,540
Operating Costs	\$ 14,600	\$ -	\$ 14,600
Repair & Maintenance	\$ 115,100	\$ -	\$ 115,100
Phone & Utilities	\$ 76,333	\$ -	\$ 76,333
Equipment & Computers	\$ 275,550	\$ -	\$ 275,550
Meeting & Travel	\$ 46,500	\$ 14,000	\$ 60,500
Other Administrative Costs	\$ 200,839	\$ -	\$ 200,839
Other Expenses	\$ 377,690	\$ -	\$ 377,690
Construction	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -
Total Use of Funds	\$ 560,334	\$ 233,400	\$ 793,734
<u>Contribution To Reserves:</u>			
Post Retirement Medical Benefits	\$ 98,066	\$ -	\$ 98,066
Building Repair/Replacement Reserve	\$ 100,000	\$ -	\$ 100,000
Total Contributions to Reserves	\$ 198,066	\$ -	\$ 198,066
Total Use of Funds	\$ 758,400	\$ 233,400	\$ 991,800
Net Gain (loss)	\$ 0	\$ -	\$ 0

SAWPA General Fund Budget
FYE 2027

	General Fund Fund 100-00	State Legislative/Regulatory Outreach Fund 100-03	Total
<u>Source of Funds:</u>			
Grant Proceeds	\$ -	\$ -	\$ -
Member Agency Contributions	\$ 550,000	\$ 251,233	\$ 801,233
Other Income	\$ 46,800	\$ -	\$ 46,800
Interest & Investments	\$ -	\$ -	\$ -
Total Source of Funds	\$ 596,800	\$ 251,233	\$ 848,033
<u>Staffing:</u>			
Hours Allocated	28,275	620	28,895
FTE (based on 2080)	13.6	0.3	13.9
<u>Use of Funds:</u>			
Labor	\$ 2,579,554	\$ 84,106	\$ 2,663,660
Benefits	\$ 1,046,681	\$ 34,127	\$ 1,080,808
Indirect Costs Applied	\$ (4,535,131)	\$ -	\$ (4,535,131)
Education & Training	\$ 69,200	\$ -	\$ 69,200
Consulting & Professional Services	\$ 318,970	\$ 119,000	\$ 437,970
Operating Costs	\$ 14,600	\$ -	\$ 14,600
Repair & Maintenance	\$ 109,200	\$ -	\$ 109,200
Phone & Utilities	\$ 76,333	\$ -	\$ 76,333
Equipment & Computers	\$ 285,750	\$ -	\$ 285,750
Meeting & Travel	\$ 46,500	\$ 14,000	\$ 60,500
Other Administrative Costs	\$ 204,385	\$ -	\$ 204,385
Other Expenses	\$ 166,530	\$ -	\$ 166,530
Construction	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -
Total Use of Funds	\$ 382,572	\$ 251,233	\$ 633,805
<u>Contribution To Reserves:</u>			
Post Retiree Medical Benefits	\$ 114,228	\$ -	\$ 114,228
Building Repair/Replacement Reserve	\$ 100,000	\$ -	\$ 100,000
Total Contributions to Reserves	\$ 214,228	\$ -	\$ 214,228
Total Use of Funds	\$ 596,800	\$ 251,233	\$ 848,033
Net Gain (loss)	\$ 0	\$ -	\$ 0

SAWPA Brine Line Enterprise Budget

FYE 2026

	Brine Line Operating Fund 240	Brine Line Debt Service	Total
<u>Source of Funds:</u>			
Discharge Fees	\$ 13,038,465	\$ -	\$ 13,038,465
Grant Proceeds	\$ -	\$ -	\$ -
Member Agency Contributions	\$ -	\$ -	\$ -
Other Agency Contributions	\$ -	\$ -	\$ -
Other Income	\$ -	\$ -	\$ -
Interest & Investments	\$ 1,500,000	\$ -	\$ 1,500,000
Total Source of Funds	\$ 14,538,465	\$ -	\$ 14,538,465
<u>Staffing:</u>			
Hours Allocated	18,830	-	18,830
FTE (based on 2080)	9.1	-	9.1
<u>Use of Funds:</u>			
Labor	\$ 1,434,775	\$ -	\$ 1,434,775
Benefits	\$ 577,649	\$ -	\$ 577,649
Indirect Costs	\$ 2,438,925	\$ -	\$ 2,438,925
Education & Training	\$ 14,500	\$ -	\$ 14,500
Consulting & Professional Services	\$ 810,000	\$ -	\$ 810,000
Operating Costs	\$ 3,785,480	\$ -	\$ 3,785,480
Repair & Maintenance	\$ 518,000	\$ -	\$ 518,000
Phone & Utilities	\$ 11,000	\$ -	\$ 11,000
Equipment & Computers	\$ 160,706	\$ -	\$ 160,706
Meeting & Travel	\$ 3,000	\$ -	\$ 3,000
Other Administrative Costs	\$ 82,050	\$ -	\$ 82,050
Other Expense	\$ 566,680	\$ -	\$ 566,680
Construction	\$ -	\$ -	\$ -
Debt Service Payments	\$ -	\$ 1,709,476	\$ 1,709,476
Total Use of Funds	\$ 10,402,765	\$ 1,709,476	\$ 12,112,241
<u>Contribution To Reserves:</u>			
Pipeline Replacement & Capital Investment	\$ 2,000,000	\$ -	\$ 2,000,000
OC San Pipeline Rehabilitation	\$ 426,224	\$ -	\$ 426,224
Total Contributions to Reserves	\$ 2,426,224	\$ -	\$ 2,426,224
Total Use of Funds	\$ 12,828,989	\$ 1,709,476	\$ 14,538,465
Net Gain (loss)	\$ 1,709,476	\$ (1,709,476)	\$ (0)
Indirect Costs Contribution	58.35%	0.00%	58.35%

SAWPA Brine Line Enterprise Budget
FYE 2027

	Brine Line Operating Fund 240	Brine Line Debt Service	Total
<u>Source of Funds:</u>			
Discharge Fees	\$ 13,604,122	\$ -	\$ 13,604,122
Grant Proceeds	\$ -	\$ -	\$ -
Member Agency Contributions	\$ -	\$ -	\$ -
Other Agency Contributions	\$ -	\$ -	\$ -
Other Income	\$ -	\$ -	\$ -
Interest & Investments	\$ 1,500,000	\$ -	\$ 1,500,000
Total Source of Funds	\$ 15,104,122	\$ -	\$ 15,104,122
<u>Staffing:</u>			
Hours Allocated	19,045	-	19,045
FTE (based on 2080)	9.2	-	9.2
<u>Use of Funds:</u>			
Labor	\$ 1,559,822	\$ -	\$ 1,559,822
Benefits	\$ 632,914	\$ -	\$ 632,914
Indirect Costs	\$ 2,741,252	\$ -	\$ 2,741,252
Education & Training	\$ 15,225	\$ -	\$ 15,225
Consulting & Professional Services	\$ 815,750	\$ -	\$ 815,750
Operating Costs	\$ 4,079,833	\$ -	\$ 4,079,833
Repair & Maintenance	\$ 543,750	\$ -	\$ 543,750
Phone & Utilities	\$ 11,550	\$ -	\$ 11,550
Equipment & Computers	\$ 151,017	\$ -	\$ 151,017
Meeting & Travel	\$ 3,000	\$ -	\$ 3,000
Other Administrative Costs	\$ 84,925	\$ -	\$ 84,925
Other Expenses	\$ 573,220	\$ -	\$ 573,220
Construction	\$ -	\$ -	\$ -
Debt Service Payments	\$ -	\$ 1,709,476	\$ 1,709,476
Total Use of Funds	\$ 11,212,258	\$ 1,709,476	\$ 12,921,734
<u>Contribution To Reserves:</u>			
Pipeline Replacement & Capital Investment	\$ 2,000,000	\$ -	\$ 2,000,000
OC San Pipeline Rehabilitation	\$ 182,388	\$ -	\$ 182,388
Total Contributions to Reserves	\$ 2,182,388	\$ -	\$ 2,182,388
Total Use of Funds	\$ 13,394,646	\$ 1,709,476	\$ 15,104,122
Net Gain (loss)	\$ 1,709,476	\$ (1,709,476)	\$ 0
Indirect Costs Contribution	60.44%	0.00%	60.44%

SAWPA OWOW Budget

FYE 2026

	Basin Planning General Fund 370-01	USBR Partnership Studies Fund 370-02	Watershed Mgmt (OWOW) Fund 373	ICARP Fund 376	PFAS Study Fund 377	Cloud Seeding Fund 378	Prop 84 - 2015 Program Mgmt Fund 145
Source of Funds:							
Financing Proceeds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant Proceeds	\$ -	\$ -	\$ -	\$ 443,979	\$ -	\$ 262,372	\$ 534,786
Member Agency Contributions	\$ 500,000	\$ 20,000	\$ 500,000	\$ 40,000	\$ 450,000	\$ -	\$ -
Other Agency Contributions	\$ -	\$ -	\$ 47,300	\$ -	\$ -	\$ 11,000	\$ -
Other Income	\$ -	\$ -	\$ -	\$ 43,250	\$ -	\$ -	\$ -
Interest & Investmen	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Source of Funds	\$ 500,000	\$ 20,000	\$ 547,300	\$ 527,229	\$ 450,000	\$ 273,372	\$ 534,786
Staffing:							
Hours Allocated	1,650	105	1,975	310	665	410	1,805
FTE (based on 2080)	0.8	0.1	0.9	0.1	0.3	0.2	0.9
Use of Funds:							
Labor	\$ 148,975	\$ 10,112	\$ 155,550	\$ 18,696	\$ 58,265	\$ 37,046	\$ 172,374
Benefits	\$ 59,978	\$ 4,071	\$ 62,625	\$ 7,527	\$ 23,458	\$ 14,915	\$ 69,399
Indirect Costs	\$ 253,237	\$ 17,188	\$ 264,414	\$ 31,781	\$ 99,043	\$ 62,974	\$ 293,013
Education & Training	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Consulting & Professional Services	\$ 15,000	\$ 15,000	\$ 60,000	\$ 247,500	\$ 655,000	\$ 405,000	\$ -
Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment & Computers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Meeting & Travel	\$ 8,000	\$ 1,000	\$ 5,000	\$ -	\$ 1,000	\$ 5,580	\$ -
Other Administrative Costs	\$ 11,500	\$ 550	\$ 200	\$ -	\$ -	\$ -	\$ -
Other Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Program Expense	\$ -	\$ -	\$ -	\$ 221,725	\$ -	\$ -	\$ -
Constructor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Use of Funds	\$ 496,690	\$ 47,921	\$ 547,789	\$ 527,229	\$ 836,766	\$ 525,515	\$ 534,786
Net Gain (loss)	\$ 3,310	\$ (27,921)	\$ (489)	\$ (0)	\$ (386,766)	\$ (252,143)	\$ -
Beginning Fund Balance	\$ 41,653	\$ 59,277	\$ 118,270	\$ -	\$ 641,071	\$ 276,988	\$ -
Ending Fund Balance	\$ 44,963	\$ 31,356	\$ 117,781	\$ (0)	\$ 254,305	\$ 24,845	\$ -
Project Reimb (Prop 1 and 84 - Capital)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Indirect Costs Contribution	6.06%	0.41%	6.33%	0.76%	2.37%	1.51%	7.01%

SAWPA OWOW Budget
FYE 2026

	Prop 1 R1 Program Mgmt Fund 150	Prop 1 R2 Program Mgmt Fund 155	WECAN Riverside Fund 397	Drought Relief - DACI Fund 398	SARCCUP & Other Projects Fund 504-04	Prop 1 Capital Projects 505	Total
Source of Funds:							
Financing Proceeds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant Proceeds	\$ 172,540	\$ 280,675	\$ 68,546	\$ 4,475,423	\$ 50,473	\$ 37,428	\$ 6,326,222
Member Agency Contributions	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,510,000
Other Agency Contributions	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 58,300
Other Income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43,250
Interest & Investmen	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Source of Funds	\$ 172,540	\$ 280,675	\$ 68,546	\$ 4,475,423	\$ 50,473	\$ 37,428	\$ 7,937,772
Staffing:							
Hours Allocated	610	955	192	155	195	375	9,402
FTE (based on 2080)	0.3	0.5	0.1	0.1	0.1	0.2	4.5
Use of Funds:							
Labor	\$ 55,614	\$ 90,468	\$ 12,392	\$ 14,645	\$ 16,140	\$ 32,090	\$ 822,367
Benefits	\$ 22,390	\$ 36,423	\$ 4,989	\$ 5,896	\$ 6,498	\$ 12,920	\$ 331,089
Indirect Costs	\$ 94,536	\$ 153,784	\$ 21,065	\$ 24,895	\$ 27,435	\$ 54,548	\$ 1,397,913
Education & Training	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Consulting & Professional Services	\$ -	\$ -	\$ 30,000	\$ -	\$ 100,400	\$ 30,000	\$ 1,557,900
Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment & Computers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Meeting & Travel	\$ -	\$ -	\$ 100	\$ 500	\$ -	\$ -	\$ 21,180
Other Administrative Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,250
Other Expense	\$ -	\$ -	\$ -	\$ -	\$ 43,250	\$ -	\$ 43,250
Program Expense	\$ -	\$ -	\$ -	\$ 4,429,487	\$ -	\$ -	\$ 4,651,212
Constructor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Use of Funds	\$ 172,540	\$ 280,675	\$ 68,546	\$ 4,475,423	\$ 193,723	\$ 129,558	\$ 8,837,161
Net Gain (loss)	\$ -	\$ -	\$ 0	\$ (0)	\$ (143,250)	\$ (92,130)	\$ (899,389)
Beginning Fund Balance	\$ -	\$ -	\$ -	\$ -	\$ 718,096	\$ 67,130	\$ 1,922,485
Ending Fund Balance	\$ -	\$ -	\$ 0	\$ (0)	\$ 574,846	\$ (25,000)	\$ 1,023,096
Project Reimb (Prop 1 and 84 - Capital)	\$ -	\$ -	\$ -	\$ -	\$ 9,000,000	\$ 11,843,088	\$ 20,843,088
Indirect Costs Contribution	2.26%	3.68%	0.50%	0.60%	0.66%	1.31%	33.44%

SAWPA OWOW Budget
FYE 2027

	Basin Planning General Fund 370-01	USBR Partnership Studies Fund 370-02	Watershed Mgmt (OWOW) Fund 373	ICARP Fund 376	PFAS Study Fund 377	Cloud Seeding Fund 378
Source of Funds:						
Grant Proceeds	\$ -	\$ -	\$ -	\$ 184,140	\$ -	\$ 219,356
Member Agency Contributions	\$ 500,000	\$ 20,000	\$ 500,000	\$ -	\$ 400,000	\$ 170,000
Other Agency Contributions	\$ -	\$ -	\$ 47,300	\$ -	\$ -	\$ -
Other Income	\$ -	\$ -	\$ -	\$ 226,750	\$ -	\$ -
Interest & Investmen	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Source of Funds	\$ 500,000	\$ 20,000	\$ 547,300	\$ 410,890	\$ 400,000	\$ 389,356
Staffing:						
Hours Allocated	1,660	105	2,140	460	665	375
FTE (based on 2080)	0.8	0.1	1.0	0.2	0.3	0.2
Use of Funds:						
Labor	\$ 161,377	\$ 10,929	\$ 186,484	\$ 37,720	\$ 62,692	\$ 37,494
Benefits	\$ 65,480	\$ 4,435	\$ 75,668	\$ 15,305	\$ 25,438	\$ 15,214
Indirect Costs	\$ 283,606	\$ 19,207	\$ 327,729	\$ 66,290	\$ 110,175	\$ 65,893
Education & Training	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Consulting & Professional Services	\$ 15,000	\$ 15,000	\$ 60,000	\$ 252,500	\$ 455,000	\$ 290,000
Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment & Computers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Meeting & Travel	\$ 8,000	\$ 1,000	\$ 5,000	\$ 1,000	\$ 1,000	\$ 5,600
Other Administrative Costs	\$ 11,500	\$ 550	\$ 10,200	\$ -	\$ -	\$ -
Other Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Program Expense	\$ -	\$ -	\$ -	\$ 38,075	\$ -	\$ -
Constructor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Use of Funds	\$ 544,963	\$ 51,121	\$ 665,081	\$ 410,890	\$ 654,305	\$ 414,201
Net Gain (loss)	\$ (44,963)	\$ (31,121)	\$ (117,781)	\$ 0	\$ (254,305)	\$ (24,845)
Beginning Fund Balance	\$ 44,963	\$ 31,356	\$ 117,781	\$ -	\$ 254,305	\$ 24,845
Ending Fund Balance	\$ 0	\$ 235	\$ 0	\$ 0	\$ 0	\$ (0)
Project Reimb (Prop 1 & 84 - Capital)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Indirect Costs Contribution	6.25%	0.42%	7.23%	1.46%	2.43%	1.45%

SAWPA OWOW Budget

FYE 2027

	PA23				Total
	Prop 1 R1	Prop 1 R2	SARCCUP &	Prop 1	
	Program Mgmt Fund 150	Program Mgmt Fund 155	Other Projects Fund 504-04	Capital Projects Fund 505	
Source of Funds:					
Grant Proceeds	\$ 181,736	\$ 621,296	\$ -	\$ 114,615	\$ 1,321,143
Member Agency Contributions	\$ -	\$ -	\$ -	\$ -	\$ 1,590,000
Other Agency Contributions	\$ -	\$ -	\$ -	\$ -	\$ 47,300
Other Income	\$ -	\$ -	\$ -	\$ -	\$ 226,750
Interest & Investmen	\$ -	\$ -	\$ -	\$ -	\$ -
Total Source of Funds	\$ 181,736	\$ 621,296	\$ -	\$ 114,615	\$ 3,185,193
Staffing:					
Hours Allocated	625	1,940	-	305	8,275
FTE (based on 2080)	0.3	0.9	-	0.1	4.0
Use of Funds:					
Labor	\$ 57,454	\$ 196,415	\$ -	\$ 26,750	\$ 777,315
Benefits	\$ 23,312	\$ 79,698	\$ -	\$ 10,854	\$ 315,404
Indirect Costs	\$ 100,970	\$ 345,183	\$ -	\$ 47,011	\$ 1,366,064
Education & Training	\$ -	\$ -	\$ -	\$ -	\$ -
Consulting & Professional Services	\$ -	\$ -	\$ -	\$ 30,000	\$ 1,117,500
Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment & Computers	\$ -	\$ -	\$ -	\$ -	\$ -
Meeting & Travel	\$ -	\$ -	\$ -	\$ -	\$ 21,600
Other Administrative Costs	\$ -	\$ -	\$ -	\$ -	\$ 22,250
Other Expense	\$ -	\$ -	\$ 226,750	\$ -	\$ 226,750
Program Expense	\$ -	\$ -	\$ -	\$ -	\$ 38,075
Constructor	\$ -	\$ -	\$ -	\$ -	\$ -
Total Use of Funds	\$ 181,736	\$ 621,296	\$ 226,750	\$ 114,615	\$ 3,884,958
Net Gain (loss)	\$ -	\$ -	\$ (226,750)	\$ (0)	\$ (699,765)
Beginning Fund Balance	\$ -	\$ -	\$ 577,615	\$ (0)	\$ 1,050,865
Ending Fund Balance	\$ -	\$ -	\$ 350,865	\$ 0	\$ 351,100
Project Reimb (Prop 1 & 84 - Capital)	\$ -	\$ -	\$ -	\$ 7,300,000	\$ 7,300,000
Indirect Costs Contribution	2.23%	7.61%	0.00%	1.04%	30.12%

SAWPA Roundtables Budget
FYE 2026

	Basin Monitoring Fund 374	SAR Fish Conservation Fund 381	MSAR TMDL Task Force Fund 384-01	RWQ Monitoring Task Force Fund 386	Arundo Mgmt & Habitat Restoration Fund 387	Emerging Constituents TF Fund 392	LESJWA Administration Fund 477	Total
Source of Funds:								
Grant Proceeds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Member Agency Contributions	\$ -	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000	\$ 30,000
Other Agency Contributions	\$ 224,043	\$ 19,000	\$ 427,200	\$ 345,334	\$ -	\$ 178,841	\$ -	\$ 1,194,418
Other Income	\$ -	\$ -	\$ -	\$ 118,000	\$ 2,014,560	\$ -	\$ 192,111	\$ 2,324,671
Interest & Investments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Source of Funds	\$ 224,043	\$ 39,000	\$ 427,200	\$ 463,334	\$ 2,014,560	\$ 178,841	\$ 202,111	\$ 3,549,089
Staffing:								
Hours Allocated	400	170	155	115	305	300	720	2,165
FTE (based on 2080)	0.2	0.1	0.1	0.1	0.1	0.1	0.3	1.0
Use of Funds:								
Labor	\$ 25,183	\$ 12,395	\$ 13,273	\$ 10,377	\$ 26,146	\$ 20,112	\$ 60,423	\$ 167,909
Benefits	\$ 10,139	\$ 4,990	\$ 5,344	\$ 4,178	\$ 10,527	\$ 8,097	\$ 24,327	\$ 67,602
Indirect Costs	\$ 42,808	\$ 21,070	\$ 22,563	\$ 17,640	\$ 44,445	\$ 34,187	\$ 102,711	\$ 285,424
Education & Training	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Consulting & Professional Services	\$ 373,100	\$ 30,000	\$ 346,700	\$ 400,000	\$ 50,000	\$ 119,986	\$ 4,000	\$ 1,323,786
Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment & Computers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Meeting & Travel	\$ -	\$ 500	\$ -	\$ -	\$ 500	\$ -	\$ 500	\$ 1,500
Other Administrative Costs	\$ -	\$ 1,500	\$ -	\$ -	\$ -	\$ -	\$ 10,150	\$ 11,650
Other Expense	\$ -	\$ -	\$ 118,000	\$ -	\$ -	\$ -	\$ -	\$ 118,000
Program Expense	\$ -	\$ -	\$ -	\$ -	\$ 90,470	\$ -	\$ -	\$ 90,470
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Use of Funds	\$ 451,230	\$ 70,455	\$ 505,880	\$ 432,195	\$ 222,088	\$ 182,382	\$ 202,111	\$ 2,066,341
Net Gain (loss)	\$ (227,187)	\$ (31,455)	\$ (78,680)	\$ 31,139	\$ 1,792,472	\$ (3,541)	\$ -	\$ 1,482,748
Beginning Fund Balance	\$ 703,337	\$ 66,006	\$ 343,110	\$ 67,832	\$ 684,732	\$ 208,258	\$ -	\$ 2,073,275
Ending Fund Balance	\$ 476,150	\$ 34,551	\$ 264,430	\$ 98,971	\$ 2,477,203	\$ 204,717	\$ -	\$ 3,556,023
Indirect Costs Contribution	1.02%	0.50%	0.54%	0.42%	1.06%	0.82%	2.46%	6.83%

SAWPA Roundtables Budget
FYE 2027

	Basin Monitoring Fund 374	SAR Fish Conservation Fund 381	MSAR TMDL Task Force Fund 384-01	RWQ Monitoring Task Force Fund 386	Arundo Mgmt & Habitat Restoration Fund 387	Emerging Constituents TF Fund 392	LESJWA Administration Fund 477	Total
Source of Funds:								
Financing Proceeds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant Proceeds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Member Agency Contributions	\$ -	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000	\$ 30,000
Other Agency Contributions	\$ 266,282	\$ 19,000	\$ 427,700	\$ 312,000	\$ -	\$ 185,367	\$ -	\$ 1,210,349
Other Income	\$ -	\$ -	\$ -	\$ 118,000	\$ -	\$ -	\$ 223,516	\$ 341,516
Interest & Investments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Source of Funds	\$ 266,282	\$ 39,000	\$ 427,700	\$ 430,000	\$ -	\$ 185,367	\$ 233,516	\$ 1,581,865
Staffing:								
Hours Allocated	400	170	150	115	460	300	800	2,395
FTE (based on 2080)	0.2	0.1	0.1	0.1	0.2	0.1	0.4	1.2
Use of Funds:								
Labor	\$ 29,040	\$ 13,136	\$ 13,797	\$ 10,996	\$ 45,825	\$ 21,571	\$ 69,192	\$ 203,557
Benefits	\$ 11,783	\$ 5,330	\$ 5,598	\$ 4,462	\$ 18,594	\$ 8,753	\$ 28,075	\$ 82,595
Indirect Costs	\$ 51,035	\$ 23,085	\$ 24,247	\$ 19,324	\$ 80,534	\$ 37,909	\$ 121,599	\$ 357,733
Education & Training	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Consulting & Professional Services	\$ 363,800	\$ 30,000	\$ 369,800	\$ 400,000	\$ 50,000	\$ 123,581	\$ 4,000	\$ 1,341,181
Operating Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment & Computers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Meeting & Travel	\$ -	\$ 500	\$ -	\$ -	\$ 500	\$ -	\$ 500	\$ 1,500
Other Administrative Costs	\$ -	\$ 1,500	\$ -	\$ -	\$ -	\$ -	\$ 10,150	\$ 11,650
Other Expense	\$ -	\$ -	\$ 118,000	\$ -	\$ -	\$ -	\$ -	\$ 118,000
Program Expense	\$ -	\$ -	\$ -	\$ -	\$ 79,656	\$ -	\$ -	\$ 79,656
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Use of Funds	\$ 455,658	\$ 73,551	\$ 531,442	\$ 434,782	\$ 275,109	\$ 191,814	\$ 233,516	\$ 2,195,872
Net Gain (loss)	\$ (189,376)	\$ (34,551)	\$ (103,742)	\$ (4,782)	\$ (275,109)	\$ (6,447)	\$ -	\$ (614,007)
Beginning Fund Balance	\$ 476,150	\$ 34,551	\$ 264,430	\$ 98,971	\$ 2,509,880	\$ 204,717	\$ -	\$ 3,588,699
Ending Fund Balance	\$ 286,774	\$ (0)	\$ 160,688	\$ 94,189	\$ 2,234,771	\$ 198,270	\$ -	\$ 2,974,692
Indirect Costs Contribution	1.13%	0.51%	0.53%	0.43%	1.78%	0.84%	2.68%	7.89%

SAWPA Brine Line Capital Budget

FYE 2026

	Brine Line Protection Fund 320	Reach IV-D Corrosion Repair Fund 327	Total
<u>Source of Funds:</u>			
Grant Proceeds	\$ -	\$ -	\$ -
Member Agency Contributions	\$ -	\$ -	\$ -
Other Agency Contributions	\$ -	\$ -	\$ -
Other Income	\$ 2,632,558	\$ -	\$ 2,632,558
Interest & Investments	\$ -	\$ -	\$ -
Total Source of Funds	\$ 2,632,558	\$ -	\$ 2,632,558
<u>Staffing:</u>			
Hours Allocated	250	-	250
FTE (based on 2080)	0.1	-	0.1
<u>Use of Funds:</u>			
Labor	\$ 33,863	\$ -	\$ 33,863
Benefits	\$ 13,633	\$ -	\$ 13,633
Indirect Costs	\$ 57,562	\$ -	\$ 57,562
Education & Training	\$ -	\$ -	\$ -
Consulting & Professional Services	\$ 275,000	\$ -	\$ 275,000
Operating Costs	\$ -	\$ -	\$ -
Equipment & Computers	\$ -	\$ -	\$ -
Meeting & Travel	\$ -	\$ -	\$ -
Other Administrative Costs	\$ 2,500	\$ -	\$ 2,500
Other Expenses	\$ -	\$ -	\$ -
Construction	\$ 2,250,000	\$ -	\$ 2,250,000
Total Use of Funds	\$ 2,632,558	\$ -	\$ 2,632,558
Net Gain (loss)	\$ -	\$ -	\$ -
Indirect Costs Contribution	1.38%	0.00%	1.38%

SAWPA Brine Line Capital Budget

FYE 2027

	Brine Line Protection Fund 320	Reach IV-D Corrosion Repair Fund 327	Total
<u>Source of Funds:</u>			
Grant Proceeds	\$ -	\$ -	\$ -
Member Agency Contributions	\$ -	\$ -	\$ -
Other Agency Contributions	\$ -	\$ -	\$ -
Other Income	\$ 4,828,641	\$ -	\$ 4,828,641
Interest & Investments	\$ -	\$ -	\$ -
Total Source of Funds	\$ 4,828,641	\$ -	\$ 4,828,641
<u>Staffing:</u>			
Hours Allocated	270	-	270
FTE (based on 2080)	0.1	-	0.1
<u>Use of Funds:</u>			
Labor	\$ 39,878	\$ -	\$ 39,878
Benefits	\$ 16,181	\$ -	\$ 16,181
Indirect Costs	\$ 70,082	\$ -	\$ 70,082
Education & Training	\$ -	\$ -	\$ -
Consulting & Professional Services	\$ 1,105,000	\$ -	\$ 1,105,000
Operating Costs	\$ -	\$ -	\$ -
Equipment & Computers	\$ -	\$ -	\$ -
Meeting & Travel	\$ -	\$ -	\$ -
Other Administrative Costs	\$ 2,500	\$ -	\$ 2,500
Other Expenses	\$ -	\$ -	\$ -
Construction	\$ 3,595,000	\$ -	\$ 3,595,000
Total Use of Funds	\$ 4,828,641	\$ -	\$ 4,828,641
Net Gain (loss)	\$ -	\$ -	\$ -
Indirect Costs Contribution	1.55%	0.00%	1.55%



SANTA ANA WATERSHED
PROJECT AUTHORITY

Santa Ana Watershed Project Authority

FYE 2026 and FYE 2027 Budgets

Jeff Mosher
General Manager
Santa Ana Watershed Project Authority

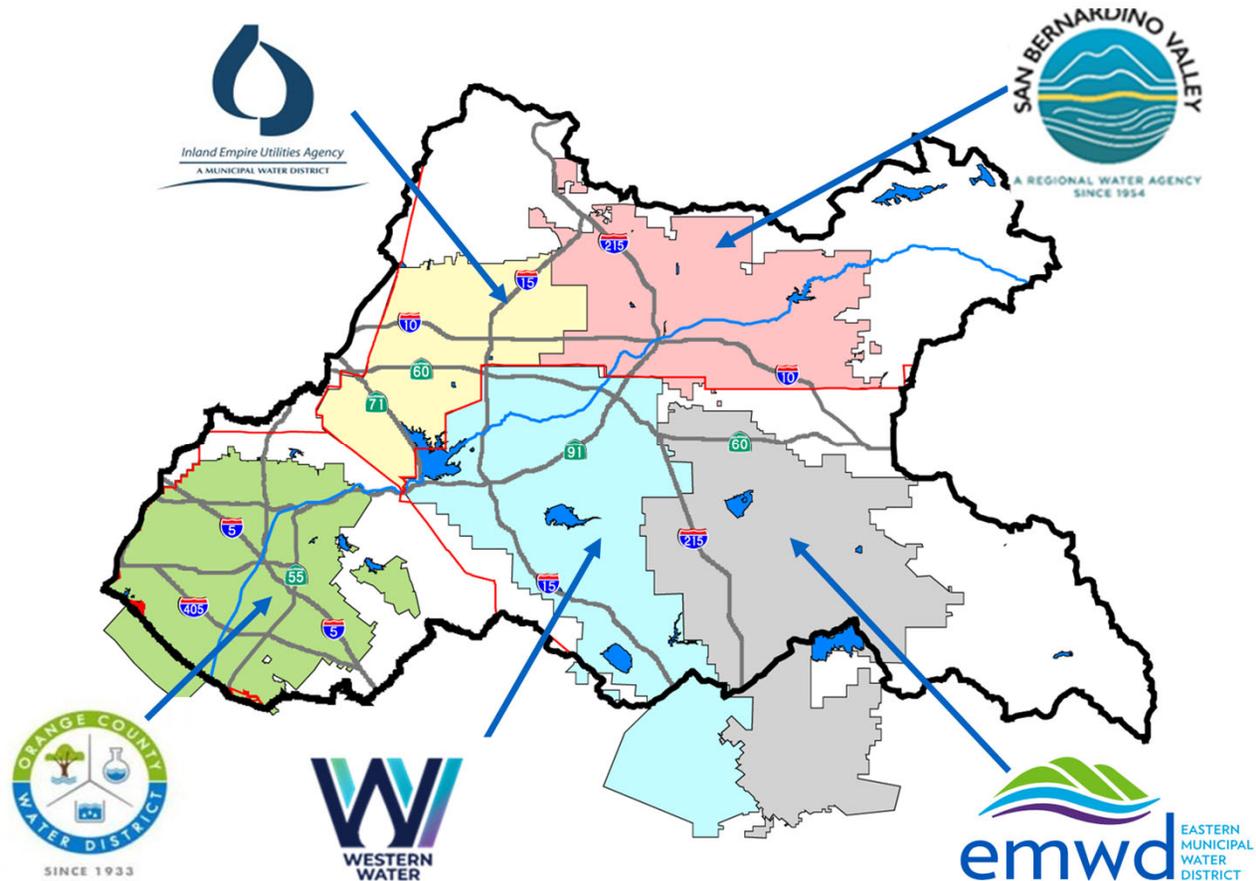
Orange County Water District Board of Directors Meeting
May 21, 2025

SAWPA

- Joint Powers Authority (5 Member Agencies)
- 5 member agencies
- 26 employees

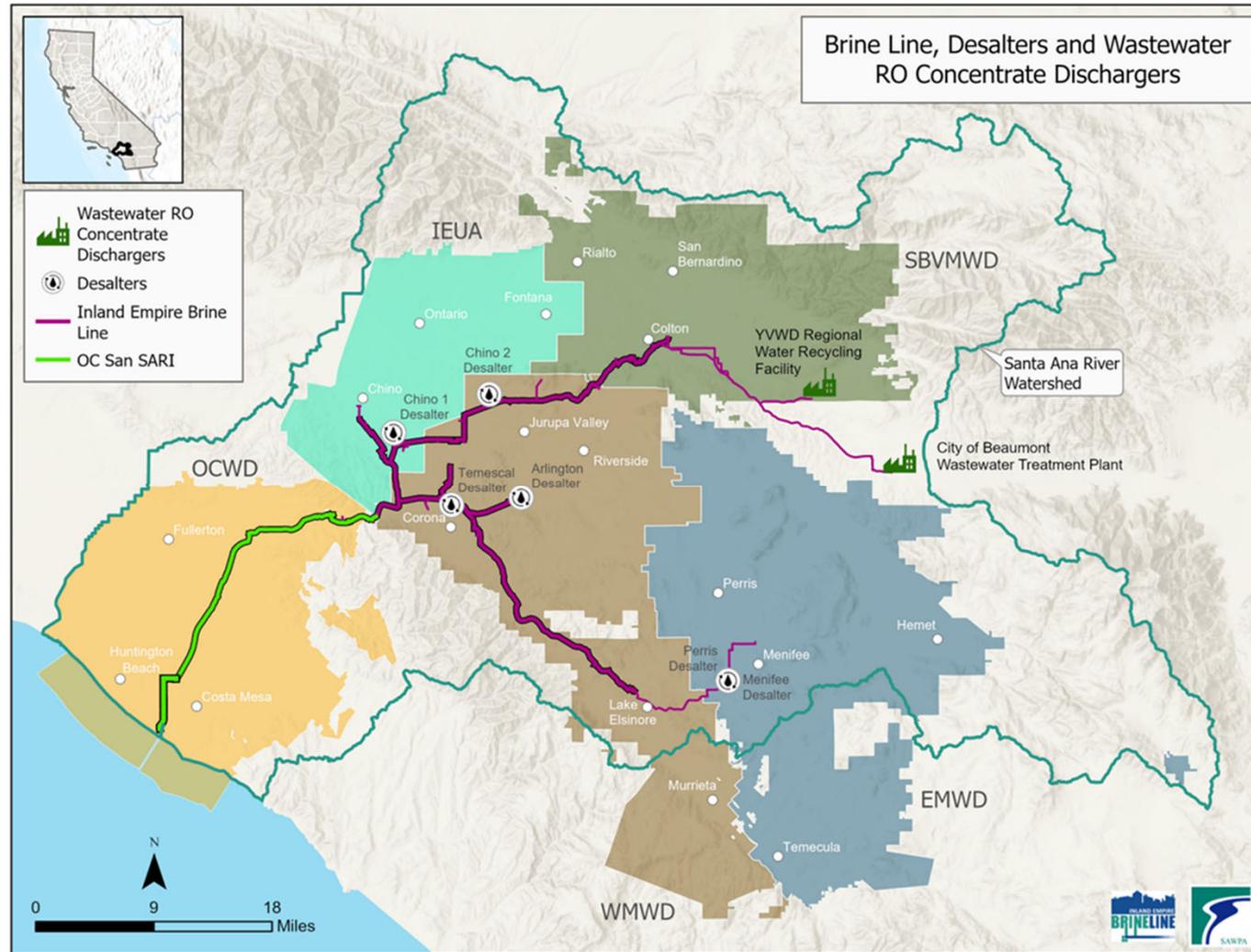
OCWD Representation at SAWPA

- SAWPA Commission
 - Director Bilodeau – Commissioner
 - Director Jung – Alternative
- OWOW Steering Committee
 - Director Jung – Member
- SAWPA Member Agency General Managers – meet monthly
- OCWD Staff
 - Participate on Project Working Groups
 - Participate in SAWPA Task Forces

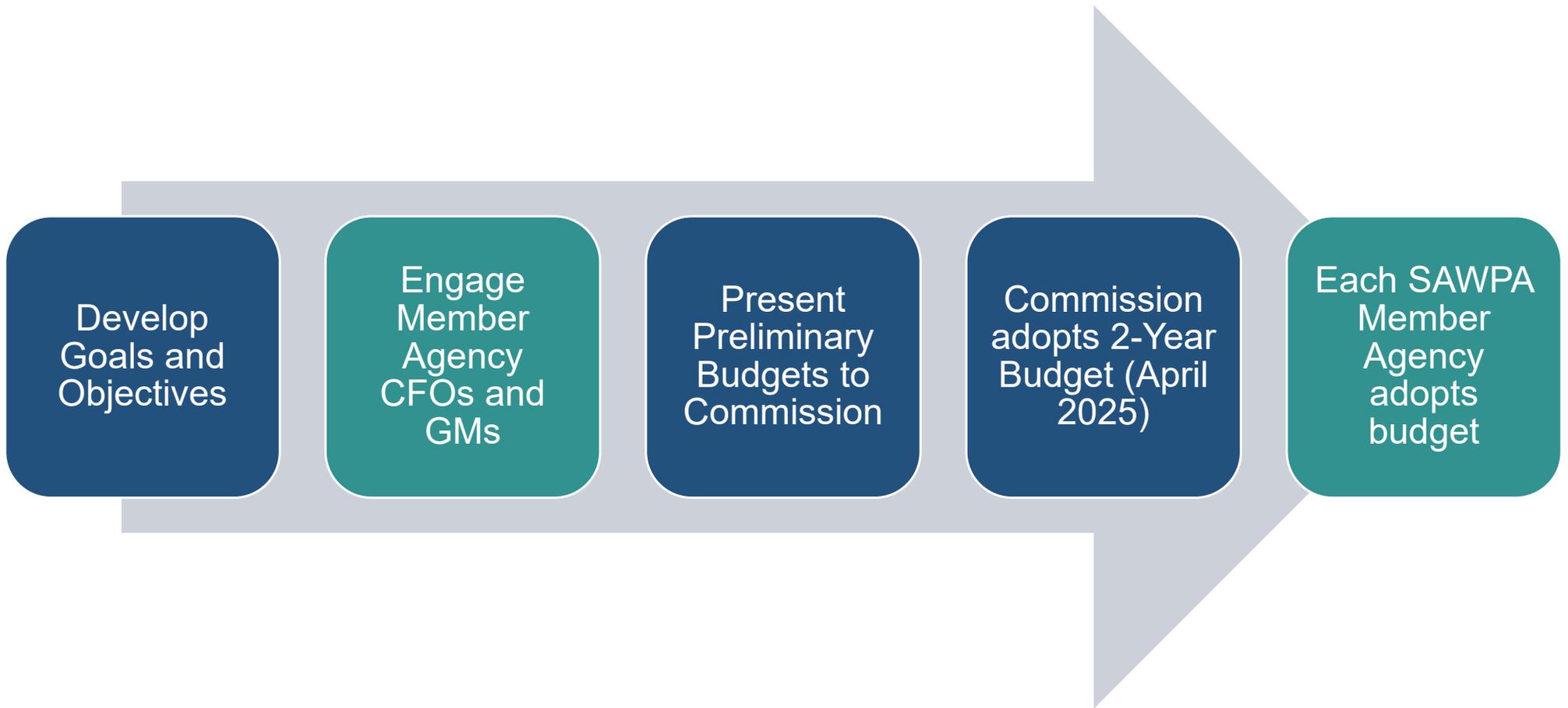


Inland Empire Brine Line

- 93 miles
- ~14 MGD (30 MGD capacity)
- Removes ~500,000 lbs of salt per day
- Brine and high saline wastewater
 - Desalters
 - Industry/Commercial
- OC San – Partner
 - Conveyance, treatment, and ocean discharge



SAWPA 2-Year Budget Development Process



SAWPA's Budget supports our Vision

- Collaboration with Member Agencies and stakeholders in the watershed
- Create a sustainable Santa Ana River Watershed
 - Drought-proof
 - Salinity balance
 - Support economy and the environment
- Leader in regional planning
- Create innovative and integrated solutions to challenges facing the watershed

SAWPA will be reviewing and updating our Strategic Plan over the next year with our Commission and Member Agencies.



Achieving SAWPA's Vision: Three Business Lines



Brine Line

- Export of salt from the watershed
- Achieve a salt balance
- Supports the local economy



OWOW

- Supports Integrated Regional Water Management (IRWM)
- Brings together stakeholders
- Work collaboratively
- Find solutions to the water resource challenges



Roundtables

- “Task Forces” on regional topics (including regulatory)
- Forums for agencies and organizations
- Address problems through planning and innovation
- SAWPA serves as the administrator/facilitator
- Includes participation by Regional Board staff

FYE 2026 and FYE 2027 Combined Revenues

Revenue	FYE 2026 Budget	FYE 2027 Budget
Discharge Fees (Brine Line)	\$13,038,465	\$13,604,122
Grant Proceeds	6,326,222	1,321,142
Member Agency Contributions (5 Agencies)	2,273,400	2,421,233
Other Agency Contributions	1,252,718	1,257,649
Mitigation Credit Sales	2,014,560	0
Operating Transfers	419,650	391,550
Use of Reserves	2,632,558	4,828,641
Other Income	192,111	223,516
Interest and Investments	1,500,000	1,500,000
Total	\$29,649,684	\$25,547,854

FYE 2026 and FYE 2027 Combined Expenses

Revenue	FYE 2026 Budget	FYE 2027 Budget
Brine Line Enterprise Fund	\$12,828,989	\$13,394,646
Brine Line Debt Service (SRF Loans)	1,709,476	1,709,476
General Fund	991,800	848,033
OWOW Fund	8,837,161	3,884,958
Roundtables Fund	2,066,341	2,195,872
Brine Line Capital Fund	2,632,558	4,828,641
	\$29,066,325	\$26,861,626

Contribution per SAWPA Member Agency (Total)

FYE	Per Member Agency	Inc/(Dcr) Over Prior Year	Total
2022	\$311,369	\$5,301	1.73%
2023*	\$413,952	\$102,583	32.9%
2024*	\$461,655	\$47,703	11.5%
2025*	\$452,282	(\$9,373)	-2.0%
2026*	\$454,680	\$2,398	0.53%
2027*	\$484,247	\$29,567	6.5%

* Includes new special projects PFAS Study and Cloud Seeding

Contribution per SAWPA Member Agency (Detailed)

Activity	Actual FYE 2025	Budget FYE 2026	Budget FYE 2027
General Planning	\$80,000	\$100,000	\$100,000
USBR Partnership Studies	4,000	4,000	4,000
Watershed Management (OWOW)	80,000	100,000	100,000
ICARP	0	8,000	0
PFAS Study	110,000	90,000	80,000
Cloud Seeding	31,700	0	34,000
Santa Ana River Fish Conservation	2,000	4,000	4,000
LESJWA Management	2,000	2,000	2,000
State Leg/Reg Outreach	43,050	46,680	50,247
Federal Leg/Reg Outreach	4,532	0	0
General Fund	95,000	100,000	110,000
	\$452,282	\$454,680	\$484,247

One Water One Watershed (OWOW): Integrated Regional Water Management (IRWM)



- **Prop 84 Round 1**
 - GWRS Flow Equalization (OCWD)
 - Alamitos Barrier Improvement Project (OCWD)
- **Prop 84 Round 2**
 - Prado Basin Sediment Management Demonstration Project (OCWD)
- **Prop 84 Round 4**
 - Santa Ana River Conservation and Conjunctive Use Project (SARCCUP)
- **Prop 1 Rounds 1 and 2**
 - Groundwater Replenishment System Final Expansion (OCWD)
 - Orange County Regional PFAS Groundwater Treatment Program (OCWD)
- **NEW: Prop 4 (2024)**
 - TBD

IRWM – Orange County

- North Orange County Integrated Regional Water Management (IRWM)
 - North and Central Watershed Management Areas (WMAs)
 - 2018 North OC IRWM Plan
- OC Plan Contacts:



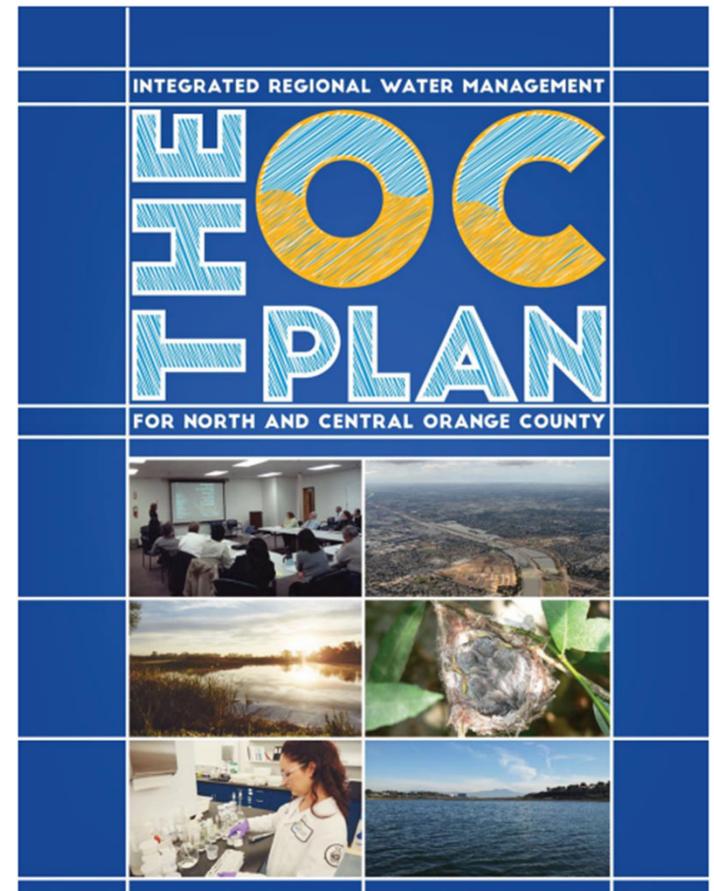
County of Orange
Orange County Watersheds
Orange County Department of Public Works
2301 N. Glassell Street
Orange, California 92865
www.ocwatersheds.com



Orange County Water District
18700 Ward Street
Fountain Valley, California 92708
(714) 378-8248
www.ocwd.com



Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, California 92708
(714) 962-2411
www.ocsd.com



Orange County Projects Funded (Prop 1)

Prop 1 Funding	Project Name	Project Lead	Grant Funding
Round 1	Groundwater Replenishment System Final Expansion	Orange County Water District	\$3,589,553
Round 1	Raitt & Myrtle Park (Multi-Benefit Stormwater Capture) Ed Caruthers Park	Santa Ana, City	\$1,670,000
Round 2	Orange County Regional PFAS Groundwater Treatment Program	Orange County Water District	\$4,200,000
Round 2	Santa Ana Zoo Stormwater Capture and Diversion Project	Santa Ana, City	\$2,603,525
Round 2	Making Conservation an Orange County Way of Life	Municipal Water District of Orange County	\$780,275
		Totals	\$12,843,353

OCWD Involvement in SAWPA Efforts



- **SAWPA Task Forces:**
 - Basin Monitoring Program Task Force
 - Emerging Constituents Program Task Force
 - Santa Ana River Fish Conservation
 - Regional Water Quality Monitoring Program Task Force (OCFCD)
- **Other Initiatives (supported with IRWM grants):**
 - Santa Ana River Watershed Cloud Seeding Pilot Program
- **Recent Initiative:**
 - Climate Adaptation and Resilience Plan (CARP) grant



CA Governor's Office of
**Land Use and
Climate Innovation**



ICARP

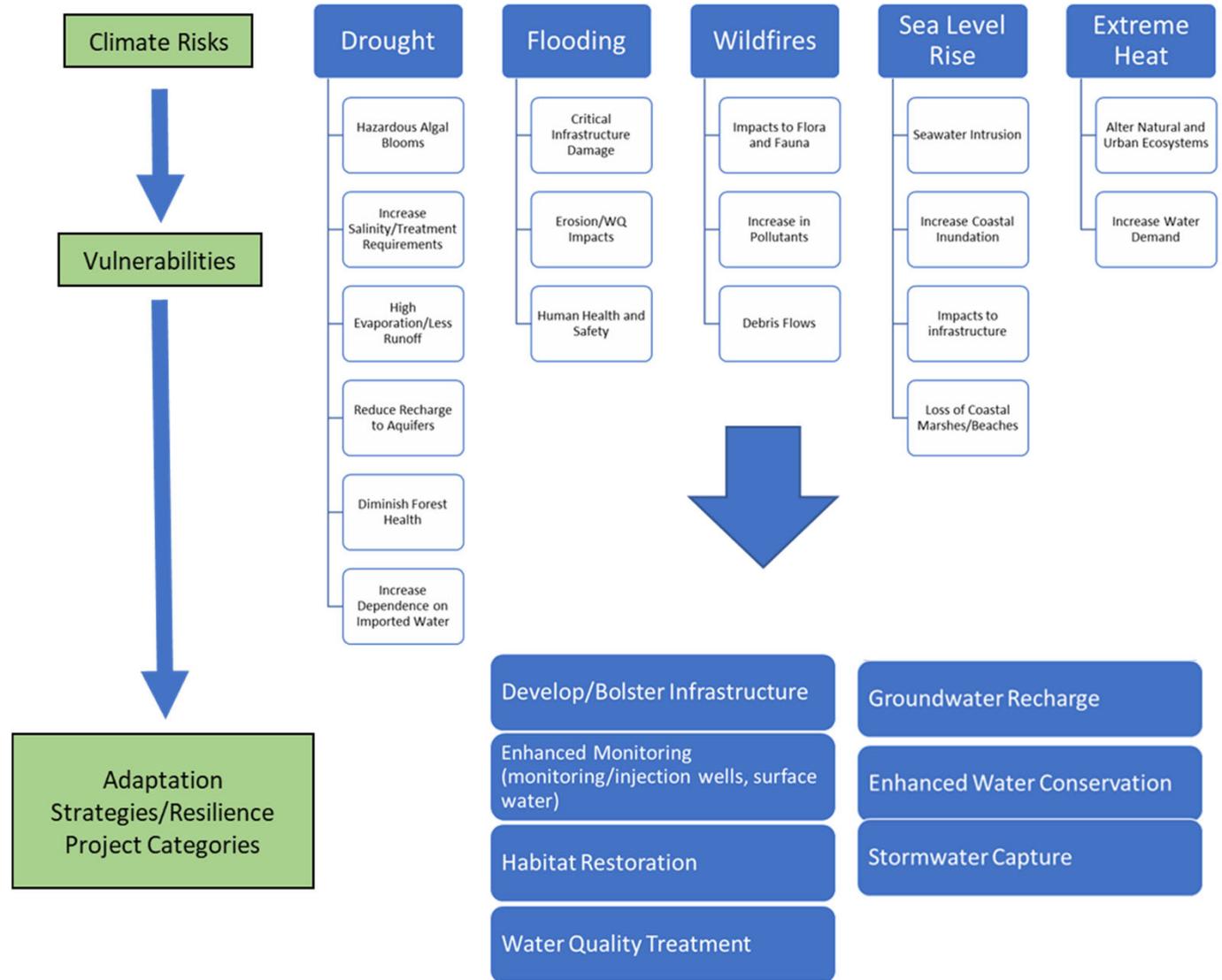
INTEGRATED CLIMATE ADAPTATION & RESILIENCY PROGRAM

Santa Ana River Watershed Climate Adaption and Resilience Plan (CARP)

- **Grant** under the Governor's Office of Land Use and Climate Innovation
 - SAWPA was awarded grant funding in an amount of **\$644,190**
- **Purpose:** Help build climate resilience in the Santa Ana River Watershed

Climate Adaptation and Resilience Plan (CARP)

- Focus
 - Climate Resiliency
 - Watershed Resiliency
- Goal
 - Integrate regional and local adaptive management practices
- Develop Plan
 - Jan 2025 – July 2026



Thank You

Jeff Mosher
Santa Ana Watershed Project Authority
Office (951) 354-4240 | Cell (951) 840-0428
jmosher@sawpa.gov
sawpa.gov



AGENDA ITEM SUBMITTAL

Meeting Date: May 21, 2025

To: Board of Directors

From: John Kennedy

Staff Contact: R. Herndon

Budgeted: N/A

Budgeted Amount: N/A

Cost Estimate: N/A

Funding Source: N/A

Program/ Line Item No.: N/A

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: ANNUAL SANTA ANA RIVER WATERMASTER REPORT

SUMMARY

The Santa Ana River Watermaster completed its annual report that contains the river flow findings for the 2023-24 water year ending September 30, as required by the 1969 Judgment.

Attachment: Presentation slides

RECOMMENDATION

Informational

BACKGROUND/ANALYSIS

The Santa Ana River Watermaster has prepared and published its 2023-24 Santa Ana River Watermaster Report in accordance with the 1969 Judgment. The report is available electronically upon request.

San Bernardino rainfall was 21.18 inches in 2023-24, as compared to the average of 17.98 inches during the base period of 1934-35 through 1959-60. It was the second "wet" year in a row following 2022-23. The Watermaster determined that the annual Base Flow volume for the Santa Ana River at Prado Dam was 96,064 acre-feet, and the Adjusted Base Flow (adjusted for water quality) was 121,361 acre-feet. Base Flow was approximately 8 percent more than in the previous year, in large part due to the high rainfall, and continued to track with the wastewater discharges in the upper watershed.

Under the Judgement, the minimum annual Base Flow obligation of the upstream agencies is 34,000 acre-feet at Prado, given that there is a cumulative credit.

PRIOR RELEVANT BOARD ACTIONS

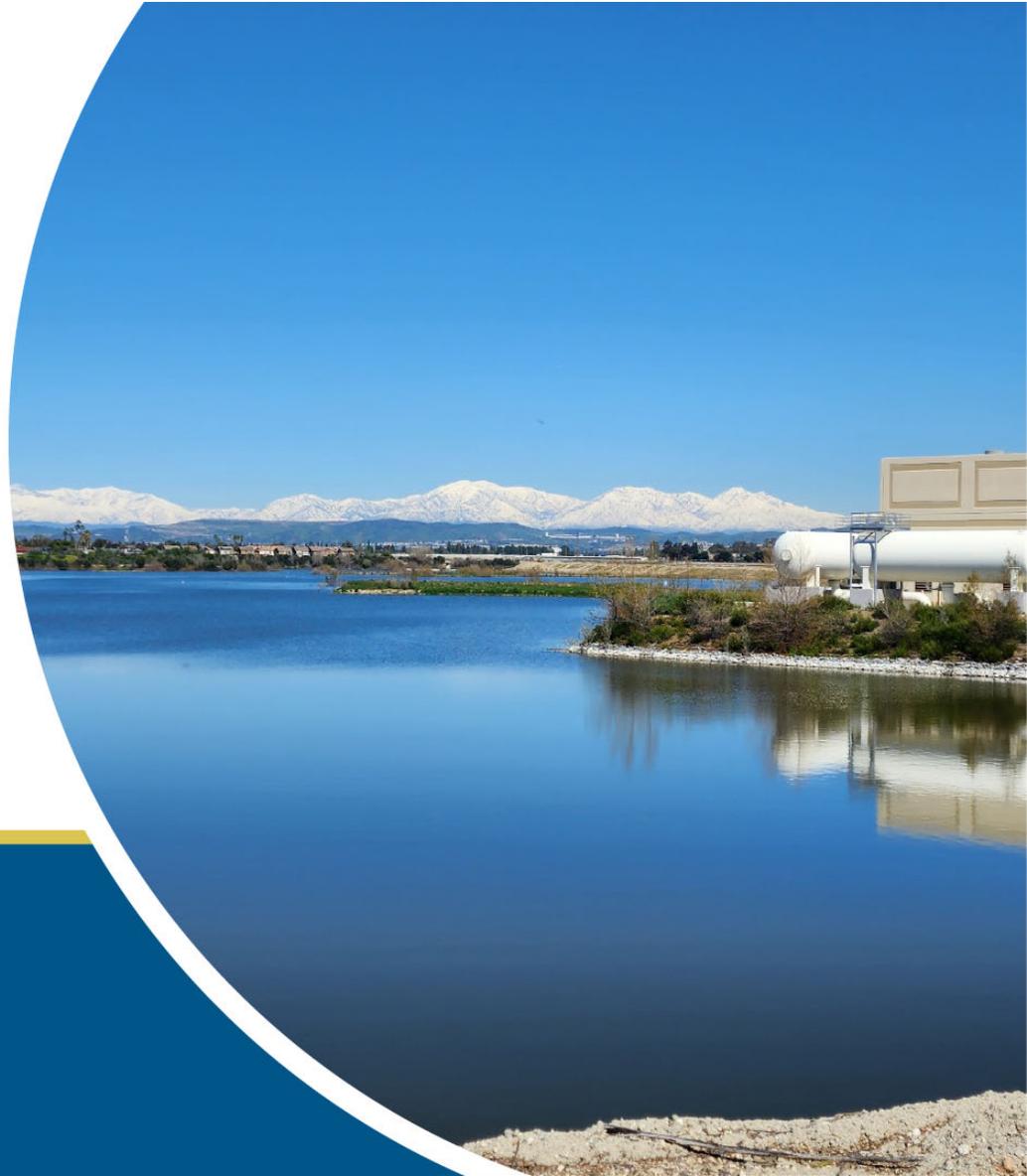
N/A



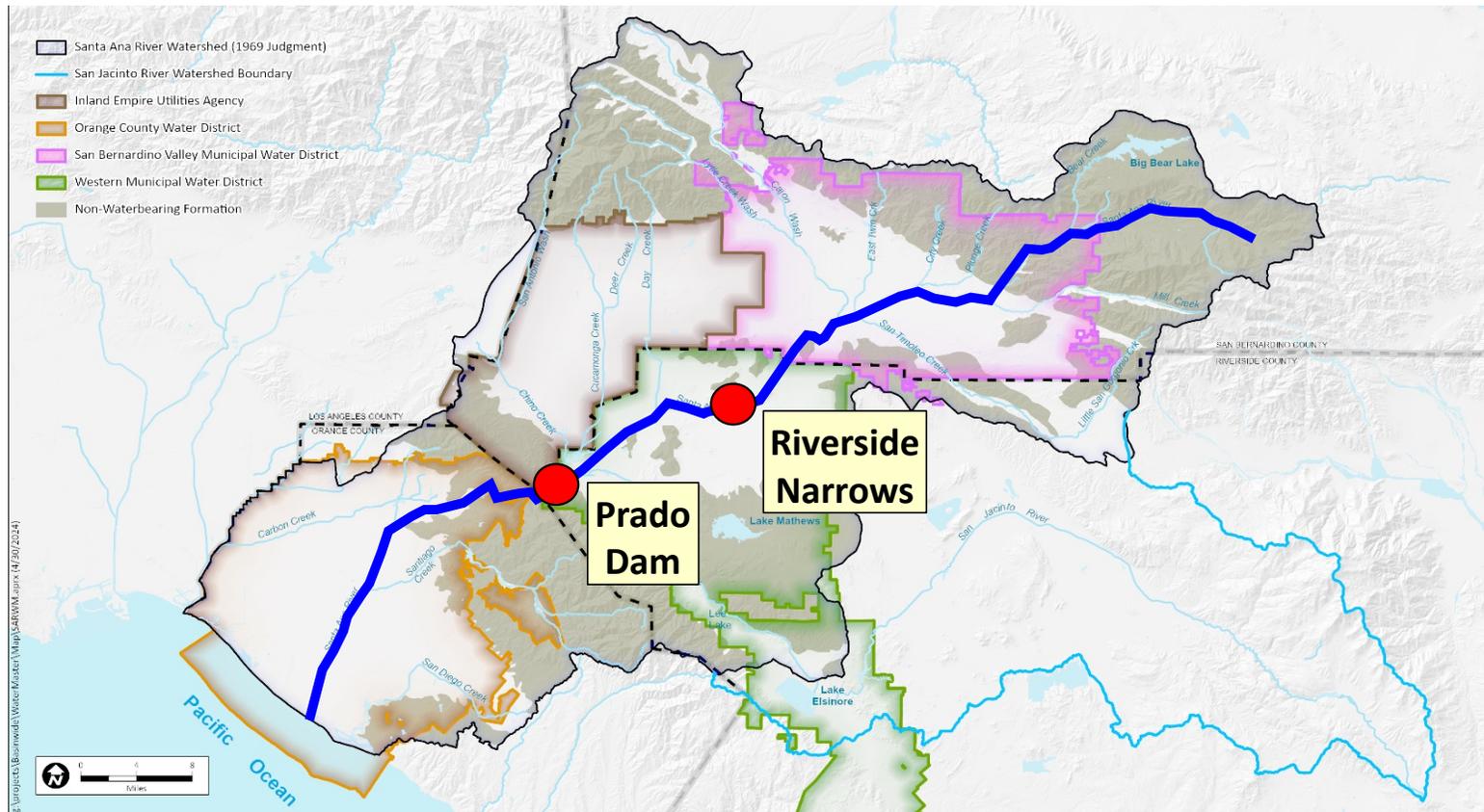
54th Annual Report Santa Ana River Watermaster

For Water Year
October 1, 2023 – September 30, 2024

Board of Directors
May 14, 2025

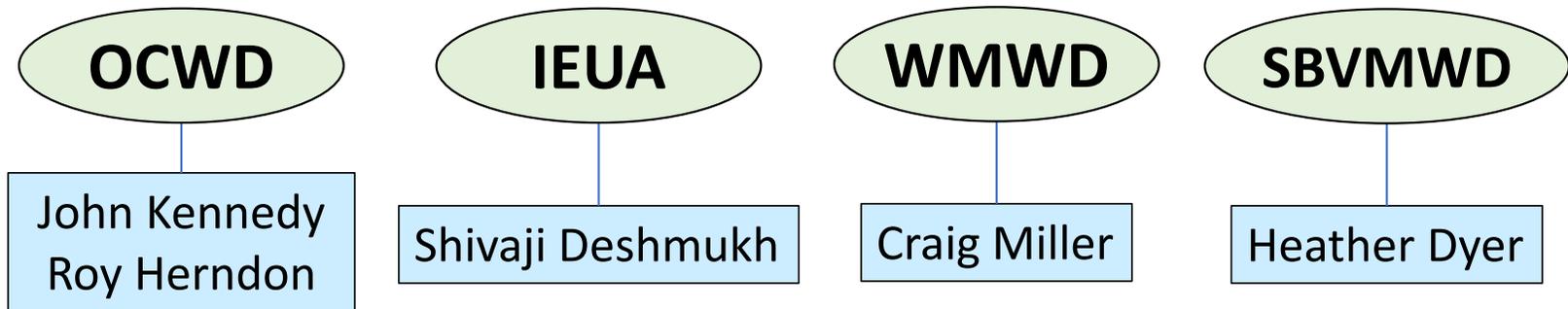


The 1969 Judgment requires minimum base flows at two key stream gages on the Santa Ana River



The Judgment created a Watermaster Committee

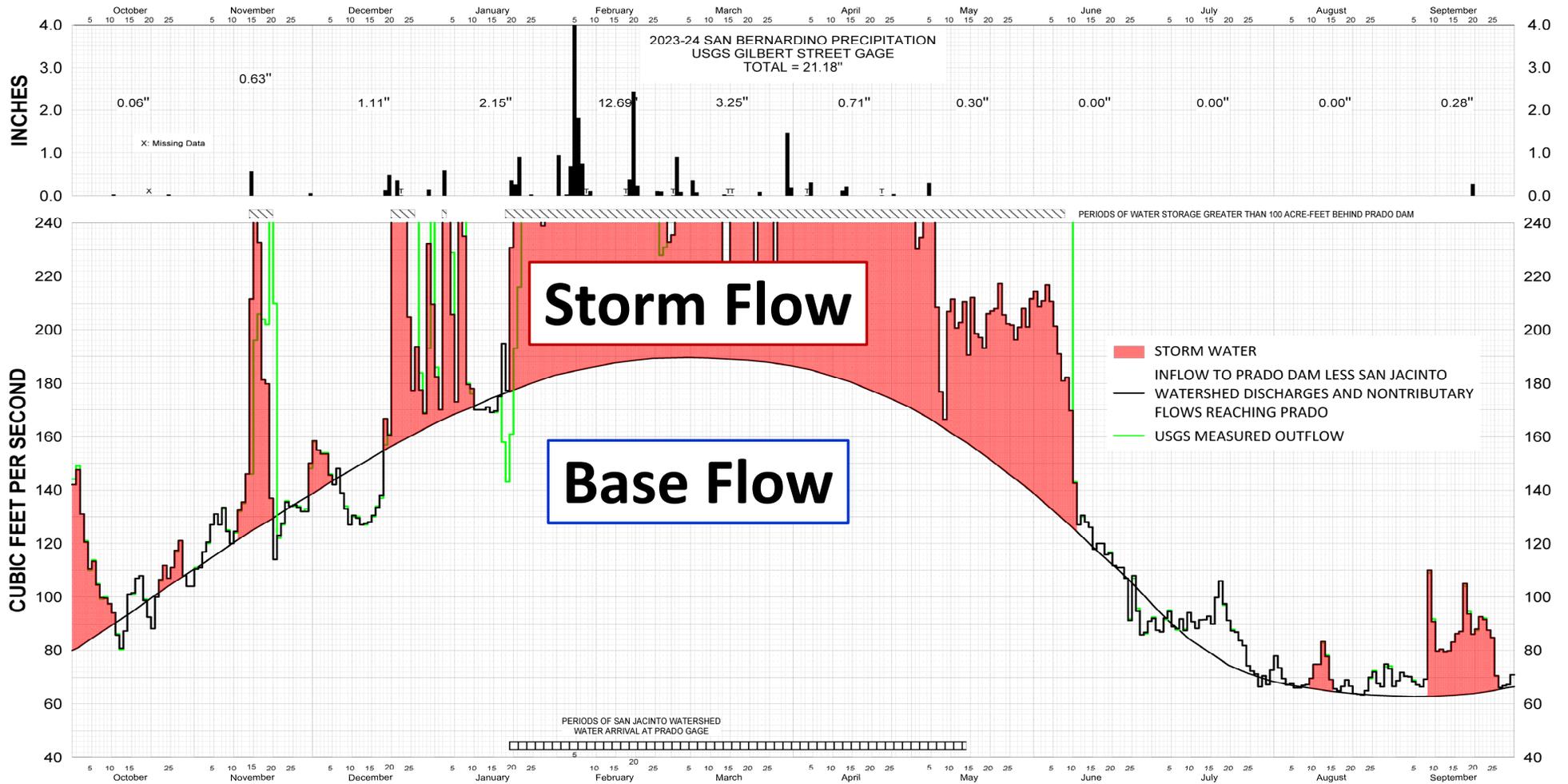
- Nominated by four water agencies
- Appointed by Court to administer Judgment provisions



Watermaster Duties

- Maintain a continuous accounting and report findings for each water year
- Water year is October 1 – September 30
- Publish and submit annual report to Court and parties

River flow hydrograph below Prado Dam

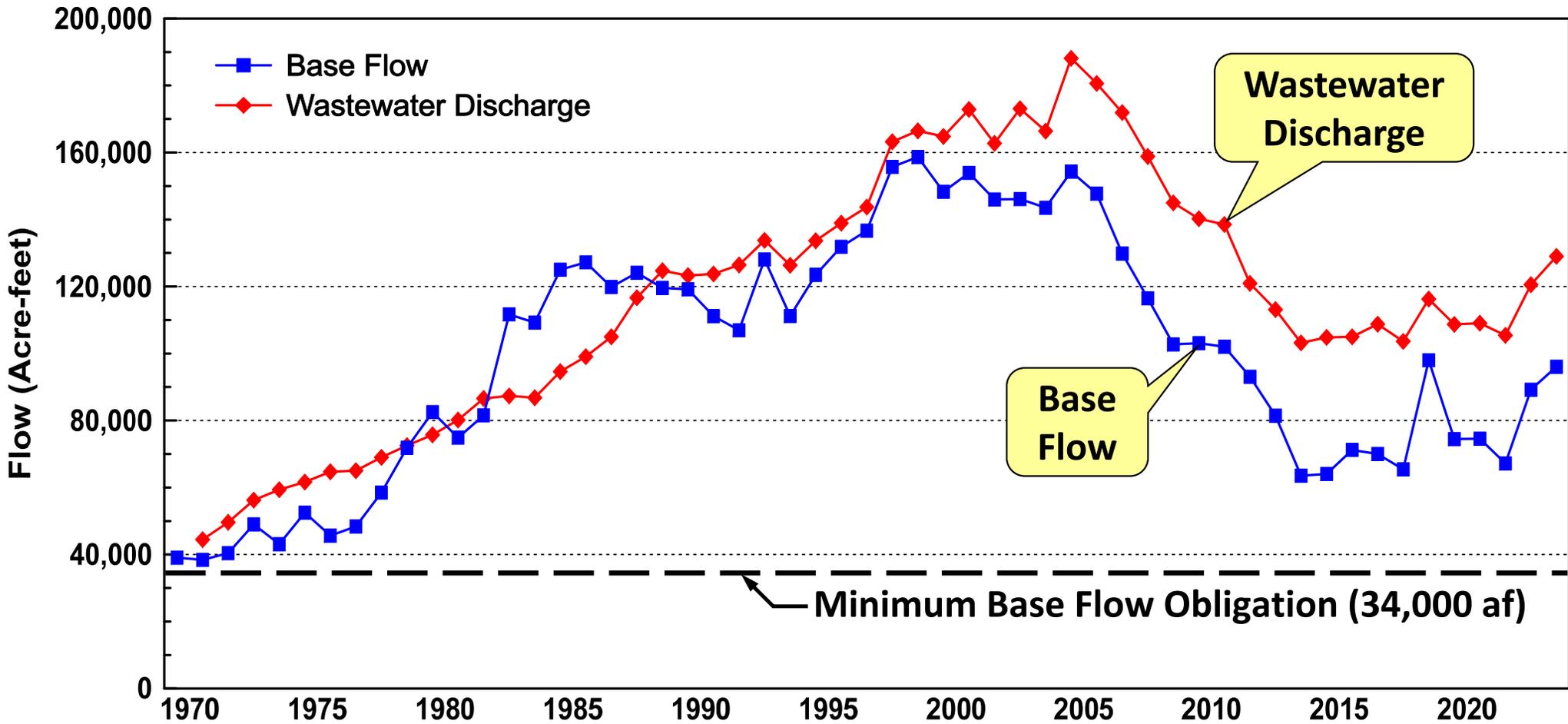


DISCHARGE OF THE SANTA ANA RIVER AT PRADO DAM & SAN BERNARDINO PRECIPITATION WATER YEAR 2023-24

Santa Ana River Watermaster Findings at Prado

	2022-23*	2023-24*
San Bernardino Precip. (in)	25.72	21.18
Outflow from Prado (af)	312,263	267,147
Base Flow (af)	89,199	96,064
Weighted Avg. TDS of Base and Storm Flows (mg/L)	354	384
Adjusted Base Flow (af)	114,918	121,361
Cumulative Credit (af)	3,896,258	3,978,555

Base Flow of the Santa Ana River at Prado Dam and Wastewater Discharge to the River



End of Presentation

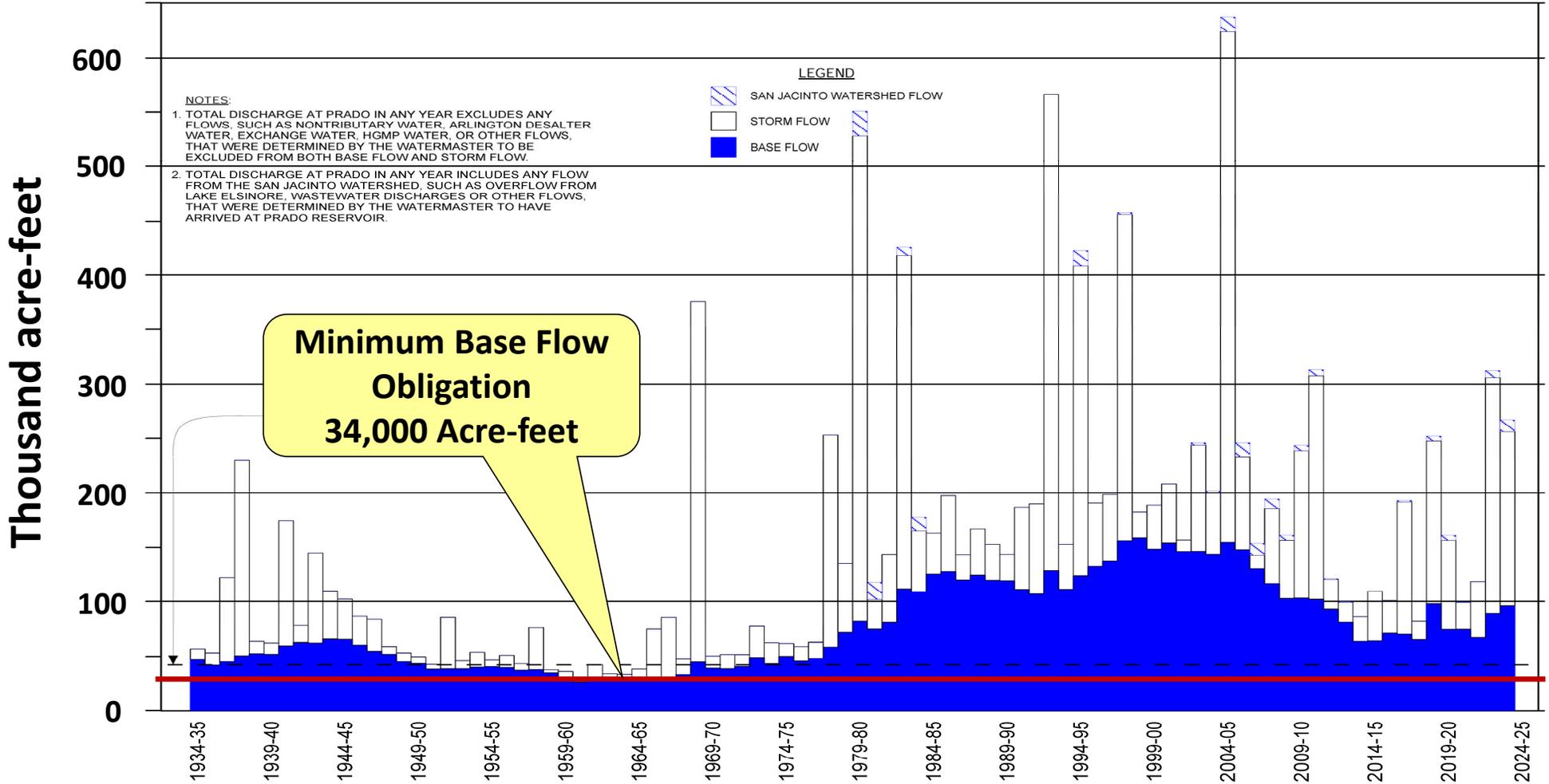
OCWD v. City of Chino, et al.

- Filed in October 1963
- 2,500 defendants (Upper Area)
- 1,500 cross-defendants (Lower Area)
- Consolidation
 - Chino Municipal Water District (IEUA)
 - Western Municipal Water District
 - San Bernardino Valley Municipal Water District
 - Orange County Water District

1969 Stipulated Judgment

- Ended decades of legal battles regarding upstream and downstream (below Prado) water use
- Declared rights of entities in the Lower Area as against those in the Upper Area and provides a physical solution to satisfy those rights
- Effective date October 1, 1970

Santa Ana River Flow at Prado Since 1934-35





S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

11615 Sterlina Avenue. Riverside. California 92503 • (951) 354-4220

This meeting will be conducted in person at the addresses listed below. As a convenience to the public, members of the public may also participate virtually using one of the options set forth below. Any member of the public may listen to the meeting or make comments to the Commission using the call-in number or Zoom link. However, in the event there is a disruption of service which prevents the Authority from broadcasting the meeting to members of the public, the meeting will not be postponed or rescheduled but will continue without remote participation. The remote participation option is provided as a convenience to the public and is not required. Members of the public are welcome to attend the meeting in-person.

Meeting Access Via Computer (Zoom):	Meeting Access Via Telephone:
<ul style="list-style-type: none"> • https://sawpa.zoom.us/j/88301417028 	<ul style="list-style-type: none"> • 1 (669) 900-6833
<ul style="list-style-type: none"> • Meeting ID: 883 0141 7028 	<ul style="list-style-type: none"> • Meeting ID: 883 0141 7028

REGULAR COMMISSION MEETING TUESDAY, MAY 20, 2025 – 9:30 A.M.

at

**Inland Empire Utilities Agency
Board Room
6075 Kimball Avenue, Building A
Chino, CA 91708**

and

601 N. Ross Street, Room 327
Santa Ana, CA 92701

and

380 E. Vanderbilt Way
San Bernardino, CA 92408

AGENDA

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE

2. ROLL CALL

3. PUBLIC COMMENTS

Members of the public may address the Commission on items within the jurisdiction of the Commission; however, no action may be taken on an item not appearing on the agenda unless the action is otherwise authorized by Government Code §54954.2(b).

Members of the public may make comments in-person or electronically for the Commissions' consideration by sending them to publiccomment@sawpa.gov with the subject line "Public Comment". Submit your electronic comments by 5:00 p.m. on Monday, May 19, 2025. All public comments will be provided to the Chair and may be read into the record or compiled as part of the record. Individuals have a limit of three (3) minutes to make comments and will have the opportunity when called upon by the Commission.

4. ITEMS TO BE ADDED OR DELETED

Pursuant to Government Code §54954.2(b), items may be added on which there is a need to take immediate action and the need for action came to the attention of the SAWPA Commission subsequent to the posting of the agenda.

5. CONSENT CALENDAR

All matters listed on the Consent Calendar are considered routine and non-controversial and will be acted upon by the Commission by one motion as listed below.

A. APPROVAL OF MEETING MINUTES: MAY 6, 2025

Recommendation: Approve as posted.

6. NEW BUSINESS

A. INLAND EMPIRE BRINE LINE RATE RESOLUTION (CM#2025.37)

Presenter: David Ruhl

Recommendation: Adopt Resolution No. 2025-2 establishing the Fiscal Year 2025-26 Inland Empire Brine Line Rates to be effective July 1, 2025.

B. CHANGE ORDER NO. 1 FOR ARUNDO DONAX REMOVAL IN THE SANTA ANA RIVER BASIN HEADWATERS PROJECT (CM#2025.38)

Presenter: Ian Achimore

Recommendation: Approval of the following related to the Inland Empire Resource Conservation District (IERCD) and its Arundo Donax Removal in the Santa Ana River Basin Headwaters Project:

1. Change Order No. 1 to Task Order IERCD387-01, which increases the Project budget from \$147,777 to \$616,045 (an increase of \$468,268).
2. The IERCD General Services Agreement extension from its current deadline of December 31, 2027 to December 31, 2029.

7. INFORMATIONAL REPORTS

Recommendation: Receive for information.

A. CASH TRANSACTIONS REPORT – MARCH 2025

Presenter: Karen Williams

B. INTER-FUND BORROWING – MARCH 2025 (CM#2025.39)

Presenter: Karen Williams

C. PERFORMANCE INDICATORS/FINANCIAL REPORTING – MARCH 2025 (CM#2025.40)

Presenter: Karen Williams

D. PROJECT AGREEMENT 25 – OWOW FUND – FINANCIAL REPORT, MARCH 2025

Presenter: Karen Williams

E. PROJECT AGREEMENT 26 – ROUNDTABLE FUND – FINANCIAL REPORT, MARCH 2025

Presenter: Karen Williams

F. BUDGET VS ACTUAL VARIANCE REPORT FYE 2025 THIRD QUARTER – MARCH 31, 2025 (CM#2025.41)

Presenter: Karen Williams

G. FINANCIAL REPORT FOR THE THIRD QUARTER ENDING MARCH 31, 2025

Presenter: Karen Williams

- H. **STATE LEGISLATIVE REPORT**
Presenter: Jeff Mosher
- I. **GENERAL MANAGER REPORT**
Presenter: Jeff Mosher
- J. **CHAIR’S COMMENTS/REPORT**
- K. **COMMISSIONERS’ COMMENTS**
- L. **COMMISSIONERS’ REQUEST FOR FUTURE AGENDA ITEMS**

8. CLOSED SESSION

There were no Closed Session items anticipated at the time of the posting of this agenda.

9. ADJOURNMENT

PLEASE NOTE:

Americans with Disabilities Act: If you require any special disability related accommodations to participate in this meeting, call (951) 354-4220 or email svilla@sawpa.gov 48-hour notification prior to the meeting will enable staff to make reasonable arrangements to ensure accessibility for this meeting. Requests should specify the nature of the disability and the type of accommodation requested.

Materials related to an item on this agenda submitted to the Commission after distribution of the agenda packet are available for public inspection during normal business hours at the SAWPA office, 11615 Sterling Avenue, Riverside, and available at www.sawpa.gov, subject to staff's ability to post documents prior to the meeting.

Declaration of Posting

I, Sara Villa, Clerk of the Board of the Santa Ana Watershed Project Authority declare that on May 15, 2025, a copy of this agenda has been uploaded to the SAWPA website at www.sawpa.gov and posted at the following locations: SAWPA's office at 11615 Sterling Avenue, Riverside, CA 92503 | IEUA's Office at 6075 Kimball Avenue, Chino, CA 91708 | 601 N. Ross Street, Room 327, Santa Ana, CA 92701 | 380 E. Vanderbilt Way, San Bernardino, CA 92408.

2025 SAWPA Commission Meetings/Events

First and Third Tuesday of the Month

(NOTE: All meetings begin at 9:30 a.m., and are held at SAWPA, unless otherwise noticed.)

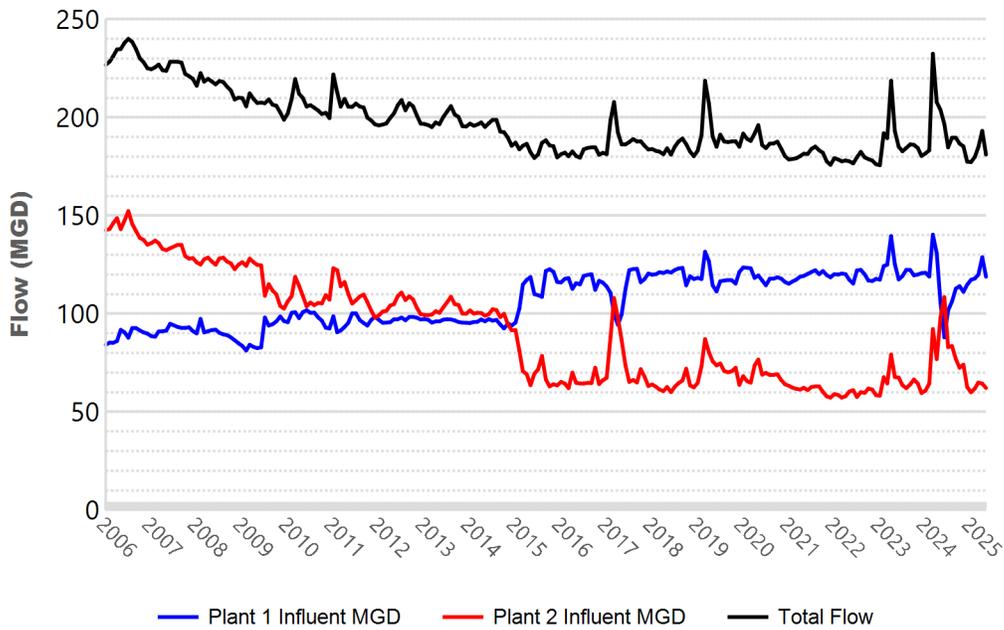
January		February	
1/7/25	Commission Workshop [cancelled]	2/4/25	Commission Workshop
1/21/25	Regular Commission Meeting	2/18/25	Regular Commission Meeting
March		April	
3/4/25	Commission Workshop	4/1/25	Commission Workshop
3/18/25	Regular Commission Meeting	4/15/25	Regular Commission Meeting
May		June	
5/6/25	Commission Workshop	6/3/25	Commission Workshop - EMWD
5/20/25	Regular Commission Meeting - IEUA	6/17/25	Regular Commission Meeting - EMWD
5/13 – 5/15/25	ACWA Spring Conference, Monterey, CA		
July		August	
7/1/25	Commission Workshop - WMWD	8/5/25	Commission Workshop - SBVMWD
7/15/25	Regular Commission Meeting - WMWD	8/19/25	Regular Commission Meeting - IEUA
September		October	
9/2/25	Commission Workshop	10/7/25	Commission Workshop
9/16/25	Regular Commission Meeting	10/21/25	Regular Commission Meeting
November		December	
11/4/25	Commission Workshop	12/2/25	Commission Workshop
11/18/25	Regular Commission Meeting	12/16/25	Regular Commission Meeting
		12/2 – 12/4/25	ACWA Fall Conference, San Diego, CA

WATER RESOURCES SUMMARY

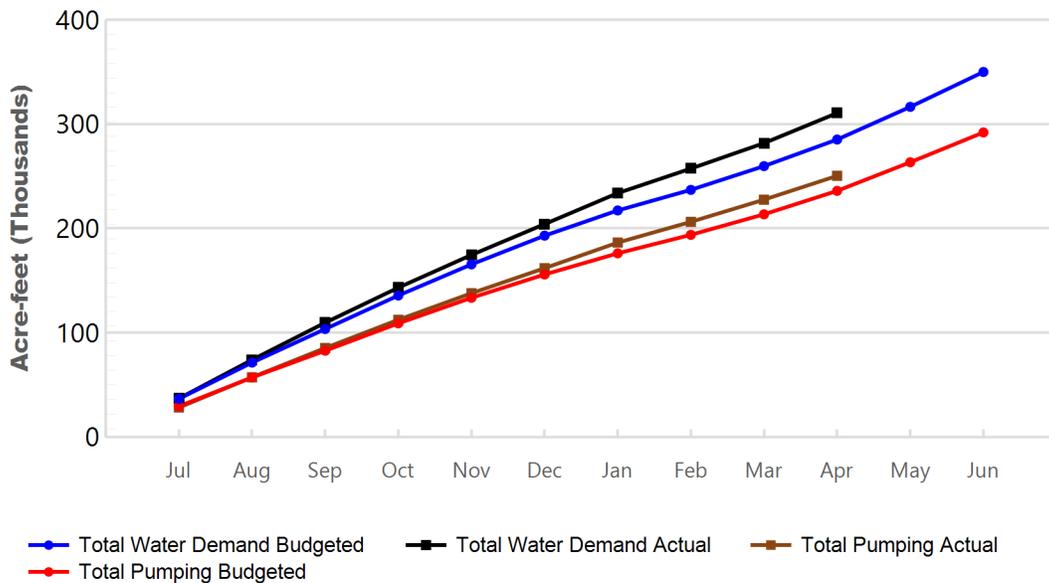
April 2025

INFLOWS & OUTFLOWS (acre-feet)	Total for Month	Year to Date -	
		This Year	Last Year
BASIN SUPPLIES			
Water Purchases from MWD (excludes In Lieu)	0	13	7
SAR & Santiago Creek Flows (accounts for storage to/from recharge facilities)	21,689	112,291	278,817
GWRS Water to Forebay	8,098	72,935	72,752
GWRS Water to Mid-Basin Injection Wells	450	5,782	5,875
GWRS Water to Talbert Barrier	1,358	15,391	14,534
OC-44 and F. Valley Water to Talbert Barrier	0	10	11
Alamitos Barrier Water	170	1,987	1,679
Incidental Recharge (estimated)	1,500	17,100	25,700
Evaporation from Recharge Basins	(406)	(2,613)	(3,233)
River Flow Lost to Ocean	(53)	(2,020)	(117,292)
Total Groundwater Recharge	32,806	220,877	278,850
GROUNDWATER PRODUCTION	22,851	250,408	226,627
BASIN BALANCE			
Change in Groundwater Storage	9,955	(29,530)	52,223
Accumulated Overdraft	----	162,536	136,781
OCWD IN LIEU PURCHASES (MWD CYCLIC STORAGE)	0	0	0
OTHER KEY INFORMATION			
1. MWD Water Deliveries to Producers	4,180	42,658	47,204
2. Achieved Basin Production Percentage (Current BPP - 85%)	84.5 %	85.4 %	82.8 %
3. Total Water Demand	28,799	310,558	290,188
4. Total GWRS Production	9,908	94,149	93,202
5. Green Acres Project Water	277	3,101	2,432
6. SAR Water Quality			
- Total Dissolved Solids (TDS) of SAR below Prado Dam (ppm)	556	----	474
- Total Nitrogen of SAR below Prado Dam (ppm)	4.6	----	2.6
7. Month-End Water Storage Behind Prado Dam	1	----	14,067
8. Month-End Water Storage in Recharge Facilities	17,204	----	24,303
9. Water Storage Change in Recharge Facilities	(4,429)	(1,278)	3,053
10. Total Artificial Recharge	31,306	203,777	253,150
11. Monthly Mean Temperature at Santa Ana Fire Station	60 °F	----	62.6 °F
12. Rainfall at FHQ (inches)	0.29	6.59	20.78

Orange County Sanitation District Influent Flows Report

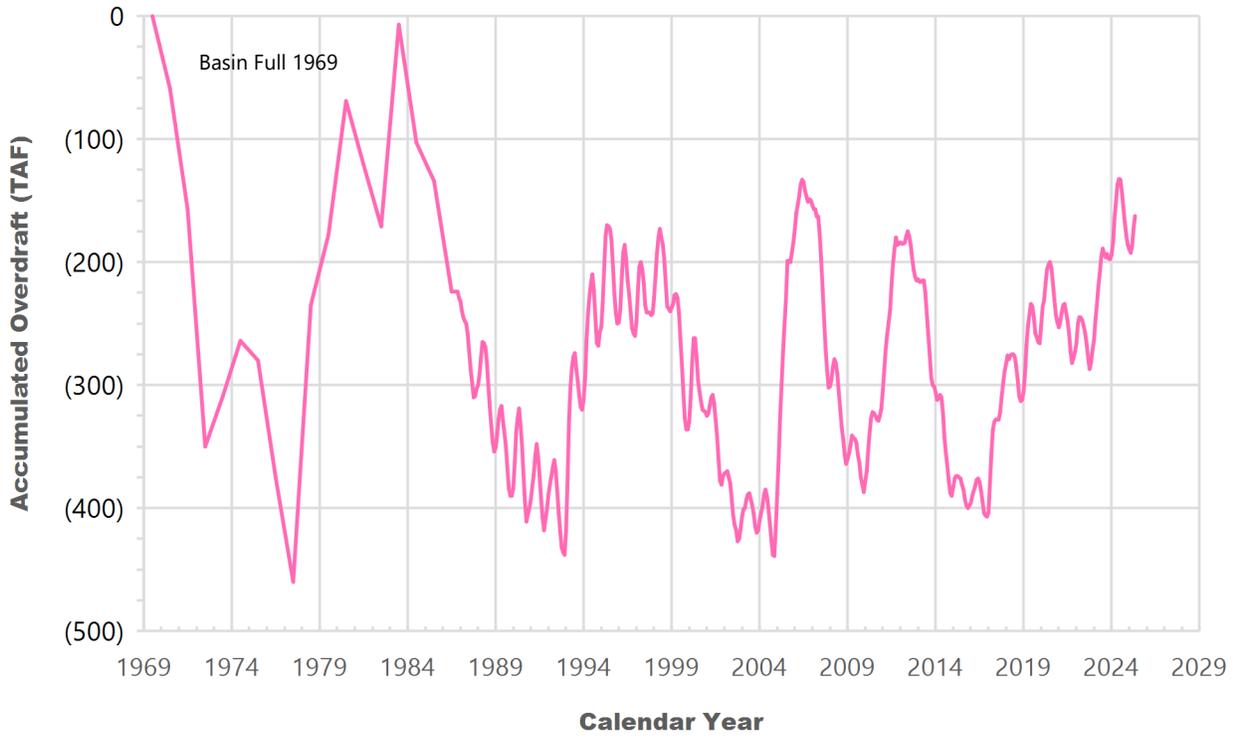


2024-25 Water Demands/Groundwater Pumping/RA Revenue Report

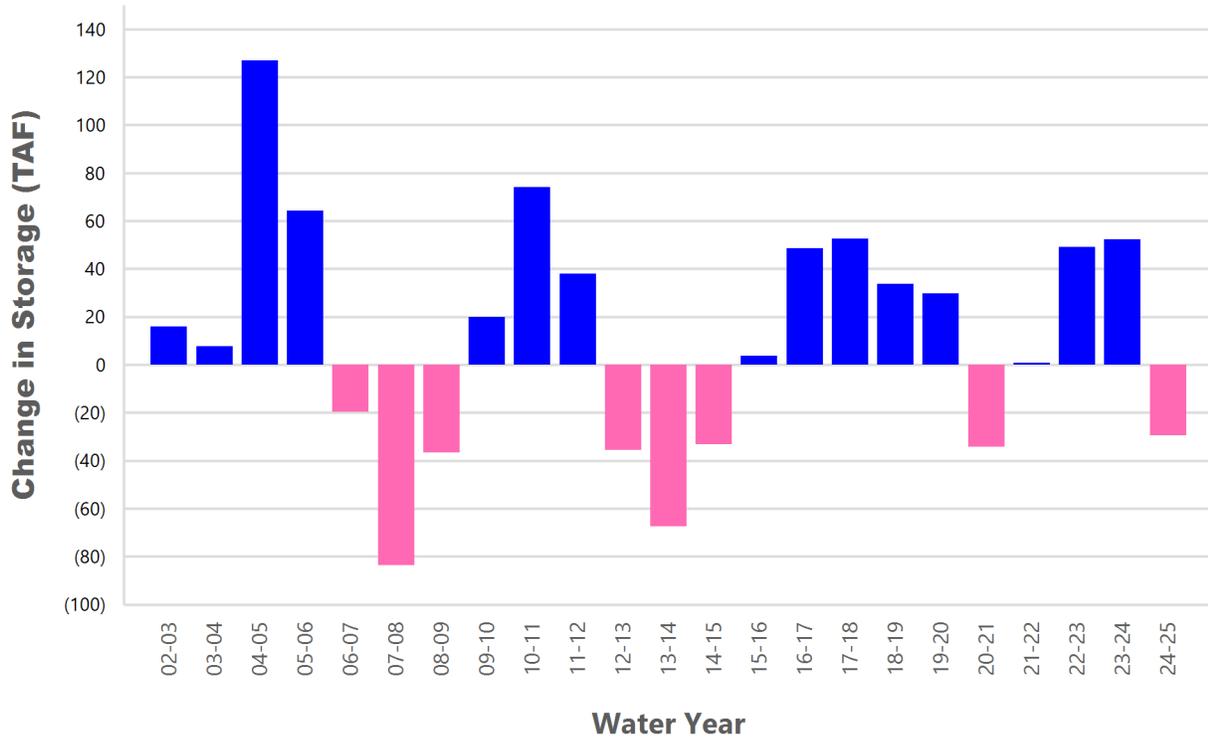


	Monthly		Accumulated Total for the Year			
	Budget	Actual	Budget	Actual	Difference	Percent
Total Water Demand	25,500	28,799	285,200	310,558	25,358	108.89 %
Total Pumping	22,500	22,851	236,000	250,408	14,408	106.11 %
RA Revenue	\$15,480,000	\$15,721,488	\$162,368,000	\$172,280,704	\$9,912,704	106.11 %

Accumulated Overdraft



YTD Change in Groundwater Storage in OCWD



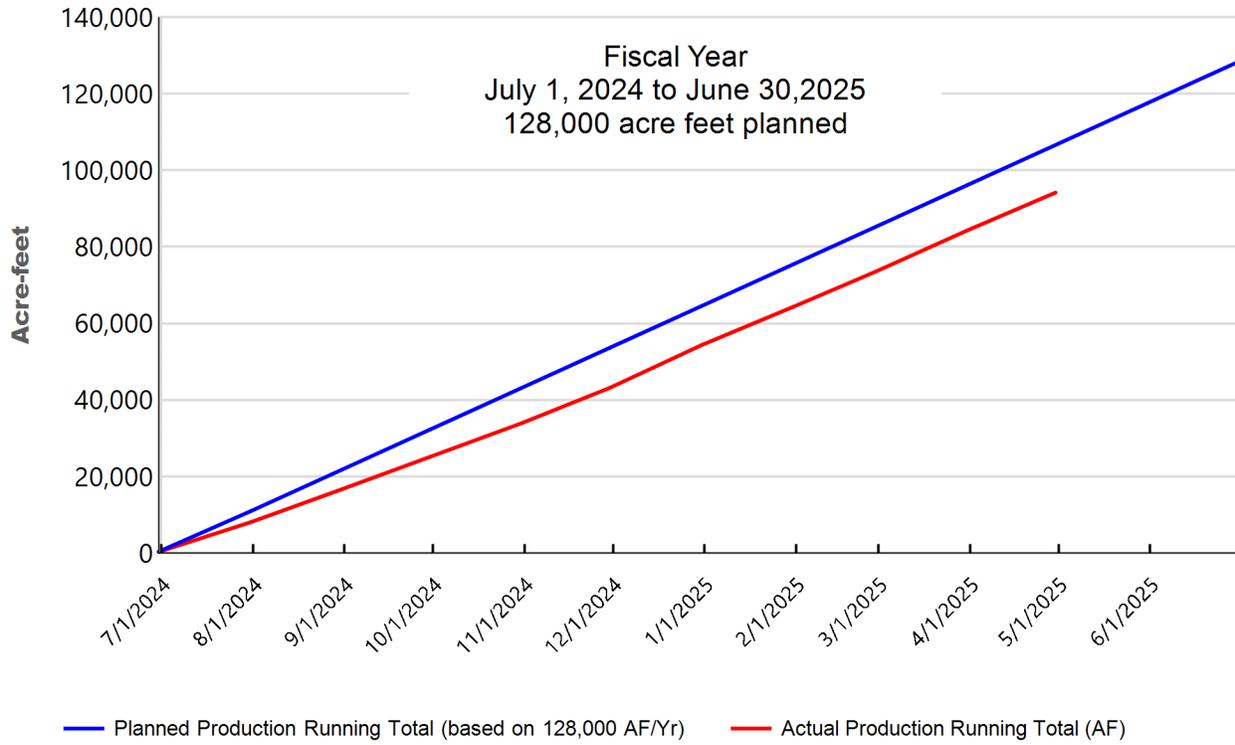
PRODUCERS WATER USAGE SUMMARY

April 2025

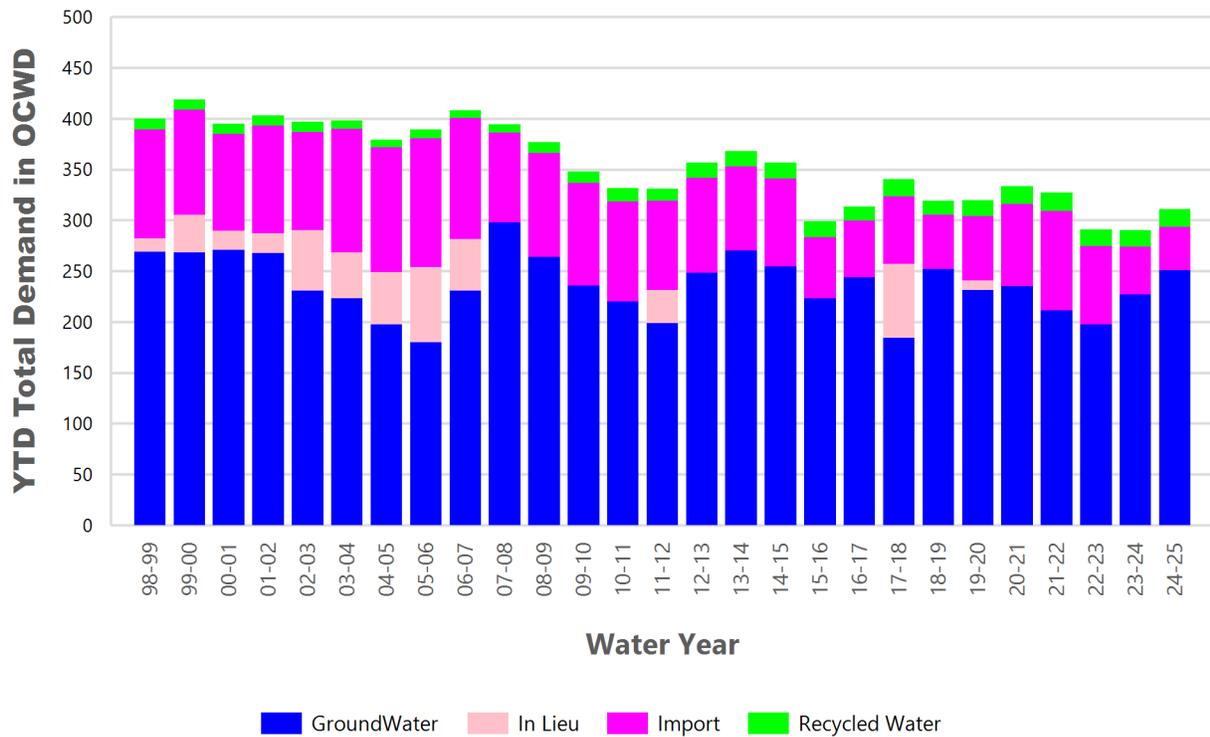
(units are acre-feet, unless percentage)

WATER AGENCY	Ground water	In Lieu	Reclaimed Water	Total Import	Total Demand	2024-25 YTD Demand	2023-24 YTD Demand	YTD % Diff Demand	Apr 2025 BPP	2024-25 YTD BPP	2023-24 YTD BPP
Anaheim	3,646	0	0	605	4,252	46,307	43,470	107 %	85.8 %	82.5 %	58.5 %
Buena Park	886	0	0	118	1,004	10,453	9,610	109 %	88.2 %	89 %	93.3 %
East Orange County	176	0	0	0	176	1,582	617	256 %	100 %	100 %	2.3 %
Fountain Valley	655	0	93	0	747	8,091	7,292	111 %	100 %	100 %	100 %
Fullerton	1,086	0	0	607	1,692	18,003	16,506	109 %	64.1 %	67.8 %	77.3 %
Garden Grove	1,552	0	0	180	1,733	17,603	16,906	104 %	89.6 %	94.5 %	100 %
Golden State	1,220	0	0	541	1,761	18,454	16,742	110 %	69.3 %	66.6 %	64.4 %
West OC System	788	-	-	280	1,067	11,050	10,373	107 %	na	na	na
East OC System	433	-	-	261	694	7,404	6,369	116 %	na	na	na
Huntington Beach	1,771	0	0	209	1,980	20,504	19,199	107 %	89.4 %	88.2 %	86 %
Irvine Ranch	2,239	0	1,559	93	3,891	48,782	49,832	98 %	96 %	98.6 %	99.7 %
DRWF Clear	1,258	-	-	-	1,258	20,191	22,023	92 %	na	na	na
DRWF Color	326	-	-	-	326	6,629	6,668	99 %	na	na	na
Laguna Beach	0	0	0	239	239	2,626	2,441	108 %	0 %	0 %	0 %
La Palma	131	0	0	0	131	1,358	1,314	103 %	100 %	100 %	99.9 %
Mesa Water (MW)	1,244	0	59	0	1,303	13,545	12,676	107 %	100 %	100 %	100 %
MW Clear	893	-	-	-	893	11,189	10,433	107 %	na	na	na
MW Amber	351	-	-	-	351	1,706	1,727	99 %	na	na	na
Newport Beach	960	0	44	198	1,202	11,399	10,258	111 %	82.9 %	86.1 %	78.5 %
Orange	1,401	0	0	535	1,936	20,695	18,761	110 %	72.4 %	81.5 %	88.3 %
OCWD (GAP)	124	0	0	0	124	1,237	1,344	92 %	100 %	100 %	100 %
Santa Ana	2,299	0	13	300	2,612	27,171	25,396	107 %	88.5 %	87.5 %	85.4 %
Seal Beach	312	0	0	1	313	3,210	2,415	133 %	99.7 %	88.1 %	96.9 %
Serrano	59	0	0	149	208	2,149	1,838	117 %	28.4 %	53.5 %	44.3 %
Tustin	417	0	0	259	676	7,533	7,877	96 %	61.7 %	65.3 %	73 %
Westminster	828	0	0	0	828	8,621	8,056	107 %	100 %	100 %	100 %
Yorba Linda	1,338	0	0	140	1,477	15,619	13,577	115 %	90.5 %	86.1 %	87.7 %
SUBTOTAL	22,343	0	1,769	4,174	28,286	304,942	286,127	107 %	84.3 %	85.2 %	82.5 %
Other Producers (Est ~2% of Subtotal)	507	0	0	5	513	5,616	4,062	138 %			
TOTAL	22,851	0	1,769	4,180	28,799	310,558	290,188	107 %	84.5 %	85.4 %	82.8 %
OCWD (Talbert Barrier)	0		1,358	0	1,358	15,391	14,534				
OCSD (GAP)	na		68	na	68	808	795				

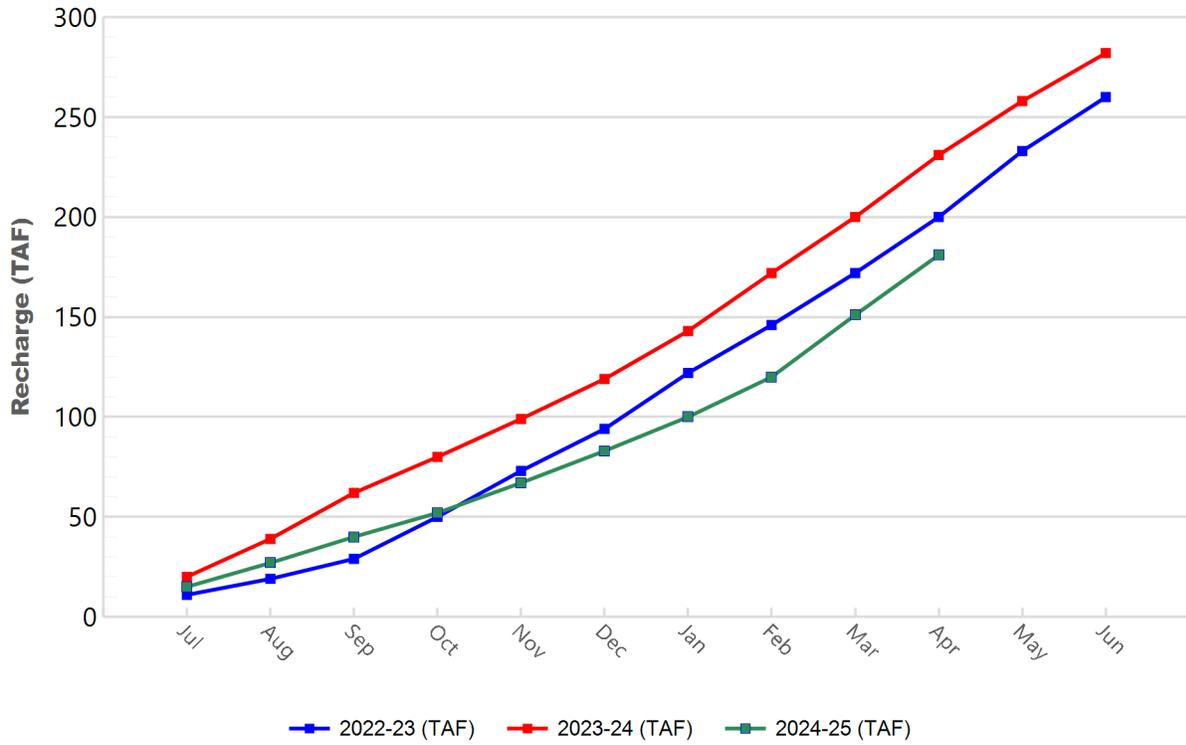
GWRS Actual Production to Target Production



YTD Total Demand in OCWD

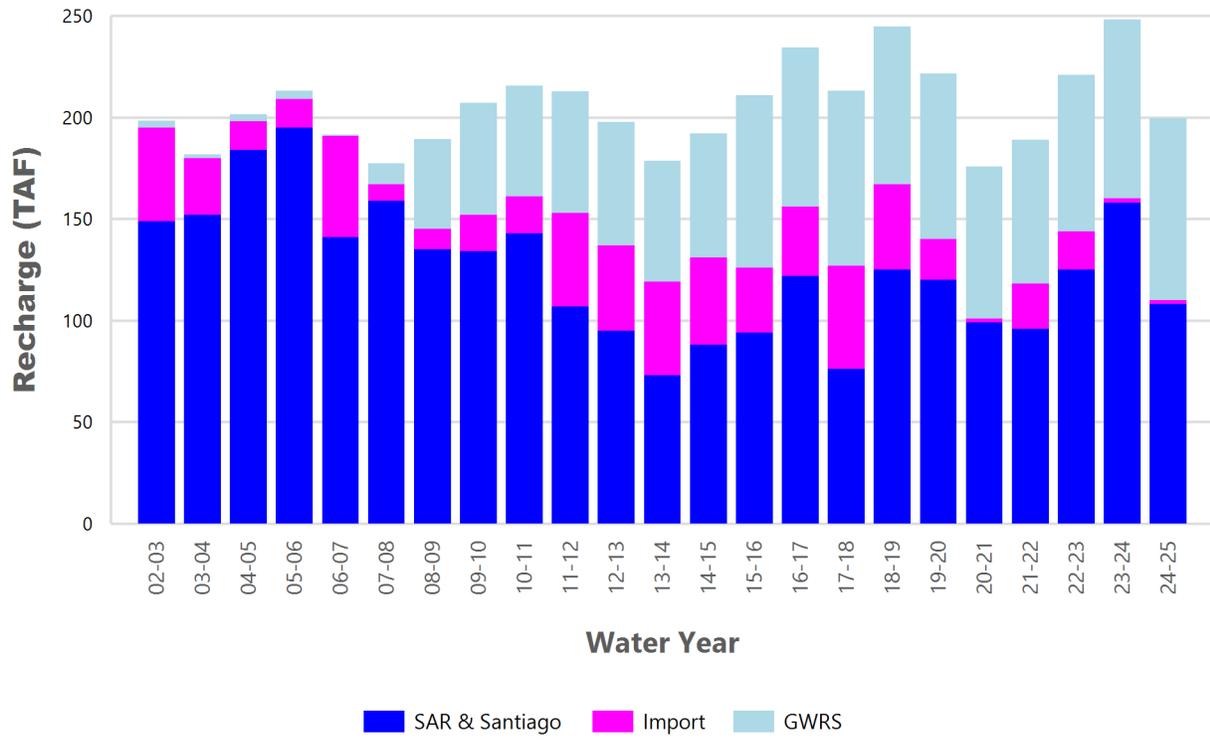


Annual Forebay Recharge



—■ 2022-23 (TAF) —■ 2023-24 (TAF) —■ 2024-25 (TAF)

YTD Artificial Recharge by OCWD



■ SAR & Santiago ■ Import ■ GWRS

RECHARGE AREAS REPORT

April 2025

	Percolation (AF)	Remarks
RIVER SYSTEM	5,466	92 cfs per day average perc
DESILTING SYSTEM	na	SAR
OFF-RIVER SYSTEM	1,047	SAR
WARNER SYSTEM	966	SAR
OLIVE BASIN	na	Passive System
ANAHEIM LAKE	1,559	SAR
MINI-ANA LAKE	150	SAR
MILLER BASIN	1,996	GWRS
KRAEMER BASIN	5,215	SAR
LA PALMA BASIN	5,132	GWRS
MIRALOMA BASIN	980	GWRS
LA JOLLA BASIN	1,172	SAR
PLACENTIA BASIN	0	0
RAYMOND BASIN	799	SAR
FIVE COVES BASIN	na	SAR
BURRIS BASIN	1,167	SAR, Barge Pumping
RIVER VIEW BASIN	442	SAR, Burris Pumping, Barge Pumping
FLETCHER BASIN	80	SAR, Burris Pumping, Barge Pumping, Local Runoff
SANTIAGO BASINS	2,566	SAR, Burris Pumping, Local Runoff
SANTIAGO CREEK	535	SAR, Burris Pumping, Barge Pumping, Local Runoff
TOTALS	29,272	
5-YR AVERAGE	24,804	

FLOWS TO RECHARGE AREAS (AF)	
Imperial Headgates (estimated)	17,079
GWRS	8,042
OC-28 (MWD)	0
OC-28a (MWD)	0
OC-59	0
Est'd local Forebay inflow below Imperial	68
Est'd local Santiago inflow (estimated)	88
Irvine lake releases (OC-13 MWD)	0
Villa Park Dam releases (estimated)	0
Precip at Warner Basin (inches)	0.29
Precip direct to open water surfaces	25
TOTAL INFLOW	25,303

LOSSES FROM RECHARGE AREAS (AF)	
Est'd SAR flow past Chapman Ave.	53
Est'd Santiago Cr. flow to SAR	0
Est'd flows past Raymond Basin	0
Calc'd evap (inches) Estimated	5
Est'd evaporative losses	406
TOTAL LOSSES	460

STORAGE CHANGES (AF)			
Facility	Begin	End	Net
Deep basins	10,197	8,756	-1,441
Santiago Pits	11,436	8,448	-2,988
River			
Off-river			
Irvine Lake			
TOTAL	21,633	17,204	-4,429

SUMMARY (AF)	
TOTAL INFLOW	25,303
TOTAL LOSSES	460
STORAGE CHANGE	-4,429
CALC'D PERCOLATION	29,272

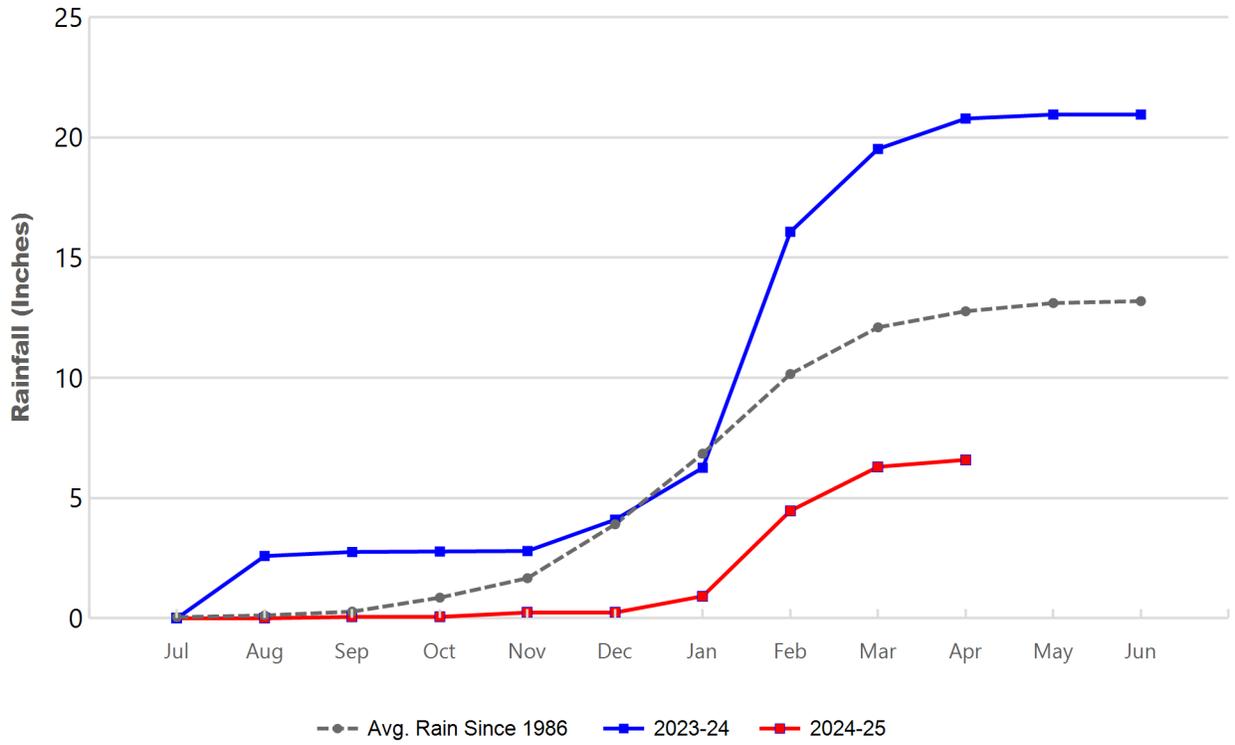
DEEP BASINS MONTHLY STATUS

April 2025

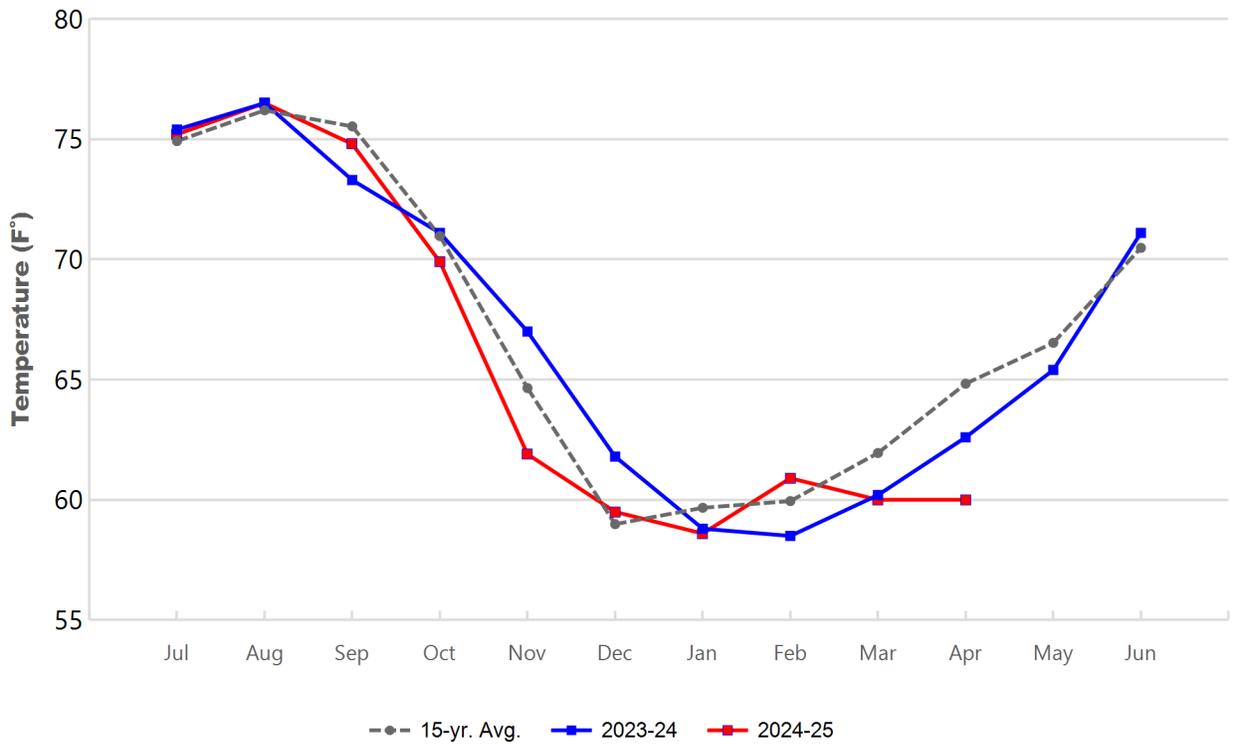
(values in acre-feet)

<i>Facility</i>	<i>Storage Start</i>	<i>Storage End</i>	<i>Maximum Storage</i>	<i>Total Perc</i>	<i>Max Perc</i>	<i>Avg Perc</i>	<i>Avg W.S. Elev</i>
Desilting Ponds	240	220	252	na	na	na	na
Fos-Huckleberry	581	542	628	na	na	na	na
Conrock Basin	608	566	661	na	na	na	na
Warner Basins	2,885	2,284	2,900	966	na	na	237
Olive Pit	38	58	95	na	na	na	217
Anaheim Lake	1,697	805	2,300	1,559	96	53	207
Mini-Anaheim Lk	12	7	10	150	9	5	227
Miller Basin	123	44	350	1,996	97	67	212
Kraemer Basin	1,059	1,117	1,055	5,215	196	176	218
La Palma Basin	94	90	101	5,132	190	171	218
Miraloma Basin	8	34	53	980	72	33	214
La Jolla Basin	8	18	20	1,172	46	40	202
Placentia Basin	0	0	260	0	0	0	155
Raymond Basin	104	260	260	799	38	27	159
Five Coves Basins	290	260	329	na	na	na	na
Burriss Pit	2,438	2,432	2,500	1,167	48	39	171
River View Basin	1	9	8	442	23	15	188
Fletcher Basin	10	11	15	80	5	3	189
Santiago (Bond)	7,293	5,674	8,312	2,566	133	87	262
Santiago (Blu Dia)	4,143	2,774	5,259	-	-	-	-
Totals	21,633	17,204	25,367	22,224			
Prado Dam	6,732	1	25,374				

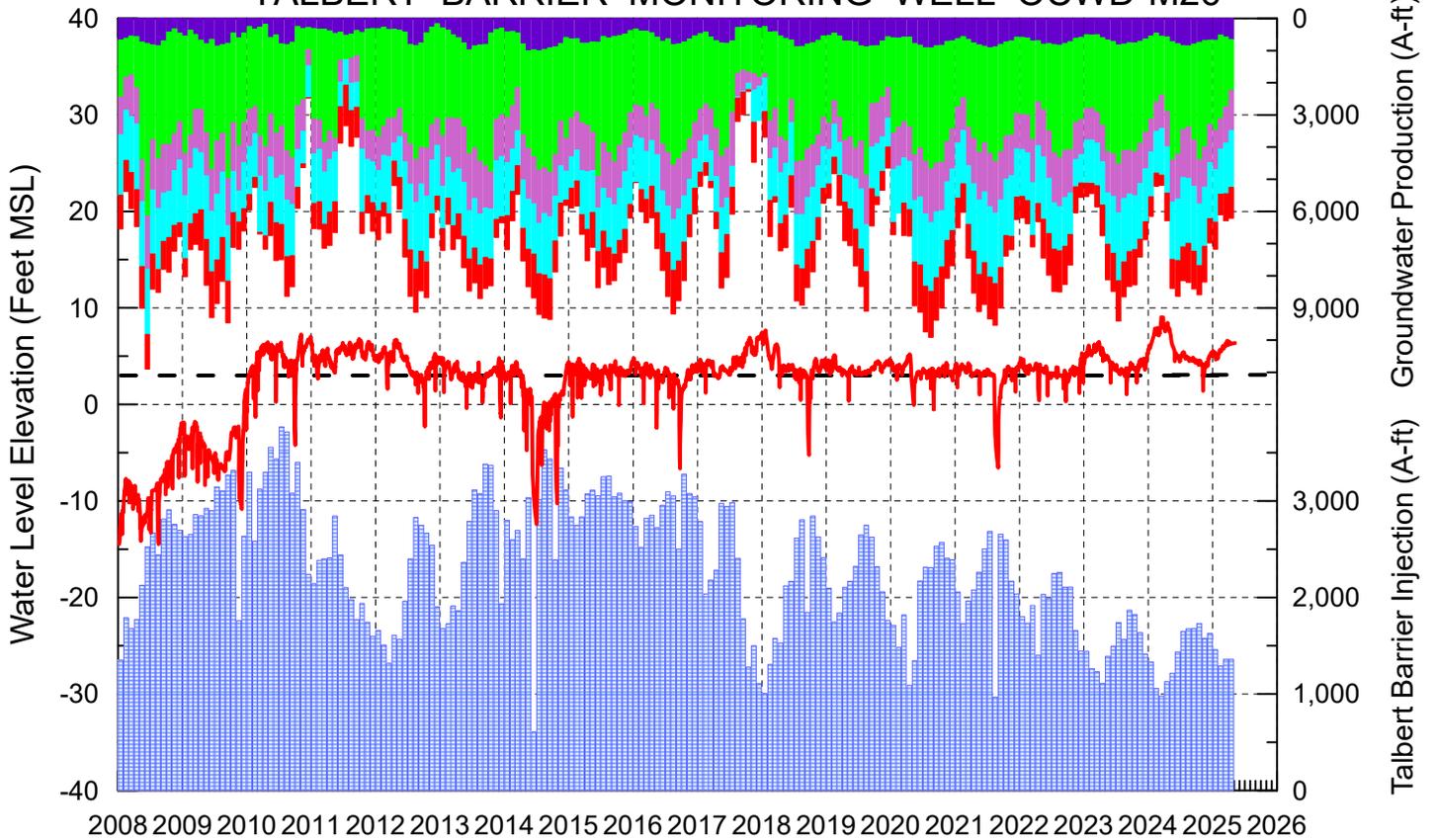
Cumulative Anaheim Field HQ Rainfall



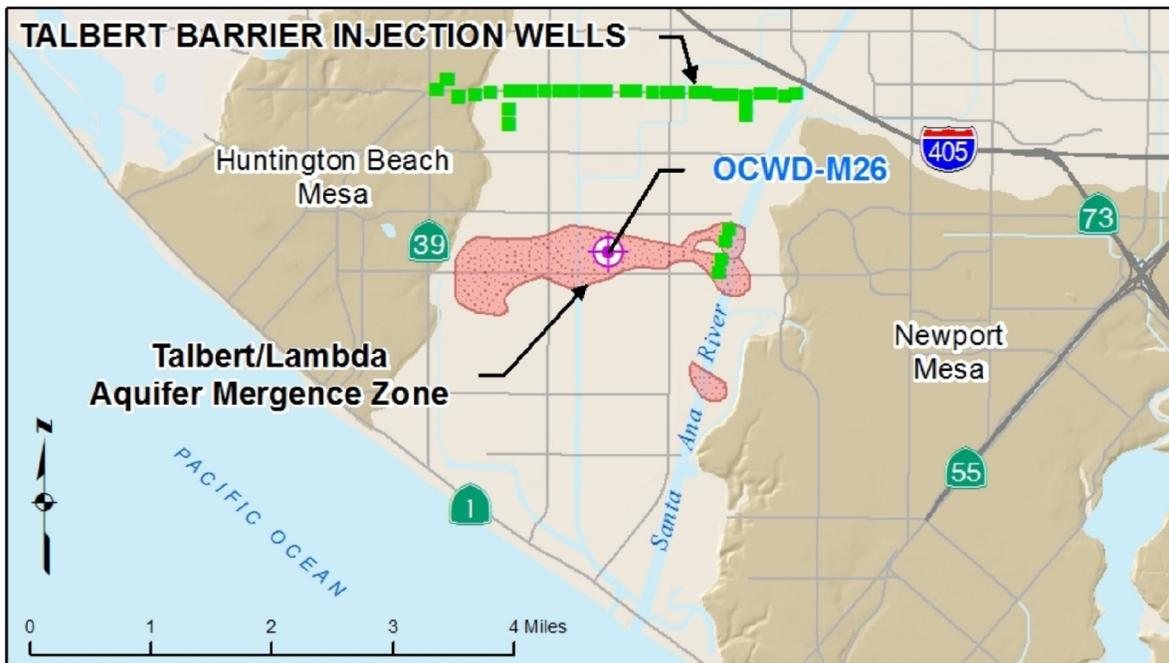
Temperature at Santa Ana Fire Station



TALBERT BARRIER MONITORING WELL OCWD-M26



- Talbert/Lambda Aquifer Mergence Zone Perforated Interval: 71 - 135 ft. bgs
- ▨ Talbert Barrier Injection
- - - Protective Level to Prevent Seawater Intrusion
- ▨ Fountain Valley Groundwater Production
- ▨ IRWD Groundwater Production
- ▨ Mesa Water Groundwater Production
- ▨ Huntington Beach Groundwater Production
- ▨ Newport Beach Groundwater Production



ACTION AGENDA
COMMUNICATIONS AND LEGISLATIVE LIAISON COMMITTEE MEETING
May 8, 2025 12:00 p.m.- Conference Room C-2

<p>ROLL CALL Van Tran Roger Yoh arrived at 12:02 p.m. Steve Sheldon arrived at 12:03 p.m. Valerie Amezcua arrived at 12:24 p.m. Erik Weigand</p> <p><u>Alternates</u> Cathy Green Fred Jung arrived at 12:04 p.m. Dina Nguyen Natalie Meeks Denis Bilodeau</p>	<p>Quorum of Cte: Yes Quorum of Board: Yes</p>																																
CONSENT CALENDAR (ITEMS NO. 1)																																	
<p>1. MINUTES OF COMMUNICATIONS AND LEGISLATIVE LIAISON COMMITTEE MEETING HELD APRIL 3, 2025</p> <p>RECOMMENDATION: Approve minutes as presented</p>	<p>Approved</p>																																
MATTERS FOR CONSIDERATION																																	
<p>2. STATE LEGISLATIVE UPDATE</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting: Take the following position:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Bill Number/Author</th> <th style="text-align: left;">Short Title</th> <th style="text-align: left;">Position</th> <th style="text-align: left;">Status</th> </tr> </thead> <tbody> <tr> <td>AB 259 Blanca Rubio (D-West Covina)</td> <td>Open meetings: local agencies: teleconferences</td> <td>Support</td> <td>Assembly 3rd reading</td> </tr> <tr> <td>SB 72 (Caballero, D-Merced)</td> <td>The California Water Plan: long-term supply targets 'California Water for All'</td> <td>Support</td> <td>Appropriations Suspense File</td> </tr> <tr> <td>AB 794 (Gabriel, D-Encino)</td> <td>California Safe Drinking Water Act: emergency regulations</td> <td>Oppose</td> <td>Appropriations Suspense File</td> </tr> <tr> <td>SB 454 (McNerney, D-Stockton) ACWA Sponsored Bill</td> <td>SB 454 State Water Resources Control Board: PFAS Mitigation Program</td> <td>Support</td> <td>Appropriations Suspense File</td> </tr> <tr> <td>SB 496 Hurtado (D-Bakersfield)</td> <td>Advanced Clean Fleets Regulation: appeals advisory committee: exemptions</td> <td>Support</td> <td>Set for hearing May 5 Appropriations</td> </tr> <tr> <td>SB 601 Allen (D-Santa Monica)</td> <td>Water: Waste Discharge</td> <td>Oppose</td> <td>Appropriations – no hearing date set</td> </tr> <tr> <td>SB 599 Anna Caballero (D-Merced)</td> <td>Atmospheric rivers research: forecasting methods: experimental tools</td> <td>Support</td> <td>Appropriations Committee – hearing May 5</td> </tr> </tbody> </table>	Bill Number/Author	Short Title	Position	Status	AB 259 Blanca Rubio (D-West Covina)	Open meetings: local agencies: teleconferences	Support	Assembly 3 rd reading	SB 72 (Caballero, D-Merced)	The California Water Plan: long-term supply targets 'California Water for All'	Support	Appropriations Suspense File	AB 794 (Gabriel, D-Encino)	California Safe Drinking Water Act: emergency regulations	Oppose	Appropriations Suspense File	SB 454 (McNerney, D-Stockton) ACWA Sponsored Bill	SB 454 State Water Resources Control Board: PFAS Mitigation Program	Support	Appropriations Suspense File	SB 496 Hurtado (D-Bakersfield)	Advanced Clean Fleets Regulation: appeals advisory committee: exemptions	Support	Set for hearing May 5 Appropriations	SB 601 Allen (D-Santa Monica)	Water: Waste Discharge	Oppose	Appropriations – no hearing date set	SB 599 Anna Caballero (D-Merced)	Atmospheric rivers research: forecasting methods: experimental tools	Support	Appropriations Committee – hearing May 5	<p>Informational</p>
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<p>3. FEDERAL LEGISLATIVE UPDATE</p> <p>RECOMMENDATION: Agendize for April 16 Board meeting: Take action as appropriate</p>	<p>Informational</p>																																

INFORMATIONAL ITEMS	
4. CHILDREN'S WATER EDUCATION FESTIVAL RECAP	Informational
5. PUBLIC AFFAIRS OUTREACH REPORT (APRIL)	Informational
CHAIR DIRECTION AS TO WHICH ITEMS IF ANY TO BE AGENDIZED AS A MATTER FOR CONSIDERATION AT THE APRIL 16 BOARD MEETING	
ADJOURNMENT	12:50 p.m.

ACTION AGENDA
PROPERTY MANAGEMENT COMMITTEE MEETING
Friday, May 9, 2025, 12:00 p.m. Conference Room C-2

ROLL CALL Steve Sheldon Natalie Meeks Fred Jung Roger Yoh Cathy Green <u>Alternates</u> Dina Nguyen Valerie Amezcua (absent) Van Tran Erik Weigand Denis Bilodeau	Quorum of Board: Yes Quorum of Cte: Yes
CONSENT CALENDAR (ITEM NO. 1)	
1. MINUTES OF PROPERTY MANAGEMENT COMMITTEE MEETING HELD MARCH 28, 2025 RECOMMENDATION: Approve minutes as presented	Approved
MATTER FOR CONSIDERATION	
2. STATUS UPDATE REGARDING THE DISTRICT'S IMPERIAL HIGHWAY PROPERTY RECOMMENDATION: Agendize for May 21 Board meeting: Direct staff as appropriate	Informational
INFORMATIONAL ITEMS	
3. STATUS UPDATE ON THE CITY OF ANAHEIM'S PROPOSED OC RIVER WALK PROJECT	Informational
4. STATUS UPDATE ON PLANNING OF IN-PLACE REMEDIATION FOR THE PRADO LEAD REMEDIATION PROJECT	Informational
5. QUARTERLY REPORT ON LEASES AND PERMITS/LICENSES FOR THE PERIOD ENDING MARCH 31, 2025	Informational
CHAIR DIRECTION AS TO ITEMS TO AGENDIZE AS MATTERS FOR CONSIDERATION AT THE MARCH 19 BOARD MEETING	
ADJOURNMENT	1:10 p.m.

ACTION AGENDA
WATER ISSUES COMMITTEE MEETING
ORANGE COUNTY WATER DISTRICT
Wednesday, May 14, 2025 12:00 p.m., Boardroom

<p>ROLL CALL Cathy Green (absent) Erik Weigand Roger Yoh Van Tran Dina Nguyen (absent)</p> <p><u>Alternates</u> Valerie Amezcuca Fred Jung Natalie Meeks arrived @ 12:14 p.m. Steve Sheldon Denis Bilodeau</p>	<p>Quorum of Cte: Yes Quorum of Board: Yes</p>
<p>CONSENT CALENDAR (ITEMS NO. 1 – 12)</p>	
<p>1. MINUTES OF WATER ISSUES COMMITTEE MEETING HELD APRIL 9, 2025</p> <p>RECOMMENDATION: Approve minutes as presented</p>	<p>Approved</p>
<p>2. INVITATION FOR QUOTES (IFQ-24-002) FOR SOIL BORINGS AT ANAHEIM LAKE (RESILIENCE PLAN PRIORITY PROJECT NO. 12)</p> <p>RECOMMENDATION: Agendize for May 21 Board Meeting: Authorize issuance of Invitation for Quotes for services to drill soil borings at Anaheim Lake</p>	<p>Approved</p>
<p>3. AUTHORIZE AGREEMENT TO BUTIER ENGINEERING INC FOR CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES FOR SB-2025-1 BOND BASIN SLOPE REPAIR AND BUDGET INCREASE</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting:</p> <ol style="list-style-type: none"> 1. Authorize agreement with Butier Engineering, Inc. for a not-to-exceed amount of \$321,123.50 for construction management and inspection services for SB-2025-1 Bond Basin Slope Repair; and 2. Increase project budget by \$71,124 for a total project budget amount of \$3,849,414 	<p>Approved</p>
<p>4. CONTRACT NO. TUS-2022-1: AMENDMENT NO. 2 TO BUTIER ENGINEERING</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting: Authorize issuance of Amendment No. 2 to Agreement No. 1558 with Butier Engineering Inc. for construction management and inspection services in the amount of \$197,010</p>	<p>Approved</p>
<p>5. AGREEMENT EXTENSION FOR ON CALL SURVEYING SERVICES</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting: Authorize time extension of agreements to Stantec Consulting Services, Inc., CASC Engineering and Consulting, and Huitt-Zollars, Inc. for on-call surveying services through June 30, 2027</p>	<p>Approved</p>
<p>6. TALBERT BARRIER INJECTION WELLS I-24 & I-25 CONTROL VALVE PROJECT – PUBLICATION OF NOTICE INVITING BIDS</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting: Authorize publication of Notice Inviting Bids for Contract No. TAL-2024-2, Talbert Barrier Injection Wells I-24</p>	<p>Approved</p>

and I-25 Control Valve Replacement Project	
<p>7. CONTRACT NO. A-2025-1 ANAHEIM LAKE VALVE VAULT CATEGORICAL EXEMPTION AND NOTICE INVITING BIDS</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting:</p> <ol style="list-style-type: none"> 1. Authorize filing of a Categorical Exemption for the Anaheim Lake Valve Vault project in compliance with the California Environmental Quality Act (CEQA) guidelines; and 2. Authorize publication of Notice Inviting Bids for Contract No. A-2025-1, Anaheim Lake Valve Vault 	Approved
<p>8. GOLDEN STATE WATER COMPANY CLAIR PLANT, BEACH PLANT, AND DALE PLANT PFAS TREATMENT SYSTEMS PROJECT: ENGINEER'S REPORT AND CATEGORICAL EXEMPTION</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting:</p> <ol style="list-style-type: none"> 1. Approve the Engineer's Report for the Golden State Water Company Clair Plant, Beach Plant, and Dale Plant PFAS Treatment Systems Project and determine the project feasible, necessary and beneficial to the lands of the District; and 2. Authorize filing of a Categorical Exemption for the Golden State Water Company Clair Plant, Beach Plant, and Dale Plant PFAS Treatment Systems Project in compliance with the California Environmental Quality Act (CEQA) guidelines 	Approved
<p>9. AUTHORIZE AGREEMENT TO TAIT AND ASSOCIATES, INC. FOR 2025 ASPHALT PAVEMENT REHABILITATION DESIGN</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting: Authorize issuance of Agreement to Tait and Associates, Inc. for an amount not to exceed \$100,000 for the 2025 Asphalt Pavement Rehabilitation Design</p>	Approved
<p>10. ISSUANCE OF SERVICES AGREEMENT WITH TETRA TECH, INC. FOR 2025 PRADO BASIN MULTISPECTRAL AERIAL IMAGERY AND LIGHT DETECTION RANGING (LIDAR)</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting:</p> <ol style="list-style-type: none"> 1. Authorize issuance of an Agreement to Tetra Tech, Inc., in the amount of \$41,198 for multispectral aerial imaging and high-pulse count LiDAR data collection of Prado Basin; and, 2. Approve and authorize execution of cost share agreement with Inland Empire Utilities Agency and Chino Basin Watermaster for multispectral aerial imagery and LiDAR data collection, subject to approval as to form by the District's General Counsel 	Approved
<p>11. AUTHORIZATION TO ENTER INTO A MEMORANDUM OF UNDERSTANDING (MOU) WITH THE COUNTY OF ORANGE FOR THE CONTINUED USE OF THE COUNTY'S ALERTOC</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting: Authorize the General Manager to sign the Memorandum of Understanding (MOU) between the Orange County Water District and the County of Orange for the continued use of the County's</p>	Approved

Mass Notification System, AlertOC, administered through Everbridge, Inc.	
12. AWARD CONTRACT NO. GWRS-2025-1 REVERSE OSMOSIS CIP VALVE RELOCATION TO MURRAY COMPANY RECOMMENDATION: Agendize for May 21 Board meeting: 1. Receive and file Affidavit of Publication of Notice Inviting Bids for Contract GWRS-2025-1 Reverse Osmosis CIP Valve Relocation Project; 2. Ratify issuance of Addendum No. 1 to provide responses to potential bidder's questions; and 3. Accept bid and award contract GWRS-2025-1 to the lowest responsive bid and responsible bidder, Murray Company, in the amount of \$340,885; and 4. Establish the Reverse Osmosis CIP Valve Relocation Project budget in the amount of \$500,000	Approved
END OF CONSENT CALENDAR	
MATTERS FOR CONSIDERATION	
13. AWARD DIRECT ACCESS ELECTRICITY CONTRACT FOR GROUNDWATER REPLENISHMENT SYSTEM, BURRIS PUMP STATION, AND GREEN ACRES PROJECT SANTA ANA RESERVOIR RECOMMENDATION: Agendize for May 21 Board meeting: Authorize the general manager in consultation with the board president to enter into a five year contract ending June 30, 2030 for Direct Access electricity procurement with Constellation New Energy, NRG/Direct Energy or Shell Energy for the OCWD Kiwi Substation, Burris Pump Station, and Green Acres Project Santa Ana Reservoir on May 22, 2025	Approved
14. RESULTS OF RIVERBED FILTRATION SYSTEM DEMONSTRATION PROJECT AND AUTHORIZATION TO ISSUE REQUEST FOR PROPOSALS FOR FEASIBILITY STUDY (Resilience Plan Priority Project No. 11) RECOMMENDATION: Agendize for May 21 Board meeting: Authorize issuance of Request for Proposals for the Riverbed Filtration System Feasibility Study	Approved
CHAIR DIRECTION AS TO ITEMS IF ANY TO BE AGENDIZED AS MATTERS FOR CONSIDERATION AT THE MAY 21 BOARD MEETING	All items on consent
ADJOURNMENT	12:44 p.m.

ACTION AGENDA
ADMINISTRATION/FINANCE ISSUES COMMITTEE MEETING
Thursday, May 15, 2025, 12:00 p.m.

<p>ROLL CALL Roger Yoh Valerie Amezcua Dina Nguyen (absent) Fred Jung Cathy Green (absent)</p> <p><u>Alternates</u> Erik Weigand Van Tran Natalie Meeks (absent) Steve Sheldon Denis Bilodeau (absent)</p>	<p>Quorum of Cte: Yes</p> <p>Quorum of Board: Yes</p>
<p>CONSENT CALENDAR (ITEMS NO. 1 – 9)</p>	
<p>1. MINUTES OF ADMINISTRATION/FINANCE ISSUES COMMITTEE MEETING HELD APRIL 10, 2025</p> <p>RECOMMENDATION: Approve minutes as presented</p>	<p>Approved</p>
<p>2. MONTHLY CASH CONTROL REPORTS</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting: Receive and file Summary Cash and Cash Equivalents Control Reports dated April 30, 2025</p>	<p>Approved</p>
<p>3. INVESTMENT PORTFOLIO HOLDINGS REPORT</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting: Receive and file the Investment Portfolio Holdings Reports dated April 30, 2025</p>	<p>Approved</p>
<p>4. ULTRAVIOLET LIGHT (UV) EQUIPMENT SUPPLY</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting: Authorize issuance of Purchase Order to Trojan Technologies Corp for the purchase of 1,080 UV lamps in the amount of \$272,691, including freight</p>	<p>Approved</p>
<p>5. AMENDMENT 6 TO AGREEMENT 1315 WITH VALLEY CITIES/GONZALES FENCE, INC., FOR ON-CALL FENCE REPAIRS</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting: Authorize issuance of Amendment No. 6 to Agreement No. 1315 with Valley Cities/Gonzales Fence, Inc. to extend the termination date to June 30, 2027, and increase the not-to-exceed amount by \$60,000</p>	<p>Approved</p>
<p>6. AUTHORIZE AMENDMENT NO 1 TO AGREEMENT 1554 WITH YORKE ENGINEERING, INC FOR MOBILE SOURCE COMPLIANCE ASSISTANCE</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting: Authorize Amendment No. 1 to Agreement 1554 with Yorke Engineering, Inc. for Mobile Source Compliance Assistance for an amount not to exceed \$20,000</p>	<p>Approved</p>
<p>7. AWARD OF SERVICES AGREEMENT FOR HABITAT RESTORATION SERVICES AT PRADO AND ORANGE COUNTY FACILITIES</p> <p>RECOMMENDATION: Agendize for May 21 Board meeting: Authorize issuance of agreement to Habitat West for \$90,000, plus an additional \$180,000 per year starting in year 2, plus a 5% inflation rate for each subsequent year, for a not to exceed total of \$652,725 for three years</p>	<p>Approved</p>
<p>8. AGREEMENT TO PACWEST FOR DISTRICT SECURITY SERVICES</p>	<p>Approved</p>

RECOMMENDATION: Agendize for May 21 Board meeting: Authorize amendment to Agreement No. 1496 to PacWest Security Services for three years for the amount of \$499,825.82 for the period of June 15, 2025, through June 15, 2026, \$522,738.82 for the period of June 15, 2026, through June 15, 2027, and \$547,539.63 for the period of June 15, 2027 through June 15, 2028	
9. AGREEMENT WITH SHI INTERNATIONAL CORPORATION FOR MICROSOFT LICENSING, PRODUCTS AND SERVICES RECOMMENDATION: Agendize for May 21 Board meeting: 1) Approve the purchase of Microsoft subscription licenses, products and services from SHI International Corp. under the County of Riverside Agreement ITARC-00929 in the amount of \$260,658 (\$86,886 per year) for a term of three years commencing August 1, 2025, and authorize the General Manager to execute corresponding agreements with SHI and Microsoft Corporation, subject to legal counsel review; and 2) Authorize the General Manager approve amendments of up to 10% of the contract value	Approved
MATTERS FOR CONSIDERATION	
10. SANTA ANA WELL CONSTRUCTION LOAN AGREEMENT RECOMMENDATION: Agendize for May 21 Board meeting: Approve the New Well Construction Loan Agreement with Santa Ana up to \$10 million	Approved
11. BUDGET TO ACTUAL REPORT FOR THIRD QUARTER FY 2024–25 RECOMMENDATION: Agendize for May 21 Board meeting: Receive and file the Budget to Actual Report for Third Quarter of Fiscal Year 2024-25 ending March 31, 2025	Approved
INFORMATIONAL ITEMS	
12. MONTHLY CASH DISBURSEMENTS REPORT	Informational
CHAIR DIRECTION AS TO WHICH ITEMS IF ANY TO BE AGENDIZED AS MATTERS FOR CONSIDERATION AT MAY 21 BOARD MEETING	All items on consent
ADJOURNMENT	12:16 p.m.